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Application Framework Reference: For EmberZNet 4.6.4

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Ember Corporation
25 Thomson Place
Boston, MA 02210
+1 (617) 951-0200
www.ember.com



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About This Guide

Purpose

This document is a unified collection of API reference documentation covering EmberZNet PRO Stack. Ember recommends that you use this document as a searchable reference. It includes all of the information contained in the html version of these materials that are provided as an online reference for developers of EmberZNet-based ZigBee wireless applications. There are three key advantages that this document provides over the online html versions:

- Everything is contained in this single document.
- This document is fully searchable using the Adobe Acrobat search engine that is part of the free Acrobat Reader (available from www.adobe.com).
- This document can be easily printed.

Audience

This document is intended for use by programmers and designers developing ZigBee wireless networking products based on the EmberZNet PRO Stack Software. This document assumes that the reader has a solid understanding of embedded systems design and programming in the C language. Experience with networking and radio frequency systems is useful but not expected.

Getting Help

Developer kit customers are eligible for training and technical support. You can use the Ember web site www.ember.com to obtain information about all Ember products and services, and to sign up for product support.

You can also contact Ember technical support at www.ember.com/support_index.html.

Chapter 1

Introduction

The Ember Application Framework V2 Reference documentation includes the following sections:

- [Ember Application Framework API Reference](#)
- [Ember Application Framework Command Line Interface \(CLI\)](#)

Chapter 2

Module Index

2.1 Modules

Here is a list of all modules:

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| Application Framework Callback Interface | 61 |
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Directory Hierarchy

3.1 Directories

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Data Structure Index

4.1 Data Structures

Here are the data structures with brief descriptions:

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| _BlockThreshold | 622 |
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| _Protocol | 632 |
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| _SceneExtensionAttributeInfo | 636 |
| _SceneExtensionFieldSet | 637 |
| _ScheduledPhase | 637 |
| _TransferredPhase | 638 |
| _WriteAttributeRecord | 639 |
| _WriteAttributeStatusRecord | 640 |
| EmAfOtaStorageLinuxConfig | 640 |
| EmberAfAllowedInterPanMessage | |
| This structure is used define an interpan message that will be accepted by the interpan filters | 641 |
| EmberAfAttributeMetadata | |
| Each attribute has it's metadata stored in such struct | 642 |
| EmberAfAttributeMinMaxValue | |
| Type describing the attribute default, min and max values | 643 |

| | | |
|--|---|-----|
| EmberAfAttributeSearchRecord | Struct used to find an attribute in storage. Together the elements in this search record constitute the "primary key" used to identify a unique attribute value in attribute storage | 644 |
| EmberAfCluster | Struct describing cluster | 645 |
| EmberAfClusterCommand | The EmberAFClusterCommand is a struct wrapper for all the data pertaining to a command which comes in over the air. This enables struct is used to encapsulate a command in a single place on the stack and pass a pointer to that location around during command processing | 646 |
| EmberAfDefaultAttributeValue | Type for default values | 648 |
| EmberAfDefaultOrMinMaxAttributeValue | Union describing the attribute default/min/max values | 649 |
| EmberAfDefinedEndpoint | Struct that maps actual endpoint type, onto a specific endpoint | 650 |
| EmberAfEndpointList | A list of endpoints received during a service discovery attempt. This will be returned for a match descriptor request and a active endpoint request | 651 |
| EmberAfEndpointType | Endpoint type struct describes clusters that are on the endpoint | 652 |
| EmberAfEventContext | Structure used to keep track of cluster related events and their sleep control values. The cluster code will not know at runtime all of the events that it has access to in the event table This structure is stored by the application framework in an event context table which allong with helper functions allows the cluster code to schedule and deactivate its associated events | 652 |
| EmberAfIasZoneTableEntry | | 653 |
| EmberAfIncomingMessage | Struct containing the superset of values passed to both emberIncomingMessageHandler on the SOC and ezspIncomingMessageHandler on the host | 654 |
| EmberAfInterpanHeader | Interpan header used for sending and receiving interpan messages | 656 |
| EmberAfLinkKeyBackupData | A data struct for a link key backup | 657 |
| EmberAfLoadControlEvent | Struct that describes a load control event | 658 |
| EmberAfManufacturerCodeEntry | | 660 |
| EmberAfOtaHeader | This structure is an in-memory representation of the Over-the-air header data that resides on disk. It is not a byte-for-byte copy | 661 |
| EmberAfOtaImageId | This is a unique identifier for referencing ZigBee Over-the-air upgrade images. It is used by the OTA plugins when passing around information about an upgrade file | 663 |
| EmberAfPluginEsiManagementEsiEntry | | 664 |
| EmberAfPluginMessagingServerMessage | The message and metadata used by the Messaging server plugin | 664 |
| EmberAfSceneTableEntry | A structure used to store scene table entries in RAM or in tokens, depending on a plugin setting. If endpoint field is <code>EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID</code> , the entry is unused | 665 |
| EmberAfScheduledPrice | The price and metadata used by the Price server plugin | 666 |

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| EmberAfServiceDiscoveryResult | |
| A structure containing general information about the service discovery | 669 |
| EmberAfTagData | |
| This structure contains information about a tag that resides within an Over-the-air boot-load file | 670 |
| EmberAfTrustCenterBackupData | |
| A data struct for all the trust center backup data | 670 |
| rxFragmentedPacket | 671 |
| txFragmentedPacket | 673 |

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

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| _AF_API.top | 675 |
| af-structs.h | 678 |
| af-types.h | |
| The include file for all the types for Ember ApplicationFramework | 684 |
| af.h | |
| The master include file for the Ember ApplicationFramework API | 697 |
| att-storage.h | 707 |
| attribute-id.h | 834 |
| attribute-size.h | 859 |
| attribute-type.h | 861 |
| bacnet-protocol-tunnel.h | 863 |
| basic-callback.h | 863 |
| basic.h | 864 |
| call-command-handler.h | 869 |
| callback.h | 913 |
| cli.h | 976 |
| client-api.h | |
| API for generating command buffer | 987 |
| client-command-macro.h | 999 |
| cluster-id.h | 1056 |
| color-control.h | 1057 |
| command-id.h | 1091 |
| custom_token.h | 1100 |
| debug-printing-test.h | 1108 |
| debug-printing.h | 1152 |
| demand-response-load-control.h | 1174 |
| drlc-callback.h | 1175 |
| drlc-server.h | 1176 |
| enums.h | 1187 |
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| fragmentation.h | 1206 |
| generic-tunnel.h | 1208 |
| groups-server.h | 1209 |

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| ias-ace-server.h | 1209 |
| ias-wd-server.h | 1211 |
| ias-zone-table.h | 1213 |
| identify.h | 1214 |
| interpan-callback.h | 1215 |
| interpan.h | |
| Plugin for receiving InterPAN messages. See message for documentation | 1217 |
| key-establishment-storage.h | 1219 |
| key-establishment.h | 1221 |
| level-control.h | 1223 |
| load-control-event-table.h | 1226 |
| messaging-client-callback.h | 1228 |
| messaging-client.h | 1229 |
| messaging-server.h | 1231 |
| network-find-callback.h | 1232 |
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| ota-bootload-xmodem.h | 1234 |
| ota-client-page-request-test.h | 1235 |
| ota-client-page-request.h | 1236 |
| ota-client-policy.h | 1238 |
| ota-client-signature-verify.h | 1240 |
| ota-client.h | 1242 |
| ota-server-policy.h | 1244 |
| ota-server.h | 1245 |
| ota-static-file-data.h | 1246 |
| ota-storage-eeprom.h | 1250 |
| ota-storage-linux.h | 1254 |
| ota-storage-ram.h | 1254 |
| ota-storage-simple-custom.h | 1255 |
| ota-storage-simple-driver.h | 1255 |
| ota-storage.h | 1261 |
| ota.h | 1267 |
| partner-link-key-exchange.h | 1268 |
| price-client-callback.h | 1269 |
| price-client.h | 1271 |
| price-server.h | 1274 |
| print-cluster.h | 1281 |
| reporting-callback.h | 1286 |
| reporting.h | 1287 |
| scenes-client.h | 1288 |
| scenes.h | 1290 |
| simple-metering-client-callback.h | 1291 |
| simple-metering-test.h | 1293 |
| smart-energy-registration.h | 1295 |
| stack-handlers.h | 1296 |
| temperature-measurement.h | 1297 |
| test-harness-cli.h | 1297 |
| test-harness.h | 1298 |
| thermostat.h | 1299 |
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| trust-center-nwk-key-update-broadcast.h | 1303 |
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| trust-center-nwk-key-update-unicast.h | 1304 |
| tunneling-client-callback.h | 1305 |
| tunneling-client.h | 1307 |
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| tunneling-server.h | 1310 |
| zll-commissioning-callback.h | 1311 |
| zll-commissioning.h | 1315 |
| zll-level-control-server.h | 1316 |
| zll-on-off-server-callback.h | 1316 |
| zll-on-off-server.h | 1317 |
| zll-scenes-server.h | 1317 |

Chapter 6

Module Documentation

6.1 Ember Application Framework API Reference

Modules

- [General Application Framework Interface](#)
- [Application Framework Types](#)
- [Application Framework Callback Interface](#)
- [Application Framework Command Buffer Loading Interface](#)
- [Application Framework V2 Enums Reference](#)

6.2 General Application Framework Interface

Defines

- #define CONFIGURATION_HEADER

Attribute Storage

- enum { EMBER_AF_DATA_TYPE_ANALOG, EMBER_AF_DATA_TYPE_DISCRETE, EMBER_AF_DATA_TYPE_NONE }
- EmberAfDefinedEndpoint endpoints []
- EmberAfAttributeMetadata * emberAfLocateAttributeMetadata (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attribute, int8u mask, int16u manufacturerCode)
- boolean emberAfContainsCluster (int8u endpoint, EmberAfClusterId clusterId)
- boolean emberAfContainsServer (int8u endpoint, EmberAfClusterId clusterId)
- boolean emberAfContainsClient (int8u endpoint, EmberAfClusterId clusterId)
- boolean emberAfReadOrUpdateAttribute (EmberAfAttributeSearchRecord *attRecord, EmberAfAttributeMetadata **metadata, int8u *buffer, boolean write)
- EmberAfStatus emberAfWriteAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u mask, int8u *dataPtr, int8u dataType)
- EmberAfStatus emberAfWriteServerAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u *dataPtr, int8u dataType)
- EmberAfStatus emberAfWriteClientAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u *dataPtr, int8u dataType)
- EmberAfStatus emberAfWriteManufacturerSpecificServerAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u *dataPtr, int8u dataType)
- EmberAfStatus emberAfWriteManufacturerSpecificClientAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u *dataPtr, int8u dataType)
- EmberAfStatus emberAfVerifyAttributeWrite (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u mask, int16u manufacturerCode, int8u *buffer, int8u dataType)
- EmberAfStatus emberAfReadAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u mask, int8u *dataPtr, int8u maxLength, int8u *dataType)
- EmberAfStatus emberAfReadServerAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u *dataPtr, int8u maxLength)
- EmberAfStatus emberAfReadClientAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u *dataPtr, int8u maxLength)
- EmberAfStatus emberAfReadManufacturerSpecificServerAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u *dataPtr, int8u maxLength)
- EmberAfStatus emberAfReadManufacturerSpecificClientAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u *dataPtr, int8u maxLength)
- int8u emberAfGetSize (int8u dataType)
- int8u emberAfIndexFromEndpoint (int8u endpoint)
- int8u emberAfEndpointCount (void)
- int8u emberAfGetAttributeAnalogOrDiscreteType (int8u dataType)
- boolean emberAfIsTypeSigned (int8u dataType)
- int32u emberAfGetInt32u (const int8u *message, int16u currentIndex, int16u msgLen)
- int32u emberAfGetInt24u (const int8u *message, int16u currentIndex, int16u msgLen)

- int16u `emberAfGetInt16u` (const int8u *message, int16u currentIndex, int16u msgLen)
- int8u * `emberAfGetString` (int8u *message, int16u currentIndex, int16u msgLen)
- int8u * `emberAfGetLongString` (int8u *message, int16u currentIndex, int16u msgLen)
- void `emberAfCopyInt16u` (int8u *data, int16u index, int16u x)
- void `emberAfCopyInt24u` (int8u *data, int16u index, int32u x)
- void `emberAfCopyInt32u` (int8u *data, int16u index, int32u x)
- void `emberAfCopyString` (int8u *dest, int8u *src, int8u size)
- void `emberAfCopyLongString` (int8u *dest, int8u *src, int16u size)
- int8u `emberAfStringLength` (const int8u *buffer)
- int16u `emberAfLongStringLength` (const int8u *buffer)
- #define `emberAfClusterIsManufacturerSpecific`(cluster)
- #define `emberAfAttributeIsReadOnly`(metadata)
- #define `emberAfAttributeIsClient`(metadata)
- #define `emberAfAttributeIsTokenized`(metadata)
- #define `emberAfAttributeIsSingleton`(metadata)
- #define `emberAfAttributeIsManufacturerSpecific`(metadata)
- #define `emberAfAttributeSize`(metadata)
- #define `emberAfEndpointFromIndex`(index)
- #define `emberAfProfileIdFromIndex`(index)
- #define `emberAfDeviceIdFromIndex`(index)
- #define `emberAfDeviceVersionFromIndex`(index)
- #define `emberAfPrimaryProfileId`()
- #define `emberAfPrimaryEndpoint`()
- #define `emberAfGetInt8u`(message, currentIndex, msgLen)
- #define `emberAfCopyInt8u`(data, index, x)

Device Control

- boolean `emberAfIsDeviceEnabled` (int8u endpoint)
- void `emberAfSetDeviceEnabled` (int8u endpoint, boolean enabled)

Miscellaneous

- PGM `EmberAfOtaImageId` `emberAfInvalidImageId`
- boolean `emberAfIsThisDataTypeAStringType` (int8u dataType)
- int8u `emberAfNextSequence` (void)
- int8s `emberAfCompareValues` (int8u *val1, int8u *val2, int8u len)
- void `emberAfGetEui64` (EmberEUI64 returnEui64)
- EmberNodeId `emberAfGetNodeId` (void)
- EmberPanId `emberAfGetPanId` (void)
- int8u `emberAfGetBindingIndex` (void)
- int8u `emberAfGetAddressIndex` (void)
- #define `EMBER_AF_NEW_IMAGE_VERIFICATION`
- #define `EMBER_AF_CONTINUE_IMAGE_VERIFY`

Printing

- boolean `emberAfPrintEnabled` (int16u functionality)
- void `emberAfPrintBuffer` (int16u area, const int8u *buffer, int16u bufferLen, boolean withSpaces)
- void `emberAfPrintString` (int16u area, const int8u *buffer)
- void `emberAfPrint` (int16u functionality, PGM_P formatString,...)
- void `emberAfPrintln` (int16u functionality, PGM_P formatString,...)
- void `emberAfFlush` (int16u functionality)
- void `emberAfPrintOn` (int16u functionality)
- void `emberAfPrintOff` (int16u functionality)
- void `emberAfPrintAllOn` (void)
- void `emberAfPrintAllOff` (void)
- void `emberAfPrintStatus` (void)
- void `emberAfPrintLittleEndianEui64` (const EmberEUI64 eui64)
- void `emberAfPrintBigEndianEui64` (const EmberEUI64 eui64)
- void `emberAfPrintMessageData` (int8u *data, int16u length)
- #define `emberAfGuaranteedPrint`(...)
- #define `emberAfGuaranteedPrintln`(...)
- #define `emberAfGuaranteedPrintBuffer`(buffer, len, withSpace)
- #define `emberAfGuaranteedPrintString`(buffer)
- #define `emberAfGuaranteedFlush`()

Hibernation

- enum { `EMBER_AF_WAITING_FOR_DATA_ACK`, `EMBER_AF_LAST_POLL_GOT_DATA`, `EMBER_AF_WAITING_FOR_SERVICE_DISCOVERY`, `EMBER_AF_WAITING_FOR_ZDO_RESPONSE`, `EMBER_AF_WAITING_FOR_ZCL_RESPONSE`, `EMBER_AF_WAITING_FOR_REGISTRATION`, `EMBER_AF_WAITING_FOR_PARTNER_LINK_KEY_EXCHANGE` }
- int32u `emberAfHibernateDuration`
- int32u `emberAfNapDuration`
- int32u `emAfCurrentAppTasks`
- `EmberAfEventSleepControl emAfDefaultSleepControl`
- void `emberAfAddToCurrentAppTasks` (int32u mask)
- void `emberAfRemoveFromCurrentAppTasks` (int32u mask)
- boolean `emberAfOkToHibernate` (void)
- void `emberAfRunEvents` (void)
- boolean `emberAfStartMove` (void)
- EmberStatus `emberAfScheduleClusterTick` (int8u endpoint, int16u clusterId, boolean isClient, int32u timeMs, `EmberAfEventSleepControl` sleepControl)
- EmberStatus `emberAfDeactivateClusterTick` (int8u endpoint, int16u clusterId, boolean isClient)
- EmberStatus `emberAfEventControlSetDelay` (`EmberEventControl` *eventControl, int32u timeMs)
- int32u `emberAfMsToNextEvent` (int32u maxMs)
- `EmberAfEventSleepControl emberAfGetCurrentSleepControl` (void)
- void `emberAfSetDefaultSleepControl` (`EmberAfEventSleepControl` control)
- #define `MILLISECOND_TICKS_PER_QUARTERSECOND`
- #define `MILLISECOND_TICKS_PER_MINUTE`
- #define `MILLISECOND_TICKS_PER_HOUR`
- #define `EMBER_AF_SET_HIBERNATE_DURATION`(newValue)
- #define `EMBER_AF_SET_NAP_DURATION`(newValue)
- #define `EMBER_AF_WAKE_TIMEOUT`

- #define EMBER_AF_WAKE_TIMEOUT_MASK
- #define emberAfOkToNap()
- #define emberAfCurrentAppTasks()
- #define EMBER_AF_CLIENT_CLUSTER_TICK
- #define EMBER_AF_SERVER_CLUSTER_TICK
- #define emberAfQSToNextEvent(maxQS)
- #define emberAfGetDefaultSleepControl()

Time

- int32u `emberAfGetCurrentTime` (void)
- void `emberAfSetTime` (int32u utcTime)
- void `emberAfPrintTime` (int32u utcTime)

Messaging

- boolean `emberAfResponseWaitingFlag`
- `EmberAfClusterCommand` * `emAfCurrentCommand`
- EmberStatus `emberAfSendResponse` (void)
- EmberStatus `emberAfSendRequest` (void)
- EmberStatus `emberAfSendMulticast` (EmberMulticastId multicastId, EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendBroadcast` (EmberNodeId destination, EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendUnicast` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendUnicastToBindings` (EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendInterPan` (EmberPanId panId, const EmberEUI64 destinationLongId, - EmberNodeId destinationShortId, EmberMulticastId multicastId, `EmberAfClusterId` clusterId, `EmberAfProfileId` profileId, int16u messageLength, int8u *messageBytes)
- EmberStatus `emberAfSendEndDeviceBind` (int8u endpoint)
- EmberStatus `emberAfSendCommandUnicastToBindings` (void)
- EmberStatus `emberAfSendCommandMulticast` (EmberMulticastId multicastId)
- EmberStatus `emberAfSendCommandUnicast` (EmberOutgoingMessageType type, int16u indexOrDestination)
- EmberStatus `emberAfSendCommandBroadcast` (EmberNodeId destination)
- EmberStatus `emberAfSendCommandInterPan` (EmberPanId panId, const EmberEUI64 destinationLongId, EmberNodeId destinationShortId, EmberMulticastId multicastId, `EmberAfProfileId` profileId)
- EmberStatus `emberAfSendDefaultResponse` (const `EmberAfClusterCommand` *cmd, `EmberAfStatus` status)
- int8u `emberAfMaximumApsPayloadLength` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame)
- EmberApsFrame * `emberAfGetCommandApsFrame` (void)
- EmberStatus `emberAfFindDevicesSupportingCluster` (EmberNodeId target, `EmberAfClusterId` clusterId, boolean serverCluster, `EmberAfServiceDiscoveryCallback` *callback)
- EmberStatus `emberAfFindDevicesByProfileAndCluster` (EmberNodeId target, `EmberAfProfileId` profileId, `EmberAfClusterId` clusterId, boolean serverCluster, `EmberAfServiceDiscoveryCallback` *callback)

- EmberStatus `emberAfFindIeeeAddress` (EmberNodeId shortAddress, `EmberAfServiceDiscoveryCallback` *callback)
- EmberStatus `emberAfFindNodeId` (EmberEUI64 longAddress, `EmberAfServiceDiscoveryCallback` *callback)
- int8u `emberAfAddAddressTableEntry` (EmberEUI64 longId, EmberNodeId shortId)
- EmberStatus `emberAfSetAddressTableEntry` (int8u index, EmberEUI64 longId, EmberNodeId shortId)
- EmberStatus `emberAfRemoveAddressTableEntry` (int8u index)
- EmberStatus `emberAfInitiateKeyEstablishment` (EmberNodeId nodeId, int8u endpoint)
- EmberStatus `emberAfInitiateInterPanKeyEstablishment` (EmberPanId panId, const EmberEUI64 eui64)
- boolean `emberAfPerformingKeyEstablishment` (void)
- EmberStatus `emberAfInitiatePartnerLinkKeyExchange` (EmberNodeId target, int8u endpoint, `EmberAfPartnerLinkKeyExchangeCallback` *callback)
- #define `emberAfSetResponseWaiting()`
- #define `emberAfSendInterpanUnicast`(destinationShortAddress,destinationPanId,destinationAppProfileId,destinationClusterId,multicastIdOrZero,longAddressOrNull,messageLength,messageBytes)
- #define `emberAfSendCommandInterpanUnicast`(eui64,nodeId,panId,multicastId, profileId)
- #define `EMBER_AF_CLIENT_CLUSTER_DISCOVERY`
- #define `EMBER_AF_SERVER_CLUSTER_DISCOVERY`
- #define `emberAfCurrentCommand()`
- #define `emberAfCurrentEndpoint()`

ZCL macros

- #define `ZCL_FRAME_CONTROL_FRAME_TYPE_MASK`
- #define `ZCL_CLUSTER_SPECIFIC_COMMAND`
- #define `ZCL_PROFILE_WIDE_COMMAND`
- #define `ZCL_MANUFACTURER_SPECIFIC_MASK`
- #define `ZCL_FRAME_CONTROL_DIRECTION_MASK`
- #define `ZCL_FRAME_CONTROL_SERVER_TO_CLIENT`
- #define `ZCL_FRAME_CONTROL_CLIENT_TO_SERVER`
- #define `ZCL_DISABLE_DEFAULT_RESPONSE_MASK`
- #define `EMBER_AF_ZCL_OVERHEAD`
- #define `EMBER_AF_ZCL_MANUFACTURER_SPECIFIC_OVERHEAD`

Stack handler utility functions

- void `emberAfPollCompleteHandler` (EmberStatus status)
- void `emberAfEzspPollCompleteHandler` (EmberStatus status)

Network utility functions

- EmberStatus `emberAfFormNetwork` (EmberNetworkParameters *parameters)
- EmberStatus `emberAfJoinNetwork` (EmberNetworkParameters *parameters)
- EmberStatus `emberAfFindUnusedPanIdAndForm` (void)
- EmberStatus `emberAfStartSearchForJoinableNetwork` (void)

6.2.1 Detailed Description

This documentation describes the application programming interface (API) for the Ember Application - Framework V2. The file [af.h](#) is the master include file for the Application Framework V2 modules.

6.2.2 Define Documentation

6.2.2.1 #define CONFIGURATION_HEADER

Definition at line [24](#) of file [af.h](#).

6.2.2.2 #define emberAfClusterIsManufacturerSpecific(*cluster*)

macro that returns true if the cluster is in the manufacturer specific range

Parameters

| | |
|----------------|-----------------------------|
| <i>cluster</i> | EmberAfCluster* to consider |
|----------------|-----------------------------|

Definition at line [377](#) of file [af.h](#).

6.2.2.3 #define emberAfAttributeIsReadOnly(*metadata*)

macro that returns true if attribute is read only.

Parameters

| | |
|-----------------|--|
| <i>metadata</i> | EmberAfAttributeMetadata* to consider. |
|-----------------|--|

Definition at line [385](#) of file [af.h](#).

6.2.2.4 #define emberAfAttributeIsClient(*metadata*)

macro that returns true if this is a client attribute, and false if it is server

Parameters

| | |
|-----------------|--|
| <i>metadata</i> | EmberAfAttributeMetadata* to consider. |
|-----------------|--|

Definition at line [392](#) of file [af.h](#).

6.2.2.5 #define emberAfAttributeIsTokenized(*metadata*)

macro that returns true if attribute is saved to token.

Parameters

| | |
|-----------------|--|
| <i>metadata</i> | EmberAfAttributeMetadata* to consider. |
|-----------------|--|

Definition at line [399](#) of file [af.h](#).

6.2.2.6 #define emberAfAttributeIsSingleton(*metadata*)

macro that returns true if attribute is a singleton

Parameters

| | |
|-----------------|--|
| <i>metadata</i> | EmberAfAttributeMetadata* to consider. |
|-----------------|--|

Definition at line 406 of file [af.h](#).

6.2.2.7 #define emberAfAttributeIsManufacturerSpecific(*metadata*)

macro that returns true if attribute is manufacturer specific

Parameters

| | |
|-----------------|--|
| <i>metadata</i> | EmberAfAttributeMetadata* to consider. |
|-----------------|--|

Definition at line 413 of file [af.h](#).

6.2.2.8 #define emberAfAttributeSize(*metadata*)

macro that returns size of attribute in bytes.

Parameters

| | |
|-----------------|--|
| <i>metadata</i> | EmberAfAttributeMetadata* to consider. |
|-----------------|--|

Definition at line 421 of file [af.h](#).

6.2.2.9 #define emberAfEndpointFromIndex(*index*)

Macro that takes index of endpoint, and returns Zigbee endpoint.

Definition at line 429 of file [af.h](#).

6.2.2.10 #define emberAfProfileIdFromIndex(*index*)

Macro that takes index of endpoint, and returns profile Id for it.

Definition at line 439 of file [af.h](#).

6.2.2.11 #define emberAfDeviceIdFromIndex(*index*)

Macro that takes index of endpoint, and returns device Id for it.

Definition at line 444 of file [af.h](#).

6.2.2.12 #define emberAfDeviceVersionFromIndex(*index*)

Macro that takes index of endpoint, and returns device version for it.

Definition at line [449](#) of file [af.h](#).

6.2.2.13 #define emberAfPrimaryProfileId()

Macro that returns primary profile ID.

Primary profile is the profile of a primary endpoint as defined in the appbuilder.

Definition at line [457](#) of file [af.h](#).

6.2.2.14 #define emberAfPrimaryEndpoint()

Macro that returns the primary endpoint.

Definition at line [462](#) of file [af.h](#).

6.2.2.15 #define emberAfGetInt8u(message, currentIndex, msgLen)

Macro for consistency, that extracts single byte out of the message.

Definition at line [515](#) of file [af.h](#).

6.2.2.16 #define emberAfCopyInt8u(data, index, x)

Macro for consistency that copies an int8u from variable into buffer.

Definition at line [520](#) of file [af.h](#).

6.2.2.17 #define EMBER_AF_NEW_IMAGE_VERIFICATION

This indicates a new image verification is taking place.

Definition at line [588](#) of file [af.h](#).

6.2.2.18 #define EMBER_AF_CONTINUE_IMAGE_VERIFY

This indicates the continuation of an image verification already in progress.

Definition at line [594](#) of file [af.h](#).

6.2.2.19 #define emberAfGuaranteedPrint(...)

Print that can't be turned off.

Definition at line [673](#) of file [af.h](#).

6.2.2.20 #define emberAfGuaranteedPrintln(...)

Println that can't be turned off.

Definition at line [678](#) of file [af.h](#).

6.2.2.21 #define emberAfGuaranteedPrintBuffer(*buffer*, *len*, *withSpace*)

Buffer print that can't be turned off.

Definition at line [683](#) of file [af.h](#).

6.2.2.22 #define emberAfGuaranteedPrintString(*buffer*)

String print that can't be turned off.

Definition at line [688](#) of file [af.h](#).

6.2.2.23 #define emberAfGuaranteedFlush()

Buffer flush for [emberAfGuaranteedPrint\(\)](#), [emberAfGuaranteedPrintln\(\)](#), [emberAfGuaranteedPrintBuffer\(\)](#), and [emberAfGuaranteedPrintString\(\)](#).

Definition at line [694](#) of file [af.h](#).

6.2.2.24 #define MILLISECOND_TICKS_PER_QUARTERSECOND

Macro for setting hibernate duration at run time.

Definition at line [779](#) of file [af.h](#).

6.2.2.25 #define MILLISECOND_TICKS_PER_MINUTE

Macro for setting hibernate duration at run time.

Definition at line [780](#) of file [af.h](#).

6.2.2.26 #define MILLISECOND_TICKS_PER_HOUR

Macro for setting hibernate duration at run time.

Definition at line [781](#) of file [af.h](#).

6.2.2.27 #define EMBER_AF_SET_HIBERNATE_DURATION(*newValue*)

Macro for setting hibernate duration at run time.

Definition at line [790](#) of file [af.h](#).

6.2.2.28 #define EMBER_AF_SET_NAP_DURATION(*newValue*)

Macro for setting nap duration at run time.

Definition at line [797](#) of file [af.h](#).

6.2.2.29 #define EMBER_AF_WAKE_TIMEOUT

The amount of time in quarter seconds that a task which has an optional response can keep the device awake for. Currently defaults to 3 seconds.

Definition at line [844](#) of file [af.h](#).

6.2.2.30 #define EMBER_AF_WAKE_TIMEOUT_MASK

A mask of all app tasks that currently can be governed by a timeout. Any task which does not necessarily have a deterministic response which can trigger an end to the wake cycle must be included in this mask so that it can be timed out.

Definition at line [855](#) of file [af.h](#).

6.2.2.31 #define emberAfOkToNap()

A macro used to check if it is ok for the application to nap. It is not ok for the application to nap if any processes are going on that require the device to stay awake. This macro only checks that current active events are not holding the device out of nap.

Definition at line [894](#) of file [af.h](#).

6.2.2.32 #define emberAfCurrentAppTasks()

A macro used to retrieve the bitmask of all application framework tasks currently in progress. This can be useful for debugging if some task is holding the device out of hibernation.

Definition at line [904](#) of file [af.h](#).

6.2.2.33 #define EMBER_AF_CLIENT_CLUSTER_TICK

Friendly define for use in the scheduling or canceling client events with [emberAfScheduleClusterTick\(\)](#) and [emberAfDeactivateClusterTick\(\)](#).

Definition at line [933](#) of file [af.h](#).

6.2.2.34 #define EMBER_AF_SERVER_CLUSTER_TICK

Friendly define for use in the scheduling or canceling server events with [emberAfScheduleClusterTick\(\)](#) and [emberAfDeactivateClusterTick\(\)](#).

Definition at line [939](#) of file [af.h](#).

6.2.2.35 #define emberAfQSToNextEvent(maxQS)

A function used to retrieve the number of quarter seconds until the next event scheduled in the application framework's event mechanism. This function will round down and will return 0 if the next event must fire within a quarter second.

Parameters

| | |
|-------------------|---|
| <i>maxQS, the</i> | maximum number of quarter seconds until the next event. |
|-------------------|---|

Returns

The number of quarter seconds until the next event or maxQS if no event is scheduled before then.

Definition at line 1041 of file af.h.

6.2.2.36 #define emberAfGetDefaultSleepControl()

Macro for setting hibernate duration at run time.

Definition at line 1081 of file af.h.

6.2.2.37 #define emberAfSetResponseWaiting()

DEPRECATED: Use emberAfSendResponse to send the response immediately or any of the emberAfSend or emberAfSendCommand functions to send delayed responses.

Definition at line 1156 of file af.h.

6.2.2.38 #define emberAfSendInterpanUnicast(destinationShortAddress, destinationPanId, destinationAppProfileId, destinationClusterId, multicastIdOrZero, longAddressOrNull, messageLength, messageBytes)

DEPRECATED: Use emberAfSendResponse to send the response immediately or any of the emberAfSend or emberAfSendCommand functions to send delayed responses.

Definition at line 1236 of file af.h.

6.2.2.39 #define emberAfSendCommandInterpanUnicast(eui64, nodeId, panId, multicastId, profileId)

DEPRECATED: Use emberAfSendResponse to send the response immediately or any of the emberAfSend or emberAfSendCommand functions to send delayed responses.

Definition at line 1314 of file af.h.

6.2.2.40 #define EMBER_AF_CLIENT_CLUSTER_DISCOVERY

Friendly define for use in discovering client clusters with [emberAfFindDevicesSupportingCluster\(\)](#) or [emberAfFindDevicesByProfileAndCluster\(\)](#).

Definition at line 1369 of file af.h.

6.2.2.41 #define EMBER_AF_SERVER_CLUSTER_DISCOVERY

Friendly define for use in discovering server clusters with [emberAfFindDevicesSupportingCluster\(\)](#) or [emberAfFindDevicesByProfileAndCluster\(\)](#).

Definition at line 1376 of file af.h.

6.2.2.42 #define emberAfCurrentCommand()

Use this macro to retrieve the current command. This macro may only be used within the command parsing context. For instance Any of the command handling callbacks may use this macro. If this macro is used outside the command context, the returned [EmberAfClusterCommand](#) pointer will be null.

Definition at line [1539](#) of file [af.h](#).

6.2.2.43 #define emberAfCurrentEndpoint()

returns the current endpoint that is being served.

The purpose of this macro is mostly to access endpoint that is being served in the command callbacks.

Definition at line [1548](#) of file [af.h](#).

6.2.2.44 #define ZCL_FRAME_CONTROL_FRAME_TYPE_MASK

Definition at line [1610](#) of file [af.h](#).

6.2.2.45 #define ZCL_CLUSTER_SPECIFIC_COMMAND

Definition at line [1611](#) of file [af.h](#).

6.2.2.46 #define ZCL_PROFILE_WIDE_COMMAND

Definition at line [1612](#) of file [af.h](#).

6.2.2.47 #define ZCL_MANUFACTURER_SPECIFIC_MASK

Definition at line [1614](#) of file [af.h](#).

6.2.2.48 #define ZCL_FRAME_CONTROL_DIRECTION_MASK

Definition at line [1616](#) of file [af.h](#).

6.2.2.49 #define ZCL_FRAME_CONTROL_SERVER_TO_CLIENT

Definition at line [1617](#) of file [af.h](#).

6.2.2.50 #define ZCL_FRAME_CONTROL_CLIENT_TO_SERVER

Definition at line [1618](#) of file [af.h](#).

6.2.2.51 #define ZCL_DISABLE_DEFAULT_RESPONSE_MASK

Definition at line [1620](#) of file [af.h](#).

6.2.2.52 #define EMBER_AF_ZCL_OVERHEAD

Definition at line [1627](#) of file `af.h`.

6.2.2.53 #define EMBER_AF_ZCL_MANUFACTURER_SPECIFIC_OVERHEAD

Definition at line [1628](#) of file `af.h`.

6.2.3 Enumeration Type Documentation

6.2.3.1 anonymous enum

Data types are either analog or discrete. This makes a difference for some of the ZCL global commands

Enumerator:

- `EMBER_AF_DATA_TYPE_ANALOG`
- `EMBER_AF_DATA_TYPE_DISCRETE`
- `EMBER_AF_DATA_TYPE_NONE`

Definition at line [474](#) of file `af.h`.

6.2.3.2 anonymous enum

An enum used to track the tasks that the Application framework cares about. These are intended to be tasks that should keep the device out of hibernation like an application level request / response. If the response does not come in as a data ack, then the application will need to stay out of hibernation to wait and poll for it.

Of course some tasks do not necessarily have a response. For instance, a ZDO request may or may not have a response. In this case, the application framework cannot rely on the fact that a response will come in to end the wake cycle, so the Application framework must timeout the wake cycle if no expected response is received or no other event can be relied upon to end the wake cycle.

Tasks of this type should be added to the `EMBER_AF_WAKE_TIMEOUT_MASK` so that they can be governed by a timeout instead of a request / response

the register `emAfCurrentAppTasks` is an `int32u` bitmask used to track which tasks are active at any given time. The bottom 16 bits, values `0x01 - 0x8000` are reserved for Ember's use. The top 16 bits are reserved for the customer, values `0x8000 - 0x80000000`

Enumerator:

- `EMBER_AF_WAITING_FOR_DATA_ACK`
- `EMBER_AF_LAST_POLL_GOT_DATA`
- `EMBER_AF_WAITING_FOR_SERVICE_DISCOVERY`
- `EMBER_AF_WAITING_FOR_ZDO_RESPONSE`
- `EMBER_AF_WAITING_FOR_ZCL_RESPONSE`
- `EMBER_AF_WAITING_FOR_REGISTRATION`
- `EMBER_AF_WAITING_FOR_PARTNER_LINK_KEY_EXCHANGE`

Definition at line [826](#) of file `af.h`.

6.2.4 Function Documentation

6.2.4.1 EmberAfAttributeMetadata* emberAfLocateAttributeMetadata (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attribute*, int8u *mask*, int16u *manufacturerCode*)

locate attribute metadata

Function returns pointer to the attribute metadata structure, or NULL if attribute was not found.

Parameters

| | |
|------------------|--|
| <i>endpoint</i> | Zigbee endpoint number. |
| <i>cluster</i> | Cluster ID of the sought cluster. |
| <i>attribute</i> | Attribute ID of the sought attribute. |
| <i>mask</i> | CLUSTER_MASK_SERVER or CLUSTER_MASK_CLIENT |

Returns

Returns pointer to the attribute metadata location.

6.2.4.2 boolean emberAfContainsCluster (int8u *endpoint*, EmberAfClusterId *clusterId*)

Returns TRUE If endpoint contains cluster.

This function returns true regardless of whether the endpoint contains server, client or both.

6.2.4.3 boolean emberAfContainsServer (int8u *endpoint*, EmberAfClusterId *clusterId*)

Returns TRUE If endpoint contains cluster server.

This function returns true if the endpoint contains server of a given cluster.

6.2.4.4 boolean emberAfContainsClient (int8u *endpoint*, EmberAfClusterId *clusterId*)

Returns TRUE If endpoint contains cluster client.

This function returns true if the endpoint contains client of a given cluster.

6.2.4.5 boolean emberAfReadOrUpdateAttribute (EmberAfAttributeSearchRecord * *attRecord*, EmberAfAttributeMetadata ** *metadata*, int8u * *buffer*, boolean *write*)

Main function for manipulating attributes.

This function locates the attribute and returns true upon success and false if attribute was not found. if metadata is non-NULL, then it is populated. if buffer is non-NULL, then it is populated with attribute data.

Note, that this function DOES NOT perform any read-only or type checking. This is just a low-level interface to the attribute table, and it is up to the caller to ensure permissions and type checking.

Use other attribute functions for higher-level access to attribute table.

Parameters

| | |
|-------------------|---|
| <i>*attRecord</i> | Pointer to an instance of EmberAfAttributeSearchRecord which contains everything needed to find the unique attribute requested in memory. |
| <i>metadata</i> | Location where the attribute metadata pointer will be copied into. It can be NULL, in which case metadata pointer is not retrieved. |
| <i>buffer</i> | Location where attribute will be written into or read from, depending if this is read or write operation. If it is NULL, then it will not be used, and data can't be read or written. |
| <i>write</i> | If it is TRUE, then this is write operation, otherwise it is a read operation. |

Returns

TRUE if operation was successful, FALSE otherwise.

6.2.4.6 EmberAfStatus emberAfWriteAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int8u *mask*, int8u * *dataPtr*, int8u *dataType*)

write an attribute, performing all the checks.

This function will attempt to write the attribute value from the provided pointer. This function will only check that the attribute exists. If it does it will write the value into the attribute table for the given attribute.

This function will not check to see if the attribute is writable since the read only / writable characteristic of an attribute only pertains to external devices writing over the air. Because this function is being called locally it assumes that the device knows what it is doing and has permission to perform the given operation.

See also

[emberAfWriteClientAttribute](#), [emberAfWriteServerAttribute](#), [emberAfWriteManufacturerSpecificClientAttribute](#), [emberAfWriteManufacturerSpecificServerAttribute](#)

6.2.4.7 EmberAfStatus emberAfWriteServerAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int8u * *dataPtr*, int8u *dataType*)

write a cluster server attribute.

This function is the same as `emberAfWriteAttribute` except that it saves having to pass the cluster mask. This is useful for code savings since write attribute is used frequently throughout the framework.

See also

[emberAfWriteClientAttribute](#), [emberAfWriteManufacturerSpecificClientAttribute](#), [emberAfWriteManufacturerSpecificServerAttribute](#)

6.2.4.8 EmberAfStatus emberAfWriteClientAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int8u * *dataPtr*, int8u *dataType*)

write a cluster client attribute.

This function is the same as `emberAfWriteAttribute` except that it saves having to pass the cluster mask. This is useful for code savings since write attribute is used frequently throughout the framework.

See also

[emberAfWriteServerAttribute](#), [emberAfWriteManufacturerSpecificClientAttribute](#), [emberAfWriteManufacturerSpecificServerAttribute](#)

6.2.4.9 EmberAfStatus emberAfWriteManufacturerSpecificServerAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u * dataPtr, int8u dataType)

write an manufacturer specific server attribute.

This function is the same as `emberAfWriteAttribute` except that it saves having to pass the cluster mask. this is useful for code savings since write attribute is used frequently throughout the framework

See also

[emberAfWriteClientAttribute](#), [emberAfWriteServerAttribute](#), [emberAfWriteManufacturerSpecificClientAttribute](#)

6.2.4.10 EmberAfStatus emberAfWriteManufacturerSpecificClientAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u * dataPtr, int8u dataType)

write an manufacturer specific client attribute.

This function is the same as `emberAfWriteAttribute` except that it saves having to pass the cluster mask. this is useful for code savings since write attribute is used frequently throughout the framework

See also

[emberAfWriteClientAttribute](#), [emberAfWriteServerAttribute](#), [emberAfWriteManufacturerSpecificServerAttribute](#)

6.2.4.11 EmberAfStatus emberAfVerifyAttributeWrite (int8u endpoint, EmberAfClusterId cluster, EmberAfAttributeId attributeID, int8u mask, int16u manufacturerCode, int8u * buffer, int8u dataType)

Function that test the success of attribute write.

This function returns success if attribute write would be succesfull. It does not actuall write anything, just validates for read-only and data-type.

Parameters

| | |
|------------------|--|
| <i>endpoint</i> | Zigbee endpoint number |
| <i>cluster</i> | Cluster ID of the sought cluster. |
| <i>attribute</i> | Attribute ID of the sought attribute. |
| <i>mask</i> | CLUSTER_MASK_SERVER or CLUSTER_MASK_CLIENT |
| <i>buffer</i> | Location where attribute will be written from. |
| <i>dataType</i> | ZCL attribute type. |

6.2.4.12 EmberAfStatus emberAfReadAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int8u * *mask*, int8u * *dataPtr*, int8u *maxLength*, int8u * *dataType*)

Read the attribute value, performing all the checks.

This function will attempt to read the attribute and store it into the pointer. It will also read the data type. Both dataPtr and dataType may be NULL, signifying that either value or type is not desired.

See also

[emberAfReadClientAttribute](#), [emberAfReadServerAttribute](#), [emberAfReadManufacturerSpecificClientAttribute](#), [emberAfReadManufacturerSpecificServerAttribute](#)

6.2.4.13 EmberAfStatus emberAfReadServerAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int8u * *dataPtr*, int8u *maxLength*)

Read the server attribute value, performing all the checks.

This function will attempt to read the attribute and store it into the pointer. It will also read the data type. Both dataPtr and dataType may be NULL, signifying that either value or type is not desired.

See also

[emberAfReadClientAttribute](#), [emberAfReadManufacturerSpecificClientAttribute](#), [emberAfReadManufacturerSpecificServerAttribute](#)

6.2.4.14 EmberAfStatus emberAfReadClientAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int8u * *dataPtr*, int8u *maxLength*)

Read the attribute value, performing all the checks.

This function will attempt to read the attribute and store it into the pointer. It will also read the data type. Both dataPtr and dataType may be NULL, signifying that either value or type is not desired.

See also

[emberAfReadServerAttribute](#), [emberAfReadManufacturerSpecificClientAttribute](#), [emberAfReadManufacturerSpecificServerAttribute](#)

6.2.4.15 EmberAfStatus emberAfReadManufacturerSpecificServerAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int16u *manufacturerCode*, int8u * *dataPtr*, int8u *maxLength*)

Read the server attribute value, performing all the checks.

This function will attempt to read the attribute and store it into the pointer. It will also read the data type. Both dataPtr and dataType may be NULL, signifying that either value or type is not desired.

See also

[emberAfReadClientAttribute](#), [emberAfReadServerAttribute](#), [emberAfReadManufacturerSpecificClientAttribute](#)

6.2.4.16 EmberAfStatus emberAfReadManufacturerSpecificClientAttribute (int8u *endpoint*, EmberAfClusterId *cluster*, EmberAfAttributeId *attributeID*, int16u *manufacturerCode*, int8u * *dataPtr*, int8u *maxLength*)

Read the attribute value, performing all the checks.

This function will attempt to read the attribute and store it into the pointer. It will also read the data type. Both dataPtr and dataType may be NULL, signifying that either value or type is not desired.

See also

[emberAfReadClientAttribute](#), [emberAfReadServerAttribute](#), [emberAfReadManufacturerSpecificServer-Attribute](#)

6.2.4.17 int8u emberAfGetDataSize (int8u *dataType*)

this function returns the size of the ZCL data in bytes.

Parameters

| | |
|-----------------|---------------|
| <i>dataType</i> | Zcl data type |
|-----------------|---------------|

Returns

size in bytes or 0 if invalid data type

6.2.4.18 int8u emberAfIndexFromEndpoint (int8u *endpoint*)

Returns the index of a given endpoint

6.2.4.19 int8u emberAfEndpointCount (void)

Returns the number of endpoints.

6.2.4.20 int8u emberAfGetAttributeAnalogOrDiscreteType (int8u *dataType*)

Returns the type of the attribute, either ANALOG, DISCRETE or NONE.

6.2.4.21 boolean emberAfIsTypeSigned (int8u *dataType*)

Returns true if type is signed, false otherwise.

6.2.4.22 int32u emberAfGetInt32u (const int8u * *message*, int16u *currentIndex*, int16u *msgLen*)

Function that extracts a 32-bit integer from the message buffer.

6.2.4.23 int32u emberAfGetInt24u (const int8u * *message*, int16u *currentIndex*, int16u *msgLen*)

Function that extracts a 24-bit integer from the message buffer.

6.2.4.24 int16u emberAfGetInt16u (const int8u * *message*, int16u *currentIndex*, int16u *msgLen*)

Function that extracts a 16-bit integer from the message buffer.

6.2.4.25 int8u* emberAfGetString (int8u * *message*, int16u *currentIndex*, int16u *msgLen*)

Function that extracts a ZCL string from the message buffer.

6.2.4.26 int8u* emberAfGetLongString (int8u * *message*, int16u *currentIndex*, int16u *msgLen*)

Function that extracts a ZCL long string from the message buffer.

6.2.4.27 void emberAfCopyInt16u (int8u * *data*, int16u *index*, int16u *x*)

function that copies an in16u value into a buffer

6.2.4.28 void emberAfCopyInt24u (int8u * *data*, int16u *index*, int32u *x*)

function that copies an in24u value into a buffer

6.2.4.29 void emberAfCopyInt32u (int8u * *data*, int16u *index*, int32u *x*)

function that copies an in32u value into a buffer

6.2.4.30 void emberAfCopyString (int8u * *dest*, int8u * *src*, int8u *size*)

macro that returns true if the cluster is in the manufacturer specific range

Parameters

| | |
|----------------|-----------------------------|
| <i>cluster</i> | EmberAfCluster* to consider |
|----------------|-----------------------------|

6.2.4.31 void emberAfCopyLongString (int8u * *dest*, int8u * *src*, int16u *size*)

macro that returns true if the cluster is in the manufacturer specific range

Parameters

| | |
|----------------|-----------------------------|
| <i>cluster</i> | EmberAfCluster* to consider |
|----------------|-----------------------------|

6.2.4.32 int8u emberAfStringLength (const int8u * *buffer*)

macro that returns true if the cluster is in the manufacturer specific range

Parameters

| | |
|----------------|-----------------------------|
| <i>cluster</i> | EmberAfCluster* to consider |
|----------------|-----------------------------|

6.2.4.33 int16u emberAfLongStringLength (const int8u * *buffer*)

macro that returns true if the cluster is in the manufacturer specific range

Parameters

| | |
|----------------|-----------------------------|
| <i>cluster</i> | EmberAfCluster* to consider |
|----------------|-----------------------------|

6.2.4.34 boolean emberAfIsDeviceEnabled (int8u *endpoint*)

Function that checks if endpoint is enabled.

This function returns true if device at a given endpoint is enabled. At startup all endpoints are enabled.

Parameters

| | |
|-----------------|------------------------|
| <i>endpoint</i> | Zigbee endpoint number |
|-----------------|------------------------|

6.2.4.35 void emberAfSetDeviceEnabled (int8u *endpoint*, boolean *enabled*)

Function that enables or disables an endpoint.

By calling this function, you turn off all processing of incoming traffic for a given endpoint.

Parameters

| | |
|-----------------|------------------------|
| <i>endpoint</i> | Zigbee endpoint number |
|-----------------|------------------------|

6.2.4.36 boolean emberAfIsThisDataTypeAStringType (int8u *dataType*)

Returns true if a given ZCL data type is a string type.

You should use this function if you need to perform a different memory operation on a certain attribute because it is a string type. Since ZCL strings carry length as the first byte, it is often required to treat them differently than regular data types.

Returns

true if data type is a string.

6.2.4.37 int8u emberAfNextSequence (void)

Returns a next sequence number for the outgoing ZCL message.

Whenever sending ZCL messages you need a sequence. This function gives one.

Returns

Next usable sequence number.

6.2.4.38 int8s emberAfCompareValues (int8u * val1, int8u * val2, int8u len)

Simple integer comparison function. Compares two values of a known length as integers. The integers are in native endianess.

Returns

-1 if val1 is smaller, 0 if they are the same or 1 if val2 is smaller.

6.2.4.39 void emberAfGetEui64 (EmberEUI64 returnEui64)

populates the eui64 with the local eui64.

6.2.4.40 EmberNodeId emberAfGetNodeId (void)

Returns the node ID of the local node.

6.2.4.41 EmberPanId emberAfGetPanId (void)

Returns the PAN ID of the local node.

6.2.4.42 int8u emberAfGetBindingIndex (void)

This indicates a new image verification is taking place.

6.2.4.43 int8u emberAfGetAddressIndex (void)

This indicates a new image verification is taking place.

6.2.4.44 boolean emberAfPrintEnabled (int16u functionality)

returns true if certain debug area is enabled.

6.2.4.45 void emberAfPrintBuffer (int16u area, const int8u * buffer, int16u bufferLen, boolean withSpaces)

Useful function to print a buffer.

6.2.4.46 void emberAfPrintString (int16u area, const int8u * buffer)

Useful function to print characters strings. The first byte of the buffer specifies the length of the string.

6.2.4.47 void emberAfPrint (int16u functionality, PGM_P formatString, ...)

prints the specified text if certain debug are is enabled

Parameters

| | |
|------------------------|---|
| <i>functionality.:</i> | one of the EMBER_AF_PRINT_xxx macros as defined by appbuilder |
| <i>formatString.:</i> | formatString for varargs |

6.2.4.48 void emberAfPrintln (int16u *functionality*, PGM_P *formatString*, ...)

prints the specified text if certain debug are is enabled. Print-out will include the newline character at the end.

Parameters

| | |
|------------------------|---|
| <i>functionality.:</i> | one of the EMBER_AF_PRINT_xxx macros as defined by appbuilder |
| <i>formatString.:</i> | formatString for varargs |

6.2.4.49 void emberAfFlush (int16u *functionality*)

buffer flush

6.2.4.50 void emberAfPrintOn (int16u *functionality*)

turns on debugging for certain functional area

6.2.4.51 void emberAfPrintOff (int16u *functionality*)

turns off debugging for certain functional area

6.2.4.52 void emberAfPrintAllOn (void)

turns on debugging for all functional areas

6.2.4.53 void emberAfPrintAllOff (void)

turns off debugging for all functional areas

6.2.4.54 void emberAfPrintStatus (void)

prints current status of functional areas

6.2.4.55 void emberAfPrintLittleEndianEui64 (const EmberEUI64 *eui64*)

prints eui64 stored in little endian format

6.2.4.56 void emberAfPrintBigEndianEui64 (const EmberEUI64 *eui64*)

prints eui64 stored in big endian format

6.2.4.57 void emberAfPrintMessageData (int8u * *data*, int16u *length*)

prints all message data in message format

6.2.4.58 void emberAfAddToCurrentAppTasks (int32u *mask*)

A function used to add a task to the task register.

6.2.4.59 void emberAfRemoveFromCurrentAppTasks (int32u *mask*)

A function used to remove a task from the task register.

6.2.4.60 boolean emberAfOkToHibernate (void)

A function used to check if it is ok to hibernate. It is not ok to hibernate if any app tasks are currently in progress, so this macro just checks that there are no current app tasks registered. If a task is in progress but has timedout it will be removed before a determination concerning hibernation is made. This function also checks the current active events to see if any are holding the device out of hibernation.

6.2.4.61 void emberAfRunEvents (void)

a function used to run the application framework's event mechanism. This function passes the application framework's event tables to the ember stack's event processing code.

6.2.4.62 boolean emberAfStartMove (void)

This function schedules an event to call emberFindAndRejoinNetwork. the first call to emberFindAndRejoinNetwork will happen on the current channel with security enabled. After that, the event will be rescheduled every 10 seconds across all 15.4 channels. This event will be rescheduled until EMBER_AF_REJOIN_ATTEMPTS_MAX is reached or a suitable network is joined. If EMBER_AF_REJOIN_ATTEMPTS_MAX is set to 0xff, the event will be rescheduled indefinitely until a suitable network is found and joined.

Returns

Returns true if the device is able to start a move, false if a move event is already scheduled.

6.2.4.63 EmberStatus emberAfScheduleClusterTick (int8u *endpoint*, int16u *clusterId*, boolean *isClient*, int32u *timeMs*, EmberAfEventSleepControl *sleepControl*)

This function is used to schedule a cluster related event inside the application framework's event mechanism. This function provides a wrapper for the ember stack event mechanism which allows the cluster code to access its events by their endpoint, cluster id and client/server identity. The passed sleepControl value provides the same functionality as adding an event to the current app tasks. By passing this value, the cluster is able to indicate the priority of the event that is scheduled and what type of sleeping the processor should be able to do while the event being scheduled is active. The sleepControl value for each active event is checked inside the emberAfOkToHibernate and emberAfOkToNap functions.

Parameters

| | |
|---------------------|---|
| <i>endpoint</i> | the endpoint of the event to be scheduled |
| <i>clusterId</i> | the clusterId of the event to be scheduled |
| <i>isClient</i> | TRUE if the event to be scheduled is associated with a client cluster, FALSE otherwise. |
| <i>time</i> | the number of milliseconds till the event should be called. |
| <i>sleepControl</i> | the priority of the event, what the processor should be allowed to do in terms of sleeping while the event is active. |

Returns

If the event in question was found in the event table and scheduled, this function will return EMBER_SUCCESS, If the event could not be found it will return EMBER_BAD_ARGUMENT

6.2.4.64 EmberStatus emberAfDeactivateClusterTick (int8u *endpoint*, int16u *clusterId*, boolean *isClient*)

A function used to deactivate a cluster related event. This function provides a wrapper for the ember stack's event mechanism which allows an event to be accessed by its endpoint, cluster id and client/server identity.

Parameters

| | |
|------------------|--|
| <i>endpoint</i> | the endpoint of the event to be deactivated. |
| <i>clusterId</i> | the clusterId of the event to be deactivated. |
| <i>isClient</i> | TRUE if the event to be deactivate is a client cluster, FALSE otherwise. |

Returns

If the event in question was found in the event table and scheduled, this function will return EMBER_SUCCESS, If the event could not be found it will return EMBER_BAD_ARGUMENT

6.2.4.65 EmberStatus emberAfEventControlSetDelay (EmberEventControl * *eventControl*, int32u *timeMs*)

A convenience function used to schedule an event in the Ember Event Control API depending on how large the passed timeMs value is. The Ember Event Control API uses three functions for the scheduling of events which indicate the time increment in milliseconds, quarter seconds, or seconds. This function wraps that API and provides a single function for the scheduling of all events based on a passed int32u value indicating the number of milliseconds until the next event. This function is used by both the cluster scheduling as well as the application framework's own internal event scheduling.

Parameters

| | |
|---------------------|---|
| <i>eventControl</i> | A pointer to the ember event control value which is referred to in the event table. |
| <i>timeMs</i> | the number of milliseconds until the next event. |

Returns

If the passed milliseconds can be transformed into a proper event control time increment: milliseconds, quarter seconds or minutes, that can be represented in a int16u, this function will schedule the event and return EMBER_SUCCESS. Otherwise it will return EMBER_BAD_ARGUMENT.

6.2.4.66 int32u emberAfMsToNextEvent (int32u *maxMs*)

A function used to retrieve the number of milliseconds until the next event scheduled in the application framework's event mechanism.

Parameters

| | |
|--------------------|--|
| <i>maxMs</i> , the | maximum number of milliseconds until the next event. |
|--------------------|--|

Returns

The number of milliseconds until the next event or *maxMs* if no event is scheduled before then.

6.2.4.67 EmberAfEventSleepControl emberAfGetCurrentSleepControl (void)

A function for retrieving the most restrictive sleep control value for all scheduled events. This function is used by *emberAfOkToNap* and *emberAfOkToHibernate* to makes sure that there are no events scheduled which will keep the device from hibernating or napping.

Returns

The most restrictive sleep control value for all scheduled events or the value returned by [emberAfGetDefaultSleepControl\(\)](#) if no events are currently scheduled. The default sleep control value is initialized to EMBER_AF_OK_TO_HIBERNATE but can be changed at any time using the [emberAfSetDefaultSleepControl\(\)](#) function.

6.2.4.68 void emberAfSetDefaultSleepControl (EmberAfEventSleepControl *control*)

A function for setting the default sleep control value against which all scheduled event sleep control values will be evaluated. This can be used to keep a device awake for an extended period of time by setting the default to EMBER_AF_STAY_AWAKE and then resetting the value to EMBER_AF_OK_TO_HIBERNATE once the wake period is complete.

6.2.4.69 int32u emberAfGetCurrentTime (void)

Retrieves current time.

Convienience function for retrieving the current time. If the time server cluster is implemented, then the time is retrieved from that cluster's time attribute. Otherwise, the *emberAfGetCurrentTimeCallback* is called. In the case of the stub, the current hal time is returned.

A real time is expected to in the ZigBee time format, the number of seconds since the year 2000.

6.2.4.70 void emberAfSetTime (int32u *utcTime*)

Sets current time. Convenience function for setting the time to a value. If the time server cluster is implemented on this device, then this call will be passed along to the time cluster server which will update the time. Otherwise the *emberAfSetTimeCallback* is called, which in the case of the stub does nothing.

Parameters

| | |
|-------------------|---|
| <i>utcTime</i> ,: | A ZigBee time, the number of seconds since the year 2000. |
|-------------------|---|

6.2.4.71 void emberAfPrintTime (int32u *utcTime*)

Prints time.

Convenience function for all clusters to print time. This function expects to be passed a ZigBee time which is the number of seconds since the year 2000. If EMBER_AF_PRINT_CORE is defined, this function will print a human readable time from the passed value. If not, this function will print nothing.

Parameters

| | |
|------------------|---|
| <i>utcTime</i> : | A ZigBee time, the number of seconds since the year 2000. |
|------------------|---|

6.2.4.72 EmberStatus emberAfSendResponse (void)

This function sends a ZCL response, based on the information that is currently in the outgoing buffer. It is expected that a complete ZCL message is present, including header. The application may use this method directly from within the message handling function and associated callbacks. However this will result in the response being sent before the APS Ack is sent which is not ideal.

NOTE: This will overwrite the ZCL sequence number of the message to use the LAST received sequence number.

6.2.4.73 EmberStatus emberAfSendRequest (void)

DEPRECATED: Use emberAfSendCommandUnicast instead to unicast the message to a specific node or binding or address table index. If using the emberAffillCommand macros to construct the outgoing message, the sequence number will be set automatically. Otherwise, emberAfNextSequence can be used to retrieve a new sequence number for the message.

This function sends a ZCL request, based on the information that is currently in the outgoing buffer. It is expected that a complete ZCL mesasge is present, including header.

NOTE: This will overwrite the ZCL sequence number of the message to use the NEXT sequence number of the local device.

6.2.4.74 EmberStatus emberAfSendMulticast (EmberMulticastId *multicastId*, EmberApsFrame * *apsFrame*, int16u *messageLength*, int8u * *message*)

Sends multicast.

6.2.4.75 EmberStatus emberAfSendBroadcast (EmberNodeld *destination*, EmberApsFrame * *apsFrame*, int16u *messageLength*, int8u * *message*)

Sends broadcast.

6.2.4.76 EmberStatus emberAfSendUnicast (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *messageLength*, int8u * *message*)

Sends unicast.

6.2.4.77 EmberStatus emberAfSendUnicastToBindings (*EmberApsFrame * apsFrame*, *int16u messageLength*, *int8u * message*)

Unicasts the message to each remote node in the binding table that matches the cluster and source endpoint in the APS frame. Note: if the binding table contains many matching entries, calling this API cause a significant amount of network traffic.

6.2.4.78 EmberStatus emberAfSendInterPan (*EmberPanId panId*, *const EmberEUI64 destinationLongId*, *EmberNodeld destinationShortId*, *EmberMulticastId multicastId*, *EmberAfClusterId clusterId*, *EmberAfProfileId profileId*, *int16u messageLength*, *int8u * messageBytes*)

Sends interpan message.

6.2.4.79 EmberStatus emberAfSendEndDeviceBind (*int8u endpoint*)

Sends end device binding request.

6.2.4.80 EmberStatus emberAfSendCommandUnicastToBindings (*void*)

Sends the command prepared with emberAfFill.... macro.

This function is used to send a command that was previously prepared using the emberAfFill... macros from the client command API. It will be sent as unicast to each remote node in the binding table that matches the cluster and source endpoint in the APS frame. Note: if the binding table contains many matching entries, calling this API cause a significant amount of network traffic.

6.2.4.81 EmberStatus emberAfSendCommandMulticast (*EmberMulticastId multicastId*)

Sends the command prepared with emberAfFill.... macro.

This function is used to send a command that was previously prepared using the emberAfFill... macros from the client command API. It will be sent as multicast.

6.2.4.82 EmberStatus emberAfSendCommandUnicast (*EmberOutgoingMessageType type*, *int16u indexOrDestination*)

Sends the command prepared with emberAfFill.... macro.

This function is used to send a command that was previously prepared using the emberAfFill... macros from the client command API. It will be sent as unicast.

6.2.4.83 EmberStatus emberAfSendCommandBroadcast (*EmberNodeld destination*)

Sends the command prepared with emberAfFill.... macro.

This function is used to send a command that was previously prepared using the emberAfFill... macros from the client command API.

6.2.4.84 EmberStatus emberAfSendCommandInterPan (EmberPanId *panId*, const EmberEUI64 *destinationLongId*, EmberNodeID *destinationShortId*, EmberMulticastID *multicastId*, EmberAfProfileID *profileId*)

Sends the command prepared with emberAfFill.... macro.

This function is used to send a command that was previously prepared using the emberAfFill... macros from the client command API. It will be sent via inter-PAN. If destinationLongId is not NULL, the message will be sent to that long address using long addressing mode; otherwise, the message will be sent to destination-ShortId using short address mode. IF multicastId is not zero, the message will be sent using multicast mode.

6.2.4.85 EmberStatus emberAfSendDefaultResponse (const EmberAfClusterCommand * *cmd*, EmberAfStatus *status*)

Sends a default response to a cluster command.

This function is used to prepare and send a default response to a cluster command.

Parameters

| | |
|---------------|---|
| <i>cmd</i> | The cluster command to which to respond. |
| <i>status</i> | Status code for the default response command. |

Returns

An ::EmberStatus value that indicates the success or failure of sending the response.

6.2.4.86 int8u emberAfMaximumApsPayloadLength (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*)

Returns the maximum size of the payload that the Application Support sub-layer will accept for the given message type, destination, and APS frame.

The size depends on multiple factors, including the security level in use and additional information added to the message to support the various options.

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The outgoing message type. |
| <i>indexOr- Destination</i> | Depending on the message type, this is either the EmberNodeID of the destination, an index into the address table, an index into the binding table, the multicast identifier, or a broadcast address. |
| <i>apsFrame</i> | The APS frame for the message. |

Returns

The maximum APS payload length for the given message.

6.2.4.87 EmberApsFrame* emberAfGetCommandApsFrame (void)

Access to client API aps frame.

6.2.4.88 EmberStatus emberAfFindDevicesSupportingCluster (EmberNodeID *target*, EmberAfClusterID *clusterId*, boolean *serverCluster*, EmberAfServiceDiscoveryCallback * *callback*)

Find devices in the network that support a given cluster. This function assumes that the application profile for the cluster being discovered is that of the primary endpoint configuration on the local device. If you have multiple endpoints with different profiles, this may not be a valid assumption. For a more flexible interface that supports specifying a profile ID, see [emberAfFindDevicesByProfileAndCluster\(\)](#). Target may either be a specific device, or the broadcast.

With this function a service discovery is initiated and received responses are returned by executing the callback function passed in. For unicast discoveries, the callback will be executed only once. Either the target will return a result or a timeout will occur. For broadcast discoveries, the callback may be called multiple times and after a period of time the discovery will be finished with a final call to the callback.

This API has been superseded by [emberAfFindDevicesByProfileAndCluster\(\)](#) but remains as a macro for convenience and backwards compatibility. It may also be useful in cases where the calling function can't easily determine the application profile (by looking at the description of a relevant endpoint).

Parameters

| | |
|----------------------|--|
| <i>target</i> | The destination node ID for the discovery; either a specific node's ID or EMBER_RX_ON_WHEN_IDLE_BROADCAST_ADDRESS. |
| <i>clusterId</i> | The cluster being discovered. (Assumed to be from Primary endpoint's application profile.) |
| <i>serverCluster</i> | EMBER_AF_SERVER_CLUSTER_DISCOVERY (TRUE) if discovering servers for the target cluster; EMBER_AF_CLIENT_CLUSTER_DISCOVERY (FALSE) if discovering clients for that cluster. |
| <i>callback</i> | Function pointer for the callback function triggered when a match is discovered. (For broadcast discoveries, this is called once per matching node, even if a node has multiple matching endpoints.) |

6.2.4.89 EmberStatus emberAfFindDevicesByProfileAndCluster (EmberNodeID *target*, EmberAfProfileID *profileId*, EmberAfClusterID *clusterId*, boolean *serverCluster*, EmberAfServiceDiscoveryCallback * *callback*)

Use this function to find devices in the network with endpoints matching a given profile ID and cluster ID in their descriptors. Target may either be a specific device, or the broadcast address EMBER_RX_ON_WHEN_IDLE_BROADCAST_ADDRESS.

With this function a service discovery is initiated and received responses are returned by executing the callback function passed in. For unicast discoveries, the callback will be executed only once. Either the target will return a result or a timeout will occur. For broadcast discoveries, the callback may be called multiple times and after a period of time the discovery will be finished with a final call to the callback.

Parameters

| | |
|----------------------|--|
| <i>target</i> | The destination node ID for the discovery; either a specific node's ID or EMBER_RX_ON_WHEN_IDLE_BROADCAST_ADDRESS. |
| <i>profileId</i> | The application profile for the cluster being discovered. |
| <i>clusterId</i> | The cluster being discovered. |
| <i>serverCluster</i> | EMBER_AF_SERVER_CLUSTER_DISCOVERY (TRUE) if discovering servers for the target cluster; EMBER_AF_CLIENT_CLUSTER_DISCOVERY (FALSE) if discovering clients for that cluster. |

| | |
|-----------------|--|
| <i>callback</i> | Function pointer for the callback function triggered when a match is discovered. (For broadcast discoveries, this is called once per matching node, even if a node has multiple matching endpoints.) |
|-----------------|--|

6.2.4.90 EmberStatus emberAfFindIeeeAddress (EmberNodeID *shortAddress*, EmberAfServiceDiscoveryCallback * *callback*)

Use this function to initiate a discovery for the IEEE address of the specified node id. This will send a unicast sent to the target node ID.

6.2.4.91 EmberStatus emberAfFindNodeId (EmberEUI64 *longAddress*, EmberAfServiceDiscoveryCallback * *callback*)

Use this function to initiate a discovery for the short ID of the specified long address. This will send a broadcast to all rx-on-when-idle devices (non-sleepies).

6.2.4.92 int8u emberAfAddAddressTableEntry (EmberEUI64 *longId*, EmberNodeID *shortId*)

Use this function to add an entry for a remote device to the address table.

If the EUI64 already exists in the address table, the index of the existing entry will be returned. Otherwise, a new entry will be created and the new index will be returned. The framework will remember how many times the the returned index has been referenced. When the address table entry is no longer needed, the application should remove its reference by calling [emberAfRemoveAddressTableEntry](#).

Parameters

| | |
|----------------|--|
| <i>longId</i> | The EUI64 of the remote device. |
| <i>shortId</i> | The node id of the remote device or ::EMBER_UNKNOWN_NODE_ID if the node id is currently unknown. |

Returns

The index of the address table entry for this remove device or ::EMBER_NULL_ADDRESS_TABLE_INDEX if an error occurred (e.g., the address table is full).

6.2.4.93 EmberStatus emberAfSetAddressTableEntry (int8u *index*, EmberEUI64 *longId*, EmberNodeID *shortId*)

Use this function to add an entry for a remote device to the address table at a specific location.

The framework will remember how many times an address table index has been referenced through [emberAfAddAddressTableEntry](#). If the reference count for the index passed to this function is not zero, the entry will be not changed. When the address table entry is no longer needed, the application should remove its reference by calling [emberAfRemoveAddressTableEntry](#).

Parameters

| | |
|---------------|---------------------------------------|
| <i>index</i> | The index of the address table entry. |
| <i>longId</i> | The EUI64 of the remote device. |

| | |
|----------------|--|
| <i>shortId</i> | The node id of the remote device or ::EMBER_UNKNOWN_NODE_ID if the node id is currently unknown. |
|----------------|--|

Returns

::EMBER_SUCCESS if the address table entry was successfully set, ::EMBER_ADDRESS_TABLE_ENTRY_IS_ACTIVE if any messages are being sent using the existing entry at that index or the entry is still referenced in the framework, or ::EMBER_ADDRESS_TABLE_INDEX_OUT_OF_RANGE if the index is out of range.

6.2.4.94 EmberStatus emberAfRemoveAddressTableEntry (int8u *index*)

Use this function to remove a specific entry from the address table.

The framework will remember how many times an address table index has been referenced through [emberAfAddAddressTableEntry](#) and [emberAfSetAddressTableEntry](#). The address table entry at this index will not actually be removed until its reference count reaches zero.

Parameters

| | |
|--------------|---------------------------------------|
| <i>index</i> | The index of the address table entry. |
|--------------|---------------------------------------|

Returns

::EMBER_SUCCESS if the address table entry was successfully removed or ::EMBER_ADDRESS_TABLE_INDEX_OUT_OF_RANGE if the index is out of range.

6.2.4.95 EmberStatus emberAfInitiateKeyEstablishment (EmberNodeid *nodeId*, int8u *endpoint*)

Use this function to initiate key establishment with a remote node. [emberAfKeyEstablishmentCallback](#) will be called as events occur and when key establishment completes.

Parameters

| | |
|-----------------|------------------------------------|
| <i>nodeId</i> | The node id of the remote device. |
| <i>endpoint</i> | The endpoint on the remote device. |

Returns

::EMBER_SUCCESS if key establishment was initiated successfully

6.2.4.96 EmberStatus emberAfInitiateInterPanKeyEstablishment (EmberPanid *panId*, const EmberEUI64 *eui64*)

Use this function to initiate key establishment with a remote node on a different PAN. [emberAfInterPanKeyEstablishmentCallback](#) will be called as events occur and when key establishment completes.

Parameters

| | |
|--------------|----------------------------------|
| <i>panId</i> | The PAN id of the remote device. |
| <i>eui64</i> | The EUI64 of the remote device. |

Returns

::EMBER_SUCCESS if key establishment was initiated successfully

6.2.4.97 boolean emberAfPerformingKeyEstablishment (void)

Use this function to tell if the device is in the process of performing key establishment.

Returns

::TRUE if key establishment is in progress.

6.2.4.98 EmberStatus emberAfInitiatePartnerLinkKeyExchange (EmberNodeid *target*, int8u *endpoint*, EmberAfPartnerLinkKeyExchangeCallback * *callback*)

Use this function to initiate partner link key exchange with a remote node.

Parameters

| | |
|-----------------|--|
| <i>target</i> | The node id of the remote device. |
| <i>endpoint</i> | The key establishment endpoint of the remote device. |
| <i>callback</i> | The callback that should be called when the partner link key exchange completes. |

Returns

::EMBER_SUCCESS if the partner link key exchange was initiated successfully.

6.2.4.99 void emberAfPollCompleteHandler (EmberStatus *status*)

that function contains the functionality that app framework should execute during the poll complete handler. If you implement your own callback, you should call this function within.

6.2.4.100 void emberAfEzspPollCompleteHandler (EmberStatus *status*)

that function contains the functionality that app framework should execute during the EZSP poll complete handler. If you implement your own callback, you should call this function within.

6.2.4.101 EmberStatus emberAfFormNetwork (EmberNetworkParameters * *parameters*)

Use this function to form a new network using the specified network parameters.

Parameters

| | |
|-------------------|-----------------------------------|
| <i>parameters</i> | Specification of the new network. |
|-------------------|-----------------------------------|

Returns

An ::EmberStatus value that indicates either the successful formation of the new network or the reason that the network formation failed.

6.2.4.102 EmberStatus emberAfJoinNetwork (EmberNetworkParameters * *parameters*)

Use this function to associate with the network using the specified network parameters.

Parameters

| | |
|-------------------|--|
| <i>parameters</i> | Specification of the network with which the node should associate. |
|-------------------|--|

Returns

An ::EmberStatus value that indicates either that the association process began successfully or the reason for failure.

6.2.4.103 EmberStatus emberAfFindUnusedPanIdAndForm (void)

Use this function to find an unused PAN id and form a new network.

Returns

An ::EmberStatus value that indicates either the process begin successfully or the reason for failure.

6.2.4.104 EmberStatus emberAfStartSearchForJoinableNetwork (void)

Use this function to find a joinable network and join it.

Returns

An ::EmberStatus value that indicates either the process begin successfully or the reason for failure.

6.2.5 Variable Documentation**6.2.5.1 EmberAfDefinedEndpoint endpoints[]**

macro that returns true if the cluster is in the manufacturer specific range

Parameters

| | |
|----------------|-----------------------------|
| <i>cluster</i> | EmberAfCluster* to consider |
|----------------|-----------------------------|

6.2.5.2 PGM EmberAfOtaImageId emberAfInvalidImageId

This variable defines an invalid image id. It is used to determine if a returned [EmberAfOtaImageId](#) is valid or not. This is done by passing the data to the function [emberAfIsOtaImageIdValid\(\)](#).

6.2.5.3 int32u emberAfHibernateDuration

Macro for setting hibernate duration at run time.

6.2.5.4 int32u emberAfNapDuration

Macro for setting hibernate duration at run time.

6.2.5.5 int32u emAfCurrentAppTasks

externed value used in task functions and macros which is declared inside app/framework/util/util.c

6.2.5.6 EmberAfEventSleepControl emAfDefaultSleepControl

A function used to retrive the default sleep control against which all event sleep control values are evaluated. The default sleep control value is initialized to EMBER_AF_OK_TO_HIBERNATE but can be changed by the application at any time using the [emberAfSetDefaultSleepControl\(\)](#) function.

Returns

The current default sleep control value.

6.2.5.7 boolean emberAfResponseWaitingFlag

DEPRECATED: Use emberAfSendResponse to send the response immediately or any of the emberAfSend or emberAfSendCommand functions to send delayed responses.

This macro prepares the response to be sent once the application exits the context of the incomingMessageHandler. This ensures that the message response will be sent back after the APS Ack is sent for the incoming message.

6.2.5.8 EmberAfClusterCommand* emAfCurrentCommand

DEPRECATED: Use emberAfSendResponse to send the response immediately or any of the emberAfSend or emberAfSendCommand functions to send delayed responses.

6.3 Application Framework Types

Data Structures

- union [EmberAfDefaultAttributeValue](#)
Type for default values.
- struct [EmberAfAttributeMinMaxValue](#)
Type describing the attribute default, min and max values.
- union [EmberAfDefaultOrMinMaxAttributeValue](#)
Union describing the attribute default/min/max values.
- struct [EmberAfAttributeMetadata](#)
Each attribute has it's metadata stored in such struct.
- struct [EmberAfCluster](#)
Struct describing cluster.
- struct [EmberAfAttributeSearchRecord](#)
Struct used to find an attribute in storage. Together the elements in this search record constitute the "primary key" used to identify a unique attribute value in attribute storage.
- struct [EmberAfManufacturerCodeEntry](#)
- struct [EmberAfIncomingMessage](#)
a struct containing the superset of values passed to both emberIncomingMessageHandler on the SOC and ezspIncomingMessageHandler on the host.
- struct [EmberAfInterpanHeader](#)
Interpan header used for sending and receiving interpan messages.
- struct [EmberAfAllowedInterPanMessage](#)
This structure is used define an interpan message that will be accepted by the interpan filters.
- struct [EmberAfClusterCommand](#)
The EmberAFClusterCommand is a struct wrapper for all the data pertaining to a command which comes in over the air. This enables struct is used to encapsulate a command in a single place on the stack and pass a pointer to that location around during command processing.
- struct [EmberAfEndpointType](#)
Endpoint type struct describes clusters that are on the endpoint.
- struct [EmberAfDefinedEndpoint](#)
Struct that maps actual endpoint type, onto a specific endpoint.
- struct [EmberAfLoadControlEvent](#)
Struct that describes a load control event.
- struct [EmberAfServiceDiscoveryResult](#)
A structure containing general information about the service discovery.
- struct [EmberAfEndpointList](#)
A list of endpoints received during a service discovery attempt. This will be returned for a match descriptor request and a active endpoint request.
- struct [EmberAfEventContext](#)
a structure used to keep track of cluster related events and their sleep control values. The cluster code will not know at runtime all of the events that it has access to in the event table. This structure is stored by the application framework in an event context table which along with helper functions allows the cluster code to schedule and deactivate its associated events.
- struct [EmberAfSceneTableEntry](#)
A structure used to store scene table entries in RAM or in tokens, depending on a plugin setting. If endpoint field is EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID, the entry is unused.
- struct [EmberAfOtaImageId](#)

This is a unique identifier for referencing ZigBee Over-the-air upgrade images. It is used by the OTA plugins when passing around information about an upgrade file.

- struct [EmberAfOtaHeader](#)

This structure is an in-memory representation of the Over-the-air header data that resides on disk. It is not a byte-for-byte copy.

- struct [EmberAfTagData](#)

This structure contains information about a tag that resides within an Over-the-air bootload file.

- struct [EmberAfLinkKeyBackupData](#)

A data struct for a link key backup.

- struct [EmberAfTrustCenterBackupData](#)

A data struct for all the trust center backup data.

Defines

- #define [EMBER_AF_NULL_MANUFACTURER_CODE](#)
- #define [EMBER_AF_INTER_PAN_UNICAST](#)
- #define [EMBER_AF_INTER_PAN_BROADCAST](#)
- #define [EMBER_AF_INTER_PAN_MULTICAST](#)
- #define [INTER_PAN_UNICAST](#)
- #define [INTER_PAN_BROADCAST](#)
- #define [INTER_PAN_MULTICAST](#)
- #define [EMBER_AF_INTERPAN_OPTION_NONE](#)
- #define [EMBER_AF_INTERPAN_OPTION_APS_ENCRYPT](#)
- #define [EMBER_AF_INTERPAN_OPTION_MAC_HAS_LONG_ADDRESS](#)
- #define [InterPanHeader](#)
- #define [EMBER_AF_INTERPAN_DIRECTION_CLIENT_TO_SERVER](#)
- #define [EMBER_AF_INTERPAN_DIRECTION_SERVER_TO_CLIENT](#)
- #define [EMBER_AF_INTERPAN_DIRECTION_BOTH](#)
- #define [EMBER_AF_INTERPAN_GLOBAL_COMMAND](#)
- #define [EMBER_AF_INTERPAN_MANUFACTURER_SPECIFIC](#)
- #define [EM_AF_DISCOVERY_RESPONSE_MASK](#)
- #define [emberAfHaveDiscoveryResponseStatus\(status\)](#)
- #define [EMBER_AF_SCENE_TABLE_NULL_INDEX](#)
- #define [EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID](#)
- #define [ZCL_SCENES_CLUSTER_MAXIMUM_NAME_LENGTH](#)
- #define [ZCL_SCENES_GLOBAL_SCENE_GROUP_ID](#)
- #define [ZCL_SCENES_GLOBAL_SCENE_SCENE_ID](#)
- #define [ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH](#)
- #define [EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH](#)
- #define [APP_NOTIFY_ERROR_CODE_START](#)
- #define [APP_NOTIFY_MESSAGE_TEXT](#)

Typedefs

- typedef int16u [EmberAfProfileId](#)
- typedef int16u [EmberAfAttributeId](#)
- typedef int16u [EmberAfClusterId](#)
- typedef int8u [EmberAfAttributeType](#)
- typedef int8u [EmberAfClusterMask](#)

- `typedef int8u EmberAfAttributeMask`
- `typedef void(* EmberAfGenericClusterFunction)(void)`
- `typedef int8u EmberAfInterpanMessageType`
- `typedef int16u EmberAfInterpanOptions`
- `typedef int8u EmberAfAllowedInterpanOptions`
- `typedef int8u EmberAfPluginEsiManagementBitmask`
- `typedef void(EmberAfServiceDiscoveryCallback)(const EmberAfServiceDiscoveryResult *result)`
- `typedef void(EmberAfPartnerLinkKeyExchangeCallback)(boolean success)`
- `typedef void(* EmberAfTickFunction)(int8u endpoint)`
- `typedef void(* EmberAfInitFunction)(int8u endpoint)`
- `typedef void(* EmberAfClusterAttributeChangedCallback)(int8u endpoint, EmberAfAttributeId attributeId)`
- `typedef void(* EmberAfManufacturerSpecificClusterAttributeChangedCallback)(int8u endpoint, - EmberAfAttributeId attributeId, int16u manufacturerCode)`
- `typedef void(* EmberAfDefaultResponseFunction)(int8u endpoint, int8u commandId, EmberAfStatus status)`
- `typedef void(* EmberAfMessageSentFunction)(EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)`

Enumerations

- `enum EmberAfServiceDiscoveryStatus { EMBER_AF_BROADCAST_SERVICE_DISCOVERY_COMPLETE, EMBER_AF_BROADCAST_SERVICE_DISCOVERY_RESPONSE_RECEIVED, EMBER_AF_UNICAST_SERVICE_DISCOVERY_TIMEOUT, EMBER_AF_UNICAST_SERVICE_DISCOVERY_COMPLETE_WITH_RESPONSE }`
- `enum EmberAfEventSleepControl { EMBER_AF_OK_TO_HIBERNATE, EMBER_AF_OK_TO_NAP, EMBER_AF_STAY_AWAKE }`
- `enum EmberAfOtaStorageStatus { EMBER_AF_OTA_STORAGE_SUCCESS, EMBER_AF_OTA_STORAGE_ERROR, EMBER_AF_OTA_STORAGE_RETURN_DATA_TOO_LONG, EMBER_AF_OTA_STORAGE_PARTIAL_FILE_FOUND, EMBER_AF_OTA_STORAGE_OPERATION_IN_PROGRESS }`
- `enum EmberAfKeyEstablishmentNotifyMessage { NO_APP_MESSAGE, RECEIVED_PARTNER_CERTIFICATE, GENERATING_EPHEMERAL_KEYS, GENERATING_SHARED_SECRET, KEY_GENERATION_DONE, GENERATE_SHARED_SECRET_DONE, LINK_KEY_ESTABLISHED, NO_LOCAL_RESOURCES, PARTNER_NO_RESOURCES, TIMEOUT_OCCURRED, INVALID_APP_COMMAND, MESSAGE_SEND_FAILURE, PARTNER_SENT_TERMINATE, INVALID_PARTNER_MESSAGE, PARTNER_SENT_DEFAULT_RESPONSE_ERROR, - BAD_CERTIFICATE_ISSUER, KEY_CONFIRM_FAILURE, BAD_KEY_ESTABLISHMENT_SUITE, KEY_TABLE_FULL, NO_ESTABLISHMENT_ALLOWED }`
- `enum EmberAfImageVerifyStatus { EMBER_AF_IMAGE_GOOD, EMBER_AF_IMAGE_BAD, - EMBER_AF_IMAGE_VERIFY_IN_PROGRESS }`

6.3.1 Detailed Description

This documentation describes the types used by the Ember Application Framework V2.

6.3.2 Define Documentation

6.3.2.1 #define EMBER_AF_NULL_MANUFACTURER_CODE

A distinguished manufacturer code that is used to indicate the absence of a manufacturer-specific profile, cluster, command, or attribute.

Definition at line [64](#) of file [af-types.h](#).

6.3.2.2 #define EMBER_AF_INTER_PAN_UNICAST

Definition at line [303](#) of file [af-types.h](#).

6.3.2.3 #define EMBER_AF_INTER_PAN_BROADCAST

Definition at line [304](#) of file [af-types.h](#).

6.3.2.4 #define EMBER_AF_INTER_PAN_MULTICAST

Definition at line [305](#) of file [af-types.h](#).

6.3.2.5 #define INTER_PAN_UNICAST

Definition at line [308](#) of file [af-types.h](#).

6.3.2.6 #define INTER_PAN_BROADCAST

Definition at line [309](#) of file [af-types.h](#).

6.3.2.7 #define INTER_PAN_MULTICAST

Definition at line [310](#) of file [af-types.h](#).

6.3.2.8 #define EMBER_AF_INTERPAN_OPTION_NONE

Definition at line [313](#) of file [af-types.h](#).

6.3.2.9 #define EMBER_AF_INTERPAN_OPTION_APS_ENCRYPT

Definition at line [314](#) of file [af-types.h](#).

6.3.2.10 #define EMBER_AF_INTERPAN_OPTION_MAC_HAS_LONG_ADDRESS

Definition at line [315](#) of file [af-types.h](#).

6.3.2.11 #define InterPanHeader

Definition at line [352](#) of file [af-types.h](#).

6.3.2.12 #define EMBER_AF_INTERPAN_DIRECTION_CLIENT_TO_SERVER

Definition at line [359](#) of file [af-types.h](#).

6.3.2.13 #define EMBER_AF_INTERPAN_DIRECTION_SERVER_TO_CLIENT

Definition at line [360](#) of file [af-types.h](#).

6.3.2.14 #define EMBER_AF_INTERPAN_DIRECTION_BOTH

Definition at line [361](#) of file [af-types.h](#).

6.3.2.15 #define EMBER_AF_INTERPAN_GLOBAL_COMMAND

Definition at line [362](#) of file [af-types.h](#).

6.3.2.16 #define EMBER_AF_INTERPAN_MANUFACTURER_SPECIFIC

Definition at line [363](#) of file [af-types.h](#).

6.3.2.17 #define EM_AF_DISCOVERY_RESPONSE_MASK

Definition at line [520](#) of file [af-types.h](#).

6.3.2.18 #define emberAfHaveDiscoveryResponseStatus(*status*)

A simple way to determine if the service discovery callback has a response.

Definition at line [526](#) of file [af-types.h](#).

6.3.2.19 #define EMBER_AF_SCENE_TABLE_NULL_INDEX

Indicates the absence of a Scene table entry.

Definition at line [680](#) of file [af-types.h](#).

6.3.2.20 #define EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID

Value used when setting or getting the endpoint in a Scene table entry. It indicates that the entry is not in use.

Definition at line [685](#) of file [af-types.h](#).

6.3.2.21 #define ZCL_SCENES_CLUSTER_MAXIMUM_NAME_LENGTH

Maximum length of Scene names, not including the length byte.

Definition at line [689](#) of file [af-types.h](#).

6.3.2.22 #define ZCL_SCENES_GLOBAL_SCENE_GROUP_ID

The group identifier for the global scene.

Definition at line [693](#) of file [af-types.h](#).

6.3.2.23 #define ZCL_SCENES_GLOBAL_SCENE_ID

The scene identifier for the global scene.

Definition at line [697](#) of file [af-types.h](#).

6.3.2.24 #define ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH

Definition at line [775](#) of file [af-types.h](#).

6.3.2.25 #define EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH

The maximum size of the string that is present in the header of the ZigBee Over-the-air file format.

Definition at line [959](#) of file [af-types.h](#).

6.3.2.26 #define APP_NOTIFY_ERROR_CODE_START

Definition at line [1056](#) of file [af-types.h](#).

6.3.2.27 #define APP_NOTIFY_MESSAGE_TEXT

Definition at line [1057](#) of file [af-types.h](#).

6.3.3 Typedef Documentation

6.3.3.1 typedef int16u EmberAfProfileId

Type for referring to ZigBee application profile id.

Definition at line [25](#) of file [af-types.h](#).

6.3.3.2 typedef int16u EmberAfAttributeId

Type for referring to ZCL attribute id.

Definition at line [30](#) of file [af-types.h](#).

6.3.3.3 typedef int16u EmberAfClusterId

Type for referring to ZCL cluster id.

Definition at line [35](#) of file [af-types.h](#).

6.3.3.4 **typedef int8u EmberAfAttributeType**

Type for referring to ZCL attribute type.

Definition at line [40](#) of file [af-types.h](#).

6.3.3.5 **typedef int8u EmberAfClusterMask**

Type for the cluster mask.

Definition at line [45](#) of file [af-types.h](#).

6.3.3.6 **typedef int8u EmberAfAttributeMask**

Type for the attribute mask.

Definition at line [50](#) of file [af-types.h](#).

6.3.3.7 **typedef void(* EmberAfGenericClusterFunction)(void)**

Generic function type, used for either of the cluster function.

This type is used for the array of the cluster functions, and should always be cast into one of the specific functions before being called.

Definition at line [58](#) of file [af-types.h](#).

6.3.3.8 **typedef int8u EmberAfInterpanMessageType**

Interpan Message type: unicast, broadcast, or multicast.

Definition at line [302](#) of file [af-types.h](#).

6.3.3.9 **typedef int16u EmberAfInterpanOptions**

The options for sending/receiving interpan messages.

Definition at line [320](#) of file [af-types.h](#).

6.3.3.10 **typedef int8u EmberAfAllowedInterpanOptions**

The options for what interpan messages are allowed.

Definition at line [357](#) of file [af-types.h](#).

6.3.3.11 **typedef int8u EmberAfPluginEsiManagementBitmask**

Bitmask data type for storing one bit of information for each ESI in the ESI table.

Definition at line [457](#) of file [af-types.h](#).

6.3.3.12 `typedef void(EmberAfServiceDiscoveryCallback)(const EmberAfServiceDiscoveryResult *result)`

This defines a callback where a code element or cluster can be informed as to the result of a service discovery they have requested. For each match, the callback is fired with all the resulting matches from that source. If the discovery was unicast to a specific device, then the callback will only be fired once with either MATCH_FOUND or COMPLETE (no matches found). If the discovery is broadcast then multiple callbacks may be fired with ::EMBER_AF_SERVICE_DISCOVERY_RESPONSE RECEIVED. After a couple seconds the callback will then be fired with ::EMBER_AF_SERVICE_DISCOVERY_COMPLETE as the result.

Definition at line [586](#) of file `af-types.h`.

6.3.3.13 `typedef void(EmberAfPartnerLinkKeyExchangeCallback)(boolean success)`

This defines a callback where a code element or cluster can be informed as to the result of a request to initiate a partner link key exchange. The callback will be triggered with success equal to TRUE if the exchange completed successfully.

Definition at line [594](#) of file `af-types.h`.

6.3.3.14 `typedef void(* EmberAfTickFunction)(int8u endpoint)`

Type for referring to the tick callback for cluster.

Tick function will be called once for each tick for each endpoint in the cluster. The rate of tick is determined by the metadata of the cluster.

Definition at line [1110](#) of file `af-types.h`.

6.3.3.15 `typedef void(* EmberAfInitFunction)(int8u endpoint)`

Type for referring to the init callback for cluster.

Init function is called when the application starts up, once for each cluster/endpoint combination.

Definition at line [1119](#) of file `af-types.h`.

6.3.3.16 `typedef void(* EmberAfClusterAttributeChangedCallback)(int8u endpoint, EmberAfAttributeId attributeld)`

Type for referring to the attribute changed callback function.

This function is called just after an attribute changes.

Definition at line [1126](#) of file `af-types.h`.

6.3.3.17 `typedef void(* EmberAfManufacturerSpecificClusterAttributeChangedCallback)(int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)`

Type for referring to the manufacturer specific attribute changed callback function.

This function is called just after a manufacturer specific attribute changes.

Definition at line [1135](#) of file `af-types.h`.

6.3.3.18 `typedef void(* EmberAfDefaultResponseFunction)(int8u endpoint, int8u commandId, EmberAfStatus status)`

Type for referring to the default response callback function.

This function is called when default response is received, before the global callback. Global callback is called immediately afterwards.

Definition at line [1146](#) of file `af-types.h`.

6.3.3.19 `typedef void(* EmberAfMessageSentFunction)(EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)`

Type for referring to the message sent callback function.

This function is called when a message is sent.

Definition at line [1155](#) of file `af-types.h`.

6.3.4 Enumeration Type Documentation

6.3.4.1 `enum EmberAfServiceDiscoveryStatus`

This is an enum used to indicate the result of the service discovery. Unicast discoveries are completed as soon as a response is received. Broadcast discoveries wait a period of time for multiple responses to be received.

Enumerator:

```
EMBER_AF_BROADCAST_SERVICE_DISCOVERY_COMPLETE
EMBER_AF_BROADCAST_SERVICE_DISCOVERY_RESPONSE RECEIVED
EMBER_AF_UNICAST_SERVICE_DISCOVERY_TIMEOUT
EMBER_AF_UNICAST_SERVICE_DISCOVERY_COMPLETE WITH_RESPONSE
```

Definition at line [513](#) of file `af-types.h`.

6.3.4.2 `enum EmberAfEventSleepControl`

This is an enum used to control how the device will sleep for a given active cluster related event. When the event is scheduled, the scheduling code can pass a sleep control value which will be stored along with the event. The processor is only allowed to sleep according to the most restrictive sleep control value for any active event. For instance, if two events are active, one with `EMBER_AF_OK_TO_HIBERNATE` and the other with `EMBER_AF_OK_TO_NAP`, then the processor will only be allowed to nap until the second event is deactivated.

Enumerator:

```
EMBER_AF_OK_TO_HIBERNATE
EMBER_AF_OK_TO_NAP
EMBER_AF_STAY_AWAKE
```

Definition at line [609](#) of file `af-types.h`.

6.3.4.3 enum EmberAfOtaStorageStatus

This status contains the success or error code of an OTA storage device operation.

Enumerator:

```
EMBER_AF_OTA_STORAGE_SUCCESS
EMBER_AF_OTA_STORAGE_ERROR
EMBER_AF_OTA_STORAGE_RETURN_DATA_TOO_LONG
EMBER_AF_OTA_STORAGE_PARTIAL_FILE_FOUND
EMBER_AF_OTA_STORAGE_OPERATION_IN_PROGRESS
```

Definition at line 947 of file [af-types.h](#).

6.3.4.4 enum EmberAfKeyEstablishmentNotifyMessage

Enumerator:

```
NO_APP_MESSAGE
RECEIVED_PARTNER_CERTIFICATE
GENERATING_EPHEMERAL_KEYS
GENERATING_SHARED_SECRET
KEY_GENERATION_DONE
GENERATE_SHARED_SECRET_DONE
LINK_KEY_ESTABLISHED LINK_KEY_ESTABLISHED indicates Success, key establishment done.
NO_LOCAL_RESOURCES Error codes: Transient failures where Key Establishment could be re-tried
PARTNER_NO_RESOURCES
TIMEOUT_OCCURRED
INVALID_APP_COMMAND
MESSAGE_SEND_FAILURE
PARTNER_SENT_TERMINATE
INVALID_PARTNER_MESSAGE
PARTNER_SENT_DEFAULT_RESPONSE_ERROR
BAD_CERTIFICATE_ISSUER Fatal Errors: These results are not worth retrying because the outcome will not change
KEY_CONFIRM_FAILURE
BAD_KEY_ESTABLISHMENT_SUITE
KEY_TABLE_FULL
NO_ESTABLISHMENT_ALLOWED Neither initiator nor responder is an ESP/TC so the key establishment is not allowed per the spec.
```

Definition at line 1010 of file [af-types.h](#).

6.3.4.5 enum EmberAfImageVerifyStatus

This enumeration is used to indicate the state of an OTA bootload image undergoing verification. This is used both for cryptographic verification and manufacturer specific verification.

Enumerator:

EMBER_AF_IMAGE_GOOD
EMBER_AF_IMAGE_BAD
EMBER_AF_IMAGE_VERIFY_IN_PROGRESS

Definition at line [1089](#) of file [af-types.h](#).

6.4 Application Framework Callback Interface

Functions

- void `emberAfPluginBasicResetToFactoryDefaultsCallback` (void)
- boolean `emberAfPluginDrilEventActionCallback` (`EmberAfLoadControlEvent` *loadControlEvent, `EmberAfAmiEventStatus` eventStatus, int8u sequenceNumber)
- boolean `emberAfPluginInterpanPreMessageReceivedCallback` (const `EmberAfInterpanHeader` *header, int8u msgLen, int8u *message)
- void `emberAfPluginMessagingClientDisplayMessageCallback` (`EmberAfPluginMessagingClientMessage` *message)
- void `emberAfPluginMessagingClientCancelMessageCallback` (`EmberAfPluginMessagingClientMessage` *message)
- void `emberAfPluginNetworkFindFinishedCallback` (`EmberStatus` status)
- void `emberAfPluginPriceClientPriceStartedCallback` (`EmberAfPluginPriceClientPrice` *price)
- void `emberAfPluginPriceClientPriceExpiredCallback` (`EmberAfPluginPriceClientPrice` *price)
- `EmberAfStatus` `emberAfPluginReportingConfiguredCallback` (const `EmberAfPluginReportingEntry` *entry)
- int16u `emberAfPluginSimpleMeteringClientRequestMirrorCallback` (`EmberEUI64` requestingDevice-IeeeAddress)
- int16u `emberAfPluginSimpleMeteringClientRemoveMirrorCallback` (`EmberEUI64` requestingDevice-IeeeAddress)
- void `emberAfPluginTunnelingClientTunnelOpenedCallback` (int8u tunnelIndex, `EmberAfPluginTunneling-ClientStatus` tunnelStatus, int16u maximumIncomingTransferSize)
- void `emberAfPluginTunnelingClientDataReceivedCallback` (int8u tunnelIndex, int8u *data, int16u dataLen)
- void `emberAfPluginTunnelingClientDataErrorCallback` (int8u tunnelIndex, `EmberAfTunnelingTransfer-DataStatus` transferDataStatus)
- void `emberAfPluginTunnelingClientTunnelClosedCallback` (int8u tunnelIndex)
- boolean `emberAfPluginTunnelingServerIsProtocolSupportedCallback` (int8u protocolId, int16u manufacturer-Code)
- void `emberAfPluginTunnelingServerTunnelOpenedCallback` (int16u tunnelId, int8u protocolId, int16u manufacturerCode, boolean flowControlSupport, int16u maximumIncomingTransferSize)
- void `emberAfPluginTunnelingServerDataReceivedCallback` (int16u tunnelId, int8u *data, int16u data-Len)
- void `emberAfPluginTunnelingServerDataErrorCallback` (int16u tunnelId, `EmberAfTunnelingTransfer-DataStatus` transferDataStatus)
- void `emberAfPluginTunnelingServerTunnelClosedCallback` (int16u tunnelId, boolean clientInitiated)
- void `emberAfPluginZllCommissioningInitialSecurityStateCallback` (`EmberZllInitialSecurityState` *security-State)
- void `emberAfPluginZllCommissioningTouchLinkCompleteCallback` (const `EmberZllNetwork` *network-Info, int8u deviceInformationRecordCount, const `EmberZllDeviceInfoRecord` *deviceInformation-RecordList)
- void `emberAfPluginZllCommissioningTouchLinkFailedCallback` (`EmberAfZllCommissioningStatus` status)
- int8u `emberAfPluginZllCommissioningGroupIdentifierCountCallback` (int8u endpoint)
- boolean `emberAfPluginZllCommissioningGroupIdentifierCallback` (int8u endpoint, int8u index, - `EmberAfPluginZllCommissioningGroupInformationRecord` *record)
- int8u `emberAfPluginZllCommissioningEndpointInformationCountCallback` (int8u endpoint)
- boolean `emberAfPluginZllCommissioningEndpointInformationCallback` (int8u endpoint, int8u in-dex, `EmberAfPluginZllCommissioningEndpointInformationRecord` *record)

- void `emberAfPluginZllCommissioningIdentifyCallback` (int16u duration)
- void `emberAfPluginZllCommissioningResetToFactoryNewCallback` (void)
- `EmberAfStatus emberAfPluginZllOnOffServerOffWithEffectCallback` (int8u endpoint, int8u effectId, int8u effectVariant)

Non-Cluster Related Callbacks

- boolean `emberAfReadAttributesResponseCallback` (`EmberAfClusterId` clusterId, int8u *buffer, int16u bufLen)
- boolean `emberAfWriteAttributesResponseCallback` (`EmberAfClusterId` clusterId, int8u *buffer, int16u bufLen)
- boolean `emberAfConfigureReportingResponseCallback` (`EmberAfClusterId` clusterId, int8u *buffer, int16u bufLen)
- boolean `emberAfReadReportingConfigurationResponseCallback` (`EmberAfClusterId` clusterId, int8u *buffer, int16u bufLen)
- boolean `emberAfReportAttributesCallback` (`EmberAfClusterId` clusterId, int8u *buffer, int16u bufLen)
- boolean `emberAfDefaultResponseCallback` (`EmberAfClusterId` clusterId, int8u commandId, `EmberAfStatus` status)
- boolean `emberAfDiscoverAttributesResponseCallback` (`EmberAfClusterId` clusterId, boolean discoveryComplete, int8u *buffer, int16u bufLen)
- `EmberAfAttributeWritePermission` `emberAfAllowNetworkWriteAttributeCallback` (int8u endpoint, `EmberAfClusterId` clusterId, `EmberAfAttributeId` attributeId, int8u mask, int16u manufacturerCode, int8u *value, int8u type)
- void `emberAfPreAttributeChangeCallback` (int8u endpoint, `EmberAfClusterId` clusterId, `EmberAfAttributeId` attributeId, int8u mask, int16u manufacturerCode, int8u type, int8u size, int8u *value)
- void `emberAfPostAttributeChangeCallback` (int8u endpoint, `EmberAfClusterId` clusterId, `EmberAfAttributeId` attributeId, int8u mask, int16u manufacturerCode, int8u type, int8u size, int8u *value)
- boolean `emberAfPreMessageReceivedCallback` (`EmberAfIncomingMessage` *incomingMessage)
- boolean `emberAfPreCommandReceivedCallback` (`EmberAfClusterCommand` *cmd)
- boolean `emberAfPreZDOMessageReceivedCallback` (`EmberNodeId` emberNodeId, `EmberApsFrame` *apsFrame, int8u *message, int16u length)
- boolean `emberAfMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- boolean `emberAfStackStatusCallback` (`EmberStatus` status)
- void `emberAfNcpInitCallback` (boolean memoryAllocation)
- void `emberAfMainInitCallback` (void)
- void `emberAfClusterInitCallback` (int8u endpoint, `EmberAfClusterId` clusterId)
- boolean `emberAfPreGoToSleepCallback` (int32u sleepDurationAttempt)
- void `emberAfPostWakeUpCallback` (int32u sleepDuration)
- void `emberAfMainTickCallback` (void)
- boolean `emberAfExternalAttributeWriteCallback` (int8u endpoint, `EmberAfClusterId` clusterId, `EmberAfAttributeMetadata` *attributeMetadata, int16u manufacturerCode, int8u *buffer)
- boolean `emberAfExternalAttributeReadCallback` (int8u endpoint, `EmberAfClusterId` clusterId, `EmberAfAttributeMetadata` *attributeMetadata, int16u manufacturerCode, int8u *buffer)
- void `emberAfTrustCenterJoinCallback` (`EmberNodeId` newNodeId, `EmberEUI64` newNodeEui64, - `EmberNodeId` parentOfNewNode, `EmberDeviceUpdate` status, `EmberJoinDecision` decision)
- int32u `emberAfGetCurrentTimeCallback` (void)
- void `emberAfSetTimeCallback` (int32u utcTime)
- `EmberStatus` `emberAfInitiateKeyEstablishmentCallback` (`EmberNodeId` nodeId, int8u endpoint)

- EmberStatus `emberAfInitiateInterPanKeyEstablishmentCallback` (EmberPanId panId, const EmberEUI64 eui64)
- boolean `emberAfKeyEstablishmentCallback` (`EmberAfKeyEstablishmentNotifyMessage` status, boolean amInitiator, EmberNodeId partnerShortId, int8u delayInSeconds)
- boolean `emberAfInterPanKeyEstablishmentCallback` (`EmberAfKeyEstablishmentNotifyMessage` status, boolean amInitiator, EmberPanId panId, const EmberEUI64 eui64, int8u delayInSeconds)
- boolean `emberAfPerformingKeyEstablishmentCallback` (void)
- EmberStatus `emberAfInitiatePartnerLinkKeyExchangeCallback` (EmberNodeId target, int8u endpoint, `EmberAfPartnerLinkKeyExchangeCallback` *callback)
- EmberStatus `emberAfPartnerLinkKeyExchangeRequestCallback` (EmberEUI64 partner)
- void `emberAfPartnerLinkKeyExchangeResponseCallback` (EmberNodeId sender, EmberZdoStatus status)
- EmberStatus `emberAfRegistrationStartCallback` (void)
- void `emberAfRegistrationAbortCallback` (void)
- void `emberAfRegistrationCallback` (boolean success)
- void `emberAfTrustCenterKeepaliveUpdateCallback` (boolean registrationComplete)
- void `emberAfTrustCenterKeepaliveAbortCallback` (void)
- boolean `emberAfOtaServerIncomingMessageRawCallback` (`EmberAfClusterCommand` *message)
- boolean `emberAfOtaServerSendImageNotifyCallback` (EmberNodeId dest, int8u endpoint, int8u payloadType, int8u queryJitter, const `EmberAfOtaImageId` *id)
- boolean `emberAfOtaStorageDriverInitCallback` (void)
- boolean `emberAfOtaStorageDriverReadCallback` (int32u offset, int32u length, int8u *returnData)
- boolean `emberAfOtaStorageDriverWriteCallback` (const int8u *dataToWrite, int32u offset, int32u length)
- void `emberAfOtaStorageDriverDownloadFinishCallback` (int32u offset)
- int32u `emberAfOtaStorageDriverRetrieveLastStoredOffsetCallback` (void)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageDriverInvalidateImageCallback` (void)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageDriverPrepareToResumeDownloadCallback` (void)
- int8u `emberAfOtaBootloadCallback` (const `EmberAfOtaImageId` *id, int16u ncpUpgradeTagId)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageInitCallback` (void)
- void `emberAfOtaStorageCloseCallback` (void)
- int8u `emberAfOtaStorageGetCountCallback` (void)
- `EmberAfOtaImageId` `emberAfOtaStorageSearchCallback` (int16u manufacturerId, int16u imageTypeId, const int16u *hardwareVersion)
- int32u `emberAfOtaStorageGetTotalImageSizeCallback` (const `EmberAfOtaImageId` *id)
- `EmberAfOtaImageId` `emberAfOtaStorageIteratorFirstCallback` (void)
- `EmberAfOtaImageId` `emberAfOtaStorageIteratorNextCallback` (void)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageGetFullHeaderCallback` (const `EmberAfOtaImageId` *id, `EmberAfOtaHeader` *returnData)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageReadImageDataCallback` (const `EmberAfOtaImageId` *id, int32u offset, int32u length, int8u *returnData, int32u *returnedLength)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageClearTempDataCallback` (void)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageWriteTempDataCallback` (int32u offset, int32u length, const int8u *data)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageCheckTempDataCallback` (int32u *currentOffset, int32u *totalImageSize, `EmberAfOtaImageId` *newFileInfo)
- `EmberAfOtaStorageStatus` `emberAfOtaStorageFinishDownloadCallback` (int32u offset)
- boolean `emberAfOtaClientIncomingMessageRawCallback` (`EmberAfClusterCommand` *message)
- void `emberAfOtaClientStartCallback` (void)
- void `emberAfOtaClientVersionInfoCallback` (`EmberAfOtaImageId` *currentImageInfo, int16u *hardwareVersion)

- `EmberAfImageVerifyStatus emberAfOtaClientCustomVerifyCallback` (boolean newVerification, const `EmberAfOtaImageId` *id)
- boolean `emberAfOtaClientDownloadCompleteCallback` (boolean success, const `EmberAfOtaImageId` *id)
- void `emberAfOtaClientBootloadCallback` (const `EmberAfOtaImageId` *id)
- int8u `emberAfOtaServerQueryCallback` (const `EmberAfOtaImageId` *currentImageId, int16u *hardwareVersion, `EmberAfOtaImageId` *nextUpgradeImageId)
- int8u `emberAfOtaServerBlockSizeCallback` (EmberNodeId clientNodeId)
- int8u `emberAfOtaServerImageBlockRequestCallback` (const `EmberAfOtaImageId` *id, int32u offset, int8u maxDataSize, int32u *waitTimeMinutes)
- boolean `emberAfOtaServerUpgradeEndRequestCallback` (EmberNodeId source, int8u status, int32u *returnValue, const `EmberAfOtaImageId` *imageId)
- int8u `emberAfOtaPageRequestServerPolicyCallback` (void)
- EmberStatus `emberAfInterpanSendMessageCallback` (`EmberAfInterpanHeader` *header, int16u messageLength, int8u *message)
- void `emberAfUnusedPanIdFoundCallback` (EmberPanId panId, int8u channel)
- void `emberAfJoinableNetworkFoundCallback` (EmberZigbeeNetwork *networkFound, int8u lqi, int8s rssi)
- void `emberAfScanErrorCallback` (EmberStatus status)
- EmberStatus `emberAfFindUnusedPanIdAndFormCallback` (void)
- EmberStatus `emberAfStartSearchForJoinableNetworkCallback` (void)
- void `emberAfContinueJoinableNetworkSearchCallback` (void)
- void `emberAfNetworkFindOperationCompleteCallback` (void)
- boolean `emberAfClusterSecurityCustomCallback` (`EmberAfProfileId` profileId, `EmberAfClusterId` clusterId, boolean incoming, int8u commandId)
- boolean `emberAfConfigureReportingCommandCallback` (const `EmberAfClusterCommand` *cmd)
- boolean `emberAfReadReportingConfigurationCommandCallback` (const `EmberAfClusterCommand` *cmd)
- EmberStatus `emberAfClearReportTableCallback` (void)
- void `emberAfReportingAttributeChangeCallback` (int8u endpoint, `EmberAfClusterId` clusterId, `EmberAfAttributeId` attributeId, int8u mask, int16u manufacturerCode, `EmberAfAttributeType` type, int8u *data)
- void `emberAfNetworkKeyUpdateCompleteCallback` (EmberStatus status)

Basic Cluster Callbacks

- boolean `emberAfBasicClusterResetToFactoryDefaultsCallback` (void)
- void `emberAfBasicClusterServerInitCallback` (int8u endpoint)
- void `emberAfBasicClusterClientInitCallback` (int8u endpoint)
- void `emberAfBasicClusterServerTickCallback` (int8u endpoint)
- void `emberAfBasicClusterClientTickCallback` (int8u endpoint)
- void `emberAfBasicClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBasicClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBasicClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBasicClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBasicClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)

- void `emberAfBasicClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBasicClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfBasicClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Power Configuration Cluster Callbacks

- void `emberAfPowerConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPowerConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Device Temperature Configuration Cluster Callbacks

- void `emberAfDeviceTempClusterServerInitCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterClientInitCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterServerTickCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterClientTickCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDeviceTempClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDeviceTempClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDeviceTempClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDeviceTempClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)

- void `emberAfDeviceTempClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfDeviceTempClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDeviceTempClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Identify Cluster Callbacks

- boolean `emberAfIdentifyClusterIdentifyCallback` (int16u identifyTime)
- boolean `emberAfIdentifyClusterIdentifyQueryCallback` (void)
- boolean `emberAfIdentifyClusterIdentifyQueryResponseCallback` (int16u timeout)
- void `emberAfIdentifyClusterServerInitCallback` (int8u endpoint)
- void `emberAfIdentifyClusterClientInitCallback` (int8u endpoint)
- void `emberAfIdentifyClusterServerTickCallback` (int8u endpoint)
- void `emberAfIdentifyClusterClientTickCallback` (int8u endpoint)
- void `emberAfIdentifyClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfIdentifyClusterClientAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfIdentifyClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfIdentifyClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfIdentifyClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - EmberAfStatus status)
- void `emberAfIdentifyClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - EmberAfStatus status)
- void `emberAfIdentifyClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfIdentifyClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfIdentifyClusterTriggerEffectCallback` (int8u effectId, int8u effectVariant)

Groups Cluster Callbacks

- boolean `emberAfGroupsClusterEndpointInGroupCallback` (int8u endpoint, int16u groupId)
- void `emberAfGroupsClusterClearGroupTableCallback` (void)
- boolean `emberAfGroupsClusterAddGroupCallback` (int16u groupId, int8u *groupName)
- boolean `emberAfGroupsClusterViewGroupCallback` (int16u groupId)
- boolean `emberAfGroupsClusterGetGroupMembershipCallback` (int8u groupCount, int8u *groupList)
- boolean `emberAfGroupsClusterRemoveGroupCallback` (int16u groupId)
- boolean `emberAfGroupsClusterRemoveAllGroupsCallback` (void)
- boolean `emberAfGroupsClusterAddGroupIfIdentifyingCallback` (int16u groupId, int8u *groupName)
- boolean `emberAfGroupsClusterAddGroupResponseCallback` (int8u status, int16u groupId)

- boolean `emberAfGroupsClusterViewGroupResponseCallback` (int8u status, int16u groupId, int8u *groupName)
- boolean `emberAfGroupsClusterGetGroupMembershipResponseCallback` (int8u capacity, int8u groupCount, int8u *groupList)
- boolean `emberAfGroupsClusterRemoveGroupResponseCallback` (int8u status, int16u groupId)
- void `emberAfGroupsClusterServerInitCallback` (int8u endpoint)
- void `emberAfGroupsClusterClientInitCallback` (int8u endpoint)
- void `emberAfGroupsClusterServerTickCallback` (int8u endpoint)
- void `emberAfGroupsClusterClientTickCallback` (int8u endpoint)
- void `emberAfGroupsClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGroupsClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGroupsClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGroupsClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGroupsClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfGroupsClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfGroupsClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfGroupsClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Scenes Cluster Callbacks

- `EmberAfStatus emberAfScenesClusterStoreCurrentSceneCallback` (int8u endpoint, int16u groupId, int8u sceneId)
- `EmberAfStatus emberAfScenesClusterRecallSavedSceneCallback` (int8u endpoint, int16u groupId, int8u sceneId)
- void `emberAfScenesClusterClearSceneTableCallback` (void)
- boolean `emberAfScenesClusterAddSceneCallback` (int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterViewSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRemoveSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRemoveAllScenesCallback` (int16u groupId)
- boolean `emberAfScenesClusterStoreSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRecallSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterGetSceneMembershipCallback` (int16u groupId)
- boolean `emberAfScenesClusterAddSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterViewSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterRemoveSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRemoveAllScenesResponseCallback` (int8u status, int16u groupId)

- boolean `emberAfScenesClusterStoreSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterGetSceneMembershipResponseCallback` (int8u status, int8u capacity, int16u groupId, int8u sceneCount, int8u *sceneList)
- void `emberAfScenesClusterServerInitCallback` (int8u endpoint)
- void `emberAfScenesClusterClientInitCallback` (int8u endpoint)
- void `emberAfScenesClusterServerTickCallback` (int8u endpoint)
- void `emberAfScenesClusterClientTickCallback` (int8u endpoint)
- void `emberAfScenesClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributId` attributeId)
- void `emberAfScenesClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributId` attributeId)
- void `emberAfScenesClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributId` attributeId, int16u manufacturerCode)
- void `emberAfScenesClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributId` attributeId, int16u manufacturerCode)
- void `emberAfScenesClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfScenesClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfScenesClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- void `emberAfScenesClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- boolean `emberAfScenesClusterEnhancedAddSceneCallback` (int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterEnhancedViewSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterCopySceneCallback` (int8u mode, int16u groupIdFrom, int8u sceneIdFrom, int16u groupIdTo, int8u sceneIdTo)
- boolean `emberAfScenesClusterEnhancedAddSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterEnhancedViewSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterCopySceneResponseCallback` (int8u status, int16u groupIdFrom, int8u sceneIdFrom)

On/off Cluster Callbacks

- boolean `emberAfOnOffClusterOffCallback` (void)
- boolean `emberAfOnOffClusterOnCallback` (void)
- boolean `emberAfOnOffClusterToggleCallback` (void)
- void `emberAfOnOffClusterServerInitCallback` (int8u endpoint)
- void `emberAfOnOffClusterClientInitCallback` (int8u endpoint)
- void `emberAfOnOffClusterServerTickCallback` (int8u endpoint)
- void `emberAfOnOffClusterClientTickCallback` (int8u endpoint)
- void `emberAfOnOffClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributId` attributeId)
- void `emberAfOnOffClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributId` attributeId)

- void `emberAfOnOffClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfOnOffClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOnOffClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfOnOffClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfOnOffClusterOffWithEffectCallback` (int8u effectId, int8u effectVariant)
- boolean `emberAfOnOffClusterOnWithRecallGlobalSceneCallback` (void)
- boolean `emberAfOnOffClusterOnWithTimedOffCallback` (int8u onOffControl, int16u onTime, int16u offWaitTime)
- boolean `emberAfOnOffClusterSampleMfgSpecificOffWithTransitionCallback` (void)
- boolean `emberAfOnOffClusterSampleMfgSpecificOnWithTransitionCallback` (void)
- boolean `emberAfOnOffClusterSampleMfgSpecificToggleWithTransitionCallback` (void)

On/off Switch Configuration Cluster Callbacks

- void `emberAfOnOffSwitchConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOnOffSwitchConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOnOffSwitchConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffSwitchConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffSwitchConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOnOffSwitchConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOnOffSwitchConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)
- void `emberAfOnOffSwitchConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)

Level Control Cluster Callbacks

- boolean `emberAfLevelControlClusterMoveToLevelCallback` (int8u level, int16u transitionTime)
- boolean `emberAfLevelControlClusterMoveCallback` (int8u moveMode, int8u rate)
- boolean `emberAfLevelControlClusterStepCallback` (int8u stepMode, int8u stepSize, int16u transitionTime)
- boolean `emberAfLevelControlClusterStopCallback` (void)
- boolean `emberAfLevelControlClusterMoveToLevelWithOnOffCallback` (int8u level, int16u transitionTime)
- boolean `emberAfLevelControlClusterMoveWithOnOffCallback` (int8u moveMode, int8u rate)
- boolean `emberAfLevelControlClusterStepWithOnOffCallback` (int8u stepMode, int8u stepSize, int16u transitionTime)
- boolean `emberAfLevelControlClusterStopWithOnOffCallback` (void)
- void `emberAfLevelControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfLevelControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfLevelControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfLevelControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfLevelControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfLevelControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfLevelControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfLevelControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfLevelControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfLevelControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfLevelControlClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- void `emberAfLevelControlClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)

Alarms Cluster Callbacks

- boolean `emberAfAlarmClusterResetAlarmCallback` (int8u alarmCode, int16u clusterId)
- boolean `emberAfAlarmClusterResetAllAlarmsCallback` (void)
- boolean `emberAfAlarmClusterGetAlarmCallback` (void)
- boolean `emberAfAlarmClusterResetAlarmLogCallback` (void)
- boolean `emberAfAlarmClusterAlarmCallback` (int8u alarmCode, int16u clusterId)
- boolean `emberAfAlarmClusterGetAlarmResponseCallback` (int8u status, int8u alarmCode, int16u clusterId, int32u timeStamp)
- void `emberAfAlarmClusterServerInitCallback` (int8u endpoint)
- void `emberAfAlarmClusterClientInitCallback` (int8u endpoint)
- void `emberAfAlarmClusterServerTickCallback` (int8u endpoint)
- void `emberAfAlarmClusterClientTickCallback` (int8u endpoint)
- void `emberAfAlarmClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)

- void `emberAfAlarmClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfAlarmClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfAlarmClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfAlarmClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfAlarmClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfAlarmClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfAlarmClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Time Cluster Callbacks

- void `emberAfTimeClusterServerInitCallback` (int8u endpoint)
- void `emberAfTimeClusterClientInitCallback` (int8u endpoint)
- void `emberAfTimeClusterServerTickCallback` (int8u endpoint)
- void `emberAfTimeClusterClientTickCallback` (int8u endpoint)
- void `emberAfTimeClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTimeClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTimeClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTimeClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTimeClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTimeClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTimeClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfTimeClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

RSSI Location Cluster Callbacks

- boolean `emberAfRssiLocationClusterSetAbsoluteLocationCallback` (int16s coordinate1, int16s coordinate2, int16s coordinate3, int16s power, int16u pathLossExponent)
- boolean `emberAfRssiLocationClusterSetDeviceConfigurationCallback` (int16s power, int16u pathLossExponent, int16u calculationPeriod, int8u numberRssiMeasurements, int16u reportingPeriod)
- boolean `emberAfRssiLocationClusterGetDeviceConfigurationCallback` (int8u *targetAddress)
- boolean `emberAfRssiLocationClusterGetLocationDataCallback` (int8u flags, int8u numberResponses, int8u *targetAddress)

- boolean `emberAfRssiLocationClusterRssiResponseCallback` (int8u *replyingDevice, int16s coordinate1, int16s coordinate2, int16s coordinate3, int8s rssi, int8u numberRssiMeasurements)
- boolean `emberAfRssiLocationClusterSendPingsCallback` (int8u *targetAddress, int8u numberRssiMeasurements, int16u calculationPeriod)
- boolean `emberAfRssiLocationClusterAnchorNodeAnnounceCallback` (int8u *anchorNodeIeeeAddress, int16s coordinate1, int16s coordinate2, int16s coordinate3)
- boolean `emberAfRssiLocationClusterDeviceConfigurationResponseCallback` (int8u status, int16s power, int16u pathLossExponent, int16u calculationPeriod, int8u numberRssiMeasurements, int16u reportingPeriod)
- boolean `emberAfRssiLocationClusterLocationDataResponseCallback` (int8u status, int8u locationType, int16s coordinate1, int16s coordinate2, int16s coordinate3, int16s power, int16u pathLossExponent, int8u locationMethod, int8u qualityMeasure, int16u locationAge)
- boolean `emberAfRssiLocationClusterLocationDataNotificationCallback` (int8u locationType, int16s coordinate1, int16s coordinate2, int16s coordinate3, int16s power, int16u pathLossExponent, int8u locationMethod, int8u qualityMeasure, int16u locationAge)
- boolean `emberAfRssiLocationClusterCompactLocationDataNotificationCallback` (int8u locationType, int16s coordinate1, int16s coordinate2, int16s coordinate3, int8u qualityMeasure, int16u locationAge)
- boolean `emberAfRssiLocationClusterRssiPingCallback` (int8u locationType)
- boolean `emberAfRssiLocationClusterRssiRequestCallback` (void)
- boolean `emberAfRssiLocationClusterReportRssiMeasurementsCallback` (int8u *measuringDevice, int8u neighbors, int8u *neighborsInfo)
- boolean `emberAfRssiLocationClusterRequestOwnLocationCallback` (int8u *blindNode)
- void `emberAfRssiLocationClusterServerInitCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterClientInitCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterServerTickCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterClientTickCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRssiLocationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRssiLocationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRssiLocationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRssiLocationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRssiLocationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRssiLocationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfRssiLocationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Binary Input (Basic) Cluster Callbacks

- void `emberAfBinaryInputBasicClusterServerInitCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterClientInitCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterServerTickCallback` (int8u endpoint)

- void `emberAfBinaryInputBasicClusterClientTickCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBinaryInputBasicClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBinaryInputBasicClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBinaryInputBasicClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBinaryInputBasicClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBinaryInputBasicClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBinaryInputBasicClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfBinaryInputBasicClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Commissioning Cluster Callbacks

- boolean `emberAfCommissioningClusterRestartDeviceCallback` (int8u options, int8u delay, int8u jitter)
- boolean `emberAfCommissioningClusterSaveStartupParametersCallback` (int8u options, int8u index)
- boolean `emberAfCommissioningClusterRestoreStartupParametersCallback` (int8u options, int8u index)
- boolean `emberAfCommissioningClusterResetStartupParametersCallback` (int8u options, int8u index)
- boolean `emberAfCommissioningClusterRestartDeviceResponseCallback` (int8u status)
- boolean `emberAfCommissioningClusterSaveStartupParametersResponseCallback` (int8u status)
- boolean `emberAfCommissioningClusterRestoreStartupParametersResponseCallback` (int8u status)
- boolean `emberAfCommissioningClusterResetStartupParametersResponseCallback` (int8u status)
- void `emberAfCommissioningClusterServerInitCallback` (int8u endpoint)
- void `emberAfCommissioningClusterClientInitCallback` (int8u endpoint)
- void `emberAfCommissioningClusterServerTickCallback` (int8u endpoint)
- void `emberAfCommissioningClusterClientTickCallback` (int8u endpoint)
- void `emberAfCommissioningClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfCommissioningClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfCommissioningClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfCommissioningClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfCommissioningClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfCommissioningClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfCommissioningClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

- void `emberAfCommissioningClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Shade Configuration Cluster Callbacks

- void `emberAfShadeConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfShadeConfigClusterClientAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfShadeConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfShadeConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfShadeConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfShadeConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfShadeConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfShadeConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Pump Configuration and Control Cluster Callbacks

- void `emberAfPumpConfigControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfPumpConfigControlClusterClientAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfPumpConfigControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfPumpConfigControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfPumpConfigControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfPumpConfigControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfPumpConfigControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

- void `emberAfPumpConfigControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Thermostat Cluster Callbacks

- boolean `emberAfThermostatClusterSetpointRaiseLowerCallback` (int8u mode, int8s amount)
- void `emberAfThermostatClusterServerInitCallback` (int8u endpoint)
- void `emberAfThermostatClusterClientInitCallback` (int8u endpoint)
- void `emberAfThermostatClusterServerTickCallback` (int8u endpoint)
- void `emberAfThermostatClusterClientTickCallback` (int8u endpoint)
- void `emberAfThermostatClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfThermostatClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfThermostatClusterSetWeeklyScheduleCallback` (int8u numberOfTransitionsForSequence, int8u dayOfWeekForSequence, int8u modeForSequence, int8u *payload)
- boolean `emberAfThermostatClusterGetWeeklyScheduleCallback` (int8u daysToReturn, int8u modeToReturn)
- boolean `emberAfThermostatClusterClearWeeklyScheduleCallback` (void)
- boolean `emberAfThermostatClusterGetRelayStatusLogCallback` (void)
- boolean `emberAfThermostatClusterGetCurrentWeeklyScheduleCallback` (int8u numberOfTransitionsForSequence, int8u dayOfWeekForSequence, int8u modeForSequence, int8u *payload)
- boolean `emberAfThermostatClusterRelayStatusLogCallback` (int16u timeOfDay, int16u relayStatus, int16s localTemperature, int8u humidityInPercentage, int16s setpoint, int8u unreadEntries)

Fan Control Cluster Callbacks

- void `emberAfFanControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfFanControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfFanControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfFanControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfFanControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFanControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)

- void `emberAfFanControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFanControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFanControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFanControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFanControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfFanControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Dehumidification Control Cluster Callbacks

- void `emberAfDehumidControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDehumidControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDehumidControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDehumidControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDehumidControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDehumidControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDehumidControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDehumidControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Thermostat User Interface Configuration Cluster Callbacks

- void `emberAfThermostatUiConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatUiConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)

- void `emberAfThermostatUiConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatUiConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatUiConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatUiConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatUiConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfThermostatUiConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Color Control Cluster Callbacks

- boolean `emberAfColorControlClusterMoveToHueCallback` (int8u hue, int8u direction, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveHueCallback` (int8u moveMode, int8u rate)
- boolean `emberAfColorControlClusterStepHueCallback` (int8u stepMode, int8u stepSize, int8u transitionTime)
- boolean `emberAfColorControlClusterMoveToSaturationCallback` (int8u saturation, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveSaturationCallback` (int8u moveMode, int8u rate)
- boolean `emberAfColorControlClusterStepSaturationCallback` (int8u stepMode, int8u stepSize, int8u transitionTime)
- boolean `emberAfColorControlClusterMoveToHueAndSaturationCallback` (int8u hue, int8u saturation, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveToColorCallback` (int16u colorX, int16u colorY, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveColorCallback` (int16s rateX, int16s rateY)
- boolean `emberAfColorControlClusterStepColorCallback` (int16s stepX, int16s stepY, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveToColorTemperatureCallback` (int16u colorTemperature, int16u transitionTime)
- void `emberAfColorControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfColorControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfColorControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfColorControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfColorControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfColorControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfColorControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfColorControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfColorControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)

- void `emberAfColorControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfColorControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- void `emberAfColorControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- boolean `emberAfColorControlClusterEnhancedMoveToHueCallback` (int16u enhancedHue, int8u direction, int16u transitionTime)
- boolean `emberAfColorControlClusterEnhancedMoveHueCallback` (int8u moveMode, int16u rate)
- boolean `emberAfColorControlClusterEnhancedStepHueCallback` (int8u stepMode, int16u stepSize, int16u transitionTime)
- boolean `emberAfColorControlClusterEnhancedMoveToHueAndSaturationCallback` (int16u enhancedHue, int8u saturation, int16u transitionTime)
- boolean `emberAfColorControlClusterColorLoopSetCallback` (int8u updateFlags, int8u action, int8u direction, int16u time, int16u startHue)
- boolean `emberAfColorControlClusterStopMoveStepCallback` (void)
- boolean `emberAfColorControlClusterMoveColorTemperatureCallback` (int8u moveMode, int16u rate, int16u colorTemperatureMinimum, int16u colorTemperatureMaximum)
- boolean `emberAfColorControlClusterStepColorTemperatureCallback` (int8u stepMode, int16u stepSize, int16u transitionTime, int16u colorTemperatureMinimum, int16u colorTemperatureMaximum)

Ballast Configuration Cluster Callbacks

- void `emberAfBallastConfigurationClusterServerInitCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterClientInitCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterServerTickCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterClientTickCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBallastConfigurationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBallastConfigurationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBallastConfigurationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBallastConfigurationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBallastConfigurationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBallastConfigurationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)
- void `emberAfBallastConfigurationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)

Illuminance Measurement Cluster Callbacks

- void `emberAfIllumMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfIllumMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Illuminance Level Sensing Cluster Callbacks

- void `emberAfIllumLevelSensingClusterServerInitCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterClientInitCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterServerTickCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterClientTickCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumLevelSensingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumLevelSensingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumLevelSensingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumLevelSensingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumLevelSensingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumLevelSensingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfIllumLevelSensingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Temperature Measurement Cluster Callbacks

- int32s `emberAfTempMeasurementClusterConvertVoltsToCelsiusCallback` (int16u voltage)
- void `emberAfTempMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTempMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTempMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTempMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTempMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTempMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTempMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfTempMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Pressure Measurement Cluster Callbacks

- void `emberAfPressureMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPressureMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPressureMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPressureMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPressureMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPressureMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPressureMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfPressureMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Flow Measurement Cluster Callbacks

- void `emberAfFlowMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFlowMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFlowMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFlowMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFlowMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFlowMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFlowMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfFlowMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Relative Humidity Measurement Cluster Callbacks

- void `emberAfRelativeHumidityMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRelativeHumidityMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRelativeHumidityMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRelativeHumidityMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRelativeHumidityMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRelativeHumidityMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRelativeHumidityMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfRelativeHumidityMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Occupancy Sensing Cluster Callbacks

- void `emberAfOccupancySensingClusterServerInitCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterClientInitCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterServerTickCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterClientTickCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOccupancySensingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOccupancySensingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOccupancySensingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOccupancySensingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOccupancySensingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOccupancySensingClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)
- void `emberAfOccupancySensingClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)

IAS Zone Cluster Callbacks

- boolean `emberAfIasZoneClusterZoneEnrollResponseCallback` (int8u enrollResponseCode, int8u zoneId)
- boolean `emberAfIasZoneClusterZoneStatusChangeNotificationCallback` (int16u zoneStatus, int8u extendedStatus)
- boolean `emberAfIasZoneClusterZoneEnrollRequestCallback` (int16u zoneType, int16u manufacturerCode)
- void `emberAfIasZoneClusterServerInitCallback` (int8u endpoint)
- void `emberAfIasZoneClusterClientInitCallback` (int8u endpoint)
- void `emberAfIasZoneClusterServerTickCallback` (int8u endpoint)
- void `emberAfIasZoneClusterClientTickCallback` (int8u endpoint)
- void `emberAfIasZoneClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasZoneClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasZoneClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasZoneClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasZoneClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasZoneClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasZoneClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)

- void `emberAfIasZoneClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

IAS ACE Cluster Callbacks

- boolean `emberAfIasAceClusterArmCallback` (int8u armMode)
- boolean `emberAfIasAceClusterBypassCallback` (int8u numberofZones, int8u *zoneIds)
- boolean `emberAfIasAceClusterEmergencyCallback` (void)
- boolean `emberAfIasAceClusterFireCallback` (void)
- boolean `emberAfIasAceClusterPanicCallback` (void)
- boolean `emberAfIasAceClusterGetZoneIdMapCallback` (void)
- boolean `emberAfIasAceClusterGetZoneInformationCallback` (int8u zoneId)
- boolean `emberAfIasAceClusterArmResponseCallback` (int8u armNotification)
- boolean `emberAfIasAceClusterGetZoneIdMapResponseCallback` (int16u section0, int16u section1, int16u section2, int16u section3, int16u section4, int16u section5, int16u section6, int16u section7, int16u section8, int16u section9, int16u section10, int16u section11, int16u section12, int16u section13, int16u section14, int16u section15)
- boolean `emberAfIasAceClusterGetZoneInformationResponseCallback` (int8u zoneId, int16u zoneType, int8u *ieeeAddress)
- void `emberAfIasAceClusterServerInitCallback` (int8u endpoint)
- void `emberAfIasAceClusterClientInitCallback` (int8u endpoint)
- void `emberAfIasAceClusterServerTickCallback` (int8u endpoint)
- void `emberAfIasAceClusterClientTickCallback` (int8u endpoint)
- void `emberAfIasAceClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfIasAceClusterClientAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfIasAceClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfIasAceClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfIasAceClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - EmberAfStatus status)
- void `emberAfIasAceClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - EmberAfStatus status)
- void `emberAfIasAceClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfIasAceClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

IAS WD Cluster Callbacks

- boolean `emberAfIasWdClusterStartWarningCallback` (int8u warningInfo, int16u warningDuration)
- boolean `emberAfIasWdClusterSquawkCallback` (int8u squawkInfo)
- void `emberAfIasWdClusterServerInitCallback` (int8u endpoint)
- void `emberAfIasWdClusterClientInitCallback` (int8u endpoint)
- void `emberAfIasWdClusterServerTickCallback` (int8u endpoint)

- void `emberAfIasWdClusterClientTickCallback` (int8u endpoint)
- void `emberAfIasWdClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId)
- void `emberAfIasWdClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId)
- void `emberAfAtlasWdClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId, int16u manufacturerCode)
- void `emberAfIasWdClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributedId` attributeId, int16u manufacturerCode)
- void `emberAfIasWdClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasWdClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIasWdClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfIasWdClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Door Lock Cluster Callbacks

- boolean `emberAfDoorLockClusterLockDoorCallback` (void)
- boolean `emberAfDoorLockClusterUnlockDoorCallback` (void)
- boolean `emberAfDoorLockClusterLockDoorResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterUnlockDoorResponseCallback` (int8u status)
- void `emberAfDoorLockClusterServerInitCallback` (int8u endpoint)
- void `emberAfDoorLockClusterClientInitCallback` (int8u endpoint)
- void `emberAfDoorLockClusterServerTickCallback` (int8u endpoint)
- void `emberAfDoorLockClusterClientTickCallback` (int8u endpoint)
- void `emberAfDoorLockClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId)
- void `emberAfDoorLockClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId)
- void `emberAfDoorLockClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId, int16u manufacturerCode)
- void `emberAfDoorLockClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributedId` attributeId, int16u manufacturerCode)
- void `emberAfDoorLockClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDoorLockClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDoorLockClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDoorLockClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfDoorLockClusterGetLockStatusCallback` (void)
- boolean `emberAfDoorLockClusterUnlockWithTimeoutCallback` (int8u timeoutInSeconds)
- boolean `emberAfDoorLockClusterGetBatterylevelCallback` (void)

- boolean `emberAfDoorLockClusterSetRfLockoutTimeCallback` (int8u dayOfWeek, int16u startTimeInMinutesAfterMidnight, int16u stopTimeInMinutesAfterMidnight)
- boolean `emberAfDoorLockClusterGetRfLockoutTimeCallback` (int8u dayOfWeek)
- boolean `emberAfDoorLockClusterGetLogRecordCallback` (int16u logNumber)
- boolean `emberAfDoorLockClusterUserCodeSetCallback` (int8u userId, int8u userStatus, int8u *code)
- boolean `emberAfDoorLockClusterUserCodeGetCallback` (int8u userId)
- boolean `emberAfDoorLockClusterUserCodeClearCallback` (int8u userId)
- boolean `emberAfDoorLockClusterClearAllUserCodesCallback` (void)
- boolean `emberAfDoorLockClusterSetUserCodeStatusCallback` (int8u userId, int8u userStatus)
- boolean `emberAfDoorLockClusterGetUserCodeStatusCallback` (int8u userId)
- boolean `emberAfDoorLockClusterGetLastUserIdEnteredCallback` (void)
- boolean `emberAfDoorLockClusterSetScheduleSlotCallback` (int8u slotNumber, int8u userId, int8u daysMask, int8u startHour, int8u startMinute, int8u durationHour, int8u durationMinute)
- boolean `emberAfDoorLockClusterGetScheduleSlotCallback` (int8u slotNumber, int8u userId)
- boolean `emberAfDoorLockClusterSetScheduleSlotStatusCallback` (int8u slotNumber, int8u userId, int8u status)
- boolean `emberAfDoorLockClusterSetIndicatorCallback` (int8u indicatorNumber, int8u state)
- boolean `emberAfDoorLockClusterGetLockStatusResponseCallback` (int8u lockMode, int8u boltCondition, int8u handleCondition, int8u relockTimeout)
- boolean `emberAfDoorLockClusterUnlockWithTimeoutResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetBatteryLevelResponseCallback` (int8u batteryLevel)
- boolean `emberAfDoorLockClusterSetRfLockoutTimeResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetRfLockoutTimeResponseCallback` (int8u dayOfWeek, int16u startTimeInMinutesAfterMidnight, int16u stopTimeInMinutesAfterMidnight)
- boolean `emberAfDoorLockClusterGetLogRecordResponseCallback` (int16u logEntryId, int32u timestamp, int8u eventType, int8u userId)
- boolean `emberAfDoorLockClusterUserCodeSetResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterUserCodeGetResponseCallback` (int8u userId, int8u userStatus, int8u *code)
- boolean `emberAfDoorLockClusterUserCodeClearResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterClearAllUserCodesResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterSetUserCodeStatusResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetUserCodeStatusResponseCallback` (int8u userId, int8u userStatus)
- boolean `emberAfDoorLockClusterGetLastUserIdEnteredResponseCallback` (int8u userId, int8u reason)
- boolean `emberAfDoorLockClusterUserAddedCallback` (int8u userId, int8u userStatus, int8u *code)
- boolean `emberAfDoorLockClusterUserDeletedCallback` (int8u userId)
- boolean `emberAfDoorLockClusterSetScheduleSlotResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetScheduleSlotResponseCallback` (int8u slotNumber, int8u userId, int8u daysMask, int8u startHour, int8u startMinute, int8u durationHour, int8u durationMinute)
- boolean `emberAfDoorLockClusterSetScheduleSlotStatusResponseCallback` (int8u status)

Window Covering Cluster Callbacks

- boolean `emberAfWindowCoveringClusterWindowCoveringUpOpenCallback` (void)
- boolean `emberAfWindowCoveringClusterWindowCoveringDownCloseCallback` (void)
- boolean `emberAfWindowCoveringClusterWindowCoveringStopCallback` (void)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToLiftSetpointCallback` (int8u indexOfLiftSetpoint)

- boolean `emberAfWindowCoveringClusterWindowCoveringGoToLiftValueCallback` (int16u liftValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToLiftPercentageCallback` (int8u percentageLiftValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToTiltSetpointCallback` (int8u indexOfTiltSetpoint)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToTiltValueCallback` (int16u tiltValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToTiltPercentageCallback` (int8u percentageTiltValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToProgramSetpointCallback` (int8u setpointType, int8u setpointIndex, int16u setpointValue)
- void `emberAfWindowCoveringClusterServerInitCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterClientInitCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterServerTickCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterClientTickCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfWindowCoveringClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfWindowCoveringClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfWindowCoveringClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfWindowCoveringClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfWindowCoveringClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfWindowCoveringClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfWindowCoveringClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Power Profile Cluster Callbacks

- boolean `emberAfPowerProfileClusterPowerProfileRequestCallback` (int8u powerProfileId)
- boolean `emberAfPowerProfileClusterPowerProfileStateRequestCallback` (void)
- boolean `emberAfPowerProfileClusterGetPowerProfilePriceResponseCallback` (int8u powerProfileId, int16u currency, int32u price, int8u priceTrailingDigit)
- boolean `emberAfPowerProfileClusterGetOverallSchedulePriceResponseCallback` (int16u currency, int32u price, int8u priceTrailingDigit)
- boolean `emberAfPowerProfileClusterEnergyPhasesScheduleNotificationCallback` (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean `emberAfPowerProfileClusterEnergyPhasesScheduleResponseCallback` (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean `emberAfPowerProfileClusterPowerProfileScheduleConstraintsRequestCallback` (int8u powerProfileId)
- boolean `emberAfPowerProfileClusterEnergyPhasesScheduleStateRequestCallback` (int8u powerProfileId)
- boolean `emberAfPowerProfileClusterPowerProfileNotificationCallback` (int8u totalProfileNum, int8u powerProfileId, int8u numOfTransferredPhases, int8u *transferredPhases)

- boolean `emberAfPowerProfileClusterPowerProfileResponseCallback` (int8u totalProfileNum, int8u powerProfileId, int8u numOfTransferredPhases, int8u *transferredPhases)
- boolean `emberAfPowerProfileClusterPowerProfileStateResponseCallback` (int8u powerProfileCount, int8u *powerProfileRecords)
- boolean `emberAfPowerProfileClusterGetPowerProfilePriceCallback` (int8u powerProfileId)
- boolean `emberAfPowerProfileClusterPowerProfilesStateNotificationCallback` (int8u powerProfileCount, int8u *powerProfileRecords)
- boolean `emberAfPowerProfileClusterGetOverallSchedulePriceCallback` (void)
- boolean `emberAfPowerProfileClusterEnergyPhasesScheduleRequestCallback` (int8u powerProfileId)
- boolean `emberAfPowerProfileClusterEnergyPhasesScheduleStateResponseCallback` (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean `emberAfPowerProfileClusterEnergyPhasesScheduleStateNotificationCallback` (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean `emberAfPowerProfileClusterPowerProfileScheduleConstraintsNotificationCallback` (int8u powerProfileId, int16u startAfter, int16u stopBefore)
- boolean `emberAfPowerProfileClusterPowerProfileScheduleConstraintsResponseCallback` (int8u powerProfileId, int16u startAfter, int16u stopBefore)
- void `emberAfPowerProfileClusterServerInitCallback` (int8u endpoint)
- void `emberAfPowerProfileClusterClientInitCallback` (int8u endpoint)
- void `emberAfPowerProfileClusterServerTickCallback` (int8u endpoint)
- void `emberAfPowerProfileClusterClientTickCallback` (int8u endpoint)
- void `emberAfPowerProfileClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerProfileClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerProfileClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerProfileClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerProfileClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerProfileClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerProfileClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- void `emberAfPowerProfileClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)

Appliance Control Cluster Callbacks

- boolean `emberAfApplianceControlClusterExecutionOfACommandCallback` (int8u commandId)
- boolean `emberAfApplianceControlClusterSignalStateCallback` (void)
- boolean `emberAfApplianceControlClusterWriteFunctionsCallback` (int16u functionId, int8u functionDataType, int8u *functionData)
- boolean `emberAfApplianceControlClusterOverloadPauseResumeCallback` (void)
- boolean `emberAfApplianceControlClusterOverloadPauseCallback` (void)
- boolean `emberAfApplianceControlClusterOverloadWarningCallback` (int8u warningEvent)

- boolean `emberAfApplianceControlClusterSignalStateResponseCallback` (int8u applianceStatus, int8u remoteEnableFlagsAndDeviceStatus2, int32u applianceStatus2)
- boolean `emberAfApplianceControlClusterSignalStateNotificationCallback` (int8u applianceStatus, int8u remoteEnableFlagsAndDeviceStatus2, int32u applianceStatus2)
- void `emberAfApplianceControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAf-AttributeId` attributeId)
- void `emberAfApplianceControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAf-AttributeId` attributeId)
- void `emberAfApplianceControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfApplianceControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Poll Control Cluster Callbacks

- boolean `emberAfPollControlClusterCheckInCallback` (void)
- boolean `emberAfPollControlClusterCheckInResponseCallback` (int8u startFastPolling, int16u fastPollTimeout)
- boolean `emberAfPollControlClusterFastPollStopCallback` (void)
- boolean `emberAfPollControlClusterSetLongPollIntervalCallback` (int32u newLongPollInterval)
- boolean `emberAfPollControlClusterSetShortPollIntervalCallback` (int16u newShortPollInterval)
- void `emberAfPollControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfPollControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfPollControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfPollControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfPollControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPollControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPollControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPollControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPollControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPollControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)

- void `emberAfPollControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPollControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Appliance Identification Cluster Callbacks

- void `emberAfApplianceIdentificationClusterServerInitCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterClientInitCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterServerTickCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterClientTickCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfApplianceIdentificationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfApplianceIdentificationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceIdentificationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceIdentificationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceIdentificationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceIdentificationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfApplianceIdentificationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Meter Identification Cluster Callbacks

- void `emberAfMeterIdentificationClusterServerInitCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterClientInitCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterServerTickCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterClientTickCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfMeterIdentificationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfMeterIdentificationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfMeterIdentificationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfMeterIdentificationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfMeterIdentificationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)

- void `emberAfMeterIdentificationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfMeterIdentificationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Appliance Events and Alert Cluster Callbacks

- boolean `emberAfApplianceEventsAndAlertClusterGetAlertsCallback` (void)
- boolean `emberAfApplianceEventsAndAlertClusterGetAlertsResponseCallback` (int8u alertsCount, int8u *alertStructures)
- boolean `emberAfApplianceEventsAndAlertClusterAlertsNotificationCallback` (int8u alertsCount, int8u *alertStructures)
- boolean `emberAfApplianceEventsAndAlertClusterEventsNotificationCallback` (int8u eventHeader, int8u eventId)
- void `emberAfApplianceEventsAndAlertClusterServerInitCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterClientInitCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterServerTickCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterClientTickCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterServerAttributeChangedCallback` (int8u endpoint, - EmberAfAttributeId attributeId)
- void `emberAfApplianceEventsAndAlertClusterClientAttributeChangedCallback` (int8u endpoint, - EmberAfAttributeId attributeId)
- void `emberAfApplianceEventsAndAlertClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfApplianceEventsAndAlertClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfApplianceEventsAndAlertClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfApplianceEventsAndAlertClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfApplianceEventsAndAlertClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfApplianceEventsAndAlertClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Generic Tunnel Cluster Callbacks

- boolean `emberAfGenericTunnelClusterMatchProtocolAddressCallback` (int8u *protocolAddress)
- boolean `emberAfGenericTunnelClusterMatchProtocolAddressResponseCallback` (int8u *deviceIeeeAddress, int8u *protocolAddress)
- boolean `emberAfGenericTunnelClusterAdvertiseProtocolAddressCallback` (int8u *protocolAddress)
- void `emberAfGenericTunnelClusterServerInitCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterClientInitCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterServerTickCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterClientTickCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)

- void `emberAfGenericTunnelClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGenericTunnelClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGenericTunnelClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGenericTunnelClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfGenericTunnelClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfGenericTunnelClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfGenericTunnelClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

BACnet Protocol Tunnel Cluster Callbacks

- boolean `emberAfBacnetProtocolTunnelClusterTransferNpduCallback` (int8u *npdu)
- void `emberAfBacnetProtocolTunnelClusterServerInitCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterClientInitCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterServerTickCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterClientTickCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBacnetProtocolTunnelClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBacnetProtocolTunnelClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBacnetProtocolTunnelClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBacnetProtocolTunnelClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBacnetProtocolTunnelClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBacnetProtocolTunnelClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfBacnetProtocolTunnelClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Over the Air Bootloading Cluster Cluster Callbacks

- boolean `emberAfOtaBootloadClusterImageNotifyCallback` (int8u payloadType, int8u queryJitter, int16u manufacturerId, int16u imageType, int32u newFileVersion)
- boolean `emberAfOtaBootloadClusterQueryNextImageRequestCallback` (int8u fieldControl, int16u manufacturerId, int16u imageType, int32u currentFileVersion, int16u hardwareVersion)
- boolean `emberAfOtaBootloadClusterQueryNextImageResponseCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u imageSize)

- boolean `emberAfOtaBootloadClusterImageBlockRequestCallback` (int8u fieldControl, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u fileOffset, int8u maxDataSize, int8u *requestNodeAddress)
- boolean `emberAfOtaBootloadClusterImagePageRequestCallback` (int8u fieldControl, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u fileOffset, int8u maxDataSize, int16u pageSize, int16u responseSpacing, int8u *requestNodeAddress)
- boolean `emberAfOtaBootloadClusterImageBlockResponseCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u fileOffset, int8u dataSize, int8u *imageData)
- boolean `emberAfOtaBootloadClusterUpgradeEndRequestCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion)
- boolean `emberAfOtaBootloadClusterUpgradeEndResponseCallback` (int16u manufacturerId, int16u imageType, int32u fileVersion, int32u currentTime, int32u upgradeTime)
- boolean `emberAfOtaBootloadClusterQuerySpecificFileRequestCallback` (int8u *requestNodeAddress, int16u manufacturerId, int16u imageType, int32u fileVersion, int16u currentZigbeeStackVersion)
- boolean `emberAfOtaBootloadClusterQuerySpecificFileResponseCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u imageSize)
- void `emberAfOtaBootloadClusterServerInitCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterClientInitCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterServerTickCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterClientTickCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOtaBootloadClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOtaBootloadClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOtaBootloadClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOtaBootloadClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOtaBootloadClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOtaBootloadClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfOtaBootloadClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Demand Response and Load Control Cluster Callbacks

- boolean `emberAfDemandResponseLoadControlClusterLoadControlEventCallback` (int32u issuerEventId, int16u deviceClass, int8u utilityEnrollmentGroup, int32u startTime, int16u durationInMinutes, int8u criticalityLevel, int8u coolingTemperatureOffset, int8u heatingTemperatureOffset, int16s coolingTemperatureSetPoint, int16s heatingTemperatureSetPoint, int8s averageLoadAdjustmentPercentage, int8u dutyCycle, int8u eventControl)
- boolean `emberAfDemandResponseLoadControlClusterCancelLoadControlEventCallback` (int32u issuerEventId, int16u deviceClass, int8u utilityEnrollmentGroup, int8u cancelControl, int32u effectiveTime)
- boolean `emberAfDemandResponseLoadControlClusterCancelAllLoadControlEventsCallback` (int8u cancelControl)

- boolean `emberAfDemandResponseLoadControlClusterReportEventStatusCallback` (int32u issuerEventId, int8u eventStatus, int32u eventStatusTime, int8u criticalityLevelApplied, int16s coolingTemperatureSetPointApplied, int16s heatingTemperatureSetPointApplied, int8s averageLoadAdjustmentPercentageApplied, int8u dutyCycleApplied, int8u eventControl, int8u signatureType, int8u *signature)
- boolean `emberAfDemandResponseLoadControlClusterGetScheduledEventsCallback` (int32u startTime, int8u numberOfEvents)
- void `emberAfDemandResponseLoadControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDemandResponseLoadControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDemandResponseLoadControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDemandResponseLoadControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDemandResponseLoadControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDemandResponseLoadControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDemandResponseLoadControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDemandResponseLoadControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Simple Metering Cluster Callbacks

- boolean `emberAfSimpleMeteringClusterGetProfileResponseCallback` (int32u endTime, int8u status, int8u profileIntervalPeriod, int8u numberofPeriodsDelivered, int8u *intervals)
- boolean `emberAfSimpleMeteringClusterRequestMirrorCallback` (void)
- boolean `emberAfSimpleMeteringClusterRemoveMirrorCallback` (void)
- boolean `emberAfSimpleMeteringClusterRequestFastPollModeResponseCallback` (int8u appliedUpdatePeriod, int32u fastPollModeEndtime)
- boolean `emberAfSimpleMeteringClusterGetProfileCallback` (int8u intervalChannel, int32u endTime, int8u numberofPeriods)
- boolean `emberAfSimpleMeteringClusterRequestMirrorResponseCallback` (int16u endpointId)
- boolean `emberAfSimpleMeteringClusterMirrorRemovedCallback` (int16u endpointId)
- boolean `emberAfSimpleMeteringClusterRequestFastPollModeCallback` (int8u fastPollUpdatePeriod, int8u duration)
- void `emberAfSimpleMeteringClusterServerInitCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterClientInitCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterServerTickCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterClientTickCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSimpleMeteringClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)

- void `emberAfSimpleMeteringClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSimpleMeteringClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSimpleMeteringClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSimpleMeteringClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSimpleMeteringClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfSimpleMeteringClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Price Cluster Callbacks

- boolean `emberAfPriceClusterPublishPriceCallback` (int32u providerId, int8u *rateLabel, int32u issuerEventId, int32u currentTime, int8u unitOfMeasure, int16u currency, int8u priceTrailingDigitAndPriceTier, int8u numberofPriceTiersAndRegisterTier, int32u startTime, int16u durationInMinutes, int32u price, int8u priceRatio, int32u generationPrice, int8u generationPriceRatio, int32u alternateCostDelivered, int8u alternateCostUnit, int8u alternateCostTrailingDigit, int8u numberofBlockThresholds, int8u priceControl)
- boolean `emberAfPriceClusterPublishBlockPeriodCallback` (int32u providerId, int32u issuerEventId, int32u blockPeriodStartTime, int32u blockPeriodDurationInMinutes, int8u numberofPriceTiersAndNumberofBlockThresholds, int8u blockPeriodControl)
- boolean `emberAfPriceClusterGetCurrentPriceCallback` (int8u commandOptions)
- boolean `emberAfPriceClusterGetScheduledPricesCallback` (int32u startTime, int8u numberofEvents)
- boolean `emberAfPriceClusterPriceAcknowledgementCallback` (int32u providerId, int32u issuerEventId, int32u priceAckTime, int8u control)
- boolean `emberAfPriceClusterGetBlockPeriodsCallback` (int32u startTime, int8u numberofEvents)
- void `emberAfPriceClusterServerInitCallback` (int8u endpoint)
- void `emberAfPriceClusterClientInitCallback` (int8u endpoint)
- void `emberAfPriceClusterServerTickCallback` (int8u endpoint)
- void `emberAfPriceClusterClientTickCallback` (int8u endpoint)
- void `emberAfPriceClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPriceClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPriceClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPriceClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPriceClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPriceClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPriceClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPriceClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Messaging Cluster Callbacks

- boolean `emberAfMessagingClusterDisplayMessageCallback` (int32u messageId, int8u messageControl, int32u startTime, int16u durationInMinutes, int8u *message)
- boolean `emberAfMessagingClusterCancelMessageCallback` (int32u messageId, int8u messageControl)
- boolean `emberAfMessagingClusterGetLastMessageCallback` (void)
- boolean `emberAfMessagingClusterMessageConfirmationCallback` (int32u messageId, int32u confirmationTime)
- void `emberAfMessagingClusterServerInitCallback` (int8u endpoint)
- void `emberAfMessagingClusterClientInitCallback` (int8u endpoint)
- void `emberAfMessagingClusterServerTickCallback` (int8u endpoint)
- void `emberAfMessagingClusterClientTickCallback` (int8u endpoint)
- void `emberAfMessagingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfMessagingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfMessagingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfMessagingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfMessagingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfMessagingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfMessagingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfMessagingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Tunneling Cluster Callbacks

- boolean `emberAfTunnelingClusterRequestTunnelCallback` (int8u protocolId, int16u manufacturerCode, int8u flowControlSupport, int16u maximumIncomingTransferSize)
- boolean `emberAfTunnelingClusterCloseTunnelCallback` (int16u tunnelId)
- boolean `emberAfTunnelingClusterTransferDataClientToServerCallback` (int16u tunnelId, int8u *data)
- boolean `emberAfTunnelingClusterTransferDataErrorClientToServerCallback` (int16u tunnelId, int8u transferDataStatus)
- boolean `emberAfTunnelingClusterAckTransferDataClientToServerCallback` (int16u tunnelId, int16u numberOfBytesLeft)
- boolean `emberAfTunnelingClusterReadyDataClientToServerCallback` (int16u tunnelId, int16u numberOctetsLeft)
- boolean `emberAfTunnelingClusterGetSupportedTunnelProtocolsCallback` (int8u protocolOffset)
- boolean `emberAfTunnelingClusterRequestTunnelResponseCallback` (int16u tunnelId, int8u tunnelStatus, int16u maximumIncomingTransferSize)
- boolean `emberAfTunnelingClusterTransferDataServerToClientCallback` (int16u tunnelId, int8u *data)
- boolean `emberAfTunnelingClusterTransferDataErrorServerToClientCallback` (int16u tunnelId, int8u transferDataStatus)
- boolean `emberAfTunnelingClusterAckTransferDataServerToClientCallback` (int16u tunnelId, int16u numberOfBytesLeft)

- boolean `emberAfTunnelingClusterReadyDataServerToClientCallback` (int16u tunnelId, int16u number-OfOctetsLeft)
- boolean `emberAfTunnelingClusterSupportedTunnelProtocolsResponseCallback` (int8u protocolList-Complete, int8u protocolCount, int8u *protocolList)
- boolean `emberAfTunnelingClusterTunnelClosureNotificationCallback` (int16u tunnelId)
- void `emberAfTunnelingClusterServerInitCallback` (int8u endpoint)
- void `emberAfTunnelingClusterClientInitCallback` (int8u endpoint)
- void `emberAfTunnelingClusterServerTickCallback` (int8u endpoint)
- void `emberAfTunnelingClusterClientTickCallback` (int8u endpoint)
- void `emberAfTunnelingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttribute-Id` attributeId)
- void `emberAfTunnelingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttribute-Id` attributeId)
- void `emberAfTunnelingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTunnelingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTunnelingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTunnelingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTunnelingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus sta-tus)
- void `emberAfTunnelingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus sta-tus)

Prepayment Cluster Callbacks

- boolean `emberAfPrepaymentClusterSelectAvailableEmergencyCreditCallback` (int32u commandDate-Time, int8u originatingDevice, int8u *siteId, int8u *meterSerialNumber)
- boolean `emberAfPrepaymentClusterChangeSupplyCallback` (int32u providerId, int32u requestDate-Time, int8u *siteId, int8u *meterSerialNumber, int32u implementationDateTime, int8u proposed-SupplyStatus, int8u originatorIdSupplyControlBits)
- boolean `emberAfPrepaymentClusterSupplyStatusResponseCallback` (int32u providerId, int32u implementation-DateTime, int8u supplyStatus)
- void `emberAfPrepaymentClusterServerInitCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterClientInitCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterServerTickCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterClientTickCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttribute-Id` attributeId)
- void `emberAfPrepaymentClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttribute-Id` attributeId)
- void `emberAfPrepaymentClusterServerManufacturerSpecificAttributeChangedCallback` (int8u end-point, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPrepaymentClusterClientManufacturerSpecificAttributeChangedCallback` (int8u end-point, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPrepaymentClusterServerDefaultResponseCallback` (int8u endpoint, int8u command-Id, `EmberAfStatus` status)

- void `emberAfPrepaymentClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPrepaymentClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPrepaymentClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Key establishment Cluster Callbacks

- boolean `emberAfKeyEstablishmentClusterClientCommandReceivedCallback` (`EmberAfClusterCommand` *cmd)
- boolean `emberAfKeyEstablishmentClusterServerCommandReceivedCallback` (`EmberAfClusterCommand` *cmd)
- boolean `emberAfKeyEstablishmentClusterInitiateKeyEstablishmentRequestCallback` (int16u keyEstablishmentSuite, int8u ephemeralDataGenerateTime, int8u confirmKeyGenerateTime, int8u *identity)
- boolean `emberAfKeyEstablishmentClusterEphemeralDataRequestCallback` (int8u *ephemeralData)
- boolean `emberAfKeyEstablishmentClusterConfirmKeyDataRequestCallback` (int8u *secureMessageAuthenticationCode)
- boolean `emberAfKeyEstablishmentClusterTerminateKeyEstablishmentCallback` (int8u statusCode, int8u waitTime, int16u keyEstablishmentSuite)
- boolean `emberAfKeyEstablishmentClusterInitiateKeyEstablishmentResponseCallback` (int16u requestedKeyEstablishmentSuite, int8u ephemeralDataGenerateTime, int8u confirmKeyGenerateTime, int8u *identity)
- boolean `emberAfKeyEstablishmentClusterEphemeralDataResponseCallback` (int8u *ephemeralData)
- boolean `emberAfKeyEstablishmentClusterConfirmKeyDataResponseCallback` (int8u *secureMessageAuthenticationCode)
- void `emberAfKeyEstablishmentClusterServerInitCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterClientInitCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterServerTickCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterClientTickCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfKeyEstablishmentClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfKeyEstablishmentClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfKeyEstablishmentClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfKeyEstablishmentClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfKeyEstablishmentClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfKeyEstablishmentClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfKeyEstablishmentClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

ZLL Commissioning Cluster Callbacks

- boolean `emberAfZllCommissioningClusterScanRequestCallback` (int32u transaction, int8u zigbeeInformation, int8u zllInformation)
- boolean `emberAfZllCommissioningClusterDeviceInformationRequestCallback` (int32u transaction, int8u startIndex)
- boolean `emberAfZllCommissioningClusterIdentifyRequestCallback` (int32u transaction, int16u identifyDuration)
- boolean `emberAfZllCommissioningClusterResetToFactoryNewRequestCallback` (int32u transaction)
- boolean `emberAfZllCommissioningClusterNetworkStartRequestCallback` (int32u transaction, int8u *extendedPanId, int8u keyIndex, int8u *encryptedNetworkKey, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd, int8u *initiatorIeeeAddress, int16u initiatorNetworkAddress)
- boolean `emberAfZllCommissioningClusterNetworkJoinRouterRequestCallback` (int32u transaction, int8u *extendedPanId, int8u keyIndex, int8u *encryptedNetworkKey, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd)
- boolean `emberAfZllCommissioningClusterNetworkJoinEndDeviceRequestCallback` (int32u transaction, int8u *extendedPanId, int8u keyIndex, int8u *encryptedNetworkKey, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd)
- boolean `emberAfZllCommissioningClusterNetworkUpdateRequestCallback` (int32u transaction, int8u *extendedPanId, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress)
- boolean `emberAfZllCommissioningClusterGetGroupIdentifiersRequestCallback` (int8u startIndex)
- boolean `emberAfZllCommissioningClusterGetEndpointListRequestCallback` (int8u startIndex)
- boolean `emberAfZllCommissioningClusterScanResponseCallback` (int32u transaction, int8u rssiCorrection, int8u zigbeeInformation, int8u zllInformation, int16u keyBitmask, int32u responseId, int8u *extendedPanId, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress, int8u numberOfSubDevices, int8u totalGroupIds, int8u endpointId, int16u profileId, int16u deviceId, int8u version, int8u groupIdCount)
- boolean `emberAfZllCommissioningClusterDeviceInformationResponseCallback` (int32u transaction, int8u numberOfSubDevices, int8u startIndex, int8u deviceInformationRecordCount, int8u *deviceInformationRecordList)
- boolean `emberAfZllCommissioningClusterNetworkStartResponseCallback` (int32u transaction, int8u status, int8u *extendedPanId, int8u networkUpdateId, int8u logicalChannel, int16u panId)
- boolean `emberAfZllCommissioningClusterNetworkJoinRouterResponseCallback` (int32u transaction, int8u status)
- boolean `emberAfZllCommissioningClusterNetworkJoinEndDeviceResponseCallback` (int32u transaction, int8u status)
- boolean `emberAfZllCommissioningClusterEndpointInformationCallback` (int8u *ieeeAddress, int16u networkAddress, int8u endpointId, int16u profileId, int16u deviceId, int8u version)
- boolean `emberAfZllCommissioningClusterGetGroupIdentifiersResponseCallback` (int8u total, int8u startIndex, int8u count, int8u *groupInformationRecordList)
- boolean `emberAfZllCommissioningClusterGetEndpointListResponseCallback` (int8u total, int8u startIndex, int8u count, int8u *endpointInformationRecordList)
- void `emberAfZllCommissioningClusterServerInitCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterClientInitCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterServerTickCallback` (int8u endpoint)

- void `emberAfZllCommissioningClusterClientTickCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfZllCommissioningClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfZllCommissioningClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfZllCommissioningClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfZllCommissioningClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfZllCommissioningClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfZllCommissioningClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfZllCommissioningClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Sample Mfg Specific Cluster Cluster Callbacks

- boolean `emberAfSampleMfgSpecificClusterCommandOneCallback` (int8u argOne)
- void `emberAfSampleMfgSpecificClusterServerInitCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterClientInitCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterServerTickCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterClientTickCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSampleMfgSpecificClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSampleMfgSpecificClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSampleMfgSpecificClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSampleMfgSpecificClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSampleMfgSpecificClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSampleMfgSpecificClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfSampleMfgSpecificClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

6.4.1 Detailed Description

This header provides callback function prototypes for the Basic server cluster application framework plugin.

This header provides callback function prototypes to interface the developer's application code with the Ember Application Framework.

This header provides callback function prototypes for the Demand response load control cluster client application framework plugin.

This header provides callback function prototypes for the Interpan Plugin application framework plugin.

This header provides callback function prototypes for the Messaging client cluster application framework plugin.

This header provides callback function prototypes for the Network Find application framework plugin.

This header provides callback function prototypes for the Price client plugin application framework plugin.

This header provides callback function prototypes for the Reporting application framework plugin.

This header provides callback function prototypes for the Simple metering client application framework plugin.

This header provides callback function prototypes for the Tunneling client cluster application framework plugin.

This header provides callback function prototypes for the Tunneling server cluster application framework plugin.

This header provides callback function prototypes for the ZLL Commissioning application framework plugin.

This header provides callback function prototypes for the ZLL On/Off server cluster enhancements application framework plugin.

6.4.2 Function Documentation

6.4.2.1 void emberAfPluginBasicResetToFactoryDefaultsCallback (void)

Reset To Factory Defaults.

This function is called by the Basic server plugin when a request to reset to factory defaults is received. The plugin will reset attributes managed by the framework to their default values. The application should perform any other necessary reset-related operations in this callback, including resetting any externally-stored attributes.

6.4.2.2 boolean emberAfReadAttributesResponseCallback (EmberAfClusterId *clusterId*, int8u * *buffer*, int16u *bufLen*)

Read Attributes Response.

This function is called by the application framework when a Read Attributes Response command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------------|---|
| <i>clusterId</i> | The cluster identifier of this response. Ver.: always |
| <i>buffer</i> | Buffer containing the list of read attribute status records. Ver.: always |
| <i>bufLen</i> | The length in bytes of the list. Ver.: always |

6.4.2.3 boolean emberAfWriteAttributesResponseCallback (EmberAfClusterId *clusterId*, int8u * *buffer*, int16u *bufLen*)

Write Attributes Response.

This function is called by the application framework when a Write Attributes Response command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------------|--|
| <i>clusterId</i> | The cluster identifier of this response. Ver.: always |
| <i>buffer</i> | Buffer containing the list of write attribute status records. Ver.: always |
| <i>bufLen</i> | The length in bytes of the list. Ver.: always |

6.4.2.4 boolean emberAfConfigureReportingResponseCallback (EmberAfClusterId *clusterId*, int8u * *buffer*, int16u *bufLen*)

Configure Reporting Response.

This function is called by the application framework when a Configure Reporting Response command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------------|--|
| <i>clusterId</i> | The cluster identifier of this response. Ver.: always |
| <i>buffer</i> | Buffer containing the list of attribute status records. Ver.: always |
| <i>bufLen</i> | The length in bytes of the list. Ver.: always |

6.4.2.5 boolean emberAfReadReportingConfigurationResponseCallback (EmberAfClusterId *clusterId*, int8u * *buffer*, int16u *bufLen*)

Read Reporting Configuration Response.

This function is called by the application framework when a Read Reporting Configuration Response command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------------|---|
| <i>clusterId</i> | The cluster identifier of this response. Ver.: always |
| <i>buffer</i> | Buffer containing the list of attribute reporting configuration records. Ver.: always |
| <i>bufLen</i> | The length in bytes of the list. Ver.: always |

6.4.2.6 boolean emberAfReportAttributesCallback (EmberAfClusterId *clusterId*, int8u * *buffer*, int16u *bufLen*)

Report Attributes.

This function is called by the application framework when a Report Attributes command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------------|--|
| <i>clusterId</i> | The cluster identifier of this command. Ver.: always |
| <i>buffer</i> | Buffer containing the list of attribute report records. Ver.: always |
| <i>bufLen</i> | The length in bytes of the list. Ver.: always |

6.4.2.7 boolean emberAfDefaultResponseCallback (EmberAfClusterId *clusterId*, int8u *commandId*, EmberAfStatus *status*)

Default Response.

This function is called by the application framework when a Default Response command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------------|---|
| <i>clusterId</i> | The cluster identifier of this response. Ver.: always |
| <i>commandId</i> | The command identifier to which this is a response. Ver.: always |
| <i>status</i> | Specifies either SUCCESS or the nature of the error that was detected in the received command. Ver.: always |

6.4.2.8 boolean emberAfDiscoverAttributesResponseCallback (EmberAfClusterId *clusterId*, boolean *discoveryComplete*, int8u * *buffer*, int16u *bufLen*)

Discover Attributes Response.

This function is called by the application framework when a Discover Attributes Response command is received from an external device. The Discover Attributes Response command contains a boolean indicating if discovery is complete and a list of zero or more attribute identifier/type records. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|--------------------------|---|
| <i>clusterId</i> | The cluster identifier of this response. Ver.: always |
| <i>discoveryComplete</i> | Indicates whether there are more attributes to be discovered. TRUE if there are no more attributes to be discovered. Ver.: always |
| <i>buffer</i> | Buffer containing the list of attribute identifier/type records. Ver.: always |
| <i>bufLen</i> | The length in bytes of the list. Ver.: always |

6.4.2.9 EmberAfAttributeWritePermission emberAfAllowNetworkWriteAttributeCallback (int8u *endpoint*, EmberAfClusterId *clusterId*, EmberAfAttributeId *attributeId*, int8u *mask*, int16u *manufacturerCode*, int8u * *value*, int8u *type*)

Allow Network Write Attribute.

This function is called by the application framework before it writes an attribute in response to a write attribute request from an external device. The value passed into this callback is the value to which the attribute is to be set by the framework. The application framework expects one of three possible values 0=Do not allow write, 1=Allow write normal (attribute must be writeable), 2=Allow write for a read only attribute.

Parameters

| | |
|-------------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>attributeId</i> | Ver.: always |
| <i>mask</i> | Ver.: always |
| <i>manufacturerCode</i> | Ver.: always |
| <i>value</i> | Ver.: always |
| <i>type</i> | Ver.: always |

6.4.2.10 void emberAfPreAttributeChangeCallback (int8u *endpoint*, EmberAfClusterId *clusterId*, EmberAfAttributeId *attributeId*, int8u *mask*, int16u *manufacturerCode*, int8u *type*, int8u *size*, int8u * *value*)

Pre Attribute Change.

This function is called by the application framework before it changes an attribute value. The value passed into this callback is the value to which the attribute is to be set by the framework.

Parameters

| | |
|-------------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>attributeId</i> | Ver.: always |
| <i>mask</i> | Ver.: always |
| <i>manufacturerCode</i> | Ver.: always |
| <i>type</i> | Ver.: always |
| <i>size</i> | Ver.: always |
| <i>value</i> | Ver.: always |

6.4.2.11 void emberAfPostAttributeChangeCallback (int8u *endpoint*, EmberAfClusterId *clusterId*, EmberAfAttributeId *attributeId*, int8u *mask*, int16u *manufacturerCode*, int8u *type*, int8u *size*, int8u * *value*)

Post Attribute Change.

This function is called by the application framework after it changes an attribute value. The value passed into this callback is the value to which the attribute was set by the framework.

Parameters

| | |
|-------------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>attributeId</i> | Ver.: always |
| <i>mask</i> | Ver.: always |
| <i>manufacturerCode</i> | Ver.: always |
| <i>type</i> | Ver.: always |
| <i>size</i> | Ver.: always |
| <i>value</i> | Ver.: always |

6.4.2.12 boolean emberAfPreMessageReceivedCallback (EmberAfIncomingMessage * *incomingMessage*)

Pre Message Received.

This function is called by the application framework when a raw message is received but has not yet been parsed by the application framework. This function should return a boolean value indicating whether the message has been handled by the user application code and should be ignored by the AppFramework. - By default, this callback returns FALSE indicating that the message has not been handled and should be handled by the AppFramework. This function receives a pointer to a struct containing the super set of arguments sent to the emberIncomingMessageHandler and the ezspIncomingMessageHandler.

Parameters

| | |
|-------------------------|--------------|
| <i>incoming-Message</i> | Ver.: always |
|-------------------------|--------------|

6.4.2.13 boolean emberAfPreCommandReceivedCallback (EmberAfClusterCommand * *cmd*)

Pre Command Received.

This function is called by the application framework when a command is received but has yet to be handled by the framework code. This function should return a boolean value indicating whether the command has been handled by the user application code and should be ignored by the AppFramework. By default, this callback returns FALSE indicating that the message has not been handled and should be handled by the

Parameters

| | |
|------------|--------------|
| <i>cmd</i> | Ver.: always |
|------------|--------------|

6.4.2.14 boolean emberAfPreZDOMessageReceivedCallback (EmberNodeId *emberNodeId*, EmberApsFrame * *apsFrame*, int8u * *message*, int16u *length*)

Pre ZDO Message Received.

This function passes the application an incoming ZDO message and gives the application the opportunity to handle it. By default, this callback returns FALSE indicating that the incoming ZDO message has not been handled and should be handled by the Application Framework.

Parameters

| | |
|--------------------|--------------|
| <i>emberNodeId</i> | Ver.: always |
| <i>apsFrame</i> | Ver.: always |
| <i>message</i> | Ver.: always |
| <i>length</i> | Ver.: always |

6.4.2.15 boolean emberAfMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Message Sent.

This function is called by the application framework from the message sent handler, when it is informed by the stack regarding the message sent status. All of the values passed to the emberMessageSentHandler are passed on to this callback. This provides an opportunity for the application to verify that its message has been sent successfully and take the appropriate action. This callback should return a boolean value of TRUE or FALSE. A value of TRUE indicates that the message sent notification has been handled and should not be handled by the application framework.

Parameters

| | |
|---------------------------|--------------|
| <i>type</i> | Ver.: always |
| <i>indexOrDestination</i> | Ver.: always |
| <i>apsFrame</i> | Ver.: always |
| <i>msgLen</i> | Ver.: always |
| <i>message</i> | Ver.: always |
| <i>status</i> | Ver.: always |

6.4.2.16 boolean emberAfStackStatusCallback (EmberStatus *status*)

Stack Status.

This function is called by the application framework from the stack status handler. This callbacks provides applications an opportunity to be notified of changes to the stack status and take appropriate action. The return code from this callback is ignored by the framework. The framework will always process the stack status after the callback returns.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.17 void emberAfNcpInitCallback (boolean *memoryAllocation*)

Ncp Init.

This callback is used for initializing the network coprocessor either at startup, or upon reset. It is should be used to perform any kind of EZSP initialization and is called twice every time when NCP is reset. In the first invocation, memoryAllocation will be TRUE and the application should only issue EZSP commands that affect memory allocation on the NCP. In the second invocation, memoryAllocation will be FALSE and the application should only issue EZSP commands that do not affect memory allocation on the NCP. In an SOC environment, this callbacks is not used.

Parameters

| | |
|-------------------------|--------------|
| <i>memoryAllocation</i> | Ver.: always |
|-------------------------|--------------|

6.4.2.18 void emberAfMainInitCallback (void)

Main Init.

This is the main application initialization callback. It is called prior to application initialization and gives the application a chance to take care of any of its own initialization procedures.

6.4.2.19 void emberAfClusterInitCallback (int8u *endpoint*, EmberAfClusterId *clusterId*)

Cluster Init.

This function is called when a specific cluster is initialized. It gives the application an opportunity to take care of cluster initialization procedures. It is called exactly once for each endpoint where cluster is present.

Parameters

| | |
|------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |

6.4.2.20 boolean emberAfPreGoToSleepCallback (int32u *sleepDurationAttempt*)

Pre Go To Sleep.

Called directly before a device goes to sleep. This function is passed the number of milliseconds the device is attempting to go to sleep for. This function returns a boolean indicating if sleep should be canceled. A returned value of TRUE indicates that sleep should be canceled. A return value of FALSE (default) indicates that sleep may continue as expected.

Parameters

| | |
|-----------------------------|--------------|
| <i>sleepDurationAttempt</i> | Ver.: always |
|-----------------------------|--------------|

6.4.2.21 void emberAfPostWakeUpCallback (int32u *sleepDuration*)

Post Wake Up.

Called directly after a device wakes up from sleep. This function is passed the number of milliseconds the device actually slept for.

Parameters

| | |
|----------------------|--------------|
| <i>sleepDuration</i> | Ver.: always |
|----------------------|--------------|

6.4.2.22 void emberAfMainTickCallback (void)

Main Tick.

Whenever main application tick is called, this callback will be called at the end of the main tick execution.

6.4.2.23 boolean emberAfExternalAttributeWriteCallback (int8u *endpoint*, EmberAfClusterId *clusterId*, EmberAfAttributeMetadata * *attributeMetadata*, int16u *manufacturerCode*, int8u * *buffer*)

External Attribute Write.

This callback is called for whenever an attribute is written, if this attribute was tagged to be stored externally. Function should return true if write was successful and false if not. Upon successful exit, the data from the passed buffer should be stored as the current value of the attribute. Important to note is, that if

this method ever returns false, then it is possible to break contract of the write-undivided-attributes global command. That command checks for ranges and attribute existence, but if this method returns false, when the attribute is finally written, then the contract of writing all or no attributes will be broken.

Parameters

| | |
|---------------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>attribute-Metadata</i> | Ver.: always |
| <i>manufacturer-Code</i> | Ver.: always |
| <i>buffer</i> | Ver.: always |

6.4.2.24 boolean emberAfExternalAttributeReadCallback (int8u *endpoint*, EmberAfClusterId *clusterId*, EmberAfAttributeMetadata * *attributeMetadata*, int16u *manufacturerCode*, int8u * *buffer*)

External Attribute Read.

If an attribute is tagged to be stored externally, this function will be called whenever that attribute is read. This function should return TRUE if read was successful and FALSE if not. The passed buffer should be populated with the associated attributes value.

Parameters

| | |
|---------------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>attribute-Metadata</i> | Ver.: always |
| <i>manufacturer-Code</i> | Ver.: always |
| <i>buffer</i> | Ver.: always |

6.4.2.25 void emberAfTrustCenterJoinCallback (EmberNodeId *newNodeId*, EmberEUI64 *newNodeEui64*, EmberNodeId *parentOfNewNode*, EmberDeviceUpdate *status*, EmberJoinDecision *decision*)

Trust Center Join.

This callback is called from within the application framework's implementation of emberTrustCenterJoinHandler or ezspTrustCenterJoinHandler. This callback provides the same arguments passed to the TrustCenterJoinHandler. For more information about the TrustCenterJoinHandler please see documentation included in stack/include/trust-center.h.

Parameters

| | |
|-------------------------|--------------|
| <i>newNodeId</i> | Ver.: always |
| <i>newNodeEui64</i> | Ver.: always |
| <i>parentOfNew-Node</i> | Ver.: always |
| <i>status</i> | Ver.: always |
| <i>decision</i> | Ver.: always |

6.4.2.26 int32u emberAfGetCurrentTimeCallback (void)

Get Current Time.

This callback is called when device attempts to get current time from the hardware. If this device has means to retrieve exact time, then this method should implement it. If the callback can't provide the exact time it should return 0 to indicate failure. Default action is to return 0, which indicates that device does not have access to real time.

6.4.2.27 void emberAfSetTimeCallback (int32u *utcTime*)

Set Time.

This callback should be implemented, if the device has access to real time clock, and has an ability to update that clock. The application framework expects to be passed the *utcTime* which is the number of seconds since the year 2000. Default implementation does nothing. Note: This function used to take time in year, month, day, hour, min, sec. We have changed this to *utcTime* in order to conserve code space.

Parameters

| | |
|----------------|--------------|
| <i>utcTime</i> | Ver.: always |
|----------------|--------------|

6.4.2.28 EmberStatus emberAfInitiateKeyEstablishmentCallback (EmberNodeid *nodeId*, int8u *endpoint*)

Initiate Key Establishment.

This function is called by the framework to initiate key establishment with a remote device. The application should return EMBER_SUCCESS if key establishment was initiated successfully. The application should call [emberAfKeyEstablishmentCallback](#) as events occur.

Parameters

| | |
|-----------------|---|
| <i>nodeId</i> | The node id of the remote device. Ver.: always |
| <i>endpoint</i> | The endpoint on the remote device. Ver.: always |

6.4.2.29 EmberStatus emberAfInitiateInterPanKeyEstablishmentCallback (EmberPanid *panId*, const EmberEUI64 *eui64*)

Initiate Inter Pan Key Establishment.

This function is called by the framework to initiate key establishment with a remote device on a different PAN. The application should return EMBER_SUCCESS if key establishment was initiated successfully. The application should call [emberAfInterPanKeyEstablishmentCallback](#) as events occur.

Parameters

| | |
|--------------|---|
| <i>panId</i> | The PAN id of the remote device. Ver.: always |
| <i>eui64</i> | The EUI64 of the remote device. Ver.: always |

6.4.2.30 boolean emberAfKeyEstablishmentCallback (EmberAfKeyEstablishmentNotifyMessage status, boolean amInitiator, EmberNodeID partnerShortId, int8u delayInSeconds)

Key Establishment.

A callback by the key-establishment code to indicate an event has occurred. For error codes this is purely a notification. For non-error status codes (besides LINK_KEY_ESTABLISHED), it is the application's chance to allow or disallow the operation. If the application returns TRUE then the key establishment is allowed to proceed. If it returns FALSE, then key establishment is aborted. LINK_KEY_ESTABLISHED is a notification of success.

Parameters

| | |
|-----------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>amInitiator</i> | Ver.: always |
| <i>partnerShortId</i> | Ver.: always |
| <i>delayInSeconds</i> | Ver.: always |

6.4.2.31 boolean emberAfInterPanKeyEstablishmentCallback (EmberAfKeyEstablishmentNotify-Message status, boolean amInitiator, EmberPanID panId, const EmberEUI64 eui64, int8u delayInSeconds)

Inter Pan Key Establishment.

A callback by the key-establishment code to indicate an event has occurred. For error codes this is purely a notification. For non-error status codes (besides LINK_KEY_ESTABLISHED), it is the application's chance to allow or disallow the operation. If the application returns TRUE then the key establishment is allowed to proceed. If it returns FALSE, then key establishment is aborted. LINK_KEY_ESTABLISHED is a notification of success.

Parameters

| | |
|-----------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>amInitiator</i> | Ver.: always |
| <i>panId</i> | Ver.: always |
| <i>eui64</i> | Ver.: always |
| <i>delayInSeconds</i> | Ver.: always |

6.4.2.32 boolean emberAfPerformingKeyEstablishmentCallback (void)

Performing Key Establishment.

This function is called by the framework to determine if the device is performing key establishment. The application should return TRUE if key establishment is in progress.

6.4.2.33 EmberStatus emberAfInitiatePartnerLinkKeyExchangeCallback (EmberNodeID target, int8u endpoint, EmberAfPartnerLinkKeyExchangeCallback * callback)

Initiate Partner Link Key Exchange.

This function is called by the framework to initiate a partner link key exchange with a remote device. The application should return EMBER_SUCCESS if the partner link key exchange was initiated successfully. When the partner link key exchange completes, the application should call the given callback.

Parameters

| | |
|-----------------|--|
| <i>target</i> | The node id of the remote device. Ver.: always |
| <i>endpoint</i> | The key establishment endpoint of the remote device. Ver.: always |
| <i>callback</i> | The callback that should be called when the partner link key exchange complets. Ver.: always |

6.4.2.34 EmberStatus emberAfPartnerLinkKeyExchangeRequestCallback (EmberEUI64 *partner*)

Partner Link Key Exchange Request.

This function is called by the framework on SOC platforms when a remote node requests a partner link key exchange. The application should return EMBER_SUCCESS to accept the request or any other status to reject it. On network coprocessor platforms, this function will not be called because the NCP handles partner link key exchange requests based on the binding policy.

Parameters

| | |
|----------------|--|
| <i>partner</i> | The EUI of the remote node. Ver.: always |
|----------------|--|

6.4.2.35 void emberAfPartnerLinkKeyExchangeResponseCallback (EmberNodeid *sender*, EmberZdoStatus *status*)

Partner Link Key Exchange Response.

This function is called by the framework when a remote node requests a partner link key exchange. The application should return TRUE to accept the request or FALSE to reject it. On network coprocessor platforms, this function will not be called because the NCP handles partner link key exchange requests based on the binding policy.

Parameters

| | |
|---------------|--|
| <i>sender</i> | The EUI of the remote node. Ver.: always |
| <i>status</i> | The ZDO response status. Ver.: always |

6.4.2.36 EmberStatus emberAfRegistrationStartCallback (void)

Registration Start.

This callback is called when the device joins a network and the registration process should begin. The application should return EMBER_SUCCESS if the registration process started successfully. When registration is complete, the application should call emberAfRegistrationCallback with an indication of success or failure.

6.4.2.37 void emberAfRegistrationAbortCallback (void)

Registration Abort.

This callback is called when the device should abort the registration process.

6.4.2.38 void emberAfRegistrationCallback (boolean *success*)

Registration.

This callback is called when the device joins a network and the process of registration is complete. This callback provides a success value of TRUE if the registration process was successful and a value of FALSE if registration failed.

Parameters

| | |
|----------------|---|
| <i>success</i> | TRUE if registration succeeded, FALSE otherwise. Ver.: always |
|----------------|---|

6.4.2.39 void emberAfTrustCenterKeepaliveUpdateCallback (boolean *registrationComplete*)

Trust Center Keepalive Update.

This callback is called when the device finishes registration (successfully or otherwise) and the trust center keepalive process must be updated. If the keepalive process has not been started, then it is started. - Otherwise if the keepalive is in the process of searching for the TC, it will process the result of that Trust Center search operation.

Parameters

| | |
|---|--------------|
| <i>registration-</i> <i>Complete</i> | Ver.: always |
|---|--------------|

6.4.2.40 void emberAfTrustCenterKeepaliveAbortCallback (void)

Trust Center Keepalive Abort.

This callback is called when the device should abort the trust center keepalive process.

6.4.2.41 boolean emberAfOtaServerIncomingMessageRawCallback (EmberAfClusterCommand * *message*)

Ota Server Incoming Message Raw.

This callback is for processing incoming messages for the Over-the-air bootload cluster server. ZCL will not process the message and instead hand the raw over the air data to the callback for its own processing.

Parameters

| | |
|----------------|--|
| <i>message</i> | A pointer to the structure containing the message buffer and other information about it. Ver.: always |
|----------------|--|

6.4.2.42 boolean emberAfOtaServerSendImageNotifyCallback (EmberNodeid *dest*, int8u *endpoint*, int8u *payloadType*, int8u *queryJitter*, const EmberAfOtaImageId * *id*)

Ota Server Send Image Notify.

This callback is an indication to the OTA server that it should send out notification about an OTA file that is available for download.

Parameters

| | |
|--------------------|---|
| <i>dest</i> | The destination of the image notify message. May be a broadcast address. Ver.: always |
| <i>endpoint</i> | The destination endpoint of the image notify message. May be a broadcast endpoint. Ver.: always |
| <i>payloadType</i> | The type of data the image notify message will contain. 0 = no data. 1 = Manufacturer ID. 2 = Manufacturer ID and the image type ID. 3 = Manufacturer ID, image type ID, and firmware version. Ver.: always |
| <i>queryJitter</i> | The percentage of nodes that should respond to this message, from 1-100. On receipt of this message, each recipient will randomly choose a percentage and only query the server if their percentage is below this value. Ver.: always |
| <i>id</i> | The image information that will be put in the message. The data within this struct that will be appended to the message is determined by the previous 'payloadType' argument. Ver.: always |

6.4.2.43 boolean emberAfOtaStorageDriverInitCallback (void)

Ota Storage Driver Init.

The initialization code for the OTA storage driver.

6.4.2.44 boolean emberAfOtaStorageDriverReadCallback (int32u offset, int32u length, int8u * returnData)

Ota Storage Driver Read.

This callback defines the low-level means by which a device reads from the OTA storage device.

Parameters

| | |
|-------------------|--|
| <i>offset</i> | The address offset from the start of the storage device where data is to be read. Ver.: always |
| <i>length</i> | Ver.: always |
| <i>returnData</i> | A pointer where the data read from the device should be written to. Ver.: always |

6.4.2.45 boolean emberAfOtaStorageDriverWriteCallback (const int8u * dataToWrite, int32u offset, int32u length)

Ota Storage Driver Write.

This callback defines the low-level means by which a device writes to the OTA storage device.

Parameters

| | |
|--------------------|--|
| <i>dataToWrite</i> | A pointer to the data that will be written to the storage device. Ver.: always |
| <i>offset</i> | The address offset from the start of the storage device where data will be written. Ver.: always |
| <i>length</i> | The length of the data to be written to the storage device. Ver.: always |

6.4.2.46 void emberAfOtaStorageDriverDownloadFinishCallback (int32u offset)

Ota Storage Driver Download Finish.

This callback defines the low-level means by which a device records the final offset value of the download image.

Parameters

| | |
|---------------|---|
| <i>offset</i> | The value of the final offset of the image download. Ver.: always |
|---------------|---|

6.4.2.47 int32u emberAfOtaStorageDriverRetrieveLastStoredOffsetCallback (void)

Ota Storage Driver Retrieve Last Stored Offset.

This callback defines the low-level means by which a device retrieves the last persistently recorded download offset. This may be different than last actual download offset.

6.4.2.48 EmberAfOtaStorageStatus emberAfOtaStorageDriverInvalidateImageCallback (void)

Ota Storage Driver Invalidate Image.

This callback invalidates the image stored on disk so that it will not be booted, and it will not be a valid image that is in the middle of downloading.

6.4.2.49 EmberAfOtaStorageStatus emberAfOtaStorageDriverPrepareToResumeDownload-Callback (void)

Ota Storage Driver Prepare To Resume Download.

This callback allows the underlying storage driver to prepare to resume the OTA file download. For example, the driver may execute a page erase to insure the next page is ready to be written to.

6.4.2.50 int8u emberAfOtaBootloadCallback (const EmberAfOtaImageId * id, int16u ncpUpgradeTagId)

Ota Bootload.

The platform specific routine to bootload the device from a ZigBee over-the-air upgrade file.

Parameters

| | |
|-------------------------|---|
| <i>id</i> | A pointer to the structure that contains the information about what OTA image to bootload. Ver.: always |
| <i>ncpUpgrade-TagId</i> | The tag ID of the upgrade data that will be used to bootload the device. Ver.: always |

6.4.2.51 EmberAfOtaStorageStatus emberAfOtaStorageInitCallback (void)

Ota Storage Init.

This callback initializes the ZigBee Over-the-air storage module.

6.4.2.52 void emberAfOtaStorageCloseCallback (void)

Ota Storage Close.

This callback shuts down the ZigBee Over-the-air storage module.

6.4.2.53 int8u emberAfOtaStorageGetCountCallback (void)

Ota Storage Get Count.

This callback returns the total number of ZigBee Over-the-air upgrade images stored in the storage module.

6.4.2.54 EmberAfOtaImageId emberAfOtaStorageSearchCallback (int16u *manufacturerId*, int16u *imageTypeId*, const int16u * *hardwareVersion*)

Ota Storage Search.

This callback searches through the list of all images for one that matches the passed parameters. On success an image identifier is returned with a matching image. On failure emberAfInvalidImageId is returned.

Parameters

| | |
|-------------------------|---|
| <i>manufacturerId</i> | The ZigBee assigned identifier of the manufacturer contained in the OTA image being searched for. Ver.: always |
| <i>imageTypeId</i> | The image type identifier contained in the OTA image being searched for. Ver.: always |
| <i>hardware-Version</i> | This is a pointer to the hardware version that will be used in the search. If the pointer is NULL, hardware version will not be considered when searching for matching images. If it points to a value, the search will only consider images where that value falls between the minimum and maximum hardware version specified in the OTA file. If no hardware version is present in an OTA file but the other parameters match, the file will be considered a match Ver.: always |

6.4.2.55 int32u emberAfOtaStorageGetTotalImageSizeCallback (const EmberAfOtaImageId * *id*)

Ota Storage Get Total Image Size.

This function returns the total size of the ZigBee Over-the-air file with the passed parameters. If no file is found with those parameters, 0 is returned.

Parameters

| | |
|-----------|--|
| <i>id</i> | A pointer to the image identifier for the OTA file to retrieve information for. Ver.: always |
|-----------|--|

6.4.2.56 EmberAfOtaImageId emberAfOtaStorageIteratorFirstCallback (void)

Ota Storage Iterator First.

This callback lets you walk through the list of all OTA files by jumping to the first file in the list maintained by the storage module. If there is no file then emberAfOtaInvalidImageId is returned.

6.4.2.57 EmberAfOtaImageId emberAfOtaStorageIteratorNextCallback (void)

Ota Storage Iterator Next.

This callback lets you walk through the list of all OTA files by jumping to the next file in the list maintained by the storage module. If there is no next file then emberAfOtaInvalidImageId is returned.

6.4.2.58 EmberAfOtaStorageStatus emberAfOtaStorageGetFullHeaderCallback (const EmberAfOtaImageId * id, EmberAfOtaHeader * returnData)

Ota Storage Get Full Header.

This callback populates the [EmberAfOtaHeader](#) structure pointed to by the returnData with data about the OTA file stored in the storage module.

Parameters

| | |
|-------------------|---|
| <i>id</i> | This is a pointer to the image id for the OTA file to retrieve information about. Ver.: always |
| <i>returnData</i> | This is a pointer to the location of the structure that will be populated with data. Ver.: always |

6.4.2.59 EmberAfOtaStorageStatus emberAfOtaStorageReadImageDataCallback (const EmberAfOtaImageId * id, int32u offset, int32u length, int8u * returnData, int32u * returnedLength)

Ota Storage Read Image Data.

This callback reads data from the specified OTA file and returns that data to the caller.

Parameters

| | |
|-----------------------|--|
| <i>id</i> | This is a pointer to the image id for the OTA file to retrieve data from. Ver.: always |
| <i>offset</i> | This is the offset relative to the start of the image where the data should be read from. Ver.: always |
| <i>length</i> | This is the length of data that will be read. Ver.: always |
| <i>returnData</i> | This is a pointer to where the data read out of the file will be written to Ver.: always |
| <i>returnedLength</i> | This is a pointer to a variable where the actual length of data read will be written to. A short read may occur if the end of file was reached. Ver.: always |

6.4.2.60 EmberAfOtaStorageStatus emberAfOtaStorageClearTempDataCallback (void)

Ota Storage Clear Temp Data.

This function clears any existing temp data that was downloaded. It is used immediately prior to downloading a raw image over the air.

6.4.2.61 EmberAfOtaStorageStatus emberAfOtaStorageWriteTempDataCallback (int32u offset, int32u length, const int8u * data)

Ota Storage Write Temp Data.

This function writes to the temporary data in the storage device at the specified offset. It is used when downloading a raw image over the air.

Parameters

| | |
|---------------|--|
| <i>offset</i> | The location within the download image file where to write the data. Ver.: always |
| <i>length</i> | The length of data to write. Ver.: always |
| <i>data</i> | A pointer to the temporary data that will be written to the storage device. Ver.: always |

6.4.2.62 EmberAfOtaStorageStatus emberAfOtaStorageCheckTempDataCallback (int32u * *currentOffset*, int32u * *totalImageSize*, EmberAfOtaImageId * *newFileInfo*)

Ota Storage Check Temp Data.

This callback will validate temporary data in the storage device to determine whether it is a complete file, a partially downloaded file, or there is no file present. When a complete or partial file is found it will return EMBER_AF_OTA_STORAGE_SUCCESS or EMBER_AF_OTA_STORAGE_PARTIAL_FILE_FOUND, respectively. In that case, the currentOffset, totalImageSize, and newFileInfo will be populated with data. When EMBER_AF_OTA_STORAGE_ERROR is returned, no temporary data is present.

Parameters

| | |
|-----------------------|---|
| <i>currentOffset</i> | A pointer to a value that will be written with the offset within the total file size that has been successfully stored in the storage device. This will indicate how much data has been currently dowloaded. Ver.: always |
| <i>totalImageSize</i> | A pointer to a value that will be written with the total image size of the OTA file when a download has completed. This does not indicate how much data has actually been downloaded currently. Ver.: always |
| <i>newFileInfo</i> | This is the image id of the temporary file data stored in the storage device. Ver.: always |

6.4.2.63 EmberAfOtaStorageStatus emberAfOtaStorageFinishDownloadCallback (int32u *offset*)

Ota Storage Finish Download.

This function indicates to the storage module that the download has finished.

Parameters

| | |
|---------------|--|
| <i>offset</i> | The final offset of the downloaded file (i.e. the total size) Ver.: always |
|---------------|--|

6.4.2.64 boolean emberAfOtaClientIncomingMessageRawCallback (EmberAfClusterCommand * *message*)

Ota Client Incoming Message Raw.

This callback is for processing incoming messages for the Over-the-air bootload cluster client. ZCL will not process the message and instead hand the raw over the air data to the callback for its own processing.

Parameters

| | |
|----------------|---|
| <i>message</i> | A pointer to the structure containing the message buffer and other information about it. Ver.: always |
|----------------|---|

6.4.2.65 void emberAfOtaClientStartCallback (void)

Ota Client Start.

This callback should be called when the profile specific registration has completed successfully. It will start the client's state machine that will find the OTA server, query it for the next image, download the image, wait for the bootload message, and kick off the bootload.

6.4.2.66 void emberAfOtaClientVersionInfoCallback (EmberAfOtaImageId * *currentImageInfo*, int16u * *hardwareVersion*)

Ota Client Version Info.

This function is called by the OTA client when a new query will occur to the server asking what the next version of firmware is. The client can inform the cluster software as to what information to use in the query (and subsequent download).

Parameters

| | |
|--------------------------|---|
| <i>currentImage-Info</i> | This is the information to use in the next query by the client cluster code. It contains the manufacturer ID, image type ID, and the firmware version to be specified in the query message sent to the server. Ver.: always |
| <i>hardware-Version</i> | This is a pointer to the hardware version to use in the query. If no hardware version should be used, then EMBER_AF_INVALID_HARDWARE_VERSION should be used. Ver.: always |

6.4.2.67 EmberAfImageVerifyStatus emberAfOtaClientCustomVerifyCallback (boolean *newVerification*, const EmberAfOtaImageId * *id*)

Ota Client Custom Verify.

This callback is executed by the OTA client after the signature verification has successfully completed. It allows the device to do its own custom verification of the image (such as verifying that the EBL is intact).

Parameters

| | |
|------------------------|--|
| <i>newVerification</i> | This indicates if a new verification should be started. Ver.: always |
| <i>id</i> | This is ID of the image to be verified. Ver.: always |

6.4.2.68 boolean emberAfOtaClientDownloadCompleteCallback (boolean *success*, const EmberAfOtaImageId * *id*)

Ota Client Download Complete.

This callback indicates that the OTA client has completed the download of a file. If the file has been completely downloaded and cryptographic checks have been turned on, then those will be performed prior to this callback and that outcome included in the 'success' result. On failure, this callback is merely informative, and the return type is ignored. On successful download, this callback allows the client to perform any additional verification of the downloaded image and return that result to the OTA server.

Parameters

| | |
|----------------|--|
| <i>success</i> | This indicates the success or failure of the download and cryptographic verification process (if applicable). Ver.: always |
| <i>id</i> | This is the image identifier information that corresponds to the download result. Ver.: always |

6.4.2.69 void emberAfOtaClientBootloadCallback (const EmberAfOtaImageId * *id*)

Ota Client Bootload.

This callback is fired when the OTA Client receives a command to bootload the newly downloaded OTA image. This callback will perform the platform specific to bootload their device.

Parameters

| | |
|-----------|---|
| <i>id</i> | This is the identifier relating to the image that has been downloaded and is ready for bootload. Ver.: always |
|-----------|---|

6.4.2.70 int8u emberAfOtaServerQueryCallback (const EmberAfOtaImageId * *currentImageId*, int16u * *hardwareVersion*, EmberAfOtaImageId * *nextUpgradedImageId*)

Ota Server Query.

This callback is fired when the OTA server receives a query request by the client. The callback lets the server application indicate to the client what the 'next' version of software is for the device, or if there is not one available.

Parameters

| | |
|----------------------------|--|
| <i>currentImageId</i> | This is the current software image that the client has. Ver.: always |
| <i>hardware-Version</i> | If this value is non-NUL, it indicates the hardware version of the client device. If NULL, the client did not specify a hardware version. Ver.: always |
| <i>nextUpgrade-ImageId</i> | This is a pointer to a data structure containing the 'next' software version for the client to download. Ver.: always |

6.4.2.71 int8u emberAfOtaServerBlockSizeCallback (EmberNodeID *clientNodeId*)

Ota Server Block Size.

This function provides a way for the server to adjust the block size of its response to an Image block request by a client.

Parameters

| | |
|---------------------|---|
| <i>clientNodeId</i> | The node ID of OTA client making an image block request. Ver.: always |
|---------------------|---|

6.4.2.72 int8u emberAfOtaServerImageBlockRequestCallback (const EmberAfOtaImageId * *id*, int32u *offset*, int8u *maxDataSize*, int32u * *waitTimeMinutes*)

Ota Server Image Block Request.

This function is called when the server application receives an image block request by a client.

Parameters

| | |
|-------------------------|--|
| <i>id</i> | This structure contains the image Id that the client is requesting a block from. Ver.: always |
| <i>offset</i> | This is the offset within the OTA file that the client is requesting. Ver.: always |
| <i>maxDataSize</i> | This is the maximum size that the client has requested for the data block sent in the response. Ver.: always |
| <i>waitTime-Minutes</i> | If the function returns EMBER_ZCL_STATUS_WAIT_FOR_DATA, then this is a pointer to the delay time in minutes that will be sent back to the client. Ver.: always |

6.4.2.73 boolean emberAfOtaServerUpgradeEndRequestCallback (EmberNodeID *source*, int8u *status*, int32u * *returnValue*, const EmberAfOtaImageID * *imageId*)

Ota Server Upgrade End Request.

This function is called when the OTA server receives a request an upgrade end request. If the request indicated a successful download by the client, the server must tell the client when and if to upgrade to the downloaded image.

Parameters

| | |
|--------------------|--|
| <i>source</i> | The node ID of the device that sent the upgrade end request. Ver.: always |
| <i>status</i> | This is the ZCL status sent by the client indicating the result of its attempt to download the new upgrade image. If the status is not EMBER_ZCL_STATUS_SUCCESS then this callback is merely informative and no response message will be generated by the server. Ver.: always |
| <i>returnValue</i> | If the server returns TRUE indicating that the client should apply the upgrade, this time value indicates when in the future the client should apply the upgrade. Ver.: always |
| <i>imageId</i> | This variable indicates the software version that the client successfully downloaded and is asking to upgrade to. Ver.: always |

6.4.2.74 int8u emberAfOtaPageRequestServerPolicyCallback (void)

Ota Page Request Server Policy.

This callback is called by the OTA server page request code when it wants to determine if it is allowed for an OTA client to make a page request. It is only called if page request support has been enabled on the server. It should return EMBER_ZCL_STATUS_SUCCESS if it allows the page request, and EMBER_ZCL_STATUS_UNSUP_CLUSTER_COMMAND if it does not want to allow it.

6.4.2.75 EmberStatus emberAfInterpanSendMessageCallback (EmberAfInterpanHeader * *header*, int16u *messageLength*, int8u * *message*)

Interpan Send Message.

This function will send a raw MAC message with interpan frame format using the passed parameters.

Parameters

| | |
|----------------------|--|
| <i>header</i> | Interpan header info Ver.: always |
| <i>messageLength</i> | The length of the message received or to send Ver.: always |
| <i>message</i> | The message data received or to send. Ver.: always |

6.4.2.76 void emberAfUnusedPanIdFoundCallback (EmberPanId *panId*, int8u *channel*)

Unused Pan Id Found.

This is called by the framework on behalf of the form-and-join library to notify the application of the PAN id and channel found following a call to ::emberScanForUnusedPanId(). See form-and-join documentation for more information.

Parameters

| | |
|----------------|--------------|
| <i>panId</i> | Ver.: always |
| <i>channel</i> | Ver.: always |

6.4.2.77 void emberAfJoinableNetworkFoundCallback (EmberZigbeeNetwork * *networkFound*, int8u *lqi*, int8s *rssi*)

Joinable Network Found.

This is called by the framework on behalf of the form-and-join library to notify the application of the network found after a call to ::emberScanForJoinableNetwork() or ::emberScanForNextJoinableNetwork(). See form-and-join documentation for more information.

Parameters

| | |
|---------------------|--------------|
| <i>networkFound</i> | Ver.: always |
| <i>lqi</i> | Ver.: always |
| <i>rssi</i> | Ver.: always |

6.4.2.78 void emberAfScanErrorCallback (EmberStatus *status*)

Scan Error.

This is called by the framework on behalf of the form-and-join library to notify the application if an error occurs while scanning. See form-and-join documentation for more information.

Parameters

| | |
|---------------|--------------------------------------|
| <i>status</i> | The status of the scan. Ver.: always |
|---------------|--------------------------------------|

6.4.2.79 EmberStatus emberAfFindUnusedPanIdAndFormCallback (void)

Find Unused Pan Id And Form.

This function is called by the framework to search for an unused PAN id and form a new network. The application should return EMBER_SUCCESS if the operation was initiated successfully.

6.4.2.80 EmberStatus emberAfStartSearchForJoinableNetworkCallback (void)

Start Search For Joinable Network.

This function is called by the framework to search for joinable networks and join a network. The application should return EMBER_SUCCESS if the operation was initiated successfully.

6.4.2.81 void emberAfContinueJoinableNetworkSearchCallback (void)

Continue Joinable Network Search.

This is called by the framework to instruct the application to continue its joinable network search.

6.4.2.82 void emberAfNetworkFindOperationCompleteCallback (void)

Network Find Operation Complete.

This is called by the framework when the network find operation is complete.

6.4.2.83 boolean emberAfClusterSecurityCustomCallback (EmberAfProfileId *profileId*, EmberAfClusterId *clusterId*, boolean *incoming*, int8u *commandId*)

Cluster Security Custom.

This callback is fired when determining if APS encryption is required for a cluster outside of the specification's required clusters. In other words, for the Smart Energy profile this would be a cluster beyond the list that normally requires APS encryption.

Parameters

| | |
|------------------|---|
| <i>profileId</i> | The profile ID Ver.: always |
| <i>clusterId</i> | The cluster ID Ver.: always |
| <i>incoming</i> | Whether this is an incoming or outgoing message. Ver.: always |
| <i>commandId</i> | The ZCL command ID being sent/received. Ver.: always |

6.4.2.84 boolean emberAfConfigureReportingCommandCallback (const EmberAfClusterCommand * *cmd*)

Configure Reporting Command.

This function is called by the application framework when a Configure Reporting command is received from an external device. The Configure Reporting command contains a series of attribute reporting configuration records. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------|--------------|
| <i>cmd</i> | Ver.: always |
|------------|--------------|

6.4.2.85 boolean emberAfReadReportingConfigurationCommandCallback (const EmberAfClusterCommand * *cmd*)

Read Reporting Configuration Command.

This function is called by the application framework when a Read Reporting Configuration command is received from an external device. The application should return TRUE if the message was processed or FALSE if it was not.

Parameters

| | |
|------------|--------------|
| <i>cmd</i> | Ver.: always |
|------------|--------------|

6.4.2.86 EmberStatus emberAfClearReportTableCallback (void)

Clear Report Table.

This function is called by the framework when the application should clear the report table.

6.4.2.87 void emberAfReportingAttributeChangeCallback (int8u *endpoint*, EmberAfClusterId *clusterId*, EmberAfAttributeId *attributeId*, int8u *mask*, int16u *manufacturerCode*, EmberAfAttributeType *type*, int8u * *data*)

Reporting Attribute Change.

This function is called by the framework when an attribute managed by the framework changes. The application should call this function when an externally-managed attribute changes. The application should use the change notification to inform its reporting decisions.

Parameters

| | |
|--------------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>attributeId</i> | Ver.: always |
| <i>mask</i> | Ver.: always |
| <i>manufacturer-Code</i> | Ver.: always |
| <i>type</i> | Ver.: always |
| <i>data</i> | Ver.: always |

6.4.2.88 void emberAfNetworkKeyUpdateCompleteCallback (EmberStatus *status*)

Network Key Update Complete.

This is called by the framework when a network key update operation started by the trust center is complete.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.89 boolean emberAfBasicClusterResetToFactoryDefaultsCallback (void)

Reset To Factory Defaults.

6.4.2.90 void emberAfBasicClusterServerInitCallback (int8u endpoint)

Server Init.

Basic cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.91 void emberAfBasicClusterClientInitCallback (int8u endpoint)

Client Init.

Basic cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.92 void emberAfBasicClusterServerTickCallback (int8u endpoint)

Server Tick.

Basic cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.93 void emberAfBasicClusterClientTickCallback (int8u endpoint)

Client Tick.

Basic cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.94 void emberAfBasicClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeId)

Server Attribute Changed.

Basic cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.95 void emberAfBasicClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Basic cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.96 void emberAfBasicClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Basic cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.97 void emberAfBasicClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Basic cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.98 void emberAfBasicClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Basic cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.99 void emberAfBasicClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Basic cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.100 void emberAfBasicClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Basic cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.101 void emberAfBasicClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Basic cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |

| | |
|----------------|---|
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.102 void emberAfPowerConfigClusterServerInitCallback (int8u *endpoint*)

Server Init.

Power Configuration cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.103 void emberAfPowerConfigClusterClientInitCallback (int8u *endpoint*)

Client Init.

Power Configuration cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.104 void emberAfPowerConfigClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Power Configuration cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.105 void emberAfPowerConfigClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Power Configuration cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.106 void emberAfPowerConfigClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Power Configuration cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.107 void emberAfPowerConfigClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Power Configuration cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.108 void emberAfPowerConfigClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Power Configuration cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.109 void emberAfPowerConfigClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Power Configuration cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.110 void emberAfPowerConfigClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Power Configuration cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.111 void emberAfPowerConfigClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Power Configuration cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

**6.4.2.112 void emberAfPowerConfigClusterServerMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Server Message Sent.

Power Configuration cluster, Server Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.113 void emberAfPowerConfigClusterClientMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Client Message Sent.

Power Configuration cluster, Client Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |

| | |
|-----------------|---|
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.114 void emberAfDeviceTempClusterServerInitCallback (int8u *endpoint*)

Server Init.

Device Temperature Configuration cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.115 void emberAfDeviceTempClusterClientInitCallback (int8u *endpoint*)

Client Init.

Device Temperature Configuration cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.116 void emberAfDeviceTempClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Device Temperature Configuration cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.117 void emberAfDeviceTempClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Device Temperature Configuration cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.118 void emberAfDeviceTempClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Device Temperature Configuration cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.119 void emberAfDeviceTempClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Device Temperature Configuration cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.120 void emberAfDeviceTempClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Device Temperature Configuration cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.121 void emberAfDeviceTempClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Device Temperature Configuration cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.122 void emberAfDeviceTempClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Device Temperature Configuration cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.123 void emberAfDeviceTempClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Device Temperature Configuration cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

**6.4.2.124 void emberAfDeviceTempClusterServerMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Server Message Sent.

Device Temperature Configuration cluster, Server Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.125 void emberAfDeviceTempClusterClientMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Client Message Sent.

Device Temperature Configuration cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.126 boolean emberAfIdentifyClusterIdentifyCallback (int16u *identifyTime*)

Identify.

Parameters

| | |
|---------------------|--------------|
| <i>identifyTime</i> | Ver.: always |
|---------------------|--------------|

6.4.2.127 boolean emberAfIdentifyClusterIdentifyQueryCallback (void)

Identify Query.

6.4.2.128 boolean emberAfIdentifyClusterIdentifyQueryResponseCallback (int16u *timeout*)

Identify Query Response.

Parameters

| | |
|----------------|--------------|
| <i>timeout</i> | Ver.: always |
|----------------|--------------|

6.4.2.129 void emberAfIdentifyClusterServerInitCallback (int8u *endpoint*)

Server Init.

Identify cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.130 void emberAfIdentifyClusterClientInitCallback (int8u *endpoint*)

Client Init.

Identify cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.131 void emberAfIdentifyClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Identify cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.132 void emberAfIdentifyClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Identify cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.133 void emberAfIdentifyClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Identify cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.134 void emberAfIdentifyClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Identify cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.135 void emberAfIdentifyClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Identify cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.136 void emberAfIdentifyClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Identify cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.137 void emberAfIdentifyClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Identify cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.138 void emberAfIdentifyClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Identify cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.139 void emberAfIdentifyClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Identify cluster, Server Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.140 void emberAfIdentifyClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

Identify cluster, Client Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.141 boolean emberAfIdentifyClusterTriggerEffectCallback (int8u effectId, int8u effectVariant)

Trigger Effect.

Parameters

| | |
|----------------------|--------------|
| <i>effectId</i> | Ver.: always |
| <i>effectVariant</i> | Ver.: always |

6.4.2.142 boolean emberAfGroupsClusterEndpointInGroupCallback (int8u endpoint, int16u groupId)

Endpoint In Group.

This function is called by the framework when it needs to determine if an endpoint is a member of a group.

The application should return TRUE if the endpoint is a member of the group and FALSE otherwise.

Parameters

| | |
|-----------------|------------------------------------|
| <i>endpoint</i> | The endpoint. Ver.: always |
| <i>groupId</i> | The group identifier. Ver.: always |

6.4.2.143 void emberAfGroupsClusterClearGroupTableCallback (void)

Clear Group Table.

This function is called by the framework when the application should clear the group table.

6.4.2.144 boolean emberAfGroupsClusterAddGroupCallback (int16u groupId, int8u * groupName)

Add Group.

Parameters

| | |
|------------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>groupName</i> | Ver.: always |

6.4.2.145 boolean emberAfGroupsClusterViewGroupCallback (int16u groupId)

View Group.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
|----------------|--------------|

6.4.2.146 boolean emberAfGroupsClusterGetGroupMembershipCallback (int8u groupCount, int8u * groupList)

Get Group Membership.

Parameters

| | |
|-------------------|--------------|
| <i>groupCount</i> | Ver.: always |
| <i>groupList</i> | Ver.: always |

6.4.2.147 boolean emberAfGroupsClusterRemoveGroupCallback (int16u groupId)

Remove Group.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
|----------------|--------------|

6.4.2.148 boolean emberAfGroupsClusterRemoveAllGroupsCallback (void)

Remove All Groups.

6.4.2.149 boolean emberAfGroupsClusterAddGroupIfIdentifyingCallback (int16u groupId, int8u * groupName)

Add Group If Identifying.

Parameters

| | |
|------------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>groupName</i> | Ver.: always |

6.4.2.150 boolean emberAfGroupsClusterAddGroupResponseCallback (int8u status, int16u groupId)

Add Group Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |

6.4.2.151 boolean emberAfGroupsClusterViewGroupResponseCallback (int8u status, int16u groupId, int8u * groupName)

View Group Response.

Parameters

| | |
|------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>groupName</i> | Ver.: always |

6.4.2.152 boolean emberAfGroupsClusterGetGroupMembershipResponseCallback (int8u capacity, int8u groupCount, int8u * groupList)

Get Group Membership Response.

Parameters

| | |
|-------------------|--------------|
| <i>capacity</i> | Ver.: always |
| <i>groupCount</i> | Ver.: always |
| <i>groupList</i> | Ver.: always |

6.4.2.153 boolean emberAfGroupsClusterRemoveGroupResponseCallback (int8u *status*, int16u *groupId*)

Remove Group Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |

6.4.2.154 void emberAfGroupsClusterServerInitCallback (int8u *endpoint*)

Server Init.

Groups cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.155 void emberAfGroupsClusterClientInitCallback (int8u *endpoint*)

Client Init.

Groups cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.156 void emberAfGroupsClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Groups cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.157 void emberAfGroupsClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Groups cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.158 void emberAfGroupsClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Groups cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.159 void emberAfGroupsClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Groups cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.160 void emberAfGroupsClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Groups cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.161 void emberAfGroupsClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Groups cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.162 void emberAfGroupsClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Groups cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.163 void emberAfGroupsClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Groups cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.164 void emberAfGroupsClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Groups cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.165 void emberAfGroupsClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Groups cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.166 EmberAfStatus emberAfScenesClusterStoreCurrentSceneCallback (int8u *endpoint*, int16u *groupId*, int8u *sceneId*)

Store Current Scene.

This function is called by the framework when the application should store the current scene. If an entry already exists in the scene table with the same scene and group ids, the application should update the entry with the current scene. Otherwise, a new entry should be added to the scene table, if possible.

Parameters

| | |
|-----------------|------------------------------------|
| <i>endpoint</i> | The endpoint. Ver.: always |
| <i>groupId</i> | The group identifier. Ver.: always |
| <i>sceneId</i> | The scene identifier. Ver.: always |

6.4.2.167 EmberAfStatus emberAfScenesClusterRecallSavedSceneCallback (int8u *endpoint*, int16u *groupId*, int8u *sceneId*)

Recall Saved Scene.

This function is called by the framework when the application should recall a saved scene.

Parameters

| | |
|-----------------|------------------------------------|
| <i>endpoint</i> | The endpoint. Ver.: always |
| <i>groupId</i> | The group identifier. Ver.: always |
| <i>sceneId</i> | The scene identifier. Ver.: always |

6.4.2.168 void emberAfScenesClusterClearSceneTableCallback (void)

ClearSceneTable.

This function is called by the framework when the application should clear the scene table.

6.4.2.169 boolean emberAfScenesClusterAddSceneCallback (int16u *groupId*, int8u *sceneId*, int16u *transitionTime*, int8u * *sceneName*, int8u * *extensionFieldSets*)

Add Scene.

Parameters

| | |
|----------------------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |
| <i>sceneName</i> | Ver.: always |
| <i>extensionField-Sets</i> | Ver.: always |

6.4.2.170 boolean emberAfScenesClusterViewSceneCallback (int16u *groupId*, int8u *sceneId*)

View Scene.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.171 boolean emberAfScenesClusterRemoveSceneCallback (int16u *groupId*, int8u *sceneId*)

Remove Scene.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.172 boolean emberAfScenesClusterRemoveAllScenesCallback (int16u *groupId*)

Remove All Scenes.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
|----------------|--------------|

6.4.2.173 boolean emberAfScenesClusterStoreSceneCallback (int16u *groupId*, int8u *sceneId*)

Store Scene.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.174 boolean emberAfScenesClusterRecallSceneCallback (int16u *groupId*, int8u *sceneId*)

Recall Scene.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.175 boolean emberAfScenesClusterGetSceneMembershipCallback (int16u *groupId*)

Get Scene Membership.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
|----------------|--------------|

6.4.2.176 boolean emberAfScenesClusterAddSceneResponseCallback (int8u *status*, int16u *groupId*, int8u *sceneId*)

Add Scene Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.177 boolean emberAfScenesClusterViewSceneResponseCallback (int8u *status*, int16u *groupId*, int8u *sceneId*, int16u *transitionTime*, int8u * *sceneName*, int8u * *extensionFieldSets*)

View Scene Response.

Parameters

| | |
|---------------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |
| <i>sceneName</i> | Ver.: always |
| <i>extensionFieldSets</i> | Ver.: always |

6.4.2.178 boolean emberAfScenesClusterRemoveSceneResponseCallback (int8u *status*, int16u *groupId*, int8u *sceneId*)

Remove Scene Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.179 boolean emberAfScenesClusterRemoveAllScenesResponseCallback (int8u *status*, int16u *groupId*)

Remove All Scenes Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |

6.4.2.180 boolean emberAfScenesClusterStoreSceneResponseCallback (int8u *status*, int16u *groupId*, int8u *sceneId*)

Store Scene Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.181 boolean emberAfScenesClusterGetSceneMembershipResponseCallback (int8u *status*, int8u *capacity*, int16u *groupId*, int8u *sceneCount*, int8u * *sceneList*)

Get Scene Membership Response.

Parameters

| | |
|-------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>capacity</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneCount</i> | Ver.: always |
| <i>sceneList</i> | Ver.: always |

6.4.2.182 void emberAfScenesClusterServerInitCallback (int8u *endpoint*)

Server Init.

Scenes cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.183 void emberAfScenesClusterClientInitCallback (int8u *endpoint*)

Client Init.

Scenes cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.184 void emberAfScenesClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Scenes cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.185 void emberAfScenesClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Scenes cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.186 void emberAfScenesClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Scenes cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.187 void emberAfScenesClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Scenes cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.188 void emberAfScenesClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Scenes cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.189 void emberAfScenesClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Scenes cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.190 void emberAfScenesClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Scenes cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.191 void emberAfScenesClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Scenes cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.192 void emberAfScenesClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Scenes cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.193 void emberAfScenesClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

Scenes cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.194 boolean emberAfScenesClusterEnhancedAddSceneCallback (int16u groupId, int8u sceneId, int16u transitionTime, int8u * sceneName, int8u * extensionFieldSets)

Enhanced Add Scene.

Parameters

| | |
|---------------------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |
| <i>sceneName</i> | Ver.: always |
| <i>extensionFieldSets</i> | Ver.: always |

6.4.2.195 boolean emberAfScenesClusterEnhancedViewSceneCallback (int16u *groupId*, int8u *sceneId*)

Enhanced View Scene.

Parameters

| | |
|----------------|--------------|
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.196 boolean emberAfScenesClusterCopySceneCallback (int8u *mode*, int16u *groupIdFrom*, int8u *sceneIdFrom*, int16u *groupIdTo*, int8u *sceneIdTo*)

Copy Scene.

Parameters

| | |
|--------------------|--------------|
| <i>mode</i> | Ver.: always |
| <i>groupIdFrom</i> | Ver.: always |
| <i>sceneIdFrom</i> | Ver.: always |
| <i>groupIdTo</i> | Ver.: always |
| <i>sceneIdTo</i> | Ver.: always |

6.4.2.197 boolean emberAfScenesClusterEnhancedAddSceneResponseCallback (int8u *status*, int16u *groupId*, int8u *sceneId*)

Enhanced Add Scene Response.

Parameters

| | |
|----------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |

6.4.2.198 boolean emberAfScenesClusterEnhancedViewSceneResponseCallback (int8u *status*, int16u *groupId*, int8u *sceneId*, int16u *transitionTime*, int8u * *sceneName*, int8u * *extensionFieldSets*)

Enhanced View Scene Response.

Parameters

| | |
|---------------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupId</i> | Ver.: always |
| <i>sceneId</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |
| <i>sceneName</i> | Ver.: always |
| <i>extensionFieldSets</i> | Ver.: always |

6.4.2.199 boolean emberAfScenesClusterCopySceneResponseCallback (int8u *status*, int16u *groupIdFrom*, int8u *sceneIdFrom*)

Copy Scene Response.

Parameters

| | |
|--------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>groupIdFrom</i> | Ver.: always |
| <i>sceneIdFrom</i> | Ver.: always |

6.4.2.200 boolean emberAfOnOffClusterOffCallback (void)

Off.

6.4.2.201 boolean emberAfOnOffClusterOnCallback (void)

On.

6.4.2.202 boolean emberAfOnOffClusterToggleCallback (void)

Toggle.

6.4.2.203 void emberAfOnOffClusterServerInitCallback (int8u *endpoint*)

Server Init.

On/off cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.204 void emberAfOnOffClusterClientInitCallback (int8u *endpoint*)

Client Init.

On/off cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.205 void emberAfOnOffClusterServerTickCallback (int8u *endpoint*)

Server Tick.

On/off cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.206 void emberAfOnOffClusterClientTickCallback (int8u endpoint)

Client Tick.

On/off cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.207 void emberAfOnOffClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

On/off cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.208 void emberAfOnOffClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

On/off cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.209 void emberAfOnOffClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

On/off cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.210 void emberAfOnOffClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

On/off cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.211 void emberAfOnOffClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

On/off cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.212 void emberAfOnOffClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

On/off cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.213 void emberAfOnOffClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

On/off cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |

| | |
|-----------------|---|
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.214 void emberAfOnOffClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

On/off cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.215 boolean emberAfOnOffClusterOffWithEffectCallback (int8u *effectId*, int8u *effectVariant*)

Off With Effect.

Parameters

| | |
|----------------------|--------------|
| <i>effectId</i> | Ver.: always |
| <i>effectVariant</i> | Ver.: always |

6.4.2.216 boolean emberAfOnOffClusterOnWithRecallGlobalSceneCallback (void)

On With Recall Global Scene.

6.4.2.217 boolean emberAfOnOffClusterOnWithTimedOffCallback (int8u *onOffControl*, int16u *onTime*, int16u *offWaitTime*)

On With Timed Off.

Parameters

| | |
|---------------------|--------------|
| <i>onOffControl</i> | Ver.: always |
| <i>onTime</i> | Ver.: always |
| <i>offWaitTime</i> | Ver.: always |

6.4.2.218 boolean emberAfOnOffClusterSampleMfgSpecificOffWithTransitionCallback (void)

Sample Mfg Specific Off With Transition.

6.4.2.219 boolean emberAfOnOffClusterSampleMfgSpecificOnWithTransitionCallback (void)

Sample Mfg Specific On With Transition.

6.4.2.220 boolean emberAfOnOffClusterSampleMfgSpecificToggleWithTransitionCallback (void)

Sample Mfg Specific Toggle With Transition.

6.4.2.221 void emberAfOnOffSwitchConfigClusterServerInitCallback (int8u endpoint)

Server Init.

On/off Switch Configuration cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.222 void emberAfOnOffSwitchConfigClusterClientInitCallback (int8u endpoint)

Client Init.

On/off Switch Configuration cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.223 void emberAfOnOffSwitchConfigClusterServerTickCallback (int8u endpoint)

Server Tick.

On/off Switch Configuration cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.224 void emberAfOnOffSwitchConfigClusterClientTickCallback (int8u endpoint)

Client Tick.

On/off Switch Configuration cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.225 void emberAfOnOffSwitchConfigClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

On/off Switch Configuration cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.226 void emberAfOnOffSwitchConfigClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

On/off Switch Configuration cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.227 void emberAfOnOffSwitchConfigClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

On/off Switch Configuration cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.228 void emberAfOnOffSwitchConfigClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

On/off Switch Configuration cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.229 void emberAfOnOffSwitchConfigClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

On/off Switch Configuration cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.230 void emberAfOnOffSwitchConfigClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

On/off Switch Configuration cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.231 void emberAfOnOffSwitchConfigClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

On/off Switch Configuration cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.232 void emberAfOnOffSwitchConfigClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

On/off Switch Configuration cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.233 boolean emberAfLevelControlClusterMoveToLevelCallback (int8u *level*, int16u *transitionTime*)

Move To Level.

Parameters

| | |
|-----------------------|--------------|
| <i>level</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.234 boolean emberAfLevelControlClusterMoveCallback (int8u *moveMode*, int8u *rate*)

Move.

Parameters

| | |
|-----------------|--------------|
| <i>moveMode</i> | Ver.: always |
| <i>rate</i> | Ver.: always |

6.4.2.235 boolean emberAfLevelControlClusterStepCallback (int8u *stepMode*, int8u *stepSize*, int16u *transitionTime*)

Step.

Parameters

| | |
|-----------------------|--------------|
| <i>stepMode</i> | Ver.: always |
| <i>stepSize</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.236 boolean emberAfLevelControlClusterStopCallback (void)

Stop.

6.4.2.237 boolean emberAfLevelControlClusterMoveToLevelWithOnOffCallback (int8u *level*, int16u *transitionTime*)

Move To Level With On Off.

Parameters

| | |
|-----------------------|--------------|
| <i>level</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.238 boolean emberAfLevelControlClusterMoveWithOnOffCallback (int8u *moveMode*, int8u *rate*)

Move With On Off.

Parameters

| | |
|-----------------|--------------|
| <i>moveMode</i> | Ver.: always |
| <i>rate</i> | Ver.: always |

6.4.2.239 boolean emberAfLevelControlClusterStepWithOnOffCallback (int8u *stepMode*, int8u *stepSize*, int16u *transitionTime*)

Step With On Off.

Parameters

| | |
|-----------------------|--------------|
| <i>stepMode</i> | Ver.: always |
| <i>stepSize</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.240 boolean emberAfLevelControlClusterStopWithOnOffCallback (void)

Stop With On Off.

6.4.2.241 void emberAfLevelControlClusterServerInitCallback (int8u *endpoint*)

Server Init.

Level Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.242 void emberAfLevelControlClusterClientInitCallback (int8u *endpoint*)

Client Init.

Level Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.243 void emberAfLevelControlClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Level Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.244 void emberAfLevelControlClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Level Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.245 void emberAfLevelControlClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Level Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.246 void emberAfLevelControlClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Level Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.247 void emberAfLevelControlClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Level Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.248 void emberAfLevelControlClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Level Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.249 void emberAfLevelControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Level Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.250 void emberAfLevelControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Level Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

**6.4.2.251 void emberAfLevelControlClusterServerMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Server Message Sent.

Level Control cluster, Server Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.252 void emberAfLevelControlClusterClientMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Client Message Sent.

Level Control cluster, Client Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.253 boolean emberAfAlarmClusterResetAlarmCallback (int8u *alarmCode*, int16u *clusterId*)

Reset Alarm.

Parameters

| | |
|------------------|--------------|
| <i>alarmCode</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |

6.4.2.254 boolean emberAfAlarmClusterResetAllAlarmsCallback (void)

Reset All Alarms.

6.4.2.255 boolean emberAfAlarmClusterGetAlarmCallback (void)

Get Alarm.

6.4.2.256 boolean emberAfAlarmClusterResetAlarmLogCallback (void)

Reset Alarm Log.

6.4.2.257 boolean emberAfAlarmClusterAlarmCallback (int8u *alarmCode*, int16u *clusterId*)

Alarm.

Parameters

| | |
|------------------|--------------|
| <i>alarmCode</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |

6.4.2.258 boolean emberAfAlarmClusterGetAlarmResponseCallback (int8u *status*, int8u *alarmCode*, int16u *clusterId*, int32u *timeStamp*)

Get Alarm Response.

Parameters

| | |
|------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>alarmCode</i> | Ver.: always |
| <i>clusterId</i> | Ver.: always |
| <i>timeStamp</i> | Ver.: always |

6.4.2.259 void emberAfAlarmClusterServerInitCallback (int8u *endpoint*)

Server Init.

Alarms cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.260 void emberAfAlarmClusterClientInitCallback (int8u *endpoint*)

Client Init.

Alarms cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.261 void emberAfAlarmClusterServerTickCallback (int8u endpoint)

Server Tick.

Alarms cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.262 void emberAfAlarmClusterClientTickCallback (int8u endpoint)

Client Tick.

Alarms cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.263 void emberAfAlarmClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Alarms cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.264 void emberAfAlarmClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Alarms cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.265 void emberAfAlarmClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Alarms cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.266 void emberAfAlarmClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Alarms cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.267 void emberAfAlarmClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Alarms cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.268 void emberAfAlarmClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Alarms cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.269 void emberAfAlarmClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Alarms cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.270 void emberAfAlarmClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

Alarms cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.271 void emberAfTimeClusterServerInitCallback (int8u endpoint)

Server Init.

Time cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.272 void emberAfTimeClusterClientInitCallback (int8u endpoint)

Client Init.

Time cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.273 void emberAfTimeClusterServerTickCallback (int8u endpoint)

Server Tick.

Time cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.274 void emberAfTimeClusterClientTickCallback (int8u endpoint)

Client Tick.

Time cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.275 void emberAfTimeClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Time cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.276 void emberAfTimeClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Time cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.277 void emberAfTimeClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Time cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.278 void emberAfTimeClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Time cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.279 void emberAfTimeClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Time cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.280 void emberAfTimeClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Time cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.281 void emberAfTimeClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Time cluster, Server Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.282 void emberAfTimeClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Time cluster, Client Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.283 boolean emberAfRssiLocationClusterSetAbsoluteLocationCallback (int16s *coordinate1*, int16s *coordinate2*, int16s *coordinate3*, int16s *power*, int16u *pathLossExponent*)

Set Absolute Location.

Parameters

| | |
|---------------------------|--------------|
| <i>coordinate1</i> | Ver.: always |
| <i>coordinate2</i> | Ver.: always |
| <i>coordinate3</i> | Ver.: always |
| <i>power</i> | Ver.: always |
| <i>pathLoss- Exponent</i> | Ver.: always |

6.4.2.284 boolean emberAfRssiLocationClusterSetDeviceConfigurationCallback (int16s *power*, int16u *pathLossExponent*, int16u *calculationPeriod*, int8u *numberRssiMeasurements*, int16u *reportingPeriod*)

Set Device Configuration.

Parameters

| | |
|-------------------------------------|--------------|
| <i>power</i> | Ver.: always |
| <i>pathLoss- Exponent</i> | Ver.: always |
| <i>calculation- Period</i> | Ver.: always |
| <i>numberRssi- Measurements</i> | Ver.: always |
| <i>reporting- Period</i> | Ver.: always |

6.4.2.285 boolean emberAfRssiLocationClusterGetDeviceConfigurationCallback (int8u * *targetAddress*)

Get Device Configuration.

Parameters

| | |
|----------------------|--------------|
| <i>targetAddress</i> | Ver.: always |
|----------------------|--------------|

6.4.2.286 boolean emberAfRssiLocationClusterGetLocationDataCallback (int8u *flags*, int8u *numberResponses*, int8u * *targetAddress*)

Get Location Data.

Parameters

| | |
|------------------------------|--------------|
| <i>flags</i> | Ver.: always |
| <i>number- Responses</i> | Ver.: always |
| <i>targetAddress</i> | Ver.: always |

6.4.2.287 boolean emberAfRssiLocationClusterRssiResponseCallback (int8u * *replyingDevice*, int16s *coordinate1*, int16s *coordinate2*, int16s *coordinate3*, int8s *rssi*, int8u *numberRssiMeasurements*)

Rssi Response.

Parameters

| | |
|-----------------------|--------------|
| <i>replyingDevice</i> | Ver.: always |
| <i>coordinate1</i> | Ver.: always |
| <i>coordinate2</i> | Ver.: always |
| <i>coordinate3</i> | Ver.: always |

| | |
|-------------------------------|--------------|
| <i>rssi</i> | Ver.: always |
| <i>numberRssiMeasurements</i> | Ver.: always |

6.4.2.288 boolean emberAfRssiLocationClusterSendPingsCallback (int8u * *targetAddress*, int8u *numberRssiMeasurements*, int16u *calculationPeriod*)

Send Pings.

Parameters

| | |
|-------------------------------|--------------|
| <i>targetAddress</i> | Ver.: always |
| <i>numberRssiMeasurements</i> | Ver.: always |
| <i>calculationPeriod</i> | Ver.: always |

6.4.2.289 boolean emberAfRssiLocationClusterAnchorNodeAnnounceCallback (int8u * *anchorNodeIeeeAddress*, int16s *coordinate1*, int16s *coordinate2*, int16s *coordinate3*)

Anchor Node Announce.

Parameters

| | |
|------------------------------|--------------|
| <i>anchorNodeIeeeAddress</i> | Ver.: always |
| <i>coordinate1</i> | Ver.: always |
| <i>coordinate2</i> | Ver.: always |
| <i>coordinate3</i> | Ver.: always |

6.4.2.290 boolean emberAfRssiLocationClusterDeviceConfigurationResponseCallback (int8u *status*, int16s *power*, int16u *pathLossExponent*, int16u *calculationPeriod*, int8u *numberRssiMeasurements*, int16u *reportingPeriod*)

Device Configuration Response.

Parameters

| | |
|-------------------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>power</i> | Ver.: always |
| <i>pathLossExponent</i> | Ver.: always |
| <i>calculationPeriod</i> | Ver.: always |
| <i>numberRssiMeasurements</i> | Ver.: always |
| <i>reportingPeriod</i> | Ver.: always |

6.4.2.291 boolean emberAfRssiLocationClusterLocationDataResponseCallback (int8u *status*, int8u *locationType*, int16s *coordinate1*, int16s *coordinate2*, int16s *coordinate3*, int16s *power*, int16u *pathLossExponent*, int8u *locationMethod*, int8u *qualityMeasure*, int16u *locationAge*)

Location Data Response.

Parameters

| | |
|--------------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>locationType</i> | Ver.: always |
| <i>coordinate1</i> | Ver.: always |
| <i>coordinate2</i> | Ver.: always |
| <i>coordinate3</i> | Ver.: always |
| <i>power</i> | Ver.: always |
| <i>pathLoss-Exponent</i> | Ver.: always |
| <i>locationMethod</i> | Ver.: always |
| <i>qualityMeasure</i> | Ver.: always |
| <i>locationAge</i> | Ver.: always |

6.4.2.292 boolean emberAfRssiLocationClusterLocationDataNotificationCallback (int8u *locationType*, int16s *coordinate1*, int16s *coordinate2*, int16s *coordinate3*, int16s *power*, int16u *pathLossExponent*, int8u *locationMethod*, int8u *qualityMeasure*, int16u *locationAge*)

Location Data Notification.

Parameters

| | |
|--------------------------|--------------|
| <i>locationType</i> | Ver.: always |
| <i>coordinate1</i> | Ver.: always |
| <i>coordinate2</i> | Ver.: always |
| <i>coordinate3</i> | Ver.: always |
| <i>power</i> | Ver.: always |
| <i>pathLoss-Exponent</i> | Ver.: always |
| <i>locationMethod</i> | Ver.: always |
| <i>qualityMeasure</i> | Ver.: always |
| <i>locationAge</i> | Ver.: always |

6.4.2.293 boolean emberAfRssiLocationClusterCompactLocationDataNotificationCallback (int8u *locationType*, int16s *coordinate1*, int16s *coordinate2*, int16s *coordinate3*, int8u *qualityMeasure*, int16u *locationAge*)

Compact Location Data Notification.

Parameters

| | |
|---------------------|--------------|
| <i>locationType</i> | Ver.: always |
| <i>coordinate1</i> | Ver.: always |
| <i>coordinate2</i> | Ver.: always |
| <i>coordinate3</i> | Ver.: always |

| | |
|-----------------------|--------------|
| <i>qualityMeasure</i> | Ver.: always |
| <i>locationAge</i> | Ver.: always |

6.4.2.294 boolean emberAfRssiLocationClusterRssiPingCallback (int8u *locationType*)

Rssi Ping.

Parameters

| | |
|---------------------|--------------|
| <i>locationType</i> | Ver.: always |
|---------------------|--------------|

6.4.2.295 boolean emberAfRssiLocationClusterRssiRequestCallback (void)

Rssi Request.

6.4.2.296 boolean emberAfRssiLocationClusterReportRssiMeasurementsCallback (int8u * *measuringDevice*, int8u *neighbors*, int8u * *neighborsInfo*)

Report Rssi Measurements.

Parameters

| | |
|-------------------------|--------------|
| <i>measuring-Device</i> | Ver.: always |
| <i>neighbors</i> | Ver.: always |
| <i>neighborsInfo</i> | Ver.: always |

6.4.2.297 boolean emberAfRssiLocationClusterRequestOwnLocationCallback (int8u * *blindNode*)

Request Own Location.

Parameters

| | |
|------------------|--------------|
| <i>blindNode</i> | Ver.: always |
|------------------|--------------|

6.4.2.298 void emberAfRssiLocationClusterServerInitCallback (int8u *endpoint*)

Server Init.

RSSI Location cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.299 void emberAfRssiLocationClusterClientInitCallback (int8u *endpoint*)

Client Init.

RSSI Location cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.300 void emberAfRssiLocationClusterServerTickCallback (int8u *endpoint*)

Server Tick.

RSSI Location cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.301 void emberAfRssiLocationClusterClientTickCallback (int8u *endpoint*)

Client Tick.

RSSI Location cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.302 void emberAfRssiLocationClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

RSSI Location cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.303 void emberAfRssiLocationClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

RSSI Location cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.304 void emberAfRssiLocationClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

RSSI Location cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.305 void emberAfRssiLocationClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

RSSI Location cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.306 void emberAfRssiLocationClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

RSSI Location cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.307 void emberAfRssiLocationClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

RSSI Location cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

**6.4.2.308 void emberAfRssiLocationClusterServerMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Server Message Sent.

RSSI Location cluster, Server Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.309 void emberAfRssiLocationClusterClientMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Client Message Sent.

RSSI Location cluster, Client Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.310 void emberAfBinaryInputBasicClusterServerInitCallback (int8u *endpoint*)

Server Init.

Binary Input (Basic) cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.311 void emberAfBinaryInputBasicClusterClientInitCallback (int8u endpoint)

Client Init.

Binary Input (Basic) cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.312 void emberAfBinaryInputBasicClusterServerTickCallback (int8u endpoint)

Server Tick.

Binary Input (Basic) cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.313 void emberAfBinaryInputBasicClusterClientTickCallback (int8u endpoint)

Client Tick.

Binary Input (Basic) cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.314 void emberAfBinaryInputBasicClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Binary Input (Basic) cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.315 void emberAfBinaryInputBasicClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Binary Input (Basic) cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.316 void emberAfBinaryInputBasicClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Binary Input (Basic) cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.317 void emberAfBinaryInputBasicClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Binary Input (Basic) cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.318 void emberAfBinaryInputBasicClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Binary Input (Basic) cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.319 void emberAfBinaryInputBasicClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Binary Input (Basic) cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.320 void emberAfBinaryInputBasicClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Binary Input (Basic) cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.321 void emberAfBinaryInputBasicClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Binary Input (Basic) cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.322 boolean emberAfCommissioningClusterRestartDeviceCallback (int8u *options*, int8u *delay*, int8u *jitter*)

Restart Device.

Parameters

| | |
|----------------|--------------|
| <i>options</i> | Ver.: always |
| <i>delay</i> | Ver.: always |
| <i>jitter</i> | Ver.: always |

6.4.2.323 boolean emberAfCommissioningClusterSaveStartupParametersCallback (int8u *options*, int8u *index*)

Save Startup Parameters.

Parameters

| | |
|----------------|--------------|
| <i>options</i> | Ver.: always |
| <i>index</i> | Ver.: always |

6.4.2.324 boolean emberAfCommissioningClusterRestoreStartupParametersCallback (int8u *options*, int8u *index*)

Restore Startup Parameters.

Parameters

| | |
|----------------|--------------|
| <i>options</i> | Ver.: always |
| <i>index</i> | Ver.: always |

6.4.2.325 boolean emberAfCommissioningClusterResetStartupParametersCallback (int8u *options*, int8u *index*)

Reset Startup Parameters.

Parameters

| | |
|----------------|--------------|
| <i>options</i> | Ver.: always |
| <i>index</i> | Ver.: always |

6.4.2.326 boolean emberAfCommissioningClusterRestartDeviceResponseCallback (int8u *status*)

Restart Device Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.327 boolean emberAfCommissioningClusterSaveStartupParametersResponseCallback (int8u *status*)

Save Startup Parameters Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.328 boolean emberAfCommissioningClusterRestoreStartupParametersResponseCallback (int8u *status*)

Restore Startup Parameters Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.329 boolean emberAfCommissioningClusterResetStartupParametersResponseCallback (int8u *status*)

Reset Startup Parameters Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.330 void emberAfCommissioningClusterServerInitCallback (int8u *endpoint*)

Server Init.

Commissioning cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.331 void emberAfCommissioningClusterClientInitCallback (int8u *endpoint*)

Client Init.

Commissioning cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.332 void emberAfCommissioningClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Commissioning cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.333 void emberAfCommissioningClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Commissioning cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.334 void emberAfCommissioningClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Commissioning cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.335 void emberAfCommissioningClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Commissioning cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.336 void emberAfCommissioningClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Commissioning cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.337 void emberAfCommissioningClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Commissioning cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.338 void emberAfCommissioningClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Commissioning cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.339 void emberAfCommissioningClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Commissioning cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.340 void emberAfCommissioningClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Commissioning cluster, Server Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.341 void emberAfCommissioningClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Commissioning cluster, Client Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.342 void emberAfShadeConfigClusterServerInitCallback (int8u *endpoint*)

Server Init.

Shade Configuration cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.343 void emberAfShadeConfigClusterClientInitCallback (int8u *endpoint*)

Client Init.

Shade Configuration cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.344 void emberAfShadeConfigClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Shade Configuration cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.345 void emberAfShadeConfigClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Shade Configuration cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.346 void emberAfShadeConfigClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Shade Configuration cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.347 void emberAfShadeConfigClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Shade Configuration cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.348 void emberAfShadeConfigClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Shade Configuration cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.349 void emberAfShadeConfigClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Shade Configuration cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.350 void emberAfShadeConfigClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Shade Configuration cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.351 void emberAfShadeConfigClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Shade Configuration cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

**6.4.2.352 void emberAfShadeConfigClusterServerMessageSentCallback (EmberOutgoingMessage-
Type type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u *
message, EmberStatus status)**

Server Message Sent.

Shade Configuration cluster, Server Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.353 void emberAfShadeConfigClusterClientMessageSentCallback (EmberOutgoingMessage-
Type type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u *
message, EmberStatus status)**

Client Message Sent.

Shade Configuration cluster, Client Message Sent

Parameters

| | |
|---------------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.354 void emberAfPumpConfigControlClusterServerInitCallback (int8u endpoint)

Server Init.

Pump Configuration and Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.355 void emberAfPumpConfigControlClusterClientInitCallback (int8u endpoint)

Client Init.

Pump Configuration and Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.356 void emberAfPumpConfigControlClusterServerTickCallback (int8u endpoint)

Server Tick.

Pump Configuration and Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.357 void emberAfPumpConfigControlClusterClientTickCallback (int8u endpoint)

Client Tick.

Pump Configuration and Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.358 void emberAfPumpConfigControlClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Pump Configuration and Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.359 void emberAfPumpConfigControlClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Pump Configuration and Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.360 void emberAfPumpConfigControlClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Pump Configuration and Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.361 void emberAfPumpConfigControlClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Pump Configuration and Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.362 void emberAfPumpConfigControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Pump Configuration and Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.363 void emberAfPumpConfigControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Pump Configuration and Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.364 void emberAfPumpConfigControlClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Pump Configuration and Control cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.365 void emberAfPumpConfigControlClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Pump Configuration and Control cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.366 boolean emberAfThermostatClusterSetpointRaiseLowerCallback (int8u *mode*, int8s *amount*)

Setpoint Raise Lower.

Parameters

| | |
|---------------|--------------|
| <i>mode</i> | Ver.: always |
| <i>amount</i> | Ver.: always |

6.4.2.367 void emberAfThermostatClusterServerInitCallback (int8u *endpoint*)

Server Init.

Thermostat cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.368 void emberAfThermostatClusterClientInitCallback (int8u *endpoint*)

Client Init.

Thermostat cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.369 void emberAfThermostatClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Thermostat cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.370 void emberAfThermostatClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Thermostat cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.371 void emberAfThermostatClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*)

Server Attribute Changed.

Thermostat cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.372 void emberAfThermostatClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Thermostat cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.373 void emberAfThermostatClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Thermostat cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.374 void emberAfThermostatClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Thermostat cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.375 void emberAfThermostatClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Thermostat cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.376 void emberAfThermostatClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Thermostat cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.377 void emberAfThermostatClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Thermostat cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.378 void emberAfThermostatClusterClientMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Thermostat cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.379 boolean emberAfThermostatClusterSetWeeklyScheduleCallback (int8u
numberOfTransitionsForSequence, int8u *dayOfWeekForSequence*, int8u *modeForSequence*,
int8u * *payload*)**

Set Weekly Schedule.

Parameters

| | |
|---------------------------------------|--------------|
| <i>numberOfTransitionsForSequence</i> | Ver.: always |
| <i>dayOfWeekForSequence</i> | Ver.: always |
| <i>modeForSequence</i> | Ver.: always |
| <i>payload</i> | Ver.: always |

**6.4.2.380 boolean emberAfThermostatClusterGetWeeklyScheduleCallback (int8u *daysToReturn*,
int8u *modeToReturn*)**

Get Weekly Schedule.

Parameters

| | |
|---------------------|--------------|
| <i>daysToReturn</i> | Ver.: always |
| <i>modeToReturn</i> | Ver.: always |

6.4.2.381 boolean emberAfThermostatClusterClearWeeklyScheduleCallback (void)

Clear Weekly Schedule.

6.4.2.382 boolean emberAfThermostatClusterGetRelayStatusLogCallback (void)

Get Relay Status Log.

**6.4.2.383 boolean emberAfThermostatClusterCurrentWeeklyScheduleCallback (int8u
numberOfTransitionsForSequence, int8u *dayOfWeekForSequence*, int8u *modeForSequence*,
int8u * *payload*)**

Current Weekly Schedule.

Parameters

| | |
|---------------------------------------|--------------|
| <i>numberOfTransitionsForSequence</i> | Ver.: always |
| <i>dayOfWeekForSequence</i> | Ver.: always |
| <i>modeForSequence</i> | Ver.: always |
| <i>payload</i> | Ver.: always |

6.4.2.384 boolean emberAfThermostatClusterRelayStatusLogCallback (int16u *timeOfDay*, int16u *relayStatus*, int16s *localTemperature*, int8u *humidityInPercentage*, int16s *setpoint*, int8u *unreadEntries*)

Relay Status Log.

Parameters

| | |
|-----------------------------|--------------|
| <i>timeOfDay</i> | Ver.: always |
| <i>relayStatus</i> | Ver.: always |
| <i>localTemperature</i> | Ver.: always |
| <i>humidityInPercentage</i> | Ver.: always |
| <i>setpoint</i> | Ver.: always |
| <i>unreadEntries</i> | Ver.: always |

6.4.2.385 void emberAfFanControlClusterServerInitCallback (int8u *endpoint*)

Server Init.

Fan Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.386 void emberAfFanControlClusterClientInitCallback (int8u *endpoint*)

Client Init.

Fan Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.387 void emberAfFanControlClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Fan Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.388 void emberAfFanControlClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Fan Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.389 void emberAfFanControlClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Fan Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.390 void emberAfFanControlClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Fan Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.391 void emberAfFanControlClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Fan Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.392 void emberAfFanControlClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Fan Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.393 void emberAfFanControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Fan Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.394 void emberAfFanControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Fan Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.395 void emberAfFanControlClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Fan Control cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.396 void emberAfFanControlClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Fan Control cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.397 void emberAfDehumidControlClusterServerInitCallback (int8u *endpoint*)

Server Init.

Dehumidification Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.398 void emberAfDehumidControlClusterClientInitCallback (int8u *endpoint*)

Client Init.

Dehumidification Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.399 void emberAfDehumidControlClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Dehumidification Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.400 void emberAfDehumidControlClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Dehumidification Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.401 void emberAfDehumidControlClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Dehumidification Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.402 void emberAfDehumidControlClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Dehumidification Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.403 void emberAfDehumidControlClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Dehumidification Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.404 void emberAfDehumidControlClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Dehumidification Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.405 void emberAfDehumidControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Dehumidification Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.406 void emberAfDehumidControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Dehumidification Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.407 void emberAfDehumidControlClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Dehumidification Control cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.408 void emberAfDehumidControlClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Dehumidification Control cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.409 void emberAfThermostatUiConfigClusterServerInitCallback (int8u *endpoint*)

Server Init.

Thermostat User Interface Configuration cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.410 void emberAfThermostatUiConfigClusterClientInitCallback (int8u *endpoint*)

Client Init.

Thermostat User Interface Configuration cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.411 void emberAfThermostatUiConfigClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Thermostat User Interface Configuration cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.412 void emberAfThermostatUiConfigClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Thermostat User Interface Configuration cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.413 void emberAfThermostatUiConfigClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Thermostat User Interface Configuration cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.414 void emberAfThermostatUiConfigClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Thermostat User Interface Configuration cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.415 void emberAfThermostatUiConfigClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Thermostat User Interface Configuration cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.416 void emberAfThermostatUiConfigClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Thermostat User Interface Configuration cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.417 void emberAfThermostatUiConfigClusterServerDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Server Default Response.

Thermostat User Interface Configuration cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.418 void emberAfThermostatUiConfigClusterClientDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Client Default Response.

Thermostat User Interface Configuration cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.419 void emberAfThermostatUiConfigClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Thermostat User Interface Configuration cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.420 void emberAfThermostatUiConfigClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Thermostat User Interface Configuration cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.421 boolean emberAfColorControlClusterMoveToHueCallback (int8u *hue*, int8u *direction*, int16u *transitionTime*)

Move To Hue.

Parameters

| | |
|-----------------------|--------------|
| <i>hue</i> | Ver.: always |
| <i>direction</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.422 boolean emberAfColorControlClusterMoveHueCallback (int8u *moveMode*, int8u *rate*)

Move Hue.

Parameters

| | |
|-----------------|--------------|
| <i>moveMode</i> | Ver.: always |
| <i>rate</i> | Ver.: always |

6.4.2.423 boolean emberAfColorControlClusterStepHueCallback (int8u *stepMode*, int8u *stepSize*, int8u *transitionTime*)

Step Hue.

Parameters

| | |
|-----------------------|--------------|
| <i>stepMode</i> | Ver.: always |
| <i>stepSize</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.424 boolean emberAfColorControlClusterMoveToSaturationCallback (int8u *saturation*, int16u *transitionTime*)

Move To Saturation.

Parameters

| | |
|-----------------------|--------------|
| <i>saturation</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.425 boolean emberAfColorControlClusterMoveSaturationCallback (int8u *moveMode*, int8u *rate*)

Move Saturation.

Parameters

| | |
|-----------------|--------------|
| <i>moveMode</i> | Ver.: always |
| <i>rate</i> | Ver.: always |

6.4.2.426 boolean emberAfColorControlClusterStepSaturationCallback (int8u *stepMode*, int8u *stepSize*, int8u *transitionTime*)

Step Saturation.

Parameters

| | |
|-----------------------|--------------|
| <i>stepMode</i> | Ver.: always |
| <i>stepSize</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.427 boolean emberAfColorControlClusterMoveToHueAndSaturationCallback (int8u *hue*, int8u *saturation*, int16u *transitionTime*)

Move To Hue And Saturation.

Parameters

| | |
|-----------------------|--------------|
| <i>hue</i> | Ver.: always |
| <i>saturation</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.428 boolean emberAfColorControlClusterMoveToColorCallback (int16u *colorX*, int16u *colorY*, int16u *transitionTime*)

Move To Color.

Parameters

| | |
|-----------------------|--------------|
| <i>colorX</i> | Ver.: always |
| <i>colorY</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.429 boolean emberAfColorControlClusterMoveColorCallback (int16s *rateX*, int16s *rateY*)

Move Color.

Parameters

| | |
|--------------|--------------|
| <i>rateX</i> | Ver.: always |
| <i>rateY</i> | Ver.: always |

6.4.2.430 boolean emberAfColorControlClusterStepColorCallback (int16s *stepX*, int16s *stepY*, int16u *transitionTime*)

Step Color.

Parameters

| | |
|-----------------------|--------------|
| <i>stepX</i> | Ver.: always |
| <i>stepY</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.431 boolean emberAfColorControlClusterMoveToColorTemperatureCallback (int16u *colorTemperature*, int16u *transitionTime*)

Move To Color Temperature.

Parameters

| | |
|--------------------------|--------------|
| <i>color-Temperature</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.432 void emberAfColorControlClusterServerInitCallback (int8u *endpoint*)

Server Init.

Color Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.433 void emberAfColorControlClusterClientInitCallback (int8u *endpoint*)

Client Init.

Color Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.434 void emberAfColorControlClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Color Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.435 void emberAfColorControlClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Color Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.436 void emberAfColorControlClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Color Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.437 void emberAfColorControlClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Color Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.438 void emberAfColorControlClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Color Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.439 void emberAfColorControlClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Color Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.440 void emberAfColorControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Color Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.441 void emberAfColorControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Color Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.442 void emberAfColorControlClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Color Control cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.443 void emberAfColorControlClusterClientMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Color Control cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.444 boolean emberAfColorControlClusterEnhancedMoveToHueCallback (int16u *enhancedHue*, int8u *direction*, int16u *transitionTime*)

Enhanced Move To Hue.

Parameters

| | |
|-----------------------|--------------|
| <i>enhancedHue</i> | Ver.: always |
| <i>direction</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.445 boolean emberAfColorControlClusterEnhancedMoveHueCallback (int8u *moveMode*, int16u *rate*)

Enhanced Move Hue.

Parameters

| | |
|-----------------|--------------|
| <i>moveMode</i> | Ver.: always |
| <i>rate</i> | Ver.: always |

6.4.2.446 boolean emberAfColorControlClusterEnhancedStepHueCallback (int8u *stepMode*, int16u *stepSize*, int16u *transitionTime*)

Enhanced Step Hue.

Parameters

| | |
|-----------------------|--------------|
| <i>stepMode</i> | Ver.: always |
| <i>stepSize</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.447 boolean emberAfColorControlClusterEnhancedMoveToHueAndSaturationCallback (int16u *enhancedHue*, int8u *saturation*, int16u *transitionTime*)

Enhanced Move To Hue And Saturation.

Parameters

| | |
|-----------------------|--------------|
| <i>enhancedHue</i> | Ver.: always |
| <i>saturation</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |

6.4.2.448 boolean emberAfColorControlClusterColorLoopSetCallback (int8u *updateFlags*, int8u *action*, int8u *direction*, int16u *time*, int16u *startHue*)

Color Loop Set.

Parameters

| | |
|--------------------|--------------|
| <i>updateFlags</i> | Ver.: always |
| <i>action</i> | Ver.: always |
| <i>direction</i> | Ver.: always |
| <i>time</i> | Ver.: always |
| <i>startHue</i> | Ver.: always |

6.4.2.449 boolean emberAfColorControlClusterStopMoveStepCallback (void)

Stop Move Step.

6.4.2.450 boolean emberAfColorControlClusterMoveColorTemperatureCallback (int8u *moveMode*, int16u *rate*, int16u *colorTemperatureMinimum*, int16u *colorTemperatureMaximum*)

Move Color Temperature.

Parameters

| | |
|--------------------------------|--------------|
| <i>moveMode</i> | Ver.: always |
| <i>rate</i> | Ver.: always |
| <i>colorTemperatureMinimum</i> | Ver.: always |
| <i>colorTemperatureMaximum</i> | Ver.: always |

6.4.2.451 boolean emberAfColorControlClusterStepColorTemperatureCallback (int8u *stepMode*, int16u *stepSize*, int16u *transitionTime*, int16u *colorTemperatureMinimum*, int16u *colorTemperatureMaximum*)

Step Color Temperatue.

Parameters

| | |
|--------------------------------|--------------|
| <i>stepMode</i> | Ver.: always |
| <i>stepSize</i> | Ver.: always |
| <i>transitionTime</i> | Ver.: always |
| <i>colorTemperatureMinimum</i> | Ver.: always |
| <i>colorTemperatureMaximum</i> | Ver.: always |

6.4.2.452 void emberAfBallastConfigurationClusterServerInitCallback (int8u *endpoint*)

Server Init.

Ballast Configuration cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.453 void emberAfBallastConfigurationClusterClientInitCallback (int8u *endpoint*)

Client Init.

Ballast Configuration cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.454 void emberAfBallastConfigurationClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Ballast Configuration cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.455 void emberAfBallastConfigurationClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Ballast Configuration cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.456 void emberAfBallastConfigurationClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*)

Server Attribute Changed.

Ballast Configuration cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.457 void emberAfBallastConfigurationClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeId)

Client Attribute Changed.

Ballast Configuration cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.458 void emberAfBallastConfigurationClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Ballast Configuration cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.459 void emberAfBallastConfigurationClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Ballast Configuration cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.460 void emberAfBallastConfigurationClusterServerDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Server Default Response.

Ballast Configuration cluster, Server Default Response

Parameters

| | |
|------------------|-----------------------------------|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |

| | |
|---------------|---|
| <i>status</i> | Status in default response Ver.: always |
|---------------|---|

6.4.2.461 void emberAfBallastConfigurationClusterClientDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Client Default Response.

Ballast Configuration cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.462 void emberAfBallastConfigurationClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Ballast Configuration cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.463 void emberAfBallastConfigurationClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

Ballast Configuration cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.464 void emberAfIllumMeasurementClusterServerInitCallback (int8u endpoint)

Server Init.

Illuminance Measurement cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.465 void emberAfIllumMeasurementClusterClientInitCallback (int8u endpoint)

Client Init.

Illuminance Measurement cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.466 void emberAfIllumMeasurementClusterServerTickCallback (int8u endpoint)

Server Tick.

Illuminance Measurement cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.467 void emberAfIllumMeasurementClusterClientTickCallback (int8u endpoint)

Client Tick.

Illuminance Measurement cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.468 void emberAfIllumMeasurementClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeId)

Server Attribute Changed.

Illuminance Measurement cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.469 void emberAfIllumMeasurementClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Illuminance Measurement cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.470 void emberAfIllumMeasurementClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Illuminance Measurement cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.471 void emberAfIllumMeasurementClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Illuminance Measurement cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.472 void emberAfIllumMeasurementClusterServerDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Server Default Response.

Illuminance Measurement cluster, Server Default Response

Parameters

| | |
|------------------|-----------------------------------|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |

| | |
|---------------|---|
| <i>status</i> | Status in default response Ver.: always |
|---------------|---|

6.4.2.473 void emberAfIllumMeasurementClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Illuminance Measurement cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.474 void emberAfIllumMeasurementClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Illuminance Measurement cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.475 void emberAfIllumMeasurementClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Illuminance Measurement cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.476 void emberAfIllumLevelSensingClusterServerInitCallback (int8u *endpoint*)

Server Init.

Illuminance Level Sensing cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.477 void emberAfIllumLevelSensingClusterClientInitCallback (int8u *endpoint*)

Client Init.

Illuminance Level Sensing cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.478 void emberAfIllumLevelSensingClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Illuminance Level Sensing cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.479 void emberAfIllumLevelSensingClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Illuminance Level Sensing cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.480 void emberAfIllumLevelSensingClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*)

Server Attribute Changed.

Illuminance Level Sensing cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.481 void emberAfIllumLevelSensingClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Illuminance Level Sensing cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.482 void emberAfIllumLevelSensingClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Illuminance Level Sensing cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.483 void emberAfIllumLevelSensingClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Illuminance Level Sensing cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.484 void emberAfIllumLevelSensingClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Illuminance Level Sensing cluster, Server Default Response

Parameters

| | |
|------------------|-----------------------------------|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |

| | |
|---------------|---|
| <i>status</i> | Status in default response Ver.: always |
|---------------|---|

6.4.2.485 void emberAfIllumLevelSensingClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Illuminance Level Sensing cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.486 void emberAfIllumLevelSensingClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Illuminance Level Sensing cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.487 void emberAfIllumLevelSensingClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Illuminance Level Sensing cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.488 int32s emberAfTempMeasurementClusterConvertVoltsToCelsiusCallback (int16u *voltage*)

Convert Volts To Celsius.

Function that converts volts on the ADC line into celsius.

Parameters

| | |
|----------------|-------------------------------|
| <i>voltage</i> | Voltage from ADC Ver.: always |
|----------------|-------------------------------|

6.4.2.489 void emberAfTempMeasurementClusterServerInitCallback (int8u *endpoint*)

Server Init.

Temperature Measurement cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.490 void emberAfTempMeasurementClusterClientInitCallback (int8u *endpoint*)

Client Init.

Temperature Measurement cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.491 void emberAfTempMeasurementClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Temperature Measurement cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.492 void emberAfTempMeasurementClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Temperature Measurement cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.493 void emberAfTempMeasurementClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Temperature Measurement cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.494 void emberAfTempMeasurementClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Temperature Measurement cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.495 void emberAfTempMeasurementClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Temperature Measurement cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.496 void emberAfTempMeasurementClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Temperature Measurement cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.497 void emberAfTempMeasurementClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Temperature Measurement cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.498 void emberAfTempMeasurementClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Temperature Measurement cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.499 void emberAfTempMeasurementClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Temperature Measurement cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.500 void emberAfTempMeasurementClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Temperature Measurement cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.501 void emberAfPressureMeasurementClusterServerInitCallback (int8u endpoint)

Server Init.

Pressure Measurement cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.502 void emberAfPressureMeasurementClusterClientInitCallback (int8u endpoint)

Client Init.

Pressure Measurement cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.503 void emberAfPressureMeasurementClusterServerTickCallback (int8u endpoint)

Server Tick.

Pressure Measurement cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.504 void emberAfPressureMeasurementClusterClientTickCallback (int8u endpoint)

Client Tick.

Pressure Measurement cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.505 void emberAfPressureMeasurementClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Pressure Measurement cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.506 void emberAfPressureMeasurementClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Pressure Measurement cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.507 void emberAfPressureMeasurementClusterServerManufacturerSpecificAttribute-ChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Pressure Measurement cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.508 void emberAfPressureMeasurementClusterClientManufacturerSpecificAttribute-ChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Pressure Measurement cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.509 void emberAfPressureMeasurementClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Pressure Measurement cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.510 void emberAfPressureMeasurementClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Pressure Measurement cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.511 void emberAfPressureMeasurementClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Pressure Measurement cluster, Server Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.512 void emberAfPressureMeasurementClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Pressure Measurement cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.513 void emberAfFlowMeasurementClusterServerInitCallback (int8u endpoint)

Server Init.

Flow Measurement cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.514 void emberAfFlowMeasurementClusterClientInitCallback (int8u endpoint)

Client Init.

Flow Measurement cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.515 void emberAfFlowMeasurementClusterServerTickCallback (int8u endpoint)

Server Tick.

Flow Measurement cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.516 void emberAfFlowMeasurementClusterClientTickCallback (int8u endpoint)

Client Tick.

Flow Measurement cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.517 void emberAfFlowMeasurementClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Flow Measurement cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.518 void emberAfFlowMeasurementClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Flow Measurement cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.519 void emberAfFlowMeasurementClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Flow Measurement cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.520 void emberAfFlowMeasurementClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Flow Measurement cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.521 void emberAfFlowMeasurementClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Flow Measurement cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.522 void emberAfFlowMeasurementClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Flow Measurement cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.523 void emberAfFlowMeasurementClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Flow Measurement cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.524 void emberAfFlowMeasurementClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Flow Measurement cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.525 void emberAfRelativeHumidityMeasurementClusterServerInitCallback (int8u endpoint)

Server Init.

Relative Humidity Measurement cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.526 void emberAfRelativeHumidityMeasurementClusterClientInitCallback (int8u endpoint)

Client Init.

Relative Humidity Measurement cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.527 void emberAfRelativeHumidityMeasurementClusterServerTickCallback (int8u endpoint)

Server Tick.

Relative Humidity Measurement cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.528 void emberAfRelativeHumidityMeasurementClusterClientTickCallback (int8u endpoint)

Client Tick.

Relative Humidity Measurement cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.529 void emberAfRelativeHumidityMeasurementClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Relative Humidity Measurement cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.530 void emberAfRelativeHumidityMeasurementClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Relative Humidity Measurement cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.531 void emberAfRelativeHumidityMeasurementClusterServerManufacturerSpecific-AttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Relative Humidity Measurement cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.532 void emberAfRelativeHumidityMeasurementClusterClientManufacturerSpecific-AttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Relative Humidity Measurement cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.533 void emberAfRelativeHumidityMeasurementClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Relative Humidity Measurement cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.534 void emberAfRelativeHumidityMeasurementClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Relative Humidity Measurement cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.535 void emberAfRelativeHumidityMeasurementClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Relative Humidity Measurement cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.536 void emberAfRelativeHumidityMeasurementClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Relative Humidity Measurement cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.537 void emberAfOccupancySensingClusterServerInitCallback (int8u endpoint)

Server Init.

Occupancy Sensing cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.538 void emberAfOccupancySensingClusterClientInitCallback (int8u endpoint)

Client Init.

Occupancy Sensing cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.539 void emberAfOccupancySensingClusterServerTickCallback (int8u endpoint)

Server Tick.

Occupancy Sensing cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.540 void emberAfOccupancySensingClusterClientTickCallback (int8u endpoint)

Client Tick.

Occupancy Sensing cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.541 void emberAfOccupancySensingClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Occupancy Sensing cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.542 void emberAfOccupancySensingClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Occupancy Sensing cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.543 void emberAfOccupancySensingClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Occupancy Sensing cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.544 void emberAfOccupancySensingClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Occupancy Sensing cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.545 void emberAfOccupancySensingClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Occupancy Sensing cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.546 void emberAfOccupancySensingClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Occupancy Sensing cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.547 void emberAfOccupancySensingClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Occupancy Sensing cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.548 void emberAfOccupancySensingClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Occupancy Sensing cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.549 boolean emberAfIasZoneClusterZoneEnrollResponseCallback (int8u *enrollResponseCode*, int8u *zoneId*)

Zone Enroll Response.

Parameters

| | |
|----------------------------|--------------|
| <i>enroll-ResponseCode</i> | Ver.: always |
| <i>zoneId</i> | Ver.: always |

6.4.2.550 boolean emberAfIasZoneClusterZoneStatusChangeNotificationCallback (int16u *zoneStatus*, int8u *extendedStatus*)

Zone Status Change Notification.

Parameters

| | |
|-----------------------|--------------|
| <i>zoneStatus</i> | Ver.: always |
| <i>extendedStatus</i> | Ver.: always |

6.4.2.551 boolean emberAfIasZoneClusterZoneEnrollRequestCallback (int16u *zoneType*, int16u *manufacturerCode*)

Zone Enroll Request.

Parameters

| | |
|--------------------------|--------------|
| <i>zoneType</i> | Ver.: always |
| <i>manufacturer-Code</i> | Ver.: always |

6.4.2.552 void emberAfIasZoneClusterServerInitCallback (int8u *endpoint*)

Server Init.

IAS Zone cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.553 void emberAfIasZoneClusterClientInitCallback (int8u endpoint)

Client Init.

IAS Zone cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.554 void emberAfIasZoneClusterServerTickCallback (int8u endpoint)

Server Tick.

IAS Zone cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.555 void emberAfIasZoneClusterClientTickCallback (int8u endpoint)

Client Tick.

IAS Zone cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.556 void emberAfIasZoneClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

IAS Zone cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.557 void emberAfIasZoneClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

IAS Zone cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.558 void emberAfIasZoneClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

IAS Zone cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.559 void emberAfIasZoneClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

IAS Zone cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.560 void emberAfIasZoneClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

IAS Zone cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.561 void emberAfIasZoneClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

IAS Zone cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.562 void emberAfIasZoneClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

IAS Zone cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.563 void emberAfIasZoneClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

IAS Zone cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.564 boolean emberAfIasAceClusterArmCallback (int8u *armMode*)

Arm.

Parameters

| | |
|----------------|--------------|
| <i>armMode</i> | Ver.: always |
|----------------|--------------|

6.4.2.565 boolean emberAfIasAceClusterBypassCallback (int8u *numberOfZones*, int8u * *zoneIds*)

Bypass.

Parameters

| | |
|----------------------|--------------|
| <i>numberOfZones</i> | Ver.: always |
| <i>zoneIds</i> | Ver.: always |

6.4.2.566 boolean emberAfIasAceClusterEmergencyCallback (void)

Emergency.

6.4.2.567 boolean emberAfIasAceClusterFireCallback (void)

Fire.

6.4.2.568 boolean emberAfIasAceClusterPanicCallback (void)

Panic.

6.4.2.569 boolean emberAfIasAceClusterGetZoneIdMapCallback (void)

Get Zone Id Map.

6.4.2.570 boolean emberAfIasAceClusterGetZoneInformationCallback (int8u *zoneId*)

Get Zone Information.

Parameters

| | |
|---------------|--------------|
| <i>zoneId</i> | Ver.: always |
|---------------|--------------|

6.4.2.571 boolean emberAfIasAceClusterArmResponseCallback (int8u *armNotification*)

Arm Response.

Parameters

| | |
|------------------------|--------------|
| <i>armNotification</i> | Ver.: always |
|------------------------|--------------|

6.4.2.572 boolean emberAfIasAceClusterGetZoneIdMapResponseCallback (int16u *section0*, int16u *section1*, int16u *section2*, int16u *section3*, int16u *section4*, int16u *section5*, int16u *section6*, int16u *section7*, int16u *section8*, int16u *section9*, int16u *section10*, int16u *section11*, int16u *section12*, int16u *section13*, int16u *section14*, int16u *section15*)

Get Zone Id Map Response.

Parameters

| | |
|------------------|--------------|
| <i>section0</i> | Ver.: always |
| <i>section1</i> | Ver.: always |
| <i>section2</i> | Ver.: always |
| <i>section3</i> | Ver.: always |
| <i>section4</i> | Ver.: always |
| <i>section5</i> | Ver.: always |
| <i>section6</i> | Ver.: always |
| <i>section7</i> | Ver.: always |
| <i>section8</i> | Ver.: always |
| <i>section9</i> | Ver.: always |
| <i>section10</i> | Ver.: always |
| <i>section11</i> | Ver.: always |
| <i>section12</i> | Ver.: always |
| <i>section13</i> | Ver.: always |
| <i>section14</i> | Ver.: always |
| <i>section15</i> | Ver.: always |

6.4.2.573 boolean emberAfIasAceClusterGetZoneInformationResponseCallback (int8u *zoneId*, int16u *zoneType*, int8u * *ieeeAddress*)

Get Zone Information Response.

Parameters

| | |
|--------------------|--------------|
| <i>zoneId</i> | Ver.: always |
| <i>zoneType</i> | Ver.: always |
| <i>ieeeAddress</i> | Ver.: always |

6.4.2.574 void emberAfIasAceClusterServerInitCallback (int8u *endpoint*)

Server Init.

IAS ACE cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.575 void emberAfIasAceClusterClientInitCallback (int8u *endpoint*)

Client Init.

IAS ACE cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.576 void emberAfIasAceClusterServerTickCallback (int8u *endpoint*)

Server Tick.

IAS ACE cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.577 void emberAfIasAceClusterClientTickCallback (int8u *endpoint*)

Client Tick.

IAS ACE cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.578 void emberAfIasAceClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

IAS ACE cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.579 void emberAfIasAceClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

IAS ACE cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.580 void emberAfIasAceClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

IAS ACE cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.581 void emberAfIasAceClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

IAS ACE cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.582 void emberAfIasAceClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

IAS ACE cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.583 void emberAfIasAceClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

IAS ACE cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.584 void emberAfIasAceClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

IAS ACE cluster, Server Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.585 void emberAfIasAceClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

IAS ACE cluster, Client Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.586 boolean emberAfIasWdClusterStartWarningCallback (int8u *warningInfo*, int16u *warningDuration*)

Start Warning.

Parameters

| | |
|------------------------|--------------|
| <i>warningInfo</i> | Ver.: always |
| <i>warningDuration</i> | Ver.: always |

6.4.2.587 boolean emberAfIasWdClusterSquawkCallback (int8u *squawkInfo*)

Squawk.

Parameters

| | |
|-------------------|--------------|
| <i>squawkInfo</i> | Ver.: always |
|-------------------|--------------|

6.4.2.588 void emberAfIasWdClusterServerInitCallback (int8u *endpoint*)

Server Init.

IAS WD cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.589 void emberAfIasWdClusterClientInitCallback (int8u *endpoint*)

Client Init.

IAS WD cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.590 void emberAfIasWdClusterServerTickCallback (int8u *endpoint*)

Server Tick.

IAS WD cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.591 void emberAfIasWdClusterClientTickCallback (int8u *endpoint*)

Client Tick.

IAS WD cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.592 void emberAfIasWdClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

IAS WD cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.593 void emberAfIasWdClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

IAS WD cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.594 void emberAfIasWdClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

IAS WD cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.595 void emberAfIasWdClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

IAS WD cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.596 void emberAfIasWdClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

IAS WD cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.597 void emberAfIasWdClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

IAS WD cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.598 void emberAfIasWdClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

IAS WD cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.599 void emberAfIasWdClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

IAS WD cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.600 boolean emberAfDoorLockClusterLockDoorCallback (void)

Lock Door.

6.4.2.601 boolean emberAfDoorLockClusterUnlockDoorCallback (void)

Unlock Door.

6.4.2.602 boolean emberAfDoorLockClusterLockDoorResponseCallback (int8u status)

Lock Door Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.603 boolean emberAfDoorLockClusterUnlockDoorResponseCallback (int8u status)

Unlock Door Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.604 void emberAfDoorLockClusterServerInitCallback (int8u endpoint)

Server Init.

Door Lock cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.605 void emberAfDoorLockClusterClientInitCallback (int8u endpoint)

Client Init.

Door Lock cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.606 void emberAfDoorLockClusterServerTickCallback (int8u endpoint)

Server Tick.

Door Lock cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.607 void emberAfDoorLockClusterClientTickCallback (int8u endpoint)

Client Tick.

Door Lock cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.608 void emberAfDoorLockClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Door Lock cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.609 void emberAfDoorLockClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Door Lock cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.610 void emberAfDoorLockClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Door Lock cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.611 void emberAfDoorLockClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Door Lock cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.612 void emberAfDoorLockClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Door Lock cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.613 void emberAfDoorLockClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Door Lock cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.614 void emberAfDoorLockClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Door Lock cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.615 void emberAfDoorLockClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Door Lock cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.616 boolean emberAfDoorLockClusterGetLockStatusCallback (void)

Get Lock Status.

6.4.2.617 boolean emberAfDoorLockClusterUnlockWithTimeoutCallback (int8u *timeoutInSeconds*)

Unlock With Timeout.

Parameters

| | |
|--------------------------|--------------|
| <i>timeoutIn-Seconds</i> | Ver.: always |
|--------------------------|--------------|

6.4.2.618 boolean emberAfDoorLockClusterGetBatteryLevelCallback (void)

Get Batterylevel.

6.4.2.619 boolean emberAfDoorLockClusterSetRfLockoutTimeCallback (int8u *dayOfWeek*, int16u *startTimeInMinutesAfterMidnight*, int16u *stopTimeInMinutesAfterMidnight*)

Set Rf Lockout Time.

Parameters

| | |
|--|--------------|
| <i>dayOfWeek</i> | Ver.: always |
| <i>startTimeIn- MinutesAfter- Midnight</i> | Ver.: always |
| <i>stopTimeIn- MinutesAfter- Midnight</i> | Ver.: always |

6.4.2.620 boolean emberAfDoorLockClusterGetRfLockoutTimeCallback (int8u *dayOfWeek*)

Get Rf Lockout Time.

Parameters

| | |
|------------------|--------------|
| <i>dayOfWeek</i> | Ver.: always |
|------------------|--------------|

6.4.2.621 boolean emberAfDoorLockClusterGetLogRecordCallback (int16u *logNumber*)

Get Log Record.

Parameters

| | |
|------------------|--------------|
| <i>logNumber</i> | Ver.: always |
|------------------|--------------|

6.4.2.622 boolean emberAfDoorLockClusterUserCodeSetCallback (int8u *userId*, int8u *userStatus*, int8u * *code*)

User Code Set.

Parameters

| | |
|-------------------|--------------|
| <i>userId</i> | Ver.: always |
| <i>userStatus</i> | Ver.: always |
| <i>code</i> | Ver.: always |

6.4.2.623 boolean emberAfDoorLockClusterUserCodeGetCallback (int8u *userId*)

User Code Get.

Parameters

| | |
|---------------|--------------|
| <i>userId</i> | Ver.: always |
|---------------|--------------|

6.4.2.624 boolean emberAfDoorLockClusterUserCodeClearCallback (int8u *userId*)

User Code Clear.

Parameters

| | |
|---------------|--------------|
| <i>userId</i> | Ver.: always |
|---------------|--------------|

6.4.2.625 boolean emberAfDoorLockClusterClearAllUserCodesCallback (void)

Clear All User Codes.

6.4.2.626 boolean emberAfDoorLockClusterSetUserCodeStatusCallback (int8u *userId*, int8u *userStatus*)

Set User Code Status.

Parameters

| | |
|-------------------|--------------|
| <i>userId</i> | Ver.: always |
| <i>userStatus</i> | Ver.: always |

6.4.2.627 boolean emberAfDoorLockClusterGetUserCodeStatusCallback (int8u *userId*)

Get User Code Status.

Parameters

| | |
|---------------|--------------|
| <i>userId</i> | Ver.: always |
|---------------|--------------|

6.4.2.628 boolean emberAfDoorLockClusterGetLastUserIdEnteredCallback (void)

Get Last User Id Entered.

6.4.2.629 boolean emberAfDoorLockClusterSetScheduleSlotCallback (int8u slotNumber, int8u userId, int8u daysMask, int8u startHour, int8u startMinute, int8u durationHour, int8u durationMinute)

Set Schedule Slot.

Parameters

| | |
|-----------------------|--------------|
| <i>slotNumber</i> | Ver.: always |
| <i>userId</i> | Ver.: always |
| <i>daysMask</i> | Ver.: always |
| <i>startHour</i> | Ver.: always |
| <i>startMinute</i> | Ver.: always |
| <i>durationHour</i> | Ver.: always |
| <i>durationMinute</i> | Ver.: always |

6.4.2.630 boolean emberAfDoorLockClusterGetScheduleSlotCallback (int8u slotNumber, int8u userId)

Get Schedule Slot.

Parameters

| | |
|-------------------|--------------|
| <i>slotNumber</i> | Ver.: always |
| <i>userId</i> | Ver.: always |

6.4.2.631 boolean emberAfDoorLockClusterSetScheduleSlotStatusCallback (int8u slotNumber, int8u userId, int8u status)

Set Schedule Slot Status.

Parameters

| | |
|-------------------|--------------|
| <i>slotNumber</i> | Ver.: always |
| <i>userId</i> | Ver.: always |
| <i>status</i> | Ver.: always |

6.4.2.632 boolean emberAfDoorLockClusterSetIndicatorCallback (int8u indicatorNumber, int8u state)

Set Indicator.

Parameters

| | |
|------------------------|--------------|
| <i>indicatorNumber</i> | Ver.: always |
| <i>state</i> | Ver.: always |

6.4.2.633 boolean emberAfDoorLockClusterGetLockStatusResponseCallback (int8u *lockMode*, int8u *boltCondition*, int8u *handleCondition*, int8u *relockTimeout*)

Get Lock Status Response.

Parameters

| | |
|------------------------|--------------|
| <i>lockMode</i> | Ver.: always |
| <i>boltCondition</i> | Ver.: always |
| <i>handleCondition</i> | Ver.: always |
| <i>relockTimeout</i> | Ver.: always |

6.4.2.634 boolean emberAfDoorLockClusterUnlockWithTimeoutResponseCallback (int8u *status*)

Unlock With Timeout Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.635 boolean emberAfDoorLockClusterGetBatteryLevelResponseCallback (int8u *batteryLevel*)

Get Battery Level Response.

Parameters

| | |
|---------------------|--------------|
| <i>batteryLevel</i> | Ver.: always |
|---------------------|--------------|

6.4.2.636 boolean emberAfDoorLockClusterSetRfLockoutTimeResponseCallback (int8u *status*)

Set Rf Lockout Time Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.637 boolean emberAfDoorLockClusterGetRfLockoutTimeResponseCallback (int8u *dayOfWeek*, int16u *startTimeInMinutesAfterMidnight*, int16u *stopTimeInMinutesAfterMidnight*)

Get Rf Lockout Time Response.

Parameters

| | |
|--|--------------|
| <i>dayOfWeek</i> | Ver.: always |
| <i>startTimeInMinutesAfterMidnight</i> | Ver.: always |

| | |
|---------------------------------------|--------------|
| <i>stopTimeInMinutesAfterMidnight</i> | Ver.: always |
|---------------------------------------|--------------|

6.4.2.638 boolean emberAfDoorLockClusterGetLogRecordResponseCallback (int16u *logEntryId*, int32u *timestamp*, int8u *eventType*, int8u *userId*)

Get Log Record Response.

Parameters

| | |
|-------------------|--------------|
| <i>logEntryId</i> | Ver.: always |
| <i>timestamp</i> | Ver.: always |
| <i>eventType</i> | Ver.: always |
| <i>userId</i> | Ver.: always |

6.4.2.639 boolean emberAfDoorLockClusterUserCodeSetResponseCallback (int8u *status*)

User Code Set Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.640 boolean emberAfDoorLockClusterUserCodeGetResponseCallback (int8u *userId*, int8u *userStatus*, int8u * *code*)

User Code Get Response.

Parameters

| | |
|-------------------|--------------|
| <i>userId</i> | Ver.: always |
| <i>userStatus</i> | Ver.: always |
| <i>code</i> | Ver.: always |

6.4.2.641 boolean emberAfDoorLockClusterUserCodeClearResponseCallback (int8u *status*)

User Code Clear Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.642 boolean emberAfDoorLockClusterClearAllUserCodesResponseCallback (int8u *status*)

Clear All User Codes Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.643 boolean emberAfDoorLockClusterSetUserCodeStatusResponseCallback (int8u *status*)

Set User Code Status Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.644 boolean emberAfDoorLockClusterGetUserCodeStatusResponseCallback (int8u *userId*, int8u *userStatus*)

Get User Code Status Response.

Parameters

| | |
|-------------------|--------------|
| <i>userId</i> | Ver.: always |
| <i>userStatus</i> | Ver.: always |

6.4.2.645 boolean emberAfDoorLockClusterGetLastUserIdEnteredResponseCallback (int8u *userId*, int8u *reason*)

Get Last User Id Entered Response.

Parameters

| | |
|---------------|--------------|
| <i>userId</i> | Ver.: always |
| <i>reason</i> | Ver.: always |

6.4.2.646 boolean emberAfDoorLockClusterUserAddedCallback (int8u *userId*, int8u *userStatus*, int8u * *code*)

User Added.

Parameters

| | |
|-------------------|--------------|
| <i>userId</i> | Ver.: always |
| <i>userStatus</i> | Ver.: always |
| <i>code</i> | Ver.: always |

6.4.2.647 boolean emberAfDoorLockClusterUserDeletedCallback (int8u *userId*)

User Deleted.

Parameters

| | |
|---------------|--------------|
| <i>userId</i> | Ver.: always |
|---------------|--------------|

6.4.2.648 boolean emberAfDoorLockClusterSetScheduleSlotResponseCallback (int8u *status*)

Set Schedule Slot Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.649 boolean emberAfDoorLockClusterGetScheduleSlotResponseCallback (int8u *slotNumber*, int8u *userId*, int8u *daysMask*, int8u *startHour*, int8u *startMinute*, int8u *durationHour*, int8u *durationMinute*)

Get Schedule Slot Response.

Parameters

| | |
|-----------------------|--------------|
| <i>slotNumber</i> | Ver.: always |
| <i>userId</i> | Ver.: always |
| <i>daysMask</i> | Ver.: always |
| <i>startHour</i> | Ver.: always |
| <i>startMinute</i> | Ver.: always |
| <i>durationHour</i> | Ver.: always |
| <i>durationMinute</i> | Ver.: always |

6.4.2.650 boolean emberAfDoorLockClusterSetScheduleSlotStatusResponseCallback (int8u *status*)

Set Schedule Slot Status Response.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.651 boolean emberAfWindowCoveringClusterWindowCoveringUpOpenCallback (void)

Window Covering Up Open.

6.4.2.652 boolean emberAfWindowCoveringClusterWindowCoveringDownCloseCallback (void)

Window Covering Down Close.

6.4.2.653 boolean emberAfWindowCoveringClusterWindowCoveringStopCallback (void)

Window Covering Stop.

6.4.2.654 boolean emberAfWindowCoveringClusterWindowCoveringGoToLiftSetpointCallback (int8u *indexOfLiftSetpoint*)

Window Covering Go To Lift Setpoint.

Parameters

| | |
|----------------------------------|--------------|
| <i>indexOfLift- Setpoint</i> | Ver.: always |
|----------------------------------|--------------|

6.4.2.655 boolean emberAfWindowCoveringClusterWindowCoveringGoToLiftValueCallback (int16u *liftValue*)

Window Covering Go To Lift Value.

Parameters

| | |
|------------------|--------------|
| <i>liftValue</i> | Ver.: always |
|------------------|--------------|

6.4.2.656 boolean emberAfWindowCoveringClusterWindowCoveringGoToLiftPercentageCallback (int8u *percentageLiftValue*)

Window Covering Go To Lift Percentage.

Parameters

| | |
|----------------------------------|--------------|
| <i>percentageLift- Value</i> | Ver.: always |
|----------------------------------|--------------|

6.4.2.657 boolean emberAfWindowCoveringClusterWindowCoveringGoToTiltSetpointCallback (int8u *indexOfTiltSetpoint*)

Window Covering Go To Tilt Setpoint.

Parameters

| | |
|----------------------------------|--------------|
| <i>indexOfTilt- Setpoint</i> | Ver.: always |
|----------------------------------|--------------|

6.4.2.658 boolean emberAfWindowCoveringClusterWindowCoveringGoToTiltValueCallback (int16u *tiltValue*)

Window Covering Go To Tilt Value.

Parameters

| | |
|------------------|--------------|
| <i>tiltValue</i> | Ver.: always |
|------------------|--------------|

6.4.2.659 boolean emberAfWindowCoveringClusterWindowCoveringGoToTiltPercentageCallback (int8u *percentageTiltValue*)

Window Covering Go To Tilt Percentage.

Parameters

| | |
|----------------------------|--------------|
| <i>percentageTiltValue</i> | Ver.: always |
|----------------------------|--------------|

6.4.2.660 boolean emberAfWindowCoveringClusterWindowCoveringGoToProgram-SetpointCallback (int8u *setpointType*, int8u *setpointIndex*, int16u *setpointValue*)

Window Covering Go To Program Setpoint.

Parameters

| | |
|----------------------|--------------|
| <i>setpointType</i> | Ver.: always |
| <i>setpointIndex</i> | Ver.: always |
| <i>setpointValue</i> | Ver.: always |

6.4.2.661 void emberAfWindowCoveringClusterServerInitCallback (int8u *endpoint*)

Server Init.

Window Covering cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.662 void emberAfWindowCoveringClusterClientInitCallback (int8u *endpoint*)

Client Init.

Window Covering cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.663 void emberAfWindowCoveringClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Window Covering cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.664 void emberAfWindowCoveringClusterClientTickCallback (int8u endpoint)

Client Tick.

Window Covering cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.665 void emberAfWindowCoveringClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Window Covering cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.666 void emberAfWindowCoveringClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Window Covering cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.667 void emberAfWindowCoveringClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Window Covering cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.668 void emberAfWindowCoveringClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Window Covering cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.669 void emberAfWindowCoveringClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Window Covering cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.670 void emberAfWindowCoveringClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Window Covering cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.671 void emberAfWindowCoveringClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Window Covering cluster, Server Message Sent

Parameters

| | |
|-------------|---------------------------------------|
| <i>type</i> | The type of message sent Ver.: always |
|-------------|---------------------------------------|

| | |
|---------------------------|---|
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.672 void emberAfWindowCoveringClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Window Covering cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.673 boolean emberAfPowerProfileClusterPowerProfileRequestCallback (int8u *powerProfileId*)

Power Profile Request.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
|-----------------------|--------------|

6.4.2.674 boolean emberAfPowerProfileClusterPowerProfileStateRequestCallback (void)

Power Profile State Request.

6.4.2.675 boolean emberAfPowerProfileClusterGetPowerProfilePriceResponseCallback (int8u *powerProfileId*, int16u *currency*, int32u *price*, int8u *priceTrailingDigit*)

Get Power Profile Price Response.

Parameters

| | |
|---------------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
| <i>currency</i> | Ver.: always |
| <i>price</i> | Ver.: always |
| <i>priceTrailingDigit</i> | Ver.: always |

6.4.2.676 boolean emberAfPowerProfileClusterGetOverallSchedulePriceResponseCallback (int16u currency, int32u price, int8u priceTrailingDigit)

Get Overall Schedule Price Response.

Parameters

| | |
|----------------------------|--------------|
| <i>currency</i> | Ver.: always |
| <i>price</i> | Ver.: always |
| <i>priceTrailing-Digit</i> | Ver.: always |

6.4.2.677 boolean emberAfPowerProfileClusterEnergyPhasesScheduleNotificationCallback (int8u powerProfileId, int8u numOfScheduledPhases, int8u * scheduledPhases)

Energy Phases Schedule Notification.

Parameters

| | |
|-------------------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
| <i>numOf-Scheduled-Phases</i> | Ver.: always |
| <i>scheduled-Phases</i> | Ver.: always |

6.4.2.678 boolean emberAfPowerProfileClusterEnergyPhasesScheduleResponseCallback (int8u powerProfileId, int8u numOfScheduledPhases, int8u * scheduledPhases)

Energy Phases Schedule Response.

Parameters

| | |
|-------------------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
| <i>numOf-Scheduled-Phases</i> | Ver.: always |
| <i>scheduled-Phases</i> | Ver.: always |

6.4.2.679 boolean emberAfPowerProfileClusterPowerProfileScheduleConstraintsRequestCallback (int8u powerProfileId)

Power Profile Schedule Constraints Request.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
|-----------------------|--------------|

6.4.2.680 boolean emberAfPowerProfileClusterEnergyPhasesScheduleStateRequestCallback (int8u powerProfileId)

Energy Phases Schedule State Request.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
|-----------------------|--------------|

6.4.2.681 boolean emberAfPowerProfileClusterPowerProfileNotificationCallback (int8u totalProfileNum, int8u powerProfileId, int8u numOfTransferredPhases, int8u * transferredPhases)

Power Profile Notification.

Parameters

| | |
|---------------------------------|--------------|
| <i>totalProfile-Num</i> | Ver.: always |
| <i>powerProfileId</i> | Ver.: always |
| <i>numOf-Transferred-Phases</i> | Ver.: always |
| <i>transferred-Phases</i> | Ver.: always |

6.4.2.682 boolean emberAfPowerProfileClusterPowerProfileResponseCallback (int8u totalProfileNum, int8u powerProfileId, int8u numOfTransferredPhases, int8u * transferredPhases)

Power Profile Response.

Parameters

| | |
|---------------------------------|--------------|
| <i>totalProfile-Num</i> | Ver.: always |
| <i>powerProfileId</i> | Ver.: always |
| <i>numOf-Transferred-Phases</i> | Ver.: always |
| <i>transferred-Phases</i> | Ver.: always |

6.4.2.683 boolean emberAfPowerProfileClusterPowerProfileStateResponseCallback (int8u powerProfileCount, int8u * powerProfileRecords)

Power Profile State Response.

Parameters

| | |
|-----------------------------|--------------|
| <i>powerProfile-Count</i> | Ver.: always |
| <i>powerProfile-Records</i> | Ver.: always |

6.4.2.684 boolean emberAfPowerProfileClusterGetPowerProfilePriceCallback (int8u *powerProfileId*)

Get Power Profile Price.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
|-----------------------|--------------|

6.4.2.685 boolean emberAfPowerProfileClusterPowerProfilesStateNotificationCallback (int8u *powerProfileCount*, int8u * *powerProfileRecords*)

Power Profiles State Notification.

Parameters

| | |
|-----------------------------|--------------|
| <i>powerProfile-Count</i> | Ver.: always |
| <i>powerProfile-Records</i> | Ver.: always |

6.4.2.686 boolean emberAfPowerProfileClusterGetOverallSchedulePriceCallback (void)

Get Overall Schedule Price.

6.4.2.687 boolean emberAfPowerProfileClusterEnergyPhasesScheduleRequestCallback (int8u *powerProfileId*)

Energy Phases Schedule Request.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
|-----------------------|--------------|

6.4.2.688 boolean emberAfPowerProfileClusterEnergyPhasesScheduleStateResponseCallback (int8u *powerProfileId*, int8u *numOfScheduledPhases*, int8u * *scheduledPhases*)

Energy Phases Schedule State Response.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
|-----------------------|--------------|

| | |
|-----------------------------|--------------|
| <i>numOfScheduledPhases</i> | Ver.: always |
| <i>scheduledPhases</i> | Ver.: always |

6.4.2.689 boolean emberAfPowerProfileClusterEnergyPhasesScheduleStateNotificationCallback (int8u *powerProfileId*, int8u *numOfScheduledPhases*, int8u * *scheduledPhases*)

Energy Phases Schedule State Notification.

Parameters

| | |
|-----------------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
| <i>numOfScheduledPhases</i> | Ver.: always |
| <i>scheduledPhases</i> | Ver.: always |

6.4.2.690 boolean emberAfPowerProfileClusterPowerProfileScheduleConstraints-NotificationCallback (int8u *powerProfileId*, int16u *startAfter*, int16u *stopBefore*)

Power Profile Schedule Constraints Notification.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
| <i>startAfter</i> | Ver.: always |
| <i>stopBefore</i> | Ver.: always |

6.4.2.691 boolean emberAfPowerProfileClusterPowerProfileScheduleConstraintsResponseCallback (int8u *powerProfileId*, int16u *startAfter*, int16u *stopBefore*)

Power Profile Schedule Constraints Response.

Parameters

| | |
|-----------------------|--------------|
| <i>powerProfileId</i> | Ver.: always |
| <i>startAfter</i> | Ver.: always |
| <i>stopBefore</i> | Ver.: always |

6.4.2.692 void emberAfPowerProfileClusterServerInitCallback (int8u *endpoint*)

Server Init.

Power Profile cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.693 void emberAfPowerProfileClusterClientInitCallback (int8u endpoint)

Client Init.

Power Profile cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.694 void emberAfPowerProfileClusterServerTickCallback (int8u endpoint)

Server Tick.

Power Profile cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.695 void emberAfPowerProfileClusterClientTickCallback (int8u endpoint)

Client Tick.

Power Profile cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.696 void emberAfPowerProfileClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Power Profile cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.697 void emberAfPowerProfileClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Power Profile cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.698 void emberAfPowerProfileClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Power Profile cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.699 void emberAfPowerProfileClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Power Profile cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.700 void emberAfPowerProfileClusterServerDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Server Default Response.

Power Profile cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.701 void emberAfPowerProfileClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Power Profile cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.702 void emberAfPowerProfileClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Power Profile cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.703 void emberAfPowerProfileClusterClientMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Power Profile cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.704 boolean emberAfApplianceControlClusterExecutionOfACommandCallback (int8u *commandId*)

Execution Of A Command.

Parameters

| | |
|------------------|--------------|
| <i>commandId</i> | Ver.: always |
|------------------|--------------|

6.4.2.705 boolean emberAfApplianceControlClusterSignalStateCallback (void)

Signal State.

6.4.2.706 boolean emberAfApplianceControlClusterWriteFunctionsCallback (int16u *functionId*, int8u *functionDataType*, int8u * *functionData*)

Write Functions.

Parameters

| | |
|-------------------------------------|--------------|
| <i>functionId</i> | Ver.: always |
| <i>functionData-</i> <i>Type</i> | Ver.: always |
| <i>functionData</i> | Ver.: always |

6.4.2.707 boolean emberAfApplianceControlClusterOverloadPauseResumeCallback (void)

Overload Pause Resume.

6.4.2.708 boolean emberAfApplianceControlClusterOverloadPauseCallback (void)

Overload Pause.

6.4.2.709 boolean emberAfApplianceControlClusterOverloadWarningCallback (int8u *warningEvent*)

Overload Warning.

Parameters

| | |
|---------------------|--------------|
| <i>warningEvent</i> | Ver.: always |
|---------------------|--------------|

6.4.2.710 boolean emberAfApplianceControlClusterSignalStateResponseCallback (int8u *applianceStatus*, int8u *remoteEnableFlagsAndDeviceStatus2*, int32u *applianceStatus2*)

Signal State Response.

Parameters

| | |
|---|--------------|
| <i>appliance-Status</i> | Ver.: always |
| <i>remoteEnable-FlagsAndDeviceStatus2</i> | Ver.: always |
| <i>appliance-Status2</i> | Ver.: always |

6.4.2.711 boolean emberAfApplianceControlClusterSignalStateNotificationCallback (int8u *applianceStatus*, int8u *remoteEnableFlagsAndDeviceStatus2*, int32u *applianceStatus2*)

Signal State Notification.

Parameters

| | |
|---|--------------|
| <i>appliance-Status</i> | Ver.: always |
| <i>remoteEnable-FlagsAndDeviceStatus2</i> | Ver.: always |
| <i>appliance-Status2</i> | Ver.: always |

6.4.2.712 void emberAfApplianceControlClusterServerInitCallback (int8u *endpoint*)

Server Init.

Appliance Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.713 void emberAfApplianceControlClusterClientInitCallback (int8u *endpoint*)

Client Init.

Appliance Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.714 void emberAfApplianceControlClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Appliance Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.715 void emberAfApplianceControlClusterClientTickCallback (int8u endpoint)

Client Tick.

Appliance Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.716 void emberAfApplianceControlClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Appliance Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.717 void emberAfApplianceControlClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Appliance Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.718 void emberAfApplianceControlClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Appliance Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.719 void emberAfApplianceControlClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Appliance Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.720 void emberAfApplianceControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Appliance Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.721 void emberAfApplianceControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Appliance Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.722 void emberAfApplianceControlClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Appliance Control cluster, Server Message Sent

Parameters

| | |
|-------------|---------------------------------------|
| <i>type</i> | The type of message sent Ver.: always |
|-------------|---------------------------------------|

| | |
|---------------------------|---|
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.723 void emberAfApplianceControlClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Appliance Control cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.724 boolean emberAfPollControlClusterCheckInCallback (void)

Check In.

6.4.2.725 boolean emberAfPollControlClusterCheckInResponseCallback (int8u *startFastPolling*, int16u *fastPollTimeout*)

Check In Response.

Parameters

| | |
|-------------------------|--------------|
| <i>startFastPolling</i> | Ver.: always |
| <i>fastPollTimeout</i> | Ver.: always |

6.4.2.726 boolean emberAfPollControlClusterFastPollStopCallback (void)

Fast Poll Stop.

6.4.2.727 boolean emberAfPollControlClusterSetLongPollIntervalCallback (int32u *newLongPollInterval*)

Set Long Poll Interval.

Parameters

| | |
|-----------------------------|--------------|
| <i>newLongPoll-Interval</i> | Ver.: always |
|-----------------------------|--------------|

6.4.2.728 boolean emberAfPollControlClusterSetShortPollIntervalCallback (int16u newShortPollInterval)

Set Short Poll Interval.

Parameters

| | |
|------------------------------|--------------|
| <i>newShortPoll-Interval</i> | Ver.: always |
|------------------------------|--------------|

6.4.2.729 void emberAfPollControlClusterServerInitCallback (int8u endpoint)

Server Init.

Poll Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.730 void emberAfPollControlClusterClientInitCallback (int8u endpoint)

Client Init.

Poll Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.731 void emberAfPollControlClusterServerTickCallback (int8u endpoint)

Server Tick.

Poll Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.732 void emberAfPollControlClusterClientTickCallback (int8u endpoint)

Client Tick.

Poll Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.733 void emberAfPollControlClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Poll Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.734 void emberAfPollControlClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Poll Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.735 void emberAfPollControlClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Poll Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.736 void emberAfPollControlClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Poll Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.737 void emberAfPollControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Poll Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.738 void emberAfPollControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Poll Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.739 void emberAfPollControlClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Poll Control cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.740 void emberAfPollControlClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Poll Control cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.741 void emberAfApplianceIdentificationClusterServerInitCallback (int8u *endpoint*)

Server Init.

Appliance Identification cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.742 void emberAfApplianceIdentificationClusterClientInitCallback (int8u *endpoint*)

Client Init.

Appliance Identification cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.743 void emberAfApplianceIdentificationClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Appliance Identification cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.744 void emberAfApplianceIdentificationClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Appliance Identification cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.745 void emberAfApplianceIdentificationClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Appliance Identification cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.746 void emberAfApplianceIdentificationClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Appliance Identification cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.747 void emberAfApplianceIdentificationClusterServerManufacturerSpecificAttribute-ChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Appliance Identification cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.748 void emberAfApplianceIdentificationClusterClientManufacturerSpecificAttribute-ChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Appliance Identification cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.749 void emberAfApplianceIdentificationClusterServerDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Server Default Response.

Appliance Identification cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.750 void emberAfApplianceIdentificationClusterClientDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Client Default Response.

Appliance Identification cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.751 void emberAfApplianceIdentificationClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Appliance Identification cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.752 void emberAfApplianceIdentificationClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Appliance Identification cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.753 void emberAfMeterIdentificationClusterServerInitCallback (int8u *endpoint*)

Server Init.

Meter Identification cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.754 void emberAfMeterIdentificationClusterClientInitCallback (int8u *endpoint*)

Client Init.

Meter Identification cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.755 void emberAfMeterIdentificationClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Meter Identification cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.756 void emberAfMeterIdentificationClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Meter Identification cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.757 void emberAfMeterIdentificationClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Meter Identification cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.758 void emberAfMeterIdentificationClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Meter Identification cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.759 void emberAfMeterIdentificationClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Meter Identification cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.760 void emberAfMeterIdentificationClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Meter Identification cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.761 void emberAfMeterIdentificationClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Meter Identification cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.762 void emberAfMeterIdentificationClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Meter Identification cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.763 void emberAfMeterIdentificationClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Meter Identification cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.764 void emberAfMeterIdentificationClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Meter Identification cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.765 boolean emberAfApplianceEventsAndAlertClusterGetAlertsCallback (void)

Get Alerts.

6.4.2.766 boolean emberAfApplianceEventsAndAlertClusterGetAlertsResponseCallback (int8u *alertsCount*, int8u * *alertStructures*)

Get Alerts Response.

Parameters

| | |
|------------------------|--------------|
| <i>alertsCount</i> | Ver.: always |
| <i>alertStructures</i> | Ver.: always |

6.4.2.767 boolean emberAfApplianceEventsAndAlertClusterAlertsNotificationCallback (int8u *alertsCount*, int8u * *alertStructures*)

Alerts Notification.

Parameters

| | |
|------------------------|--------------|
| <i>alertsCount</i> | Ver.: always |
| <i>alertStructures</i> | Ver.: always |

6.4.2.768 boolean emberAfApplianceEventsAndAlertClusterEventsNotificationCallback (int8u *eventHeader*, int8u *eventId*)

Events Notification.

Parameters

| | |
|--------------------|--------------|
| <i>eventHeader</i> | Ver.: always |
| <i>eventId</i> | Ver.: always |

6.4.2.769 void emberAfApplianceEventsAndAlertClusterServerInitCallback (int8u endpoint)

Server Init.

Appliance Events and Alert cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.770 void emberAfApplianceEventsAndAlertClusterClientInitCallback (int8u endpoint)

Client Init.

Appliance Events and Alert cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.771 void emberAfApplianceEventsAndAlertClusterServerTickCallback (int8u endpoint)

Server Tick.

Appliance Events and Alert cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.772 void emberAfApplianceEventsAndAlertClusterClientTickCallback (int8u endpoint)

Client Tick.

Appliance Events and Alert cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.773 void emberAfApplianceEventsAndAlertClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeId)

Server Attribute Changed.

Appliance Events and Alert cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.774 void emberAfApplianceEventsAndAlertClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Appliance Events and Alert cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.775 void emberAfApplianceEventsAndAlertClusterServerManufacturerSpecific-AttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Appliance Events and Alert cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.776 void emberAfApplianceEventsAndAlertClusterClientManufacturerSpecific-AttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Appliance Events and Alert cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.777 void emberAfApplianceEventsAndAlertClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Appliance Events and Alert cluster, Server Default Response

Parameters

| | |
|------------------|-----------------------------------|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |

| | |
|---------------|---|
| <i>status</i> | Status in default response Ver.: always |
|---------------|---|

6.4.2.778 void emberAfApplianceEventsAndAlertClusterClientDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Client Default Response.

Appliance Events and Alert cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.779 void emberAfApplianceEventsAndAlertClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

Appliance Events and Alert cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.780 void emberAfApplianceEventsAndAlertClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

Appliance Events and Alert cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.781 boolean emberAfGenericTunnelClusterMatchProtocolAddressCallback (int8u * protocolAddress)

Match Protocol Address.

Parameters

| | |
|-------------------------|--------------|
| <i>protocol-Address</i> | Ver.: always |
|-------------------------|--------------|

6.4.2.782 boolean emberAfGenericTunnelClusterMatchProtocolAddressResponseCallback (int8u * deviceIeeeAddress, int8u * protocolAddress)

Match Protocol Address Response.

Parameters

| | |
|---------------------------|--------------|
| <i>deviceIeee-Address</i> | Ver.: always |
| <i>protocol-Address</i> | Ver.: always |

6.4.2.783 boolean emberAfGenericTunnelClusterAdvertiseProtocolAddressCallback (int8u * protocolAddress)

Advertise Protocol Address.

Parameters

| | |
|-------------------------|--------------|
| <i>protocol-Address</i> | Ver.: always |
|-------------------------|--------------|

6.4.2.784 void emberAfGenericTunnelClusterServerInitCallback (int8u endpoint)

Server Init.

Generic Tunnel cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.785 void emberAfGenericTunnelClusterClientInitCallback (int8u endpoint)

Client Init.

Generic Tunnel cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.786 void emberAfGenericTunnelClusterServerTickCallback (int8u endpoint)

Server Tick.

Generic Tunnel cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.787 void emberAfGenericTunnelClusterClientTickCallback (int8u endpoint)

Client Tick.

Generic Tunnel cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.788 void emberAfGenericTunnelClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Generic Tunnel cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.789 void emberAfGenericTunnelClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Generic Tunnel cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.790 void emberAfGenericTunnelClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Generic Tunnel cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.791 void emberAfGenericTunnelClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Generic Tunnel cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.792 void emberAfGenericTunnelClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Generic Tunnel cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.793 void emberAfGenericTunnelClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Generic Tunnel cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.794 void emberAfGenericTunnelClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Generic Tunnel cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.795 void emberAfGenericTunnelClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Generic Tunnel cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.796 boolean emberAfBacnetProtocolTunnelClusterTransferNpduCallback (int8u * *npdu*)

Transfer Npdu.

Parameters

| | |
|-------------|--------------|
| <i>npdu</i> | Ver.: always |
|-------------|--------------|

6.4.2.797 void emberAfBacnetProtocolTunnelClusterServerInitCallback (int8u *endpoint*)

Server Init.

BACnet Protocol Tunnel cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.798 void emberAfBacnetProtocolTunnelClusterClientInitCallback (int8u *endpoint*)

Client Init.

BACnet Protocol Tunnel cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.799 void emberAfBacnetProtocolTunnelClusterServerTickCallback (int8u *endpoint*)

Server Tick.

BACnet Protocol Tunnel cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.800 void emberAfBacnetProtocolTunnelClusterClientTickCallback (int8u *endpoint*)

Client Tick.

BACnet Protocol Tunnel cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.801 void emberAfBacnetProtocolTunnelClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*)

Server Attribute Changed.

BACnet Protocol Tunnel cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.802 void emberAfBacnetProtocolTunnelClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

BACnet Protocol Tunnel cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.803 void emberAfBacnetProtocolTunnelClusterServerManufacturerSpecificAttribute-ChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

BACnet Protocol Tunnel cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.804 void emberAfBacnetProtocolTunnelClusterClientManufacturerSpecificAttribute-ChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

BACnet Protocol Tunnel cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.805 void emberAfBacnetProtocolTunnelClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

BACnet Protocol Tunnel cluster, Server Default Response

Parameters

| | |
|------------------|-----------------------------------|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |

| | |
|---------------|---|
| <i>status</i> | Status in default response Ver.: always |
|---------------|---|

6.4.2.806 void emberAfBacnetProtocolTunnelClusterClientDefaultResponseCallback (int8u endpoint, int8u commandId, EmberAfStatus status)

Client Default Response.

BACnet Protocol Tunnel cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.807 void emberAfBacnetProtocolTunnelClusterServerMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Server Message Sent.

BACnet Protocol Tunnel cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.808 void emberAfBacnetProtocolTunnelClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

BACnet Protocol Tunnel cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.809 boolean emberAfOtaBootloadClusterImageNotifyCallback (int8u *payloadType*, int8u *queryJitter*, int16u *manufacturerId*, int16u *imageType*, int32u *newFileVersion*)

Image Notify.

Parameters

| | |
|-----------------------|--------------|
| <i>payloadType</i> | Ver.: always |
| <i>queryJitter</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>newFileVersion</i> | Ver.: always |

6.4.2.810 boolean emberAfOtaBootloadClusterQueryNextImageRequestCallback (int8u *fieldControl*, int16u *manufacturerId*, int16u *imageType*, int32u *currentFileVersion*, int16u *hardwareVersion*)

Query Next Image Request.

Parameters

| | |
|---------------------------|--------------|
| <i>fieldControl</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>currentFileVersion</i> | Ver.: always |
| <i>hardwareVersion</i> | Ver.: always |

6.4.2.811 boolean emberAfOtaBootloadClusterQueryNextImageResponseCallback (int8u *status*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int32u *imageSize*)

Query Next Image Response.

Parameters

| | |
|-----------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>imageSize</i> | Ver.: always |

6.4.2.812 boolean emberAfOtaBootloadClusterImageBlockRequestCallback (int8u *fieldControl*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int32u *fileOffset*, int8u *maxDataSize*, int8u * *requestNodeAddress*)

Image Block Request.

Parameters

| | |
|---------------------------|--------------|
| <i>fieldControl</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>fileOffset</i> | Ver.: always |
| <i>maxDataSize</i> | Ver.: always |
| <i>requestNodeAddress</i> | Ver.: always |

6.4.2.813 boolean emberAfOtaBootloadClusterImagePageRequestCallback (int8u *fieldControl*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int32u *fileOffset*, int8u *maxDataSize*, int16u *pageSiz*e, int16u *responseSpacing*, int8u * *requestNodeAddress*)

Image Page Request.

Parameters

| | |
|---------------------------|--------------|
| <i>fieldControl</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>fileOffset</i> | Ver.: always |
| <i>maxDataSize</i> | Ver.: always |
| <i>pageSiz</i> e | Ver.: always |
| <i>responseSpacing</i> | Ver.: always |
| <i>requestNodeAddress</i> | Ver.: always |

6.4.2.814 boolean emberAfOtaBootloadClusterImageBlockResponseCallback (int8u *status*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int32u *fileOffset*, int8u *dataSiz*e, int8u * *imageData*)

Image Block Response.

Parameters

| | |
|-----------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>fileOffset</i> | Ver.: always |
| <i>dataSiz</i> e | Ver.: always |
| <i>imageData</i> | Ver.: always |

6.4.2.815 boolean emberAfOtaBootloadClusterUpgradeEndRequestCallback (int8u *status*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*)

Upgrade End Request.

Parameters

| | |
|-----------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |

6.4.2.816 boolean emberAfOtaBootloadClusterUpgradeEndResponseCallback (int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int32u *currentTime*, int32u *upgradeTime*)

Upgrade End Response.

Parameters

| | |
|-----------------------|--------------|
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>currentTime</i> | Ver.: always |
| <i>upgradeTime</i> | Ver.: always |

6.4.2.817 boolean emberAfOtaBootloadClusterQuerySpecificFileRequestCallback (int8u * *requestNodeAddress*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int16u *currentZigbeeStackVersion*)

Query Specific File Request.

Parameters

| | |
|-----------------------------------|--------------|
| <i>requestNode-Address</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>currentZigbee-StackVersion</i> | Ver.: always |

6.4.2.818 boolean emberAfOtaBootloadClusterQuerySpecificFileResponseCallback (int8u *status*, int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*, int32u *imageSize*)

Query Specific File Response.

Parameters

| | |
|-----------------------|--------------|
| <i>status</i> | Ver.: always |
| <i>manufacturerId</i> | Ver.: always |

| | |
|--------------------|--------------|
| <i>imageType</i> | Ver.: always |
| <i>fileVersion</i> | Ver.: always |
| <i>imageSize</i> | Ver.: always |

6.4.2.819 void emberAfOtaBootloadClusterServerInitCallback (int8u *endpoint*)

Server Init.

Over the Air Bootloading Cluster cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.820 void emberAfOtaBootloadClusterClientInitCallback (int8u *endpoint*)

Client Init.

Over the Air Bootloading Cluster cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.821 void emberAfOtaBootloadClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Over the Air Bootloading Cluster cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.822 void emberAfOtaBootloadClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Over the Air Bootloading Cluster cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.823 void emberAfOtaBootloadClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Over the Air Bootloading Cluster cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.824 void emberAfOtaBootloadClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Over the Air Bootloading Cluster cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.825 void emberAfOtaBootloadClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Over the Air Bootloading Cluster cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.826 void emberAfOtaBootloadClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Over the Air Bootloading Cluster cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.827 void emberAfOtaBootloadClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Over the Air Bootloading Cluster cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.828 void emberAfOtaBootloadClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Over the Air Bootloading Cluster cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.829 void emberAfOtaBootloadClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Over the Air Bootloading Cluster cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.830 void emberAfOtaBootloadClusterClientMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Over the Air Bootloading Cluster cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.831 boolean emberAfDemandResponseLoadControlClusterLoadControlEventCallback
 (int32u *issuerEventId*, int16u *deviceClass*, int8u *utilityEnrollmentGroup*, int32u *startTime*, int16u *durationInMinutes*, int8u *criticalityLevel*, int8u *coolingTemperatureOffset*, int8u *heatingTemperatureOffset*, int16s *coolingTemperatureSetPoint*, int16s *heatingTemperatureSetPoint*, int8s *averageLoadAdjustmentPercentage*, int8u *dutyCycle*, int8u *eventControl*)

Load Control Event.

Parameters

| | |
|--|--------------|
| <i>issuerEventId</i> | Ver.: always |
| <i>deviceClass</i> | Ver.: always |
| <i>utility-Enrollment-Group</i> | Ver.: always |
| <i>startTime</i> | Ver.: always |
| <i>durationIn-Minutes</i> | Ver.: always |
| <i>criticalityLevel</i> | Ver.: always |
| <i>cooling-Temperature-Offset</i> | Ver.: always |
| <i>heating-Temperature-Offset</i> | Ver.: always |
| <i>cooling-Temperature-SetPoint</i> | Ver.: always |
| <i>heating-Temperature-SetPoint</i> | Ver.: always |
| <i>averageLoad-Adjustment-Percentage</i> | Ver.: always |
| <i>dutyCycle</i> | Ver.: always |
| <i>eventControl</i> | Ver.: always |

6.4.2.832 boolean emberAfDemandResponseLoadControlClusterCancelLoadControlEvent-Callback (int32u *issuerEventId*, int16u *deviceClass*, int8u *utilityEnrollmentGroup*, int8u *cancelControl*, int32u *effectiveTime*)

Cancel Load Control Event.

Parameters

| | |
|---|--------------|
| <i>issuerEventId</i> | Ver.: always |
| <i>deviceClass</i> | Ver.: always |
| <i>utility- Enrollment- Group</i> | Ver.: always |
| <i>cancelControl</i> | Ver.: always |
| <i>effectiveTime</i> | Ver.: always |

6.4.2.833 boolean emberAfDemandResponseLoadControlClusterCancelAllLoadControlEvents-Callback (int8u *cancelControl*)

Cancel All Load Control Events.

Parameters

| | |
|----------------------|--------------|
| <i>cancelControl</i> | Ver.: always |
|----------------------|--------------|

6.4.2.834 boolean emberAfDemandResponseLoadControlClusterReportEventStatusCallback (int32u *issuerEventId*, int8u *eventStatus*, int32u *eventStatusTime*, int8u *criticalityLevelApplied*, int16s *coolingTemperatureSetPointApplied*, int16s *heatingTemperatureSetPointApplied*, int8s *averageLoadAdjustmentPercentageApplied*, int8u *dutyCycleApplied*, int8u *eventControl*, int8u *signatureType*, int8u * *signature*)

Report Event Status.

Parameters

| | |
|---|--------------|
| <i>issuerEventId</i> | Ver.: always |
| <i>eventStatus</i> | Ver.: always |
| <i>eventStatus- Time</i> | Ver.: always |
| <i>criticality- LevelApplied</i> | Ver.: always |
| <i>cooling- Temperature- SetPoint- Applied</i> | Ver.: always |
| <i>heating- Temperature- SetPoint- Applied</i> | Ver.: always |
| <i>averageLoad- Adjustment- Percentage- Applied</i> | Ver.: always |

| | |
|--------------------------|--------------|
| <i>dutyCycle-Applied</i> | Ver.: always |
| <i>eventControl</i> | Ver.: always |
| <i>signatureType</i> | Ver.: always |
| <i>signature</i> | Ver.: always |

6.4.2.835 boolean emberAfDemandResponseLoadControlClusterGetScheduledEventsCallback (int32u *startTime*, int8u *numberOfEvents*)

Get Scheduled Events.

Parameters

| | |
|-----------------------|--------------|
| <i>startTime</i> | Ver.: always |
| <i>numberOfEvents</i> | Ver.: always |

6.4.2.836 void emberAfDemandResponseLoadControlClusterServerInitCallback (int8u *endpoint*)

Server Init.

Demand Response and Load Control cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.837 void emberAfDemandResponseLoadControlClusterClientInitCallback (int8u *endpoint*)

Client Init.

Demand Response and Load Control cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.838 void emberAfDemandResponseLoadControlClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Demand Response and Load Control cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.839 void emberAfDemandResponseLoadControlClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Demand Response and Load Control cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.840 void emberAfDemandResponseLoadControlClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Demand Response and Load Control cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.841 void emberAfDemandResponseLoadControlClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Demand Response and Load Control cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.842 void emberAfDemandResponseLoadControlClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Demand Response and Load Control cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.843 void emberAfDemandResponseLoadControlClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Demand Response and Load Control cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.844 void emberAfDemandResponseLoadControlClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Demand Response and Load Control cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.845 void emberAfDemandResponseLoadControlClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Demand Response and Load Control cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.846 void emberAfDemandResponseLoadControlClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Demand Response and Load Control cluster, Server Message Sent

Parameters

| | |
|-------------|---------------------------------------|
| <i>type</i> | The type of message sent Ver.: always |
|-------------|---------------------------------------|

| | |
|---------------------------|---|
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.847 void emberAfDemandResponseLoadControlClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Demand Response and Load Control cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.848 boolean emberAfSimpleMeteringClusterGetProfileResponseCallback (int32u *endTime*, int8u *status*, int8u *profileIntervalPeriod*, int8u *numberOfPeriodsDelivered*, int8u * *intervals*)

Get Profile Response.

Parameters

| | |
|---------------------------------|--------------|
| <i>endTime</i> | Ver.: always |
| <i>status</i> | Ver.: always |
| <i>profileIntervalPeriod</i> | Ver.: always |
| <i>numberOfPeriodsDelivered</i> | Ver.: always |
| <i>intervals</i> | Ver.: always |

6.4.2.849 boolean emberAfSimpleMeteringClusterRequestMirrorCallback (void)

Request Mirror.

6.4.2.850 boolean emberAfSimpleMeteringClusterRemoveMirrorCallback (void)

Remove Mirror.

6.4.2.851 boolean emberAfSimpleMeteringClusterRequestFastPollModeResponseCallback (int8u appliedUpdatePeriod, int32u fastPollModeEndtime)

Request Fast Poll Mode Response.

Parameters

| | |
|-----------------------------|--------------|
| <i>appliedUpdate-Period</i> | Ver.: always |
| <i>fastPollMode-Endtime</i> | Ver.: always |

6.4.2.852 boolean emberAfSimpleMeteringClusterGetProfileCallback (int8u intervalChannel, int32u endTime, int8u numberOfPeriods)

Get Profile.

Parameters

| | |
|-------------------------|--------------|
| <i>interval-Channel</i> | Ver.: always |
| <i>endTime</i> | Ver.: always |
| <i>numberOfPeriods</i> | Ver.: always |

6.4.2.853 boolean emberAfSimpleMeteringClusterRequestMirrorResponseCallback (int16u endpointId)

Request Mirror Response.

Parameters

| | |
|-------------------|--------------|
| <i>endpointId</i> | Ver.: always |
|-------------------|--------------|

6.4.2.854 boolean emberAfSimpleMeteringClusterMirrorRemovedCallback (int16u endpointId)

Mirror Removed.

Parameters

| | |
|-------------------|--------------|
| <i>endpointId</i> | Ver.: always |
|-------------------|--------------|

6.4.2.855 boolean emberAfSimpleMeteringClusterRequestFastPollModeCallback (int8u fastPollUpdatePeriod, int8u duration)

Request Fast Poll Mode.

Parameters

| | |
|------------------------------|--------------|
| <i>fastPollUpdate-Period</i> | Ver.: always |
| <i>duration</i> | Ver.: always |

6.4.2.856 void emberAfSimpleMeteringClusterServerInitCallback (int8u endpoint)

Server Init.

Simple Metering cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.857 void emberAfSimpleMeteringClusterClientInitCallback (int8u endpoint)

Client Init.

Simple Metering cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.858 void emberAfSimpleMeteringClusterServerTickCallback (int8u endpoint)

Server Tick.

Simple Metering cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.859 void emberAfSimpleMeteringClusterClientTickCallback (int8u endpoint)

Client Tick.

Simple Metering cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.860 void emberAfSimpleMeteringClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Simple Metering cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.861 void emberAfSimpleMeteringClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Simple Metering cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.862 void emberAfSimpleMeteringClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Simple Metering cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.863 void emberAfSimpleMeteringClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Simple Metering cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.864 void emberAfSimpleMeteringClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Simple Metering cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.865 void emberAfSimpleMeteringClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Simple Metering cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.866 void emberAfSimpleMeteringClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Simple Metering cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.867 void emberAfSimpleMeteringClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Simple Metering cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.868 boolean emberAfPriceClusterPublishPriceCallback (int32u providerId, int8u * rateLabel, int32u issuerEventId, int32u currentTime, int8u unitOfMeasure, int16u currency, int8u priceTrailingDigitAndPriceTier, int8u numberofPriceTiersAndRegisterTier, int32u startTime, int16u durationInMinutes, int32u price, int8u priceRatio, int32u generationPrice, int8u generationPriceRatio, int32u alternateCostDelivered, int8u alternateCostUnit, int8u alternateCostTrailingDigit, int8u numberofBlockThresholds, int8u priceControl)

Publish Price.

Parameters

| | |
|---|-------------------------------|
| <i>providerId</i> | Ver.: always |
| <i>rateLabel</i> | Ver.: always |
| <i>issuerEventId</i> | Ver.: always |
| <i>currentTime</i> | Ver.: always |
| <i>unitOfMeasure</i> | Ver.: always |
| <i>currency</i> | Ver.: always |
| <i>priceTrailing-DigitAndPrice-Tier</i> | Ver.: always |
| <i>numberofPriceTiersAnd-RegisterTier</i> | Ver.: always |
| <i>startTime</i> | Ver.: always |
| <i>durationIn-Minutes</i> | Ver.: always |
| <i>price</i> | Ver.: always |
| <i>priceRatio</i> | Ver.: always |
| <i>generation-Price</i> | Ver.: always |
| <i>generation-PriceRatio</i> | Ver.: always |
| <i>alternateCost-Delivered</i> | Ver.: since se-1.0-07-5356-15 |
| <i>alternateCost-Unit</i> | Ver.: since se-1.0-07-5356-15 |
| <i>alternateCost-TrailingDigit</i> | Ver.: since se-1.0-07-5356-15 |
| <i>numberof-Block-Thresholds</i> | Ver.: since se-1.1-07-5356-16 |
| <i>priceControl</i> | Ver.: since se-1.1-07-5356-16 |

6.4.2.869 boolean emberAfPriceClusterPublishBlockPeriodCallback (int32u *providerId*, int32u *issuerEventId*, int32u *blockPeriodStartTime*, int32u *blockPeriodDurationInMinutes*, int8u *numberOfPriceTiersAndNumberOfBlockThresholds*, int8u *blockPeriodControl*)

Publish Block Period.

Parameters

| | |
|---|--------------|
| <i>providerId</i> | Ver.: always |
| <i>issuerEventId</i> | Ver.: always |
| <i>blockPeriod- StartTime</i> | Ver.: always |
| <i>blockPeriod- DurationIn- Minutes</i> | Ver.: always |
| <i>numberOf- PriceTiersAnd- Numberof- Block- Thresholds</i> | Ver.: always |
| <i>blockPeriod- Control</i> | Ver.: always |

6.4.2.870 boolean emberAfPriceClusterGetCurrentPriceCallback (int8u *commandOptions*)

Get Current Price.

Parameters

| | |
|-----------------------------|--------------|
| <i>command- Options</i> | Ver.: always |
|-----------------------------|--------------|

6.4.2.871 boolean emberAfPriceClusterGetScheduledPricesCallback (int32u *startTime*, int8u *numberOfEvents*)

Get Scheduled Prices.

Parameters

| | |
|-----------------------------|--------------|
| <i>startTime</i> | Ver.: always |
| <i>numberOf- Events</i> | Ver.: always |

6.4.2.872 boolean emberAfPriceClusterPriceAcknowledgementCallback (int32u *providerId*, int32u *issuerEventId*, int32u *priceAckTime*, int8u *control*)

Price Acknowledgement.

Parameters

| | |
|----------------------|--------------|
| <i>providerId</i> | Ver.: always |
| <i>issuerEventId</i> | Ver.: always |
| <i>priceAckTime</i> | Ver.: always |
| <i>control</i> | Ver.: always |

6.4.2.873 boolean emberAfPriceClusterGetBlockPeriodsCallback (int32u *startTime*, int8u *numberOfEvents*)

Get Block Periods.

Parameters

| | |
|-----------------------|--------------|
| <i>startTime</i> | Ver.: always |
| <i>numberOfEvents</i> | Ver.: always |

6.4.2.874 void emberAfPriceClusterServerInitCallback (int8u *endpoint*)

Server Init.

Price cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.875 void emberAfPriceClusterClientInitCallback (int8u *endpoint*)

Client Init.

Price cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.876 void emberAfPriceClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Price cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.877 void emberAfPriceClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Price cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.878 void emberAfPriceClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*)

Server Attribute Changed.

Price cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.879 void emberAfPriceClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*)

Client Attribute Changed.

Price cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.880 void emberAfPriceClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Price cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.881 void emberAfPriceClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Price cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.882 void emberAfPriceClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Price cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.883 void emberAfPriceClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Price cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.884 void emberAfPriceClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Price cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |

| | |
|-----------------|---|
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.885 void emberAfPriceClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Price cluster, Client Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.886 boolean emberAfMessagingClusterDisplayMessageCallback (int32u *messageId*, int8u *messageControl*, int32u *startTime*, int16u *durationInMinutes*, int8u * *message*)

Display Message.

Parameters

| | |
|----------------------------|--------------|
| <i>messageId</i> | Ver.: always |
| <i>message- Control</i> | Ver.: always |
| <i>startTime</i> | Ver.: always |
| <i>durationIn- Minutes</i> | Ver.: always |
| <i>message</i> | Ver.: always |

6.4.2.887 boolean emberAfMessagingClusterCancelMessageCallback (int32u *messageId*, int8u *messageControl*)

Cancel Message.

Parameters

| | |
|-------------------------|--------------|
| <i>messageId</i> | Ver.: always |
| <i>message- Control</i> | Ver.: always |

6.4.2.888 boolean emberAfMessagingClusterGetLastMessageCallback (void)

Get Last Message.

6.4.2.889 boolean emberAfMessagingClusterMessageConfirmationCallback (int32u *messageId*, int32u *confirmationTime*)

Message Confirmation.

Parameters

| | |
|-------------------------|--------------|
| <i>messageId</i> | Ver.: always |
| <i>confirmationTime</i> | Ver.: always |

6.4.2.890 void emberAfMessagingClusterServerInitCallback (int8u *endpoint*)

Server Init.

Messaging cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.891 void emberAfMessagingClusterClientInitCallback (int8u *endpoint*)

Client Init.

Messaging cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.892 void emberAfMessagingClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Messaging cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.893 void emberAfMessagingClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Messaging cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.894 void emberAfMessagingClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Messaging cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.895 void emberAfMessagingClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Messaging cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.896 void emberAfMessagingClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Messaging cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.897 void emberAfMessagingClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Messaging cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.898 void emberAfMessagingClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Messaging cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.899 void emberAfMessagingClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Messaging cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.900 void emberAfMessagingClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Messaging cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.901 void emberAfMessagingClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Messaging cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.902 boolean emberAfTunnelingClusterRequestTunnelCallback (int8u *protocolId*, int16u *manufacturerCode*, int8u *flowControlSupport*, int16u *maximumIncomingTransferSize*)

Request Tunnel.

Parameters

| | |
|------------------------------------|-------------------------------|
| <i>protocolId</i> | Ver.: always |
| <i>manufacturerCode</i> | Ver.: always |
| <i>flowControlSupport</i> | Ver.: always |
| <i>maximumIncomingTransferSize</i> | Ver.: since se-1.1-07-5356-17 |

6.4.2.903 boolean emberAfTunnelingClusterCloseTunnelCallback (int16u *tunnelId*)

Close Tunnel.

Parameters

| | |
|-----------------|--------------|
| <i>tunnelId</i> | Ver.: always |
|-----------------|--------------|

6.4.2.904 boolean emberAfTunnelingClusterTransferDataClientToServerCallback (int16u *tunnelId*, int8u * *data*)

Transfer Data Client To Server.

Parameters

| | |
|-----------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>data</i> | Ver.: always |

6.4.2.905 boolean emberAfTunnelingClusterTransferDataErrorClientToServerCallback (int16u tunnelId, int8u transferDataStatus)

Transfer Data Error Client To Server.

Parameters

| | |
|---------------------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>transferDataStatus</i> | Ver.: always |

6.4.2.906 boolean emberAfTunnelingClusterAckTransferDataClientToServerCallback (int16u tunnelId, int16u numberBytesLeft)

Ack Transfer Data Client To Server.

Parameters

| | |
|------------------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>numberBytesLeft</i> | Ver.: always |

6.4.2.907 boolean emberAfTunnelingClusterReadyDataClientToServerCallback (int16u tunnelId, int16u numberOctetsLeft)

Ready Data Client To Server.

Parameters

| | |
|-------------------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>numberOctetsLeft</i> | Ver.: always |

6.4.2.908 boolean emberAfTunnelingClusterGetSupportedTunnelProtocolsCallback (int8u protocolOffset)

Get Supported Tunnel Protocols.

Parameters

| | |
|-----------------------|--------------|
| <i>protocolOffset</i> | Ver.: always |
|-----------------------|--------------|

6.4.2.909 boolean emberAfTunnelingClusterRequestTunnelResponseCallback (int16u tunnelId, int8u tunnelStatus, int16u maximumIncomingTransferSize)

Request Tunnel Response.

Parameters

| | |
|--------------------------------------|-------------------------------|
| <i>tunnelId</i> | Ver.: always |
| <i>tunnelStatus</i> | Ver.: always |
| <i>maximum-Incoming-TransferSize</i> | Ver.: since se-1.1-07-5356-17 |

6.4.2.910 boolean emberAfTunnelingClusterTransferDataServerToClientCallback (int16u *tunnelId*, int8u * *data*)

Transfer Data Server To Client.

Parameters

| | |
|-----------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>data</i> | Ver.: always |

6.4.2.911 boolean emberAfTunnelingClusterTransferDataServerErrorToClientCallback (int16u *tunnelId*, int8u *transferDataStatus*)

Transfer Data Error Server To Client.

Parameters

| | |
|---------------------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>transferDataStatus</i> | Ver.: always |

6.4.2.912 boolean emberAfTunnelingClusterAckTransferDataServerToClientCallback (int16u *tunnelId*, int16u *numberOfBytesLeft*)

Ack Transfer Data Server To Client.

Parameters

| | |
|--------------------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>numberOfBytesLeft</i> | Ver.: always |

6.4.2.913 boolean emberAfTunnelingClusterReadyDataServerToClientCallback (int16u *tunnelId*, int16u *numberOfOctetsLeft*)

Ready Data Server To Client.

Parameters

| | |
|---------------------------|--------------|
| <i>tunnelId</i> | Ver.: always |
| <i>numberOfOctetsLeft</i> | Ver.: always |

6.4.2.914 boolean emberAfTunnelingClusterSupportedTunnelProtocolsResponseCallback (int8u *protocolListComplete*, int8u *protocolCount*, int8u * *protocolList*)

Supported Tunnel Protocols Response.

Parameters

| | |
|------------------------------|--------------|
| <i>protocolList-Complete</i> | Ver.: always |
| <i>protocolCount</i> | Ver.: always |
| <i>protocolList</i> | Ver.: always |

6.4.2.915 boolean emberAfTunnelingClusterTunnelClosureNotificationCallback (int16u *tunnelId*)

Tunnel Closure Notification.

Parameters

| | |
|-----------------|--------------|
| <i>tunnelId</i> | Ver.: always |
|-----------------|--------------|

6.4.2.916 void emberAfTunnelingClusterServerInitCallback (int8u *endpoint*)

Server Init.

Tunneling cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.917 void emberAfTunnelingClusterClientInitCallback (int8u *endpoint*)

Client Init.

Tunneling cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.918 void emberAfTunnelingClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Tunneling cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.919 void emberAfTunnelingClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Tunneling cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.920 void emberAfTunnelingClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Tunneling cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.921 void emberAfTunnelingClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Tunneling cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.922 void emberAfTunnelingClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Tunneling cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.923 void emberAfTunnelingClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Tunneling cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.924 void emberAfTunnelingClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Tunneling cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.925 void emberAfTunnelingClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Tunneling cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.926 void emberAfTunnelingClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Tunneling cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |

| | |
|-----------------|---|
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.927 void emberAfTunnelingClusterClientMessageSentCallback (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int16u msgLen, int8u * message, EmberStatus status)

Client Message Sent.

Tunneling cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.928 boolean emberAfPrepaymentClusterSelectAvailableEmergencyCreditCallback (int32u commandDateTime, int8u originatingDevice, int8u * siteId, int8u * meterSerialNumber)

Select Available Emergency Credit.

Parameters

| | |
|--------------------------|--------------|
| <i>commandDateTime</i> | Ver.: always |
| <i>originatingDevice</i> | Ver.: always |
| <i>siteId</i> | Ver.: always |
| <i>meterSerialNumber</i> | Ver.: always |

6.4.2.929 boolean emberAfPrepaymentClusterChangeSupplyCallback (int32u providerId, int32u requestDateTime, int8u * siteId, int8u * meterSerialNumber, int32u implementationDateTime, int8u proposedSupplyStatus, int8u originatorIdSupplyControlBits)

Change Supply.

Parameters

| | |
|------------------------|--------------|
| <i>providerId</i> | Ver.: always |
| <i>requestDateTime</i> | Ver.: always |

| | |
|--|--------------|
| <i>siteId</i> | Ver.: always |
| <i>meterSerial-Number</i> | Ver.: always |
| <i>implementation-DateTime</i> | Ver.: always |
| <i>proposed-SupplyStatus</i> | Ver.: always |
| <i>originatorId-SupplyControl-Bits</i> | Ver.: always |

6.4.2.930 boolean emberAfPrepaymentClusterSupplyStatusResponseCallback (int32u providerId, int32u implementationDateTime, int8u supplyStatus)

Supply Status Response.

Parameters

| | |
|-------------------------------|--------------|
| <i>providerId</i> | Ver.: always |
| <i>implementationDateTime</i> | Ver.: always |
| <i>supplyStatus</i> | Ver.: always |

6.4.2.931 void emberAfPrepaymentClusterServerInitCallback (int8u endpoint)

Server Init.

Prepayment cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.932 void emberAfPrepaymentClusterClientInitCallback (int8u endpoint)

Client Init.

Prepayment cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.933 void emberAfPrepaymentClusterServerTickCallback (int8u endpoint)

Server Tick.

Prepayment cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.934 void emberAfPrepaymentClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Prepayment cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.935 void emberAfPrepaymentClusterServerAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Server Attribute Changed.

Prepayment cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.936 void emberAfPrepaymentClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Prepayment cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.937 void emberAfPrepaymentClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Prepayment cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

| | |
|-------------------------|--|
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |
|-------------------------|--|

6.4.2.938 void emberAfPrepaymentClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeId*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Prepayment cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.939 void emberAfPrepaymentClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Prepayment cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.940 void emberAfPrepaymentClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Prepayment cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.941 void emberAfPrepaymentClusterServerMessageSentCallback (EmberOutgoingMessage-Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Prepayment cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

**6.4.2.942 void emberAfPrepaymentClusterClientMessageSentCallback (EmberOutgoingMessage-
Type *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u *
message, EmberStatus *status*)**

Client Message Sent.

Prepayment cluster, Client Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.943 boolean emberAfKeyEstablishmentClusterClientCommandReceivedCallback (EmberAfClusterCommand * *cmd*)

Client Command Received.

This function is called by the application framework when a server-to-client key establishment command is received but has yet to be handled by the framework code. This function should return a boolean value indicating whether the command has been handled by the application code and should not be further processed by the framework.

Parameters

| | |
|------------|--------------|
| <i>cmd</i> | Ver.: always |
|------------|--------------|

6.4.2.944 boolean emberAfKeyEstablishmentClusterServerCommandReceivedCallback (EmberAfClusterCommand * *cmd*)

Server Command Received.

This function is called by the application framework when a client-to-server key establishment command is received but has yet to be handled by the framework code. This function should return a boolean value indicating whether the command has been handled by the application code and should not be further processed by the framework.

Parameters

| | |
|------------|--------------|
| <i>cmd</i> | Ver.: always |
|------------|--------------|

6.4.2.945 boolean emberAfKeyEstablishmentClusterInitiateKeyEstablishmentRequestCallback (int16u keyEstablishmentSuite, int8u ephemeralDataGenerateTime, int8u confirmKeyGenerateTime, int8u * identity)

Initiate Key Establishment Request.

Parameters

| | |
|----------------------------------|--------------|
| <i>keyEstablishmentSuite</i> | Ver.: always |
| <i>ephemeralDataGenerateTime</i> | Ver.: always |
| <i>confirmKeyGenerateTime</i> | Ver.: always |
| <i>identity</i> | Ver.: always |

6.4.2.946 boolean emberAfKeyEstablishmentClusterEphemeralDataRequestCallback (int8u * ephemeralData)

Ephemeral Data Request.

Parameters

| | |
|----------------------|--------------|
| <i>ephemeralData</i> | Ver.: always |
|----------------------|--------------|

6.4.2.947 boolean emberAfKeyEstablishmentClusterConfirmKeyDataRequestCallback (int8u * secureMessageAuthenticationCode)

Confirm Key Data Request.

Parameters

| | |
|--|--------------|
| <i>secureMessageAuthenticationCode</i> | Ver.: always |
|--|--------------|

6.4.2.948 boolean emberAfKeyEstablishmentClusterTerminateKeyEstablishmentCallback (int8u statusCode, int8u waitTime, int16u keyEstablishmentSuite)

Terminate Key Establishment.

Parameters

| | |
|------------------------------|--------------|
| <i>statusCode</i> | Ver.: always |
| <i>waitTime</i> | Ver.: always |
| <i>keyEstablishmentSuite</i> | Ver.: always |

6.4.2.949 boolean emberAfKeyEstablishmentClusterInitiateKeyEstablishmentResponseCallback (int16u requestedKeyEstablishmentSuite, int8u ephemeralDataGenerateTime, int8u confirmKeyGenerateTime, int8u * identity)

Initiate Key Establishment Response.

Parameters

| | |
|---------------------------------------|--------------|
| <i>requestedKeyEstablishmentSuite</i> | Ver.: always |
| <i>ephemeralDataGenerateTime</i> | Ver.: always |
| <i>confirmKeyGenerateTime</i> | Ver.: always |
| <i>identity</i> | Ver.: always |

6.4.2.950 boolean emberAfKeyEstablishmentClusterEphemeralDataResponseCallback (int8u * ephemeralData)

Ephemeral Data Response.

Parameters

| | |
|----------------------|--------------|
| <i>ephemeralData</i> | Ver.: always |
|----------------------|--------------|

6.4.2.951 boolean emberAfKeyEstablishmentClusterConfirmKeyDataResponseCallback (int8u * secureMessageAuthenticationCode)

Confirm Key Data Response.

Parameters

| | |
|--|--------------|
| <i>secureMessageAuthenticationCode</i> | Ver.: always |
|--|--------------|

6.4.2.952 void emberAfKeyEstablishmentClusterServerInitCallback (int8u endpoint)

Server Init.

Key establishment cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.953 void emberAfKeyEstablishmentClusterClientInitCallback (int8u endpoint)

Client Init.

Key establishment cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.954 void emberAfKeyEstablishmentClusterServerTickCallback (int8u endpoint)

Server Tick.

Key establishment cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.955 void emberAfKeyEstablishmentClusterClientTickCallback (int8u endpoint)

Client Tick.

Key establishment cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.956 void emberAfKeyEstablishmentClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Key establishment cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.957 void emberAfKeyEstablishmentClusterClientAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*)

Client Attribute Changed.

Key establishment cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |

6.4.2.958 void emberAfKeyEstablishmentClusterServerManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

Key establishment cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.959 void emberAfKeyEstablishmentClusterClientManufacturerSpecificAttributeChangedCallback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

Key establishment cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|-------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeld</i> | Attribute that changed Ver.: always |
| <i>manufacturerCode</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.960 void emberAfKeyEstablishmentClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Key establishment cluster, Server Default Response

Parameters

| | |
|------------------|-----------------------------------|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |

| | |
|---------------|---|
| <i>status</i> | Status in default response Ver.: always |
|---------------|---|

6.4.2.961 void emberAfKeyEstablishmentClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Key establishment cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.962 void emberAfKeyEstablishmentClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Key establishment cluster, Server Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.963 void emberAfKeyEstablishmentClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Key establishment cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.964 boolean emberAfZllCommissioningClusterScanRequestCallback (int32u *transaction*, int8u *zigbeeInformation*, int8u *zllInformation*)

Scan Request.

Parameters

| | |
|---------------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>zigbee-Information</i> | Ver.: always |
| <i>zllInformation</i> | Ver.: always |

6.4.2.965 boolean emberAfZllCommissioningClusterDeviceInformationRequestCallback (int32u *transaction*, int8u *startIndex*)

Device Information Request.

Parameters

| | |
|--------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>startIndex</i> | Ver.: always |

6.4.2.966 boolean emberAfZllCommissioningClusterIdentifyRequestCallback (int32u *transaction*, int16u *identifyDuration*)

Identify Request.

Parameters

| | |
|--------------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>identify-Duration</i> | Ver.: always |

6.4.2.967 boolean emberAfZllCommissioningClusterResetToFactoryNewRequestCallback (int32u *transaction*)

Reset To Factory New Request.

Parameters

| | |
|--------------------|--------------|
| <i>transaction</i> | Ver.: always |
|--------------------|--------------|

6.4.2.968 boolean emberAfZllCommissioningClusterNetworkStartRequestCallback (int32u transaction, int8u * extendedPanId, int8u keyIndex, int8u * encryptedNetworkKey, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd, int8u * initiatorIeeeAddress, int16u initiatorNetworkAddress)

Network Start Request.

Parameters

| | |
|--|--------------|
| <i>transaction</i> | Ver.: always |
| <i>extendedPanId</i> | Ver.: always |
| <i>keyIndex</i> | Ver.: always |
| <i>encrypted-NetworkKey</i> | Ver.: always |
| <i>logicalChannel</i> | Ver.: always |
| <i>panId</i> | Ver.: always |
| <i>network-Address</i> | Ver.: always |
| <i>group-IdentifiersBegin</i> | Ver.: always |
| <i>group-IdentifiersEnd</i> | Ver.: always |
| <i>freeNetwork-AddressRange-Begin</i> | Ver.: always |
| <i>freeNetwork-AddressRange-End</i> | Ver.: always |
| <i>freeGroup-Identifier-RangeBegin</i> | Ver.: always |
| <i>freeGroup-Identifier-RangeEnd</i> | Ver.: always |
| <i>initiatorIeee-Address</i> | Ver.: always |
| <i>initiator-Network-Address</i> | Ver.: always |

6.4.2.969 boolean emberAfZllCommissioningClusterNetworkJoinRouterRequestCallback (int32u transaction, int8u * extendedPanId, int8u keyIndex, int8u * encryptedNetworkKey, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd)

Network Join Router Request.

Parameters

| | |
|--|--------------|
| <i>transaction</i> | Ver.: always |
| <i>extendedPanId</i> | Ver.: always |
| <i>keyIndex</i> | Ver.: always |
| <i>encrypted-</i> <i>NetworkKey</i> | Ver.: always |
| <i>network-</i> <i>UpdateId</i> | Ver.: always |
| <i>logicalChannel</i> | Ver.: always |
| <i>panId</i> | Ver.: always |
| <i>network-</i> <i>Address</i> | Ver.: always |
| <i>group-</i> <i>IdentifiersBegin</i> | Ver.: always |
| <i>group-</i> <i>IdentifiersEnd</i> | Ver.: always |
| <i>freeNetwork-</i> <i>AddressRange-</i> <i>Begin</i> | Ver.: always |
| <i>freeNetwork-</i> <i>AddressRange-</i> <i>End</i> | Ver.: always |
| <i>freeGroup-</i> <i>Identifier-</i> <i>RangeBegin</i> | Ver.: always |
| <i>freeGroup-</i> <i>Identifier-</i> <i>RangeEnd</i> | Ver.: always |

6.4.2.970 boolean emberAfZllCommissioningClusterNetworkJoinEndDeviceRequestCallback (int32u *transaction*, int8u * *extendedPanId*, int8u *keyIndex*, int8u * *encryptedNetworkKey*, int8u *networkUpdateId*, int8u *logicalChannel*, int16u *panId*, int16u *networkAddress*, int16u *groupIdentifiersBegin*, int16u *groupIdentifiersEnd*, int16u *freeNetworkAddressRangeBegin*, int16u *freeNetworkAddressRangeEnd*, int16u *freeGroupIdentifierRangeBegin*, int16u *freeGroupIdentifierRangeEnd*)

Network Join End Device Request.

Parameters

| | |
|--|--------------|
| <i>transaction</i> | Ver.: always |
| <i>extendedPanId</i> | Ver.: always |
| <i>keyIndex</i> | Ver.: always |
| <i>encrypted-</i> <i>NetworkKey</i> | Ver.: always |
| <i>network-</i> <i>UpdateId</i> | Ver.: always |
| <i>logicalChannel</i> | Ver.: always |
| <i>panId</i> | Ver.: always |
| <i>network-</i> <i>Address</i> | Ver.: always |

| | |
|--|--------------|
| <i>group-IdentifiersBegin</i> | Ver.: always |
| <i>group-IdentifiersEnd</i> | Ver.: always |
| <i>freeNetwork-AddressRange-Begin</i> | Ver.: always |
| <i>freeNetwork-AddressRange-End</i> | Ver.: always |
| <i>freeGroup-Identifier-RangeBegin</i> | Ver.: always |
| <i>freeGroup-Identifier-RangeEnd</i> | Ver.: always |

6.4.2.971 boolean emberAfZllCommissioningClusterNetworkUpdateRequestCallback (int32u *transaction*, int8u * *extendedPanId*, int8u *networkUpdateId*, int8u *logicalChannel*, int16u *panId*, int16u *networkAddress*)

Network Update Request.

Parameters

| | |
|-------------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>extendedPanId</i> | Ver.: always |
| <i>network-UpdateId</i> | Ver.: always |
| <i>logicalChannel</i> | Ver.: always |
| <i>panId</i> | Ver.: always |
| <i>network-Address</i> | Ver.: always |

6.4.2.972 boolean emberAfZllCommissioningClusterGetGroupIdentifiersRequestCallback (int8u *startIndex*)

Get Group Identifiers Request.

Parameters

| | |
|-------------------|--------------|
| <i>startIndex</i> | Ver.: always |
|-------------------|--------------|

6.4.2.973 boolean emberAfZllCommissioningClusterGetEndpointListRequestCallback (int8u *startIndex*)

Get Endpoint List Request.

Parameters

| | |
|-------------------|--------------|
| <i>startIndex</i> | Ver.: always |
|-------------------|--------------|

6.4.2.974 boolean emberAfZllCommissioningClusterScanResponseCallback (int32u *transaction*, int8u *rssiCorrection*, int8u *zigbeeInformation*, int8u *zllInformation*, int16u *keyBitmask*, int32u *responseId*, int8u * *extendedPanId*, int8u *networkUpdateId*, int8u *logicalChannel*, int16u *panId*, int16u *networkAddress*, int8u *numberOfSubDevices*, int8u *totalGroupIds*, int8u *endpointId*, int16u *profileId*, int16u *deviceId*, int8u *version*, int8u *groupIdCount*)

Scan Response.

Parameters

| | |
|---------------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>rssiCorrection</i> | Ver.: always |
| <i>zigbeeInformation</i> | Ver.: always |
| <i>zllInformation</i> | Ver.: always |
| <i>keyBitmask</i> | Ver.: always |
| <i>responseId</i> | Ver.: always |
| <i>extendedPanId</i> | Ver.: always |
| <i>networkUpdateId</i> | Ver.: always |
| <i>logicalChannel</i> | Ver.: always |
| <i>panId</i> | Ver.: always |
| <i>networkAddress</i> | Ver.: always |
| <i>numberOfSubDevices</i> | Ver.: always |
| <i>totalGroupIds</i> | Ver.: always |
| <i>endpointId</i> | Ver.: always |
| <i>profileId</i> | Ver.: always |
| <i>deviceId</i> | Ver.: always |
| <i>version</i> | Ver.: always |
| <i>groupIdCount</i> | Ver.: always |

6.4.2.975 boolean emberAfZllCommissioningClusterDeviceInformationResponseCallback (int32u *transaction*, int8u *numberOfSubDevices*, int8u *startIndex*, int8u *deviceInformationRecordCount*, int8u * *deviceInformationRecordList*)

Device Information Response.

Parameters

| | |
|-------------------------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>numberOfSubDevices</i> | Ver.: always |
| <i>startIndex</i> | Ver.: always |
| <i>deviceInformationRecordCount</i> | Ver.: always |

| | |
|--------------------------------------|--------------|
| <i>device-Information-RecordList</i> | Ver.: always |
|--------------------------------------|--------------|

6.4.2.976 boolean emberAfZllCommissioningClusterNetworkStartResponseCallback (int32u *transaction*, int8u *status*, int8u * *extendedPanId*, int8u *networkUpdateId*, int8u *logicalChannel*, int16u *panId*)

Network Start Response.

Parameters

| | |
|-------------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>status</i> | Ver.: always |
| <i>extendedPanId</i> | Ver.: always |
| <i>network-UpdateId</i> | Ver.: always |
| <i>logicalChannel</i> | Ver.: always |
| <i>panId</i> | Ver.: always |

6.4.2.977 boolean emberAfZllCommissioningClusterNetworkJoinRouterResponseCallback (int32u *transaction*, int8u *status*)

Network Join Router Response.

Parameters

| | |
|--------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>status</i> | Ver.: always |

6.4.2.978 boolean emberAfZllCommissioningClusterNetworkJoinEndDeviceResponseCallback (int32u *transaction*, int8u *status*)

Network Join End Device Response.

Parameters

| | |
|--------------------|--------------|
| <i>transaction</i> | Ver.: always |
| <i>status</i> | Ver.: always |

6.4.2.979 boolean emberAfZllCommissioningClusterEndpointInformationCallback (int8u * *ieeeAddress*, int16u *networkAddress*, int8u *endpointId*, int16u *profileId*, int16u *deviceId*, int8u *version*)

Endpoint Information.

Parameters

| | |
|------------------------|--------------|
| <i>ieeeAddress</i> | Ver.: always |
| <i>network-Address</i> | Ver.: always |
| <i>endpointId</i> | Ver.: always |
| <i>profileId</i> | Ver.: always |
| <i>deviceId</i> | Ver.: always |
| <i>version</i> | Ver.: always |

6.4.2.980 boolean emberAfZllCommissioningClusterGetGroupIdentifiersResponseCallback (int8u total, int8u startIndex, int8u count, int8u * groupInformationRecordList)

Get Group Identifiers Response.

Parameters

| | |
|-------------------------------------|--------------|
| <i>total</i> | Ver.: always |
| <i>startIndex</i> | Ver.: always |
| <i>count</i> | Ver.: always |
| <i>group-Information-RecordList</i> | Ver.: always |

6.4.2.981 boolean emberAfZllCommissioningClusterGetEndpointListResponseCallback (int8u total, int8u startIndex, int8u count, int8u * endpointInformationRecordList)

Get Endpoint List Response.

Parameters

| | |
|--|--------------|
| <i>total</i> | Ver.: always |
| <i>startIndex</i> | Ver.: always |
| <i>count</i> | Ver.: always |
| <i>endpoint-Information-RecordList</i> | Ver.: always |

6.4.2.982 void emberAfZllCommissioningClusterServerInitCallback (int8u endpoint)

Server Init.

ZLL Commissioning cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.983 void emberAfZllCommissioningClusterClientInitCallback (int8u endpoint)

Client Init.

ZLL Commissioning cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.984 void emberAfZllCommissioningClusterServerTickCallback (int8u endpoint)

Server Tick.

ZLL Commissioning cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.985 void emberAfZllCommissioningClusterClientTickCallback (int8u endpoint)

Client Tick.

ZLL Commissioning cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.986 void emberAfZllCommissioningClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

ZLL Commissioning cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.987 void emberAfZllCommissioningClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

ZLL Commissioning cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.988 void emberAfZllCommissioningClusterServerManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Server Manufacturer Specific Attribute Changed.

ZLL Commissioning cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.989 void emberAfZllCommissioningClusterClientManufacturerSpecificAttributeChanged-Callback (int8u *endpoint*, EmberAfAttributeId *attributeld*, int16u *manufacturerCode*)

Client Manufacturer Specific Attribute Changed.

ZLL Commissioning cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.990 void emberAfZllCommissioningClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

ZLL Commissioning cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.991 void emberAfZllCommissioningClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

ZLL Commissioning cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.992 void emberAfZllCommissioningClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

ZLL Commissioning cluster, Server Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.993 void emberAfZllCommissioningClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

ZLL Commissioning cluster, Client Message Sent

Parameters

| | |
|-----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr- Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.994 boolean emberAfSampleMfgSpecificClusterCommandOneCallback (int8u *argOne*)

Command One.

Parameters

| | |
|---------------|--------------|
| <i>argOne</i> | Ver.: always |
|---------------|--------------|

6.4.2.995 void emberAfSampleMfgSpecificClusterServerInitCallback (int8u *endpoint*)

Server Init.

Sample Mfg Specific Cluster cluster, Server Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.996 void emberAfSampleMfgSpecificClusterClientInitCallback (int8u *endpoint*)

Client Init.

Sample Mfg Specific Cluster cluster, Client Init

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
|-----------------|---|

6.4.2.997 void emberAfSampleMfgSpecificClusterServerTickCallback (int8u *endpoint*)

Server Tick.

Sample Mfg Specific Cluster cluster, Server Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.998 void emberAfSampleMfgSpecificClusterClientTickCallback (int8u *endpoint*)

Client Tick.

Sample Mfg Specific Cluster cluster, Client Tick

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | Endpoint that is being served Ver.: always |
|-----------------|--|

6.4.2.999 void emberAfSampleMfgSpecificClusterServerAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Server Attribute Changed.

Sample Mfg Specific Cluster cluster, Server Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.1000 void emberAfSampleMfgSpecificClusterClientAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld)

Client Attribute Changed.

Sample Mfg Specific Cluster cluster, Client Attribute Changed

Parameters

| | |
|--------------------|---|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |

6.4.2.1001 void emberAfSampleMfgSpecificClusterServerManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Server Manufacturer Specific Attribute Changed.

Sample Mfg Specific Cluster cluster, Server Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.1002 void emberAfSampleMfgSpecificClusterClientManufacturerSpecificAttributeChangedCallback (int8u endpoint, EmberAfAttributeId attributeld, int16u manufacturerCode)

Client Manufacturer Specific Attribute Changed.

Sample Mfg Specific Cluster cluster, Client Manufacturer Specific Attribute Changed

Parameters

| | |
|--------------------------|--|
| <i>endpoint</i> | Endpoint that is being initialized Ver.: always |
| <i>attributeId</i> | Attribute that changed Ver.: always |
| <i>manufacturer-Code</i> | Manufacturer Code of the attribute that changed Ver.: always |

6.4.2.1003 void emberAfSampleMfgSpecificClusterServerDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Server Default Response.

Sample Mfg Specific Cluster cluster, Server Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.1004 void emberAfSampleMfgSpecificClusterClientDefaultResponseCallback (int8u *endpoint*, int8u *commandId*, EmberAfStatus *status*)

Client Default Response.

Sample Mfg Specific Cluster cluster, Client Default Response

Parameters

| | |
|------------------|---|
| <i>endpoint</i> | Destination endpoint Ver.: always |
| <i>commandId</i> | Command id Ver.: always |
| <i>status</i> | Status in default response Ver.: always |

6.4.2.1005 void emberAfSampleMfgSpecificClusterServerMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Server Message Sent.

Sample Mfg Specific Cluster cluster, Server Message Sent

Parameters

| | |
|---------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOrDestination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.1006 void emberAfSampleMfgSpecificClusterClientMessageSentCallback (EmberOutgoingMessageType *type*, int16u *indexOrDestination*, EmberApsFrame * *apsFrame*, int16u *msgLen*, int8u * *message*, EmberStatus *status*)

Client Message Sent.

Sample Mfg Specific Cluster cluster, Client Message Sent

Parameters

| | |
|----------------------------|---|
| <i>type</i> | The type of message sent Ver.: always |
| <i>indexOr-Destination</i> | The destination or address to which the message was sent Ver.: always |
| <i>apsFrame</i> | The APS frame for the message Ver.: always |
| <i>msgLen</i> | The length of the message Ver.: always |
| <i>message</i> | The message that was sent Ver.: always |
| <i>status</i> | The status of the sent message Ver.: always |

6.4.2.1007 boolean emberAfPluginDrlcEventActionCallback (EmberAfLoadControlEvent * *loadControlEvent*, EmberAfAmiEventStatus *eventStatus*, int8u *sequenceNumber*)

Event Action.

This function is called by the demand response and load control client plugin whenever an event status changes within the DRLC event table. The list of possible event status values is defined by the ZCL spec and is listed in the Application Framework's generated enums located in [enums.h](#). For example, an event status may be: AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_RX indicating that a properly formatted event was received; AMI_EVENT_STATUS_EVENT_STARTED indicating that an event has started; AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_CANCELED, indicating that the event was canceled. This callback is intended to give the device an opportunity to take action on the event in question. For instance if an event starts, the device should take the appropriate event action on the hardware. This callback returns a boolean, if returned value is true, then a notification will be send over the air automatically to the originator of the event. If it is false, then nothing will be sent back to the originator of the event. Please note that in order for your application to be ZigBee compliant, a notification must be sent over the air to the originator of the event, so a value of FALSE should only be returned if your application code takes care of sending this message or there is some other reason a message does not need to be sent by the framework.

Parameters

| | |
|--------------------------|------------------------------|
| <i>loadControl-Event</i> | Actual event Ver.: always |
| <i>eventStatus</i> | Status of event Ver.: always |
| <i>sequence-Number</i> | Sequence number Ver.: always |

6.4.2.1008 boolean emberAfPluginInterpanPreMessageReceivedCallback (const EmberAfInterpanHeader * *header*, int8u *msgLen*, int8u * *message*)

Pre Message Received.

This function is called by the Interpan plugin when an interpan message is received but has not yet been handled by the plugin or the framework. The application should return TRUE if the message was handled.

Parameters

| | |
|----------------|--------------|
| <i>header</i> | Ver.: always |
| <i>msgLen</i> | Ver.: always |
| <i>message</i> | Ver.: always |

6.4.2.1009 void emberAfPluginMessagingClientDisplayMessageCallback (EmberAfPluginMessagingClientMessage * *message*)

Display Message.

This function is called by the Messaging client plugin whenever the application should display a message.

Parameters

| | |
|----------------|--|
| <i>message</i> | The message that should be displayed. Ver.: always |
|----------------|--|

6.4.2.1010 void emberAfPluginMessagingClientCancelMessageCallback (EmberAfPluginMessagingClientMessage * *message*)

Cancel Message.

This function is called by the Messaging client plugin whenever the application should stop displaying a message.

Parameters

| | |
|----------------|--|
| <i>message</i> | The message that should no longer be displayed. Ver.: always |
|----------------|--|

6.4.2.1011 void emberAfPluginNetworkFindFinishedCallback (EmberStatus *status*)

Finished.

This callback is fired when the network-find plugin is finished with the forming or joining process. The result of the operation will be returned in the status parameter.

Parameters

| | |
|---------------|--------------|
| <i>status</i> | Ver.: always |
|---------------|--------------|

6.4.2.1012 void emberAfPluginPriceClientPriceStartedCallback (EmberAfPluginPriceClientPrice * *price*)

Price Started.

This function is called by the Price client plugin whenever a price starts.

Parameters

| | |
|--------------|--|
| <i>price</i> | The price that has started. Ver.: always |
|--------------|--|

6.4.2.1013 void emberAfPluginPriceClientPriceExpiredCallback (EmberAfPluginPriceClientPrice * *price*)

Price Expired.

This function is called by the Price client plugin whenever a price expires.

Parameters

| | |
|--------------|--|
| <i>price</i> | The price that has expired. Ver.: always |
|--------------|--|

6.4.2.1014 EmberAfStatus emberAfPluginReportingConfiguredCallback (const EmberAfPluginReportingEntry * *entry*)

Configured.

This callback is called by the Reporting plugin whenever a reporting entry is configured, including when entries are deleted or updated. The application can use this callback for scheduling readings or measurements based on the minimum and maximum reporting interval for the entry. The application should return EMBER_ZCL_STATUS_SUCCESS if it can support the configuration or an error status otherwise. Note: attribute reporting is required for many clusters and attributes, so rejecting a reporting configuration may violate ZigBee specifications.

Parameters

| | |
|--------------|--------------|
| <i>entry</i> | Ver.: always |
|--------------|--------------|

6.4.2.1015 int16u emberAfPluginSimpleMeteringClientRequestMirrorCallback (EmberEUI64 *requestingDeviceIeeeAddress*)

Request Mirror.

This function is called by the Simple Metering client plugin whenever a Request Mirror command is received. The application should return the endpoint to which the mirror has been assigned. If no mirror could be assigned, the application should return 0xFFFF.

Parameters

| | |
|--------------------------------------|--------------|
| <i>requesting-DeviceIeee-Address</i> | Ver.: always |
|--------------------------------------|--------------|

6.4.2.1016 int16u emberAfPluginSimpleMeteringClientRemoveMirrorCallback (EmberEUI64 *requestingDeviceIeeeAddress*)

Remove Mirror.

This function is called by the Simple Metering client plugin whenever a Remove Mirror command is received. The application should return the endpoint on which the mirror has been removed. If the mirror could not be removed, the application should return 0xFFFF.

Parameters

| | |
|--------------------------------------|--------------|
| <i>requesting-DeviceIeee-Address</i> | Ver.: always |
|--------------------------------------|--------------|

6.4.2.1017 void emberAfPluginTunnelingClientTunnelOpenedCallback (int8u *tunnelIndex*, EmberAfPluginTunnelingClientStatus *tunnelStatus*, int16u *maximumIncomingTransferSize*)

Tunnel Opened.

This function is called by the Tunneling client plugin whenever a tunnel is opened. Clients may open tunnels by sending a Request Tunnel command.

Parameters

| | |
|--------------------------------------|--|
| <i>tunnelIndex</i> | The index of the tunnel that has been opened. Ver.: always |
| <i>tunnelStatus</i> | The status of the request. Ver.: always |
| <i>maximum-Incoming-TransferSize</i> | The maximum incoming transfer size of the server. Ver.: always |

6.4.2.1018 void emberAfPluginTunnelingClientDataReceivedCallback (int8u *tunnelIndex*, int8u * *data*, int16u *dataLen*)

Data Received.

This function is called by the Tunneling client plugin whenever data is received from a server through a tunnel.

Parameters

| | |
|--------------------|---|
| <i>tunnelIndex</i> | The index of the tunnel through which the data was received. Ver.: always |
| <i>data</i> | Buffer containing the raw octets of the data. Ver.: always |
| <i>dataLen</i> | The length in octets of the data. Ver.: always |

6.4.2.1019 void emberAfPluginTunnelingClientDataErrorCallback (int8u *tunnelIndex*, EmberAfTunnelingTransferDataStatus *transferDataStatus*)

Data Error.

This function is called by the Tunneling client plugin whenever a data error occurs on a tunnel. Errors occur if a device attempts to send data on tunnel that is no longer active or if the tunneling does not belong to the device.

Parameters

| | |
|----------------------------|---|
| <i>tunnelIndex</i> | The index of the tunnel on which this data error occurred. Ver.: always |
| <i>transferData-Status</i> | The error that occurred. Ver.: always |

6.4.2.1020 void emberAfPluginTunnelingClientTunnelClosedCallback (int8u *tunnelIndex*)

Tunnel Closed.

This function is called by the Tunneling client plugin whenever a server sends a notification that it preemptively closed an inactive tunnel. Servers are not required to notify clients of tunnel closures, so applications cannot rely on this callback being called for all tunnels.

Parameters

| | |
|--------------------|--|
| <i>tunnelIndex</i> | The index of the tunnel that has been closed. Ver.: always |
|--------------------|--|

6.4.2.1021 boolean emberAfPluginTunnelingServerIsProtocolSupportedCallback (int8u *protocolId*, int16u *manufacturerCode*)

Is Protocol Supported.

This function is called by the Tunneling server plugin whenever a Request Tunnel command is received. The application should return TRUE if the protocol is supported and FALSE otherwise.

Parameters

| | |
|--------------------------|---|
| <i>protocolId</i> | The identifier of the metering communication protocol for which the tunnel is requested. Ver.: always |
| <i>manufacturer-Code</i> | The manufacturer code for manufacturer-defined protocols or 0xFFFF in unused. Ver.: always |

6.4.2.1022 void emberAfPluginTunnelingServerTunnelOpenedCallback (int16u *tunnelId*, int8u *protocolId*, int16u *manufacturerCode*, boolean *flowControlSupport*, int16u *maximumIncomingTransferSize*)

Tunnel Opened.

This function is called by the Tunneling server plugin whenever a tunnel is opened. Clients may open tunnels by sending a Request Tunnel command.

Parameters

| | |
|--------------------------------------|--|
| <i>tunnelId</i> | The identifier of the tunnel that has been opened. Ver.: always |
| <i>protocolId</i> | The identifier of the metering communication protocol for the tunnel. Ver.: always |
| <i>manufacturer-Code</i> | The manufacturer code for manufacturer-defined protocols or 0xFFFF in unused. Ver.: always |
| <i>flowControl-Support</i> | TRUE is flow control support is requested or FALSE if it is not. Ver.: always |
| <i>maximum-Incoming-TransferSize</i> | The maximum incoming transfer size of the client. Ver.: always |

6.4.2.1023 void emberAfPluginTunnelingServerDataReceivedCallback (int16u *tunnelId*, int8u * *data*, int16u *dataLen*)

Data Received.

This function is called by the Tunneling server plugin whenever data is received from a client through a tunnel.

Parameters

| | |
|-----------------|--|
| <i>tunnelId</i> | The identifier of the tunnel through which the data was received. Ver.: always |
| <i>data</i> | Buffer containing the raw octets of the data. Ver.: always |
| <i>dataLen</i> | The length in octets of the data. Ver.: always |

6.4.2.1024 void emberAfPluginTunnelingServerDataErrorCallback (int16u *tunnelId*, EmberAfTunnelingTransferDataStatus *transferDataStatus*)

Data Error.

This function is called by the Tunneling server plugin whenever a data error occurs on a tunnel. Errors occur if a device attempts to send data on tunnel that is no longer active or if the tunneling does not belong to the device.

Parameters

| | |
|---------------------------|--|
| <i>tunnelId</i> | The identifier of the tunnel on which this data error occurred. Ver.: always |
| <i>transferDataStatus</i> | The error that occurred. Ver.: always |

6.4.2.1025 void emberAfPluginTunnelingServerTunnelClosedCallback (int16u *tunnelId*, boolean *clientInitiated*)

Tunnel Closed.

This function is called by the Tunneling server plugin whenever a tunnel is closed. Clients may close tunnels by sending a Close Tunnel command. The server can preemptively close inactive tunnels after a timeout.

Parameters

| | |
|------------------------|---|
| <i>tunnelId</i> | The identifier of the tunnel that has been closed. Ver.: always |
| <i>clientInitiated</i> | TRUE if the client initiated the closing of the tunnel or FALSE if the server closed the tunnel due to inactivity. Ver.: always |

6.4.2.1026 void emberAfPluginZllCommissioningInitialSecurityStateCallback (EmberZllInitialSecurityState * *securityState*)

Initial Security State.

This function is called by the ZLL Commissioning plugin to determine the initial security state to be used by the device. The application must populate the ::EmberZllInitialSecurityState structure with a configuration appropriate for the network being formed, joined, or started. Once the device forms, joins, or starts a network, the same security configuration will remain in place until the device leaves the network.

Parameters

| | |
|----------------------|---|
| <i>securityState</i> | The security configuration to be populated by the application and ultimately set in the stack. Ver.: always |
|----------------------|---|

6.4.2.1027 void emberAfPluginZllCommissioningTouchLinkCompleteCallback (const EmberZllNetwork * *networkInfo*, int8u *deviceInformationRecordCount*, const EmberZllDeviceInfoRecord * *deviceInformationRecordList*)

Touch Link Complete.

This function is called by the ZLL Commissioning plugin when touch linking completes.

Parameters

| | |
|---------------------------------------|--|
| <i>networkInfo</i> | The ZigBee and ZLL-specific information about the network and target. Ver.: always |
| <i>device-Information-RecordCount</i> | The number of sub-device information records for the target. Ver.: always |
| <i>device-Information-RecordList</i> | The list of sub-device information records for the target. Ver.: always |

6.4.2.1028 void emberAfPluginZllCommissioningTouchLinkFailedCallback (EmberAfZllCommissioningStatus *status*)

Touch Link Failed.

This function is called by the ZLL Commissioning plugin if touch linking fails.

Parameters

| | |
|---------------|--|
| <i>status</i> | The reason the touch link failed. Ver.: always |
|---------------|--|

6.4.2.1029 int8u emberAfPluginZllCommissioningGroupIdentifierCountCallback (int8u *endpoint*)

Group Identifier Count.

This function is called by the ZLL Commissioning plugin to determine the number of group identifiers in use by a specific endpoint on the device. The total number of group identifiers on the device, which are shared by all endpoints, is defined by ::EMBER_ZLL_GROUP_ADDRESSES.

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | The endpoint for which the group identifier count is requested. Ver.: always |
|-----------------|--|

6.4.2.1030 boolean emberAfPluginZllCommissioningGroupIdentifierCallback (int8u *endpoint*, int8u *index*, EmberAfPluginZllCommissioningGroupInformationRecord * *record*)

Group Identifier.

This function is called by the ZLL Commissioning plugin to obtain information about the group identifiers in use by a specific endpoint on the device. The application should populate the record with information about the group identifier and return TRUE. If no information is available for the given endpoint and index, the application should return FALSE.

Parameters

| | |
|-----------------|--|
| <i>endpoint</i> | The endpoint for which the group identifier is requested. Ver.: always |
| <i>index</i> | The index of the group on the endpoint. Ver.: always |
| <i>record</i> | The group information record. Ver.: always |

6.4.2.1031 int8u emberAfPluginZllCommissioningEndpointInformationCountCallback (int8u *endpoint*)

Endpoint Information Count.

This function is called by the ZLL Commissioning plugin to determine the number of remote endpoints controlled by a specific endpoint on the local device.

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | The local endpoint for which the remote endpoint information count is requested. Ver.: always |
|-----------------|---|

6.4.2.1032 boolean emberAfPluginZllCommissioningEndpointInformationCallback (int8u *endpoint*, int8u *index*, EmberAfPluginZllCommissioningEndpointInformationRecord * *record*)

Endpoint Information.

This function is called by the ZLL Commissioning plugin to obtain information about the remote endpoints controlled by a specific endpoint on the local device. The application should populate the record with information about the remote endpoint and return TRUE. If no information is available for the given endpoint and index, the application should return FALSE.

Parameters

| | |
|-----------------|---|
| <i>endpoint</i> | The local endpoint for which the remote endpoint information is requested. Ver.: always |
| <i>index</i> | The index of the remote endpoint information on the local endpoint. Ver.: always |
| <i>record</i> | The endpoint information record. Ver.: always |

6.4.2.1033 void emberAfPluginZllCommissioningIdentifyCallback (int16u *duration*)

Identify.

This function is called by the ZLL Commissioning plugin to notify the application that it should take an action to identify itself. This typically occurs when an Identify Request is received via inter-PAN messaging.

Parameters

| | |
|-----------------|--|
| <i>duration</i> | If the duration is zero, the device should exit identify mode. If the duration is 0xFFFF, the device should remain in identify mode for the default time. Otherwise, the duration specifies the length of time in seconds that the device should remain in identify mode. Ver.: always |
|-----------------|--|

6.4.2.1034 void emberAfPluginZllCommissioningResetToFactoryNewCallback (void)

Reset To Factory New.

This function is called by the ZLL Commissioning plugin when a request to reset to factory new is received. The plugin will leave the network, reset attributes managed by the framework to their default values, and clear the group and scene tables. The application should perform any other necessary reset-related opera-

tions in this callback, including resetting any externally-stored attributes.

6.4.2.1035 EmberAfStatus emberAfPluginZllOnOffServerOffWithEffectCallback (int8u *endpoint*, int8u *effectId*, int8u *effectVariant*)

Off With Effect.

This callback is called by the ZLL On/Off Server plugin whenever an OffWithEffect command is received. The application should implement the effect and variant requested in the command and return [EMBER_Z-CL_STATUS_SUCCESS](#) if successful or an appropriate error status otherwise.

Parameters

| | |
|----------------------|--------------|
| <i>endpoint</i> | Ver.: always |
| <i>effectId</i> | Ver.: always |
| <i>effectVariant</i> | Ver.: always |

6.5 Application Framework Command Buffer Loading Interface

Global Commands

- #define `emberAfFillCommandGlobalServerToClientReadAttributes`(clusterId, attributeIds, attributeIdsLen)
- #define `emberAfFillCommandGlobalClientToServerReadAttributes`(clusterId, attributeIds, attributeIdsLen)
- #define `emberAfFillCommandGlobalServerToClientReadAttributesResponse`(clusterId, readAttributeStatusRecords, readAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReadAttributesResponse`(clusterId, readAttributeStatusRecords, readAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributes`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributes`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributesUndivided`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributesUndivided`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributesResponse`(clusterId, writeAttributeStatusRecords, writeAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributesResponse`(clusterId, writeAttributeStatusRecords, writeAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributesNoResponse`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributesNoResponse`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientConfigureReporting`(clusterId, configureReportingRecords, configureReportingRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerConfigureReporting`(clusterId, configureReportingRecords, configureReportingRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientConfigureReportingResponse`(clusterId, configureReportingStatusRecords, configureReportingStatusRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerConfigureReportingResponse`(clusterId, configureReportingStatusRecords, configureReportingStatusRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientReadReportingConfiguration`(clusterId, readReportingConfigurationAttributeRecords, readReportingConfigurationAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReadReportingConfiguration`(clusterId, readReportingConfigurationAttributeRecords, readReportingConfigurationAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientReadReportingConfigurationResponse`(clusterId, readReportingConfigurationRecords, readReportingConfigurationRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReadReportingConfigurationResponse`(clusterId, readReportingConfigurationRecords, readReportingConfigurationRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientReportAttributes`(clusterId, reportAttributeRecords, reportAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReportAttributes`(clusterId, reportAttributeRecords, reportAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientDefaultResponse`(clusterId, commandId, status)
- #define `emberAfFillCommandGlobalClientToServerDefaultResponse`(clusterId, commandId, status)
- #define `emberAfFillCommandGlobalServerToClientDiscoverAttributes`(clusterId, startId, maxAttributeIds)

- #define `emberAfFillCommandGlobalClientToServerDiscoverAttributes`(clusterId, startId, maxAttribute-Ids)
- #define `emberAfFillCommandGlobalServerToClientDiscoverAttributesResponse`(clusterId, discovery-Complete, discoverAttributesInfoRecords, discoverAttributesInfoRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerDiscoverAttributesResponse`(clusterId, discovery-Complete, discoverAttributesInfoRecords, discoverAttributesInfoRecordsLen)

Basic Commands

- #define `emberAfFillCommandBasicClusterResetToFactoryDefaults()`

Identify Commands

- #define `emberAfFillCommandIdentifyClusterIdentify`(identifyTime)
- #define `emberAfFillCommandIdentifyClusterIdentifyQuery()`
- #define `emberAfFillCommandIdentifyClusterIdentifyQueryResponse`(timeout)
- #define `emberAfFillCommandIdentifyClusterTriggerEffect`(effectId, effectVariant)

Groups Commands

- #define `emberAfFillCommandGroupsClusterAddGroup`(groupId, groupName)
- #define `emberAfFillCommandGroupsClusterViewGroup`(groupId)
- #define `emberAfFillCommandGroupsClusterGetGroupMembership`(groupCount, groupList, group-ListLen)
- #define `emberAfFillCommandGroupsClusterRemoveGroup`(groupId)
- #define `emberAfFillCommandGroupsClusterRemoveAllGroups()`
- #define `emberAfFillCommandGroupsClusterAddGroupIfIdentifying`(groupId, groupName)
- #define `emberAfFillCommandGroupsClusterAddGroupResponse`(status, groupId)
- #define `emberAfFillCommandGroupsClusterViewGroupResponse`(status, groupId, groupName)
- #define `emberAfFillCommandGroupsClusterGetGroupMembershipResponse`(capacity, groupCount, groupList, groupListLen)
- #define `emberAfFillCommandGroupsClusterRemoveGroupResponse`(status, groupId)

Scenes Commands

- #define `emberAfFillCommandScenesClusterAddScene`(groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterViewScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRemoveScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRemoveAllScenes`(groupId)
- #define `emberAfFillCommandScenesClusterStoreScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRecallScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterGetSceneMembership`(groupId)
- #define `emberAfFillCommandScenesClusterAddSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterViewSceneResponse`(status, groupId, sceneId, transition-Time, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterRemoveSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRemoveAllScenesResponse`(status, groupId)
- #define `emberAfFillCommandScenesClusterStoreSceneResponse`(status, groupId, sceneId)

- #define `emberAfFillCommandScenesClusterGetSceneMembershipResponse`(status, capacity, groupId, sceneCount, sceneList, sceneListLen)
- #define `emberAfFillCommandScenesClusterEnhancedAddScene`(groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterEnhancedViewScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterCopyScene`(mode, groupIdFrom, sceneIdFrom, groupIdTo, sceneIdTo)
- #define `emberAfFillCommandScenesClusterEnhancedAddSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterEnhancedViewSceneResponse`(status, groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterCopySceneResponse`(status, groupIdFrom, sceneIdFrom)

On/off Commands

- #define `emberAfFillCommandOnOffClusterOff`()
- #define `emberAfFillCommandOnOffClusterOn`()
- #define `emberAfFillCommandOnOffClusterToggle`()
- #define `emberAfFillCommandOnOffClusterOffWithEffect`(effectId, effectVariant)
- #define `emberAfFillCommandOnOffClusterOnWithRecallGlobalScene`()
- #define `emberAfFillCommandOnOffClusterOnWithTimedOff`(onOffControl, onTime, offWaitTime)
- #define `emberAfFillCommandOnOffClusterSampleMfgSpecificOffWithTransition`()
- #define `emberAfFillCommandOnOffClusterSampleMfgSpecificOnWithTransition`()
- #define `emberAfFillCommandOnOffClusterSampleMfgSpecificToggleWithTransition`()

Level Control Commands

- #define `emberAfFillCommandLevelControlClusterMoveToLevel`(level, transitionTime)
- #define `emberAfFillCommandLevelControlClusterMove`(moveMode, rate)
- #define `emberAfFillCommandLevelControlClusterStep`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandLevelControlClusterStop`()
- #define `emberAfFillCommandLevelControlClusterMoveToLevelWithOnOff`(level, transitionTime)
- #define `emberAfFillCommandLevelControlClusterMoveWithOnOff`(moveMode, rate)
- #define `emberAfFillCommandLevelControlClusterStepWithOnOff`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandLevelControlClusterStopWithOnOff`()

Alarms Commands

- #define `emberAfFillCommandAlarmClusterResetAlarm`(alarmCode, clusterId)
- #define `emberAfFillCommandAlarmClusterResetAllAlarms`()
- #define `emberAfFillCommandAlarmClusterGetAlarm`()
- #define `emberAfFillCommandAlarmClusterResetAlarmLog`()
- #define `emberAfFillCommandAlarmClusterAlarm`(alarmCode, clusterId)
- #define `emberAfFillCommandAlarmClusterGetAlarmResponse`(status, alarmCode, clusterId, timeStamp)

RSSI Location Commands

- #define `emberAfFillCommandRssiLocationClusterSetAbsoluteLocation`(coordinate1, coordinate2, coordinate3, power, pathLossExponent)
- #define `emberAfFillCommandRssiLocationClusterSetDeviceConfiguration`(power, pathLossExponent, calculationPeriod, numberRssiMeasurements, reportingPeriod)
- #define `emberAfFillCommandRssiLocationClusterGetDeviceConfiguration`(targetAddress)
- #define `emberAfFillCommandRssiLocationClusterGetLocationData`(flags, numberResponses, targetAddress)
- #define `emberAfFillCommandRssiLocationClusterRssiResponse`(replyingDevice, coordinate1, coordinate2, coordinate3, rssi, numberRssiMeasurements)
- #define `emberAfFillCommandRssiLocationClusterSendPings`(targetAddress, numberRssiMeasurements, calculationPeriod)
- #define `emberAfFillCommandRssiLocationClusterAnchorNodeAnnounce`(anchorNodeIeeeAddress, coordinate1, coordinate2, coordinate3)
- #define `emberAfFillCommandRssiLocationClusterDeviceConfigurationResponse`(status, power, pathLossExponent, calculationPeriod, numberRssiMeasurements, reportingPeriod)
- #define `emberAfFillCommandRssiLocationClusterLocationDataResponse`(status, locationType, coordinate1, coordinate2, coordinate3, power, pathLossExponent, locationMethod, qualityMeasure, locationAge)
- #define `emberAfFillCommandRssiLocationClusterLocationDataNotification`(locationType, coordinate1, coordinate2, coordinate3, power, pathLossExponent, locationMethod, qualityMeasure, locationAge)
- #define `emberAfFillCommandRssiLocationClusterCompactLocationDataNotification`(locationType, coordinate1, coordinate2, coordinate3, qualityMeasure, locationAge)
- #define `emberAfFillCommandRssiLocationClusterRssiPing`(locationType)
- #define `emberAfFillCommandRssiLocationClusterRssiRequest`()
- #define `emberAfFillCommandRssiLocationClusterReportRssiMeasurements`(measuringDevice, neighbors, neighborsInfo, neighborsInfoLen)
- #define `emberAfFillCommandRssiLocationClusterRequestOwnLocation`(blindNode)

Commissioning Commands

- #define `emberAfFillCommandCommissioningClusterRestartDevice`(options, delay, jitter)
- #define `emberAfFillCommandCommissioningClusterSaveStartupParameters`(options, index)
- #define `emberAfFillCommandCommissioningClusterRestoreStartupParameters`(options, index)
- #define `emberAfFillCommandCommissioningClusterResetStartupParameters`(options, index)
- #define `emberAfFillCommandCommissioningClusterRestartDeviceResponse`(status)
- #define `emberAfFillCommandCommissioningClusterSaveStartupParametersResponse`(status)
- #define `emberAfFillCommandCommissioningClusterRestoreStartupParametersResponse`(status)
- #define `emberAfFillCommandCommissioningClusterResetStartupParametersResponse`(status)

Thermostat Commands

- #define `emberAfFillCommandThermostatClusterSetpointRaiseLower`(mode, amount)
- #define `emberAfFillCommandThermostatClusterSetWeeklySchedule`(numberOfTransitionsForSequence, dayOfWeekForSequence, modeForSequence, payload, payloadLen)
- #define `emberAfFillCommandThermostatClusterGetWeeklySchedule`(daysToReturn, modeToReturn)
- #define `emberAfFillCommandThermostatClusterClearWeeklySchedule`()
- #define `emberAfFillCommandThermostatClusterGetRelayStatusLog`()

- #define `emberAfFillCommandThermostatClusterCurrentWeeklySchedule`(numberOfTransitionsForSequence, dayOfWeekForSequence, modeForSequence, payload, payloadLen)
- #define `emberAfFillCommandThermostatClusterRelayStatusLog`(timeOfDay, relayStatus, localTemperature, humidityInPercentage, setpoint, unreadEntries)

Color Control Commands

- #define `emberAfFillCommandColorControlClusterMoveToHue`(hue, direction, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveHue`(moveMode, rate)
- #define `emberAfFillCommandColorControlClusterStepHue`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToSaturation`(saturation, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveSaturation`(moveMode, rate)
- #define `emberAfFillCommandColorControlClusterStepSaturation`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToHueAndSaturation`(hue, saturation, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToColor`(colorX, colorY, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveColor`(rateX, rateY)
- #define `emberAfFillCommandColorControlClusterStepColor`(stepX, stepY, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToColorTemperature`(colorTemperature, transitionTime)
- #define `emberAfFillCommandColorControlClusterEnhancedMoveToHue`(enhancedHue, direction, transitionTime)
- #define `emberAfFillCommandColorControlClusterEnhancedMoveHue`(moveMode, rate)
- #define `emberAfFillCommandColorControlClusterEnhancedStepHue`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandColorControlClusterEnhancedMoveToHueAndSaturation`(enhancedHue, saturation, transitionTime)
- #define `emberAfFillCommandColorControlClusterColorLoopSet`(updateFlags, action, direction, time, startHue)
- #define `emberAfFillCommandColorControlClusterStopMoveStep`()
- #define `emberAfFillCommandColorControlClusterMoveColorTemperature`(moveMode, rate, colorTemperatureMinimum, colorTemperatureMaximum)
- #define `emberAfFillCommandColorControlClusterStepColorTemperature`(stepMode, stepSize, transitionTime, colorTemperatureMinimum, colorTemperatureMaximum)

IAS Zone Commands

- #define `emberAfFillCommandIasZoneClusterZoneEnrollResponse`(enrollResponseCode, zoneId)
- #define `emberAfFillCommandIasZoneClusterZoneStatusChangeNotification`(zoneStatus, extendedStatus)
- #define `emberAfFillCommandIasZoneClusterZoneEnrollRequest`(zoneType, manufacturerCode)

IAS ACE Commands

- #define `emberAfFillCommandIasAceClusterArm`(armMode)
- #define `emberAfFillCommandIasAceClusterBypass`(numberOfZones, zoneIds, zoneIdsLen)
- #define `emberAfFillCommandIasAceClusterEmergency`()
- #define `emberAfFillCommandIasAceClusterFire`()
- #define `emberAfFillCommandIasAceClusterPanic`()
- #define `emberAfFillCommandIasAceClusterGetZoneIdMap`()

- #define `emberAfFillCommandIasAceClusterGetZoneInformation(zoneId)`
- #define `emberAfFillCommandIasAceClusterArmResponse(armNotification)`
- #define `emberAfFillCommandIasAceClusterGetZoneIdMapResponse(section0, section1, section2, section3, section4, section5, section6, section7, section8, section9, section10, section11, section12, section13, section14, section15)`
- #define `emberAfFillCommandIasAceClusterGetZoneInformationResponse(zoneId, zoneType, ieeeAddress)`

IAS WD Commands

- #define `emberAfFillCommandIasWdClusterStartWarning(warningInfo, warningDuration)`
- #define `emberAfFillCommandIasWdClusterSquawk(squawkInfo)`

Door Lock Commands

- #define `emberAfFillCommandDoorLockClusterLockDoor()`
- #define `emberAfFillCommandDoorLockClusterUnlockDoor()`
- #define `emberAfFillCommandDoorLockClusterLockDoorResponse(status)`
- #define `emberAfFillCommandDoorLockClusterUnlockDoorResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetLockStatus()`
- #define `emberAfFillCommandDoorLockClusterUnlockWithTimeout(timeoutInSeconds)`
- #define `emberAfFillCommandDoorLockClusterGetBatteryLevel()`
- #define `emberAfFillCommandDoorLockClusterSetRfLockoutTime(dayOfWeek, startTimeInMinutesAfterMidnight, stopTimeInMinutesAfterMidnight)`
- #define `emberAfFillCommandDoorLockClusterGetRfLockoutTime(dayOfWeek)`
- #define `emberAfFillCommandDoorLockClusterGetLogRecord(logNumber)`
- #define `emberAfFillCommandDoorLockClusterUserCodeSet(userId, userStatus, code)`
- #define `emberAfFillCommandDoorLockClusterUserCodeGet(userId)`
- #define `emberAfFillCommandDoorLockClusterUserCodeClear(userId)`
- #define `emberAfFillCommandDoorLockClusterClearAllUserCodes()`
- #define `emberAfFillCommandDoorLockClusterSetUserCodeStatus(userId, userStatus)`
- #define `emberAfFillCommandDoorLockClusterGetUserCodeStatus(userId)`
- #define `emberAfFillCommandDoorLockClusterGetLastUserIdEntered()`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlot(slotNumber, userId, daysMask, startHour, startMinute, durationHour, durationMinute)`
- #define `emberAfFillCommandDoorLockClusterGetScheduleSlot(slotNumber, userId)`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlotStatus(slotNumber, userId, status)`
- #define `emberAfFillCommandDoorLockClusterSetIndicator(indicatorNumber, state)`
- #define `emberAfFillCommandDoorLockClusterGetLockStatusResponse(lockMode, boltCondition, handleCondition, relockTimeout)`
- #define `emberAfFillCommandDoorLockClusterUnlockWithTimeoutResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetBatteryLevelResponse(batteryLevel)`
- #define `emberAfFillCommandDoorLockClusterSetRfLockoutTimeResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetRfLockoutTimeResponse(dayOfWeek, startTimeInMinutesAfterMidnight, stopTimeInMinutesAfterMidnight)`
- #define `emberAfFillCommandDoorLockClusterGetLogRecordResponse(logEntryId, timestamp, eventType, userId)`
- #define `emberAfFillCommandDoorLockClusterUserCodeSetResponse(status)`
- #define `emberAfFillCommandDoorLockClusterUserCodeGetResponse(userId, userStatus, code)`
- #define `emberAfFillCommandDoorLockClusterUserCodeClearResponse(status)`

- #define `emberAfFillCommandDoorLockClusterClearAllUserCodeResponse(status)`
- #define `emberAfFillCommandDoorLockClusterSetUserCodeStatusResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetUserCodeStatusResponse(userId, userStatus)`
- #define `emberAfFillCommandDoorLockClusterGetLastUserIdEnteredResponse(userId, reason)`
- #define `emberAfFillCommandDoorLockClusterUserAdded(userId, userStatus, code)`
- #define `emberAfFillCommandDoorLockClusterUserDeleted(userId)`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlotResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetScheduleSlotResponse(slotNumber, userId, days-Mask, startHour, startMinute, durationHour, durationMinute)`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlotStatusResponse(status)`

Window Covering Commands

- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringUpOpen()`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringDownClose()`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringStop()`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftSetpoint(indexOf-LiftSetpoint)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftValue(liftValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftPercentage(percentage-LiftValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltSetpoint(indexOf-TiltSetpoint)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltValue(tiltValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltPercentage(percentage-TiltValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToProgramSetpoint(setpoint-Type, setpointIndex, setpointValue)`

Power Profile Commands

- #define `emberAfFillCommandPowerProfileClusterPowerProfileRequest(powerProfileId)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileStateRequest()`
- #define `emberAfFillCommandPowerProfileClusterGetPowerProfilePriceResponse(powerProfileId, currency, price, priceTrailingDigit)`
- #define `emberAfFillCommandPowerProfileClusterGetOverallSchedulePriceResponse(currency, price, priceTrailingDigit)`
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleNotification(powerProfile-Id, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)`
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleResponse(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsRequest(power-ProfileId)`
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateRequest(powerProfile-Id)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileNotification(totalProfileNum, power-ProfileId, numOfTransferredPhases, transferredPhases, transferredPhasesLen)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileResponse(totalProfileNum, powerProfile-Id, numOfTransferredPhases, transferredPhases, transferredPhasesLen)`

- #define `emberAfFillCommandPowerProfileClusterPowerProfileStateResponse`(powerProfileCount, powerProfileRecords, powerProfileRecordsLen)
- #define `emberAfFillCommandPowerProfileClusterGetPowerProfilePrice`(powerProfileId)
- #define `emberAfFillCommandPowerProfileClusterPowerProfilesStateNotification`(powerProfileCount, powerProfileRecords, powerProfileRecordsLen)
- #define `emberAfFillCommandPowerProfileClusterGetOverallSchedulePrice`()
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleRequest`(powerProfileId)
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateResponse`(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateNotification`(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)
- #define `emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsNotification`(powerProfileId, startAfter, stopBefore)
- #define `emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsResponse`(powerProfileId, startAfter, stopBefore)

Appliance Control Commands

- #define `emberAfFillCommandApplianceControlClusterExecutionOfACommand`(commandId)
- #define `emberAfFillCommandApplianceControlClusterSignalState`()
- #define `emberAfFillCommandApplianceControlClusterWriteFunctions`(functionId, functionDataType, functionData, functionDataLen)
- #define `emberAfFillCommandApplianceControlClusterOverloadPauseResume`()
- #define `emberAfFillCommandApplianceControlClusterOverloadPause`()
- #define `emberAfFillCommandApplianceControlClusterOverloadWarning`(warningEvent)
- #define `emberAfFillCommandApplianceControlClusterSignalStateResponse`(applianceStatus, remoteEnableFlagsAndDeviceStatus2, applianceStatus2)
- #define `emberAfFillCommandApplianceControlClusterSignalStateNotification`(applianceStatus, remoteEnableFlagsAndDeviceStatus2, applianceStatus2)

Poll Control Commands

- #define `emberAfFillCommandPollControlClusterCheckIn`()
- #define `emberAfFillCommandPollControlClusterCheckInResponse`(startFastPolling, fastPollTimeout)
- #define `emberAfFillCommandPollControlClusterFastPollStop`()
- #define `emberAfFillCommandPollControlClusterSetLongPollInterval`(newLongPollInterval)
- #define `emberAfFillCommandPollControlClusterSetShortPollInterval`(newShortPollInterval)

Appliance Events and Alert Commands

- #define `emberAfFillCommandApplianceEventsAndAlertClusterGetAlerts`()
- #define `emberAfFillCommandApplianceEventsAndAlertClusterGetAlertsResponse`(alertsCount, alertStructures, alertStructuresLen)
- #define `emberAfFillCommandApplianceEventsAndAlertClusterAlertsNotification`(alertsCount, alertStructures, alertStructuresLen)
- #define `emberAfFillCommandApplianceEventsAndAlertClusterEventsNotification`(eventHeader, eventId)

Generic Tunnel Commands

- #define `emberAfFillCommandGenericTunnelClusterMatchProtocolAddress(protocolAddress)`
- #define `emberAfFillCommandGenericTunnelClusterMatchProtocolAddressResponse(deviceIeeeAddress, protocolAddress)`
- #define `emberAfFillCommandGenericTunnelClusterAdvertiseProtocolAddress(protocolAddress)`

BACnet Protocol Tunnel Commands

- #define `emberAfFillCommandBacnetProtocolTunnelClusterTransferNpdu(npdu, npduLen)`

Over the Air Bootloading Cluster Commands

- #define `emberAfFillCommandOtaBootloadClusterImageNotify(payloadType, queryJitter, manufacturerId, imageType, newFileVersion)`
- #define `emberAfFillCommandOtaBootloadClusterQueryNextImageRequest(fieldControl, manufacturerId, imageType, currentFileVersion, hardwareVersion)`
- #define `emberAfFillCommandOtaBootloadClusterQueryNextImageResponse(status, manufacturerId, imageType, fileVersion, imageSize)`
- #define `emberAfFillCommandOtaBootloadClusterImageBlockRequest(fieldControl, manufacturerId, imageType, fileVersion, fileOffset, maxDataSize, requestNodeAddress)`
- #define `emberAfFillCommandOtaBootloadClusterImagePageRequest(fieldControl, manufacturerId, imageType, fileVersion, fileOffset, maxDataSize, pageSize, responseSpacing, requestNodeAddress)`
- #define `emberAfFillCommandOtaBootloadClusterImageBlockResponse(status, manufacturerId, imageType, fileVersion, fileOffset, dataSize, imageData)`
- #define `emberAfFillCommandOtaBootloadClusterUpgradeEndRequest(status, manufacturerId, imageType, fileVersion)`
- #define `emberAfFillCommandOtaBootloadClusterUpgradeEndResponse(manufacturerId, imageType, fileVersion, currentTime, upgradeTime)`
- #define `emberAfFillCommandOtaBootloadClusterQuerySpecificFileRequest(requestNodeAddress, manufacturerId, imageType, fileVersion, currentZigbeeStackVersion)`
- #define `emberAfFillCommandOtaBootloadClusterQuerySpecificFileResponse(status, manufacturerId, imageType, fileVersion, imageSize)`

Demand Response and Load Control Commands

- #define `emberAfFillCommandDemandResponseLoadControlClusterLoadControlEvent(issuerEventId, deviceClass, utilityEnrollmentGroup, startTime, durationInMinutes, criticalityLevel, coolingTemperatureOffset, heatingTemperatureOffset, coolingTemperatureSetPoint, heatingTemperatureSetPoint, averageLoadAdjustmentPercentage, dutyCycle, eventControl)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterCancelLoadControlEvent(issuerEventId, deviceClass, utilityEnrollmentGroup, cancelControl, effectiveTime)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterCancelAllLoadControlEvents(cancelControl)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterReportEventStatus(issuerEventId, eventStatus, eventStatusTime, criticalityLevelApplied, coolingTemperatureSetPointApplied, heatingTemperatureSetPointApplied, averageLoadAdjustmentPercentageApplied, dutyCycleApplied, eventControl, signatureType, signature)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterGetScheduledEvents(startTime, numberOfEvents)`

Simple Metering Commands

- #define `emberAfFillCommandSimpleMeteringClusterGetProfileResponse`(endTime, status, profileIntervalPeriod, numberOfPeriodsDelivered, intervals, intervalsLen)
- #define `emberAfFillCommandSimpleMeteringClusterRequestMirror()`
- #define `emberAfFillCommandSimpleMeteringClusterRemoveMirror()`
- #define `emberAfFillCommandSimpleMeteringClusterRequestFastPollModeResponse`(appliedUpdatePeriod, fastPollModeEndtime)
- #define `emberAfFillCommandSimpleMeteringClusterGetProfile`(intervalChannel, endTime, numberOfPeriods)
- #define `emberAfFillCommandSimpleMeteringClusterRequestMirrorResponse`(endpointId)
- #define `emberAfFillCommandSimpleMeteringClusterMirrorRemoved`(endpointId)
- #define `emberAfFillCommandSimpleMeteringClusterRequestFastPollMode`(fastPollUpdatePeriod, duration)

Price Commands

- #define `emberAfFillCommandPriceClusterPublishPrice`(providerId, rateLabel, issuerEventId, currentTime, unitOfMeasure, currency, priceTrailingDigitAndPriceTier, numberOfPriceTiersAndRegisterTier, startTime, durationInMinutes, price, priceRatio, generationPrice, generationPriceRatio, alternateCostDelivered, alternateCostUnit, alternateCostTrailingDigit, numberOfBlockThresholds, priceControl)
- #define `emberAfFillCommandPriceClusterPublishBlockPeriod`(providerId, issuerEventId, blockPeriodStartTime, blockPeriodDurationInMinutes, numberOfPriceTiersAndNumberOfBlockThresholds, blockPeriodControl)
- #define `emberAfFillCommandPriceClusterGetCurrentPrice`(commandOptions)
- #define `emberAfFillCommandPriceClusterGetScheduledPrices`(startTime, numberOfEvents)
- #define `emberAfFillCommandPriceClusterPriceAcknowledgement`(providerId, issuerEventId, priceAckTime, control)
- #define `emberAfFillCommandPriceClusterGetBlockPeriods`(startTime, numberOfEvents)

Messaging Commands

- #define `emberAfFillCommandMessagingClusterDisplayMessage`(messageId, messageControl, startTime, durationInMinutes, message)
- #define `emberAfFillCommandMessagingClusterCancelMessage`(messageId, messageControl)
- #define `emberAfFillCommandMessagingClusterGetLastMessage()`
- #define `emberAfFillCommandMessagingClusterMessageConfirmation`(messageId, confirmationTime)

Tunneling Commands

- #define `emberAfFillCommandTunnelingClusterRequestTunnel`(protocolId, manufacturerCode, flowControlSupport, maximumIncomingTransferSize)
- #define `emberAfFillCommandTunnelingClusterCloseTunnel`(tunnelId)
- #define `emberAfFillCommandTunnelingClusterTransferDataClientToServer`(tunnelId, data, dataLen)
- #define `emberAfFillCommandTunnelingClusterTransferDataErrorClientToServer`(tunnelId, transferDataStatus)
- #define `emberAfFillCommandTunnelingClusterAckTransferDataClientToServer`(tunnelId, numberOfWorksLeft)
- #define `emberAfFillCommandTunnelingClusterReadyDataClientToServer`(tunnelId, numberOfWorksLeft)

- #define `emberAfFillCommandTunnelingClusterGetSupportedTunnelProtocols`(protocolOffset)
- #define `emberAfFillCommandTunnelingClusterRequestTunnelResponse`(tunnelId, tunnelStatus, maximumIncomingTransferSize)
- #define `emberAfFillCommandTunnelingClusterTransferDataServerToClient`(tunnelId, data, dataLen)
- #define `emberAfFillCommandTunnelingClusterTransferDataErrorServerToClient`(tunnelId, transferDataStatus)
- #define `emberAfFillCommandTunnelingClusterAckTransferDataServerToClient`(tunnelId, numberOfWorkBytesLeft)
- #define `emberAfFillCommandTunnelingClusterReadyDataServerToClient`(tunnelId, numberOfOctetsLeft)
- #define `emberAfFillCommandTunnelingClusterSupportedTunnelProtocolsResponse`(protocolListComplete, protocolCount, protocolList, protocolListLen)
- #define `emberAfFillCommandTunnelingClusterTunnelClosureNotification`(tunnelId)

Prepayment Commands

- #define `emberAfFillCommandPrepaymentClusterSelectAvailableEmergencyCredit`(commandDateTime, originatingDevice, siteId, meterSerialNumber)
- #define `emberAfFillCommandPrepaymentClusterChangeSupply`(providerId, requestDateTime, siteId, meterSerialNumber, implementationDateTime, proposedSupplyStatus, originatorIdSupplyControlBits)
- #define `emberAfFillCommandPrepaymentClusterSupplyStatusResponse`(providerId, implementationDate, supplyStatus)

Key establishment Commands

- #define `emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentRequest`(keyEstablishmentSuite, ephemeralDataGenerateTime, confirmKeyGenerateTime, identity)
- #define `emberAfFillCommandKeyEstablishmentClusterEphemeralDataRequest`(ephemeralData)
- #define `emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataRequest`(secureMessageAuthenticationCode)
- #define `emberAfFillCommandKeyEstablishmentClusterServerToClientTerminateKeyEstablishment`(statusCode, waitTime, keyEstablishmentSuite)
- #define `emberAfFillCommandKeyEstablishmentClusterClientToServerTerminateKeyEstablishment`(statusCode, waitTime, keyEstablishmentSuite)
- #define `emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentResponse`(requestedKeyEstablishmentSuite, ephemeralDataGenerateTime, confirmKeyGenerateTime, identity)
- #define `emberAfFillCommandKeyEstablishmentClusterEphemeralDataResponse`(ephemeralData)
- #define `emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataResponse`(secureMessageAuthenticationCode)

ZLL Commissioning Commands

- #define `emberAfFillCommandZllCommissioningClusterScanRequest`(transaction, zigbeeInformation, zllInformation)
- #define `emberAfFillCommandZllCommissioningClusterDeviceInformationRequest`(transaction, startIndex)
- #define `emberAfFillCommandZllCommissioningClusterIdentifyRequest`(transaction, identifyDuration)
- #define `emberAfFillCommandZllCommissioningClusterResetToFactoryNewRequest`(transaction)

- #define `emberAfFillCommandZllCommissioningClusterNetworkStartRequest`(transaction, extendedPanId, keyIndex, encryptedNetworkKey, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd, initiatorIeeeAddress, initiatorNetworkAddress)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinRouterRequest`(transaction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinEndDeviceRequest`(transaction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd)
- #define `emberAfFillCommandZllCommissioningClusterNetworkUpdateRequest`(transaction, extendedPanId, networkUpdateId, logicalChannel, panId, networkAddress)
- #define `emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersRequest`(startIndex)
- #define `emberAfFillCommandZllCommissioningClusterGetEndpointListRequest`(startIndex)
- #define `emberAfFillCommandZllCommissioningClusterScanResponse`(transaction, rssiCorrection, zigbeeInformation, zllInformation, keyBitmask, responseId, extendedPanId, networkUpdateId, logicalChannel, panId, networkAddress, numberOfSubDevices, totalGroupIds, endpointId, profileId, deviceId, version, groupIdCount)
- #define `emberAfFillCommandZllCommissioningClusterDeviceInformationResponse`(transaction, number_of_SubDevices, startIndex, deviceInformationRecordCount, deviceInformationRecordList, deviceInformationRecordListLen)
- #define `emberAfFillCommandZllCommissioningClusterNetworkStartResponse`(transaction, status, extendedPanId, networkUpdateId, logicalChannel, panId)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinRouterResponse`(transaction, status)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinEndDeviceResponse`(transaction, status)
- #define `emberAfFillCommandZllCommissioningClusterEndpointInformation`(ieeeAddress, networkAddress, endpointId, profileId, deviceId, version)
- #define `emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersResponse`(total, startIndex, count, groupInformationRecordList, groupInformationRecordListLen)
- #define `emberAfFillCommandZllCommissioningClusterGetEndpointListResponse`(total, startIndex, count, endpointInformationRecordList, endpointInformationRecordListLen)

Sample Mfg Specific Cluster Commands

- #define `emberAfFillCommandSampleMfgSpecificClusterCommandOne`(argOne)

6.5.1 Detailed Description

This document describes the ZCL command interface used by the Ember Application Framework for filling ZCL command buffers.

6.5.2 Define Documentation

6.5.2.1 #define emberAfFillCommandGlobalServerToClientReadAttributes(*clusterId*, *attributeIds*, *attributeIdsLen*)

Command description for ReadAttributes.

Command: ReadAttributes

Parameters

| | |
|------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>attributeIds</i> | int8u* |
| <i>attributeIdsLen</i> | int8u |

Definition at line 31 of file [client-command-macro.h](#).

6.5.2.2 #define emberAfFillCommandGlobalClientToServerReadAttributes(*clusterId*, *attributeIds*, *attributeIdsLen*)

Command description for ReadAttributes.

Command: ReadAttributes

Parameters

| | |
|------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>attributeIds</i> | int8u* |
| <i>attributeIdsLen</i> | int8u |

Definition at line 48 of file [client-command-macro.h](#).

6.5.2.3 #define emberAfFillCommandGlobalServerToClientReadAttributesResponse(*clusterId*, *readAttributeStatusRecords*, *readAttributeStatusRecordsLen*)

Command description for ReadAttributesResponse.

Command: ReadAttributesResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>readAttribute-StatusRecords</i> | int8u* |
| <i>readAttribute-StatusRecords- Len</i> | int8u |

Definition at line 65 of file [client-command-macro.h](#).

6.5.2.4 #define emberAfFillCommandGlobalClientToServerReadAttributesResponse(*clusterId*, *readAttributeStatusRecords*, *readAttributeStatusRecordsLen*)

Command description for ReadAttributesResponse.

Command: ReadAttributesResponse

Parameters

| | |
|---------------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>readAttribute-StatusRecords</i> | int8u* |
| <i>readAttribute-StatusRecordsLen</i> | int8u |

Definition at line 82 of file [client-command-macro.h](#).

6.5.2.5 #define emberAfFillCommandGlobalServerToClientWriteAttributes(*clusterId*, *writeAttributeRecords*, *writeAttributeRecordsLen*)

Command description for WriteAttributes.

Command: WriteAttributes

Parameters

| | |
|----------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-Records</i> | int8u* |
| <i>writeAttribute-RecordsLen</i> | int8u |

Definition at line 99 of file [client-command-macro.h](#).

6.5.2.6 #define emberAfFillCommandGlobalClientToServerWriteAttributes(*clusterId*, *writeAttributeRecords*, *writeAttributeRecordsLen*)

Command description for WriteAttributes.

Command: WriteAttributes

Parameters

| | |
|----------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-Records</i> | int8u* |
| <i>writeAttribute-RecordsLen</i> | int8u |

Definition at line 116 of file [client-command-macro.h](#).

6.5.2.7 #define emberAfFillCommandGlobalServerToClientWriteAttributesUndivided(*clusterId*, *writeAttributeRecords*, *writeAttributeRecordsLen*)

Command description for WriteAttributesUndivided.

Command: WriteAttributesUndivided

Parameters

| | |
|----------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-Records</i> | int8u* |
| <i>writeAttribute-RecordsLen</i> | int8u |

Definition at line 133 of file [client-command-macro.h](#).

6.5.2.8 #define emberAfFillCommandGlobalClientToServerWriteAttributesUndivided(*clusterId*, *writeAttributeRecords*, *writeAttributeRecordsLen*)

Command description for WriteAttributesUndivided.

Command: WriteAttributesUndivided

Parameters

| | |
|----------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-Records</i> | int8u* |
| <i>writeAttribute-RecordsLen</i> | int8u |

Definition at line 150 of file [client-command-macro.h](#).

6.5.2.9 #define emberAfFillCommandGlobalServerToClientWriteAttributesResponse(*clusterId*, *writeAttributeStatusRecords*, *writeAttributeStatusRecordsLen*)

Command description for WriteAttributesResponse.

Command: WriteAttributesResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-StatusRecords</i> | int8u* |
| <i>writeAttribute-StatusRecords-Len</i> | int8u |

Definition at line 167 of file [client-command-macro.h](#).

6.5.2.10 #define emberAfFillCommandGlobalClientToServerWriteAttributesResponse(*clusterId*, *writeAttributeStatusRecords*, *writeAttributeStatusRecordsLen*)

Command description for WriteAttributesResponse.

Command: WriteAttributesResponse

Parameters

| | |
|--|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-StatusRecords</i> | int8u* |
| <i>writeAttribute-StatusRecordsLen</i> | int8u |

Definition at line 184 of file [client-command-macro.h](#).

6.5.2.11 #define emberAfFillCommandGlobalServerToClientWriteAttributesNoResponse(*clusterId, writeAttributeRecords, writeAttributeRecordsLen*)

Command description for WriteAttributesNoResponse.

Command: WriteAttributesNoResponse

Parameters

| | |
|----------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-Records</i> | int8u* |
| <i>writeAttribute-RecordsLen</i> | int8u |

Definition at line 201 of file [client-command-macro.h](#).

6.5.2.12 #define emberAfFillCommandGlobalClientToServerWriteAttributesNoResponse(*clusterId, writeAttributeRecords, writeAttributeRecordsLen*)

Command description for WriteAttributesNoResponse.

Command: WriteAttributesNoResponse

Parameters

| | |
|----------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>writeAttribute-Records</i> | int8u* |
| <i>writeAttribute-RecordsLen</i> | int8u |

Definition at line 218 of file [client-command-macro.h](#).

6.5.2.13 #define emberAfFillCommandGlobalServerToClientConfigureReporting(*clusterId, configureReportingRecords, configureReportingRecordsLen*)

Command description for ConfigureReporting.

Command: ConfigureReporting

Parameters

| | |
|---------------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>configure-Reporting-Records</i> | int8u* |
| <i>configure-Reporting-RecordsLen</i> | int8u |

Definition at line 235 of file [client-command-macro.h](#).

6.5.2.14 #define emberAfFillCommandGlobalClientToServerConfigureReporting(*clusterId*, *configureReportingRecords*, *configureReportingRecordsLen*)

Command description for ConfigureReporting.

Command: ConfigureReporting

Parameters

| | |
|---------------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>configure-Reporting-Records</i> | int8u* |
| <i>configure-Reporting-RecordsLen</i> | int8u |

Definition at line 252 of file [client-command-macro.h](#).

6.5.2.15 #define emberAfFillCommandGlobalServerToClientConfigureReportingResponse(*clusterId*, *configureReportingStatusRecords*, *configureReportingStatusRecordsLen*)

Command description for ConfigureReportingResponse.

Command: ConfigureReportingResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>configure-Reporting-StatusRecords</i> | int8u* |
| <i>configure-Reporting-StatusRecordsLen</i> | int8u |

Definition at line 269 of file [client-command-macro.h](#).

**6.5.2.16 #define emberAfFillCommandGlobalClientToServerConfigureReportingResponse(
 clusterId , $\text{configureReportingStatusRecords}$, $\text{configureReportingStatusRecordsLen}$)**

Command description for ConfigureReportingResponse.

Command: ConfigureReportingResponse

Parameters

| | |
|---|------------------|
| clusterId | EmberAfClusterId |
| configure- Reporting- StatusRecords | int8u* |
| configure- Reporting- StatusRecords- Len | int8u |

Definition at line 286 of file [client-command-macro.h](#).

**6.5.2.17 #define emberAfFillCommandGlobalServerToClientReadReporting-
 Configuration (clusterId , $\text{readReportingConfigurationAttributeRecords}$,
 $\text{readReportingConfigurationAttributeRecordsLen}$)**

Command description for ReadReportingConfiguration.

Command: ReadReportingConfiguration

Parameters

| | |
|--|------------------|
| clusterId | EmberAfClusterId |
| readReporting- Configuration- Attribute- Records | int8u* |
| readReporting- Configuration- Attribute- RecordsLen | int8u |

Definition at line 303 of file [client-command-macro.h](#).

**6.5.2.18 #define emberAfFillCommandGlobalClientToServerReadReporting-
 Configuration (clusterId , $\text{readReportingConfigurationAttributeRecords}$,
 $\text{readReportingConfigurationAttributeRecordsLen}$)**

Command description for ReadReportingConfiguration.

Command: ReadReportingConfiguration

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>readReporting-Configuration-Attribute-Records</i> | int8u* |
| <i>readReporting-Configuration-Attribute-RecordsLen</i> | int8u |

Definition at line 320 of file [client-command-macro.h](#).

6.5.2.19 #define emberAfFillCommandGlobalServerToClientReadReporting-ConfigurationResponse(*clusterId*, *readReportingConfigurationRecords*, *readReportingConfigurationRecordsLen*)

Command description for ReadReportingConfigurationResponse.

Command: ReadReportingConfigurationResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>readReporting-Configuration-Records</i> | int8u* |
| <i>readReporting-Configuration-RecordsLen</i> | int8u |

Definition at line 337 of file [client-command-macro.h](#).

6.5.2.20 #define emberAfFillCommandGlobalClientToServerReadReporting-ConfigurationResponse(*clusterId*, *readReportingConfigurationRecords*, *readReportingConfigurationRecordsLen*)

Command description for ReadReportingConfigurationResponse.

Command: ReadReportingConfigurationResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>readReporting-Configuration-Records</i> | int8u* |
| <i>readReporting-Configuration-RecordsLen</i> | int8u |

Definition at line 354 of file [client-command-macro.h](#).

**6.5.2.21 #define emberAfFillCommandGlobalServerToClientReportAttributes(*clusterId*,
reportAttributeRecords, *reportAttributeRecordsLen*)**

Command description for ReportAttributes.

Command: ReportAttributes

Parameters

| | |
|--|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>reportAttribute- Records</i> | int8u* |
| <i>reportAttribute- RecordsLen</i> | int8u |

Definition at line 371 of file [client-command-macro.h](#).

**6.5.2.22 #define emberAfFillCommandGlobalClientToServerReportAttributes(*clusterId*,
reportAttributeRecords, *reportAttributeRecordsLen*)**

Command description for ReportAttributes.

Command: ReportAttributes

Parameters

| | |
|--|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>reportAttribute- Records</i> | int8u* |
| <i>reportAttribute- RecordsLen</i> | int8u |

Definition at line 388 of file [client-command-macro.h](#).

**6.5.2.23 #define emberAfFillCommandGlobalServerToClientDefaultResponse(*clusterId*,
commandId, *status*)**

Command description for DefaultResponse.

Command: DefaultResponse

Parameters

| | |
|------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>commandId</i> | int8u |
| <i>status</i> | int8u |

Definition at line 405 of file [client-command-macro.h](#).

**6.5.2.24 #define emberAfFillCommandGlobalClientToServerDefaultResponse(*clusterId*,
commandId, *status*)**

Command description for DefaultResponse.

Command: DefaultResponse

Parameters

| | |
|------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>commandId</i> | int8u |
| <i>status</i> | int8u |

Definition at line 422 of file [client-command-macro.h](#).

6.5.2.25 #define emberAfFillCommandGlobalServerToClientDiscoverAttributes(*clusterId*, *startId*, *maxAttributeIds*)

Command description for DiscoverAttributes.

Command: DiscoverAttributes

Parameters

| | |
|------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>startId</i> | int16u |
| <i>maxAttribute- Ids</i> | int8u |

Definition at line 439 of file [client-command-macro.h](#).

6.5.2.26 #define emberAfFillCommandGlobalClientToServerDiscoverAttributes(*clusterId*, *startId*, *maxAttributeIds*)

Command description for DiscoverAttributes.

Command: DiscoverAttributes

Parameters

| | |
|------------------------------|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>startId</i> | int16u |
| <i>maxAttribute- Ids</i> | int8u |

Definition at line 456 of file [client-command-macro.h](#).

**6.5.2.27 #define emberAfFillCommandGlobalServerToClientDiscoverAttributesResponse(*cluster-
Id*, *discoveryComplete*, *discoverAttributesInfoRecords*, *discoverAttributesInfoRecordsLen*)**

Command description for DiscoverAttributesResponse.

Command: DiscoverAttributesResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>discovery-Complete</i> | int8u |
| <i>discover-AttributesInfo-Records</i> | int8u* |
| <i>discover-AttributesInfo-RecordsLen</i> | int8u |

Definition at line 474 of file [client-command-macro.h](#).

6.5.2.28 #define emberAfFillCommandGlobalClientToServerDiscoverAttributesResponse(*clusterId*, *discoveryComplete*, *discoverAttributesInfoRecords*, *discoverAttributesInfoRecordsLen*)

Command description for DiscoverAttributesResponse.

Command: DiscoverAttributesResponse

Parameters

| | |
|---|------------------|
| <i>clusterId</i> | EmberAfClusterId |
| <i>discovery-Complete</i> | int8u |
| <i>discover-AttributesInfo-Records</i> | int8u* |
| <i>discover-AttributesInfo-RecordsLen</i> | int8u |

Definition at line 493 of file [client-command-macro.h](#).

6.5.2.29 #define emberAfFillCommandBasicClusterResetToFactoryDefaults()

Command that resets all attribute values to factory default.

Cluster: Basic, Attributes for determining basic information about a device, setting user device information such as location, and enabling a device. Command: ResetToFactoryDefaults

Definition at line 515 of file [client-command-macro.h](#).

6.5.2.30 #define emberAfFillCommandIdentifyClusterIdentify(*identifyTime*)

Command description for Identify.

Cluster: Identify, Attributes and commands for putting a device into Identification mode (e.g. flashing a light). Command: Identify

Parameters

| | |
|---------------------|--------|
| <i>identifyTime</i> | int16u |
|---------------------|--------|

Definition at line 544 of file [client-command-macro.h](#).

6.5.2.31 #define emberAfFillCommandIdentifyClusterIdentifyQuery()

Command description for IdentifyQuery.

Cluster: Identify, Attributes and commands for putting a device into Identification mode (e.g. flashing a light). Command: IdentifyQuery

Definition at line 558 of file [client-command-macro.h](#).

6.5.2.32 #define emberAfFillCommandIdentifyClusterIdentifyQueryResponse(timeout)

Command description for IdentifyQueryResponse.

Cluster: Identify, Attributes and commands for putting a device into Identification mode (e.g. flashing a light). Command: IdentifyQueryResponse

Parameters

| | |
|----------------|--------|
| <i>timeout</i> | int16u |
|----------------|--------|

Definition at line 572 of file [client-command-macro.h](#).

6.5.2.33 #define emberAfFillCommandIdentifyClusterTriggerEffect(effectId, effectVariant)

Command description for TriggerEffect.

Cluster: Identify, Attributes and commands for putting a device into Identification mode (e.g. flashing a light). Command: TriggerEffect

Parameters

| | |
|----------------------|-------|
| <i>effectId</i> | int8u |
| <i>effectVariant</i> | int8u |

Definition at line 588 of file [client-command-macro.h](#).

6.5.2.34 #define emberAfFillCommandGroupsClusterAddGroup(groupId, groupName)

Command description for AddGroup.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: AddGroup

Parameters

| | |
|------------------|--------|
| <i>groupId</i> | int16u |
| <i>groupName</i> | int8u* |

Definition at line 610 of file [client-command-macro.h](#).

6.5.2.35 #define emberAfFillCommandGroupsClusterViewGroup(groupId)

Command description for ViewGroup.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: View-Group

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
|----------------|--------|

Definition at line 626 of file [client-command-macro.h](#).

6.5.2.36 #define emberAfFillCommandGroupsClusterGetGroupMembership(groupCount, groupList, groupListLen)

Command description for GetGroupMembership.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: Get-GroupMembership

Parameters

| | |
|---------------------|--------|
| <i>groupCount</i> | int8u |
| <i>groupList</i> | int8u* |
| <i>groupListLen</i> | int8u |

Definition at line 643 of file [client-command-macro.h](#).

6.5.2.37 #define emberAfFillCommandGroupsClusterRemoveGroup(groupId)

Command description for RemoveGroup.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: Remove-Group

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
|----------------|--------|

Definition at line 660 of file [client-command-macro.h](#).

6.5.2.38 #define emberAfFillCommandGroupsClusterRemoveAllGroups()

Command description for RemoveAllGroups.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: Remove-AllGroups

Definition at line 674 of file [client-command-macro.h](#).

6.5.2.39 #define emberAfFillCommandGroupsClusterAddGroupIfIdentifying(*groupId*, *groupName*)

Command description for AddGroupIfIdentifying.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: AddGroupIfIdentifying

Parameters

| | |
|------------------|--------|
| <i>groupId</i> | int16u |
| <i>groupName</i> | int8u* |

Definition at line 689 of file [client-command-macro.h](#).

6.5.2.40 #define emberAfFillCommandGroupsClusterAddGroupResponse(*status*, *groupId*)

Command description for AddGroupResponse.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: AddGroupResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |

Definition at line 706 of file [client-command-macro.h](#).

6.5.2.41 #define emberAfFillCommandGroupsClusterViewGroupResponse(*status*, *groupId*, *groupName*)

Command description for ViewGroupResponse.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: ViewGroupResponse

Parameters

| | |
|------------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>groupName</i> | int8u* |

Definition at line 724 of file [client-command-macro.h](#).

6.5.2.42 #define emberAfFillCommandGroupsClusterGetGroupMembershipResponse(*capacity*, *groupCount*, *groupList*, *groupListLen*)

Command description for GetGroupMembershipResponse.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: GetGroupMembershipResponse

Parameters

| | |
|---------------------|--------|
| <i>capacity</i> | int8u |
| <i>groupCount</i> | int8u |
| <i>groupList</i> | int8u* |
| <i>groupListLen</i> | int8u |

Definition at line 744 of file [client-command-macro.h](#).

6.5.2.43 #define emberAfFillCommandGroupsClusterRemoveGroupResponse(*status*, *groupId*)

Command description for RemoveGroupResponse.

Cluster: Groups, Attributes and commands for group configuration and manipulation. Command: RemoveGroupResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |

Definition at line 763 of file [client-command-macro.h](#).

6.5.2.44 #define emberAfFillCommandScenesClusterAddScene(*groupId*, *sceneId*, *transitionTime*, *sceneName*, *extensionFieldSets*, *extensionFieldSetsLen*)

Command description for AddScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: AddScene

Parameters

| | |
|--|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |
| <i>transitionTime</i> | int16u |
| <i>sceneName</i> | int8u* |
| <i>extensionField-</i> <i>Sets</i> | int8u* |
| <i>extensionField-</i> <i>SetsLen</i> | int8u |

Definition at line 789 of file [client-command-macro.h](#).

6.5.2.45 #define emberAfFillCommandScenesClusterViewScene(*groupId*, *sceneId*)

Command description for ViewScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: ViewScene

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 810 of file [client-command-macro.h](#).

6.5.2.46 #define emberAfFillCommandScenesClusterRemoveScene(*groupId*, *sceneId*)

Command description for RemoveScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Remove-Scene

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 827 of file [client-command-macro.h](#).

6.5.2.47 #define emberAfFillCommandScenesClusterRemoveAllScenes(*groupId*)

Command description for RemoveAllScenes.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Remove-AllScenes

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
|----------------|--------|

Definition at line 843 of file [client-command-macro.h](#).

6.5.2.48 #define emberAfFillCommandScenesClusterStoreScene(*groupId*, *sceneId*)

Command description for StoreScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Store-Scene

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 859 of file [client-command-macro.h](#).

6.5.2.49 #define emberAfFillCommandScenesClusterRecallScene(*groupId*, *sceneId*)

Command description for RecallScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Recall-Scene

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 876 of file [client-command-macro.h](#).

6.5.2.50 #define emberAfFillCommandScenesClusterGetSceneMembership(groupId)

Command description for GetSceneMembership.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Get-SceneMembership

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
|----------------|--------|

Definition at line 892 of file [client-command-macro.h](#).

6.5.2.51 #define emberAfFillCommandScenesClusterAddSceneResponse(status, groupId, sceneId)

Command description for AddSceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Add-SceneResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 909 of file [client-command-macro.h](#).

6.5.2.52 #define emberAfFillCommandScenesClusterViewSceneResponse(status, groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)

Command description for ViewSceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: View-SceneResponse

Parameters

| | |
|--|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |
| <i>transitionTime</i> | int16u |
| <i>sceneName</i> | int8u* |
| <i>extensionField-</i> <i>Sets</i> | int8u* |
| <i>extensionField-</i> <i>SetsLen</i> | int8u |

Definition at line 932 of file [client-command-macro.h](#).

6.5.2.53 #define emberAfFillCommandScenesClusterRemoveSceneResponse(*status*, *groupId*, *sceneId*)

Command description for RemoveSceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: RemoveSceneResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 955 of file [client-command-macro.h](#).

6.5.2.54 #define emberAfFillCommandScenesClusterRemoveAllScenesResponse(*status*, *groupId*)

Command description for RemoveAllScenesResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: RemoveAllScenesResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |

Definition at line 973 of file [client-command-macro.h](#).

6.5.2.55 #define emberAfFillCommandScenesClusterStoreSceneResponse(*status*, *groupId*, *sceneId*)

Command description for StoreSceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: StoreSceneResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 991 of file [client-command-macro.h](#).

6.5.2.56 #define emberAfFillCommandScenesClusterGetSceneMembershipResponse(*status*, *capacity*, *groupId*, *sceneCount*, *sceneList*, *sceneListLen*)

Command description for GetSceneMembershipResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Get-SceneMembershipResponse

Parameters

| | |
|---------------------|--------|
| <i>status</i> | int8u |
| <i>capacity</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneCount</i> | int8u |
| <i>sceneList</i> | int8u* |
| <i>sceneListLen</i> | int8u |

Definition at line 1013 of file [client-command-macro.h](#).

6.5.2.57 #define emberAfFillCommandScenesClusterEnhancedAddScene(groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)

Command description for EnhancedAddScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Enhanced-AddScene

Parameters

| | |
|--------------------------------|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |
| <i>transitionTime</i> | int16u |
| <i>sceneName</i> | int8u* |
| <i>extensionField- Sets</i> | int8u* |
| <i>extensionField- SetsLen</i> | int8u |

Definition at line 1038 of file [client-command-macro.h](#).

6.5.2.58 #define emberAfFillCommandScenesClusterEnhancedViewScene(groupId, sceneId)

Command description for EnhancedViewScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Enhanced-ViewScene

Parameters

| | |
|----------------|--------|
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 1059 of file [client-command-macro.h](#).

6.5.2.59 #define emberAfFillCommandScenesClusterCopyScene(mode, groupIdFrom, sceneIdFrom, groupIdTo, sceneIdTo)

Command description for CopyScene.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Copy-Scene

Parameters

| | |
|--------------------|--------|
| <i>mode</i> | int8u |
| <i>groupIdFrom</i> | int16u |
| <i>sceneIdFrom</i> | int8u |
| <i>groupIdTo</i> | int16u |
| <i>sceneIdTo</i> | int8u |

Definition at line 1079 of file [client-command-macro.h](#).

6.5.2.60 #define emberAfFillCommandScenesClusterEnhancedAddSceneResponse(*status*, *groupId*, *sceneId*)

Command description for EnhancedAddSceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Enhanced-AddSceneResponse

Parameters

| | |
|----------------|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |

Definition at line 1100 of file [client-command-macro.h](#).

6.5.2.61 #define emberAfFillCommandScenesClusterEnhancedViewSceneResponse(*status*, *groupId*, *sceneId*, *transitionTime*, *sceneName*, *extensionFieldSets*, *extensionFieldSetsLen*)

Command description for EnhancedViewSceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: Enhanced-ViewSceneResponse

Parameters

| | |
|--|--------|
| <i>status</i> | int8u |
| <i>groupId</i> | int16u |
| <i>sceneId</i> | int8u |
| <i>transitionTime</i> | int16u |
| <i>sceneName</i> | int8u* |
| <i>extensionField-</i> <i>Sets</i> | int8u* |
| <i>extensionField-</i> <i>SetsLen</i> | int8u |

Definition at line 1123 of file [client-command-macro.h](#).

6.5.2.62 #define emberAfFillCommandScenesClusterCopySceneResponse(*status*, *groupIdFrom*, *sceneIdFrom*)

Command description for CopySceneResponse.

Cluster: Scenes, Attributes and commands for scene configuration and manipulation. Command: CopySceneResponse

Parameters

| | |
|--------------------|--------|
| <i>status</i> | int8u |
| <i>groupIdFrom</i> | int16u |
| <i>sceneIdFrom</i> | int8u |

Definition at line 1146 of file [client-command-macro.h](#).

6.5.2.63 #define emberAfFillCommandOnOffClusterOff()

Command description for Off.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: Off

Definition at line 1167 of file [client-command-macro.h](#).

6.5.2.64 #define emberAfFillCommandOnOffClusterOn()

Command description for On.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: On

Definition at line 1180 of file [client-command-macro.h](#).

6.5.2.65 #define emberAfFillCommandOnOffClusterToggle()

Command description for Toggle.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: Toggle

Definition at line 1193 of file [client-command-macro.h](#).

6.5.2.66 #define emberAfFillCommandOnOffClusterOffWithEffect(*effectId*, *effectVariant*)

Command description for OffWithEffect.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: OffWithEffect

Parameters

| | |
|----------------------|-------|
| <i>effectId</i> | int8u |
| <i>effectVariant</i> | int8u |

Definition at line 1208 of file [client-command-macro.h](#).

6.5.2.67 #define emberAfFillCommandOnOffClusterOnWithRecallGlobalScene()

Command description for OnWithRecallGlobalScene.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: OnWithRecallGlobalScene

Definition at line 1223 of file [client-command-macro.h](#).

6.5.2.68 #define emberAfFillCommandOnOffClusterOnWithTimedOff(*onOffControl*, *onTime*, *offWaitTime*)

Command description for OnWithTimedOff.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: OnWithTimedOff

Parameters

| | |
|---------------------|--------|
| <i>onOffControl</i> | int8u |
| <i>onTime</i> | int16u |
| <i>offWaitTime</i> | int16u |

Definition at line 1239 of file [client-command-macro.h](#).

6.5.2.69 #define emberAfFillCommandOnOffClusterSampleMfgSpecificOffWithTransition()

Client command that turns the device off with a transition given by the transition time in the Ember Sample transition time attribute.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: SampleMfgSpecificOffWithTransition

Definition at line 1256 of file [client-command-macro.h](#).

6.5.2.70 #define emberAfFillCommandOnOffClusterSampleMfgSpecificOnWithTransition()

Client command that turns the device on with a transition given by the transition time in the Ember Sample transition time attribute.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: SampleMfgSpecificOnWithTransition

Definition at line 1271 of file [client-command-macro.h](#).

6.5.2.71 #define emberAfFillCommandOnOffClusterSampleMfgSpecificToggleWithTransition()

Client command that toggles the device with a transition given by the transition time in the Ember Sample transition time attribute.

Cluster: On/off, Attributes and commands for switching devices between 'On' and 'Off' states. Command: SampleMfgSpecificToggleWithTransition

Definition at line 1286 of file [client-command-macro.h](#).

6.5.2.72 #define emberAfFillCommandLevelControlClusterMoveToLevel(*level*, *transitionTime*)

Command description for MoveToLevel.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: MoveToLevel

Parameters

| | |
|-----------------------|--------|
| <i>level</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 1312 of file [client-command-macro.h](#).

6.5.2.73 #define emberAfFillCommandLevelControlClusterMove(*moveMode*, *rate*)

Command description for Move.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: Move

Parameters

| | |
|-----------------|-------|
| <i>moveMode</i> | int8u |
| <i>rate</i> | int8u |

Definition at line 1329 of file [client-command-macro.h](#).

6.5.2.74 #define emberAfFillCommandLevelControlClusterStep(*stepMode*, *stepSize*, *transitionTime*)

Command description for Step.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: Step

Parameters

| | |
|-----------------------|--------|
| <i>stepMode</i> | int8u |
| <i>stepSize</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 1347 of file [client-command-macro.h](#).

6.5.2.75 #define emberAfFillCommandLevelControlClusterStop()

Command description for Stop.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: Stop

Definition at line 1363 of file [client-command-macro.h](#).

**6.5.2.76 #define emberAfFillCommandLevelControlClusterMoveToLevelWithOnOff(*level*,
transitionTime)**

Command description for MoveToLevelWithOnOff.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: MoveToLevelWithOnOff

Parameters

| | |
|-----------------------|--------|
| <i>level</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 1378 of file [client-command-macro.h](#).

6.5.2.77 #define emberAfFillCommandLevelControlClusterMoveWithOnOff(*moveMode*, *rate*)

Command description for MoveWithOnOff.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: MoveWithOnOff

Parameters

| | |
|-----------------|-------|
| <i>moveMode</i> | int8u |
| <i>rate</i> | int8u |

Definition at line 1395 of file [client-command-macro.h](#).

**6.5.2.78 #define emberAfFillCommandLevelControlClusterStepWithOnOff(*stepMode*, *stepSize*,
transitionTime)**

Command description for StepWithOnOff.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: StepWithOnOff

Parameters

| | |
|-----------------------|--------|
| <i>stepMode</i> | int8u |
| <i>stepSize</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 1413 of file [client-command-macro.h](#).

6.5.2.79 #define emberAfFillCommandLevelControlClusterStopWithOnOff()

Command description for StopWithOnOff.

Cluster: Level Control, Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.' Command: StopWithOnOff

Definition at line 1429 of file [client-command-macro.h](#).

6.5.2.80 #define emberAfFillCommandAlarmClusterResetAlarm(*alarmCode*, *clusterId*)

Command description for ResetAlarm.

Cluster: Alarms, Attributes and commands for sending notifications and configuring alarm functionality.

Command: ResetAlarm

Parameters

| | |
|------------------|--------|
| <i>alarmCode</i> | int8u |
| <i>clusterId</i> | int16u |

Definition at line [1449](#) of file [client-command-macro.h](#).

6.5.2.81 #define emberAfFillCommandAlarmClusterResetAllAlarms()

Command description for ResetAllAlarms.

Cluster: Alarms, Attributes and commands for sending notifications and configuring alarm functionality.

Command: ResetAllAlarms

Definition at line [1464](#) of file [client-command-macro.h](#).

6.5.2.82 #define emberAfFillCommandAlarmClusterGetAlarm()

Command description for GetAlarm.

Cluster: Alarms, Attributes and commands for sending notifications and configuring alarm functionality.

Command: GetAlarm

Definition at line [1477](#) of file [client-command-macro.h](#).

6.5.2.83 #define emberAfFillCommandAlarmClusterResetAlarmLog()

Command description for ResetAlarmLog.

Cluster: Alarms, Attributes and commands for sending notifications and configuring alarm functionality.

Command: ResetAlarmLog

Definition at line [1490](#) of file [client-command-macro.h](#).

6.5.2.84 #define emberAfFillCommandAlarmClusterAlarm(*alarmCode*, *clusterId*)

Command description for Alarm.

Cluster: Alarms, Attributes and commands for sending notifications and configuring alarm functionality.

Command: Alarm

Parameters

| | |
|------------------|--------|
| <i>alarmCode</i> | int8u |
| <i>clusterId</i> | int16u |

Definition at line [1505](#) of file [client-command-macro.h](#).

6.5.2.85 #define emberAfFillCommandAlarmClusterGetAlarmResponse(*status*, *alarmCode*, *clusterId*, *timeStamp*)

Command description for GetAlarmResponse.

Cluster: Alarms, Attributes and commands for sending notifications and configuring alarm functionality.
Command: GetAlarmResponse

Parameters

| | |
|------------------|--------|
| <i>status</i> | int8u |
| <i>alarmCode</i> | int8u |
| <i>clusterId</i> | int16u |
| <i>timeStamp</i> | int32u |

Definition at line 1524 of file [client-command-macro.h](#).

6.5.2.86 #define emberAfFillCommandRssiLocationClusterSetAbsoluteLocation(*coordinate1*, *coordinate2*, *coordinate3*, *power*, *pathLossExponent*)

Command description for SetAbsoluteLocation.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: SetAbsoluteLocation

Parameters

| | |
|--------------------------|--------|
| <i>coordinate1</i> | int16s |
| <i>coordinate2</i> | int16s |
| <i>coordinate3</i> | int16s |
| <i>power</i> | int16s |
| <i>pathLoss-Exponent</i> | int16u |

Definition at line 1556 of file [client-command-macro.h](#).

6.5.2.87 #define emberAfFillCommandRssiLocationClusterSetDeviceConfiguration(*power*, *pathLossExponent*, *calculationPeriod*, *numberRssiMeasurements*, *reportingPeriod*)

Command description for SetDeviceConfiguration.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: SetDeviceConfiguration

Parameters

| | |
|--------------------------------|--------|
| <i>power</i> | int16s |
| <i>pathLoss-Exponent</i> | int16u |
| <i>calculation-Period</i> | int16u |
| <i>numberRssi-Measurements</i> | int8u |
| <i>reporting-Period</i> | int16u |

Definition at line 1579 of file [client-command-macro.h](#).

6.5.2.88 #define emberAfFillCommandRssiLocationClusterGetDeviceConfiguration(targetAddress)

Command description for GetDeviceConfiguration.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: GetDeviceConfiguration

Parameters

| | |
|----------------------|--------|
| <i>targetAddress</i> | int8u* |
|----------------------|--------|

Definition at line 1598 of file [client-command-macro.h](#).

6.5.2.89 #define emberAfFillCommandRssiLocationClusterGetLocationData(flags, numberResponses, targetAddress)

Command description for GetLocationData.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: GetLocationData

Parameters

| | |
|------------------------|--------|
| <i>flags</i> | int8u |
| <i>numberResponses</i> | int8u |
| <i>targetAddress</i> | int8u* |

Definition at line 1615 of file [client-command-macro.h](#).

6.5.2.90 #define emberAfFillCommandRssiLocationClusterRssiResponse(replyingDevice, coordinate1, coordinate2, coordinate3, rssi, numberRssiMeasurements)

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: RssiResponse.

Parameters

| | |
|-------------------------------|--------|
| <i>replyingDevice</i> | int8u* |
| <i>coordinate1</i> | int16s |
| <i>coordinate2</i> | int16s |
| <i>coordinate3</i> | int16s |
| <i>rssi</i> | int8s |
| <i>numberRssiMeasurements</i> | int8u |

Definition at line 1637 of file [client-command-macro.h](#).

6.5.2.91 #define emberAfFillCommandRssiLocationClusterSendPings(*targetAddress*, *numberRssiMeasurements*, *calculationPeriod*)

Command description for SendPings.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: SendPings

Parameters

| | |
|-------------------------------|--------|
| <i>targetAddress</i> | int8u* |
| <i>numberRssiMeasurements</i> | int8u |
| <i>calculationPeriod</i> | int16u |

Definition at line 1659 of file [client-command-macro.h](#).

6.5.2.92 #define emberAfFillCommandRssiLocationClusterAnchorNodeAnnounce(*anchorNodeIeeeAddress*, *coordinate1*, *coordinate2*, *coordinate3*)

Command description for AnchorNodeAnnounce.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: AnchorNodeAnnounce

Parameters

| | |
|------------------------------|--------|
| <i>anchorNodeIeeeAddress</i> | int8u* |
| <i>coordinate1</i> | int16s |
| <i>coordinate2</i> | int16s |
| <i>coordinate3</i> | int16s |

Definition at line 1679 of file [client-command-macro.h](#).

6.5.2.93 #define emberAfFillCommandRssiLocationClusterDeviceConfigurationResponse(*status*, *power*, *pathLossExponent*, *calculationPeriod*, *numberRssiMeasurements*, *reportingPeriod*)

Command description for DeviceConfigurationResponse.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: DeviceConfigurationResponse

Parameters

| | |
|-------------------------------|--------|
| <i>status</i> | int8u |
| <i>power</i> | int16s |
| <i>pathLossExponent</i> | int16u |
| <i>calculationPeriod</i> | int16u |
| <i>numberRssiMeasurements</i> | int8u |

| | |
|-------------------------|--------|
| <i>reporting-Period</i> | int16u |
|-------------------------|--------|

Definition at line 1702 of file [client-command-macro.h](#).

6.5.2.94 #define emberAfFillCommandRssiLocationClusterLocationDataResponse(*status*, *locationType*, *coordinate1*, *coordinate2*, *coordinate3*, *power*, *pathLossExponent*, *locationMethod*, *qualityMeasure*, *locationAge*)

Command description for LocationDataResponse.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: LocationDataResponse

Parameters

| | |
|--------------------------|--------|
| <i>status</i> | int8u |
| <i>locationType</i> | int8u |
| <i>coordinate1</i> | int16s |
| <i>coordinate2</i> | int16s |
| <i>coordinate3</i> | int16s |
| <i>power</i> | int16s |
| <i>pathLoss-Exponent</i> | int16u |
| <i>locationMethod</i> | int8u |
| <i>qualityMeasure</i> | int8u |
| <i>locationAge</i> | int16u |

Definition at line 1731 of file [client-command-macro.h](#).

6.5.2.95 #define emberAfFillCommandRssiLocationClusterLocationDataNotification(*locationType*, *coordinate1*, *coordinate2*, *coordinate3*, *power*, *pathLossExponent*, *locationMethod*, *qualityMeasure*, *locationAge*)

Command description for LocationDataNotification.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: LocationDataNotification

Parameters

| | |
|--------------------------|--------|
| <i>locationType</i> | int8u |
| <i>coordinate1</i> | int16s |
| <i>coordinate2</i> | int16s |
| <i>coordinate3</i> | int16s |
| <i>power</i> | int16s |
| <i>pathLoss-Exponent</i> | int16u |
| <i>locationMethod</i> | int8u |
| <i>qualityMeasure</i> | int8u |
| <i>locationAge</i> | int16u |

Definition at line 1763 of file [client-command-macro.h](#).

6.5.2.96 #define emberAfFillCommandRssiLocationClusterCompactLocationDataNotification(*locationType*, *coordinate1*, *coordinate2*, *coordinate3*, *qualityMeasure*, *locationAge*)

Command description for CompactLocationDataNotification.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: CompactLocationDataNotification

Parameters

| | |
|-----------------------|--------|
| <i>locationType</i> | int8u |
| <i>coordinate1</i> | int16s |
| <i>coordinate2</i> | int16s |
| <i>coordinate3</i> | int16s |
| <i>qualityMeasure</i> | int8u |
| <i>locationAge</i> | int16u |

Definition at line 1791 of file [client-command-macro.h](#).

6.5.2.97 #define emberAfFillCommandRssiLocationClusterRssiPing(*locationType*)

Command description for RssiPing.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: RssiPing

Parameters

| | |
|---------------------|-------|
| <i>locationType</i> | int8u |
|---------------------|-------|

Definition at line 1811 of file [client-command-macro.h](#).

6.5.2.98 #define emberAfFillCommandRssiLocationClusterRssiRequest()

Command description for RssiRequest.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: RssiRequest

Definition at line 1825 of file [client-command-macro.h](#).

6.5.2.99 #define emberAfFillCommandRssiLocationClusterReportRssiMeasurements(*measuringDevice*, *neighbors*, *neighborsInfo*, *neighborsInfoLen*)

Command description for ReportRssiMeasurements.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: ReportRssiMeasurements

Parameters

| | |
|--------------------------|--------|
| <i>measuring-Device</i> | int8u* |
| <i>neighbors</i> | int8u |
| <i>neighborsInfo</i> | int8u* |
| <i>neighborsInfo-Len</i> | int8u |

Definition at line 1842 of file [client-command-macro.h](#).

6.5.2.100 #define emberAfFillCommandRssiLocationClusterRequestOwnLocation(*blindNode*)

Command description for RequestOwnLocation.

Cluster: RSSI Location, Attributes and commands that provide a means for exchanging location information and channel parameters among devices. Command: RequestOwnLocation

Parameters

| | |
|------------------|--------|
| <i>blindNode</i> | int8u* |
|------------------|--------|

Definition at line 1860 of file [client-command-macro.h](#).

6.5.2.101 #define emberAfFillCommandCommissioningClusterRestartDevice(*options*, *delay*, *jitter*)

Command description for RestartDevice.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device. Command: RestartDevice

Parameters

| | |
|----------------|-------|
| <i>options</i> | int8u |
| <i>delay</i> | int8u |
| <i>jitter</i> | int8u |

Definition at line 1887 of file [client-command-macro.h](#).

6.5.2.102 #define emberAfFillCommandCommissioningClusterSaveStartupParameters(*options*, *index*)

Command description for SaveStartupParameters.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device. Command: SaveStartupParameters

Parameters

| | |
|----------------|-------|
| <i>options</i> | int8u |
| <i>index</i> | int8u |

Definition at line 1905 of file [client-command-macro.h](#).

6.5.2.103 #define emberAfFillCommandCommissioningClusterRestoreStartupParameters(*options*, *index*)

Command description for RestoreStartupParameters.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device.
Command: RestoreStartupParameters

Parameters

| | |
|----------------|-------|
| <i>options</i> | int8u |
| <i>index</i> | int8u |

Definition at line 1922 of file [client-command-macro.h](#).

6.5.2.104 #define emberAfFillCommandCommissioningClusterResetStartupParameters(*options*, *index*)

Command description for ResetStartupParameters.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device.
Command: ResetStartupParameters

Parameters

| | |
|----------------|-------|
| <i>options</i> | int8u |
| <i>index</i> | int8u |

Definition at line 1939 of file [client-command-macro.h](#).

6.5.2.105 #define emberAfFillCommandCommissioningClusterRestartDeviceResponse(*status*)

Command description for RestartDeviceResponse.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device.
Command: RestartDeviceResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 1955 of file [client-command-macro.h](#).

6.5.2.106 #define emberAfFillCommandCommissioningClusterSaveStartupParametersResponse(*status*)

Command description for SaveStartupParametersResponse.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device.
Command: SaveStartupParametersResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 1970 of file [client-command-macro.h](#).

6.5.2.107 #define emberAfFillCommandCommissioningClusterRestoreStartupParametersResponse(*status*)

Command description for RestoreStartupParametersResponse.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device.
Command: RestoreStartupParametersResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 1985 of file [client-command-macro.h](#).

6.5.2.108 #define emberAfFillCommandCommissioningClusterResetStartupParametersResponse(*status*)

Command description for ResetStartupParametersResponse.

Cluster: Commissioning, Attributes and commands for commissioning and managing a ZigBee device.
Command: ResetStartupParametersResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 2000 of file [client-command-macro.h](#).

6.5.2.109 #define emberAfFillCommandThermostatClusterSetpointRaiseLower(*mode*, *amount*)

Command description for SetpointRaiseLower.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat. -
Command: SetpointRaiseLower

Parameters

| | |
|---------------|-------|
| <i>mode</i> | int8u |
| <i>amount</i> | int8s |

Definition at line 2031 of file [client-command-macro.h](#).

6.5.2.110 #define emberAfFillCommandThermostatClusterSetWeeklySchedule(*numberOfTransitionsForSequence*, *dayOfWeekForSequence*, *modeForSequence*, *payload*, *payloadLen*)

Command description for SetWeeklySchedule.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat. -

Command: SetWeeklySchedule

Parameters

| | |
|---------------------------------------|--------|
| <i>numberOfTransitionsForSequence</i> | int8u |
| <i>dayOfWeekForSequence</i> | int8u |
| <i>modeForSequence</i> | int8u |
| <i>payload</i> | int8u* |
| <i>payloadLen</i> | int8u |

Definition at line 2051 of file [client-command-macro.h](#).

6.5.2.111 #define emberAfFillCommandThermostatClusterGetWeeklySchedule(*daysToReturn*, *modeToReturn*)

Command description for GetWeeklySchedule.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat.
Command: GetWeeklySchedule

Parameters

| | |
|---------------------|-------|
| <i>daysToReturn</i> | int8u |
| <i>modeToReturn</i> | int8u |

Definition at line 2071 of file [client-command-macro.h](#).

6.5.2.112 #define emberAfFillCommandThermostatClusterClearWeeklySchedule()

The Clear Weekly Schedule command is used to clear the weekly schedule.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat.
Command: ClearWeeklySchedule

Definition at line 2086 of file [client-command-macro.h](#).

6.5.2.113 #define emberAfFillCommandThermostatClusterGetRelayStatusLog()

The Get Relay Status Log command is used to query the thermostat internal relay status log.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat.
Command: GetRelayStatusLog

Definition at line 2099 of file [client-command-macro.h](#).

```
6.5.2.114 #define emberAfFillCommandThermostatClusterCurrentWeeklySchedule(
    numberOfTransitionsForSequence, dayOfWeekForSequence, modeForSequence, payload,
    payloadLen )
```

The Current Weekly Schedule Command is sent from the server in response to the Get Weekly Schedule Command.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat.
Command: CurrentWeeklySchedule

Parameters

| | |
|---------------------------------------|--------|
| <i>numberOfTransitionsForSequence</i> | int8u |
| <i>dayOfWeekForSequence</i> | int8u |
| <i>modeForSequence</i> | int8u |
| <i>payload</i> | int8u* |
| <i>payloadLen</i> | int8u |

Definition at line 2117 of file [client-command-macro.h](#).

```
6.5.2.115 #define emberAfFillCommandThermostatClusterRelayStatusLog( timeOfDay,
    relayStatus, localTemperature, humidityInPercentage, setpoint, unreadEntries )
```

This command is sent from the thermostat cluster server in response to the Get Relay Status Log.

Cluster: Thermostat, An interface for configuring and controlling the functionality of a thermostat.
Command: RelayStatusLog

Parameters

| | |
|-----------------------------|--------|
| <i>timeOfDay</i> | int16u |
| <i>relayStatus</i> | int16u |
| <i>localTemperature</i> | int16s |
| <i>humidityInPercentage</i> | int8u |
| <i>setpoint</i> | int16s |
| <i>unreadEntries</i> | int8u |

Definition at line 2141 of file [client-command-macro.h](#).

```
6.5.2.116 #define emberAfFillCommandColorControlClusterMoveToHue( hue, direction,
    transitionTime )
```

Command description for MoveToHue.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveToHue

Parameters

| | |
|-----------------------|--------|
| <i>hue</i> | int8u |
| <i>direction</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 2183 of file [client-command-macro.h](#).

6.5.2.117 #define emberAfFillCommandColorControlClusterMoveHue(moveMode, rate)

Command description for MoveHue.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveHue

Parameters

| | |
|-----------------|-------|
| <i>moveMode</i> | int8u |
| <i>rate</i> | int8u |

Definition at line 2201 of file [client-command-macro.h](#).

6.5.2.118 #define emberAfFillCommandColorControlClusterStepHue(stepMode, stepSize, transitionTime)

Command description for StepHue.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: StepHue

Parameters

| | |
|-----------------------|-------|
| <i>stepMode</i> | int8u |
| <i>stepSize</i> | int8u |
| <i>transitionTime</i> | int8u |

Definition at line 2219 of file [client-command-macro.h](#).

6.5.2.119 #define emberAfFillCommandColorControlClusterMoveToSaturation(saturation, transitionTime)

Command description for MoveToSaturation.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveToSaturation

Parameters

| | |
|-----------------------|--------|
| <i>saturation</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 2237 of file [client-command-macro.h](#).

6.5.2.120 #define emberAfFillCommandColorControlClusterMoveSaturation(*moveMode, rate*)

Command description for MoveSaturation.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveSaturation

Parameters

| | |
|-----------------|-------|
| <i>moveMode</i> | int8u |
| <i>rate</i> | int8u |

Definition at line [2254](#) of file [client-command-macro.h](#).

6.5.2.121 #define emberAfFillCommandColorControlClusterStepSaturation(*stepMode, stepSize, transitionTime*)

Command description for StepSaturation.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: StepSaturation

Parameters

| | |
|-----------------------|-------|
| <i>stepMode</i> | int8u |
| <i>stepSize</i> | int8u |
| <i>transitionTime</i> | int8u |

Definition at line [2272](#) of file [client-command-macro.h](#).

6.5.2.122 #define emberAfFillCommandColorControlClusterMoveToHueAndSaturation(*hue, saturation, transitionTime*)

Command description for MoveToHueAndSaturation.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveToHueAndSaturation

Parameters

| | |
|-----------------------|--------|
| <i>hue</i> | int8u |
| <i>saturation</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line [2291](#) of file [client-command-macro.h](#).

6.5.2.123 #define emberAfFillCommandColorControlClusterMoveToColor(*colorX, colorY, transitionTime*)

Moves the lighting to a specific color.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveToColor

Parameters

| | |
|-----------------------|--------|
| <i>colorX</i> | int16u |
| <i>colorY</i> | int16u |
| <i>transitionTime</i> | int16u |

Definition at line 2310 of file [client-command-macro.h](#).

6.5.2.124 #define emberAfFillCommandColorControlClusterMoveColor(*rateX*, *rateY*)

Moves the color.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveColor

Parameters

| | |
|--------------|--------|
| <i>rateX</i> | int16s |
| <i>rateY</i> | int16s |

Definition at line 2328 of file [client-command-macro.h](#).

6.5.2.125 #define emberAfFillCommandColorControlClusterStepColor(*stepX*, *stepY*, *transitionTime*)

Steps the lighting to a specific color.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: StepColor

Parameters

| | |
|-----------------------|--------|
| <i>stepX</i> | int16s |
| <i>stepY</i> | int16s |
| <i>transitionTime</i> | int16u |

Definition at line 2346 of file [client-command-macro.h](#).

6.5.2.126 #define emberAfFillCommandColorControlClusterMoveToColorTemperature(*colorTemperature*, *transitionTime*)

Moves the lighting to a specific color temperature.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveToColorTemperature

Parameters

| | |
|-------------------------------|--------|
| <i>color- Temperature</i> | int16u |
| <i>transitionTime</i> | int16u |

Definition at line 2364 of file [client-command-macro.h](#).

6.5.2.127 #define emberAfFillCommandColorControlClusterEnhancedMoveToHue(*enhancedHue, direction, transitionTime*)

Command description for EnhancedMoveToHue.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: EnhancedMoveToHue

Parameters

| | |
|-----------------------|--------|
| <i>enhancedHue</i> | int16u |
| <i>direction</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 2382 of file [client-command-macro.h](#).

6.5.2.128 #define emberAfFillCommandColorControlClusterEnhancedMoveHue(*moveMode, rate*)

Command description for EnhancedMoveHue.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: EnhancedMoveHue

Parameters

| | |
|-----------------|--------|
| <i>moveMode</i> | int8u |
| <i>rate</i> | int16u |

Definition at line 2400 of file [client-command-macro.h](#).

6.5.2.129 #define emberAfFillCommandColorControlClusterEnhancedStepHue(*stepMode, stepSize, transitionTime*)

Command description for EnhancedStepHue.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: EnhancedStepHue

Parameters

| | |
|-----------------------|--------|
| <i>stepMode</i> | int8u |
| <i>stepSize</i> | int16u |
| <i>transitionTime</i> | int16u |

Definition at line 2418 of file [client-command-macro.h](#).

6.5.2.130 #define emberAfFillCommandColorControlClusterEnhancedMoveToHueAndSaturation(*enhancedHue, saturation, transitionTime*)

Command description for EnhancedMoveToHueAndSaturation.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: EnhancedMoveToHueAndSaturation

Parameters

| | |
|-----------------------|--------|
| <i>enhancedHue</i> | int16u |
| <i>saturation</i> | int8u |
| <i>transitionTime</i> | int16u |

Definition at line 2437 of file [client-command-macro.h](#).

6.5.2.131 #define emberAfFillCommandColorControlClusterColorLoopSet(updateFlags, action, direction, time, startHue)

Command description for ColorLoopSet.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: ColorLoopSet

Parameters

| | |
|--------------------|--------|
| <i>updateFlags</i> | int8u |
| <i>action</i> | int8u |
| <i>direction</i> | int8u |
| <i>time</i> | int16u |
| <i>startHue</i> | int16u |

Definition at line 2458 of file [client-command-macro.h](#).

6.5.2.132 #define emberAfFillCommandColorControlClusterStopMoveStep()

Command description for StopMoveStep.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: StopMoveStep

Definition at line 2476 of file [client-command-macro.h](#).

6.5.2.133 #define emberAfFillCommandColorControlClusterMoveColorTemperature(moveMode, rate, colorTemperatureMinimum, colorTemperatureMaximum)

Command description for MoveColorTemperature.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: MoveColorTemperature

Parameters

| | |
|----------------------------------|--------|
| <i>moveMode</i> | int8u |
| <i>rate</i> | int16u |
| <i>color-Temperature-Minimum</i> | int16u |
| <i>color-Temperature-Maximum</i> | int16u |

Definition at line 2493 of file [client-command-macro.h](#).

**6.5.2.134 #define emberAfFillCommandColorControlClusterStepColorTemperature(*stepMode*,
stepSize, *transitionTime*, *colorTemperatureMinimum*, *colorTemperatureMaximum*)**

Command description for StepColorTemperature.

Cluster: Color Control, Attributes and commands for controlling the color properties of a color-capable light. Command: StepColorTemperature

Parameters

| | |
|--|--------|
| <i>stepMode</i> | int8u |
| <i>stepSize</i> | int16u |
| <i>transitionTime</i> | int16u |
| <i>color- Temperature- Minimum</i> | int16u |
| <i>color- Temperature- Maximum</i> | int16u |

Definition at line 2515 of file [client-command-macro.h](#).

**6.5.2.135 #define emberAfFillCommandIasZoneClusterZoneEnrollResponse(*enrollResponseCode*,
zoneId)**

Command description for zoneEnrollResponse.

Cluster: IAS Zone, Attributes and commands for IAS security zone devices. Command: ZoneEnroll-Response

Parameters

| | |
|---------------------------------|-------|
| <i>enroll- ResponseCode</i> | int8u |
| <i>zoneId</i> | int8u |

Definition at line 2580 of file [client-command-macro.h](#).

**6.5.2.136 #define emberAfFillCommandIasZoneClusterZoneStatusChangeNotification(*zoneStatus*,
extendedStatus)**

Command description for zoneStatusChangeNotification.

Cluster: IAS Zone, Attributes and commands for IAS security zone devices. Command: ZoneStatus-ChangeNotification

Parameters

| | |
|-----------------------|--------|
| <i>zoneStatus</i> | int16u |
| <i>extendedStatus</i> | int8u |

Definition at line 2597 of file [client-command-macro.h](#).

6.5.2.137 #define emberAfFillCommandIasZoneClusterZoneEnrollRequest(zoneType, manufacturerCode)

Command description for zoneEnrollRequest.

Cluster: IAS Zone, Attributes and commands for IAS security zone devices. Command: ZoneEnroll-Request

Parameters

| | |
|-------------------------|--------|
| <i>zoneType</i> | int16u |
| <i>manufacturerCode</i> | int16u |

Definition at line 2614 of file [client-command-macro.h](#).

6.5.2.138 #define emberAfFillCommandIasAceClusterArm(armMode)

Command description for Arm.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: Arm

Parameters

| | |
|----------------|-------|
| <i>armMode</i> | int8u |
|----------------|-------|

Definition at line 2635 of file [client-command-macro.h](#).

6.5.2.139 #define emberAfFillCommandIasAceClusterBypass(numberOfZones, zoneIds, zoneIdsLen)

Command description for Bypass.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: Bypass

Parameters

| | |
|----------------------|--------|
| <i>numberOfZones</i> | int8u |
| <i>zoneIds</i> | int8u* |
| <i>zoneIdsLen</i> | int8u |

Definition at line 2652 of file [client-command-macro.h](#).

6.5.2.140 #define emberAfFillCommandIasAceClusterEmergency()

Command description for Emergency.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: Emergency

Definition at line 2668 of file [client-command-macro.h](#).

6.5.2.141 #define emberAfFillCommandIasAceClusterFire()

Command description for Fire.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: Fire

Definition at line [2681](#) of file [client-command-macro.h](#).

6.5.2.142 #define emberAfFillCommandIasAceClusterPanic()

Command description for Panic.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: Panic

Definition at line [2694](#) of file [client-command-macro.h](#).

6.5.2.143 #define emberAfFillCommandIasAceClusterGetZoneIdMap()

Command description for GetZoneIdMap.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: GetZone-
IdMap

Definition at line [2707](#) of file [client-command-macro.h](#).

6.5.2.144 #define emberAfFillCommandIasAceClusterGetZoneInformation(zoneId)

Command description for GetZoneInformation.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: GetZone-
Information

Parameters

| | |
|---------------|-------|
| <i>zoneId</i> | int8u |
|---------------|-------|

Definition at line [2721](#) of file [client-command-macro.h](#).

6.5.2.145 #define emberAfFillCommandIasAceClusterArmResponse(armNotification)

Command description for ArmResponse.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: Arm-
Response

Parameters

| | |
|------------------------|-------|
| <i>armNotification</i> | int8u |
|------------------------|-------|

Definition at line [2736](#) of file [client-command-macro.h](#).

```
6.5.2.146 #define emberAfFillCommandIasAceClusterGetZoneIdMapResponse( section0,
    section1, section2, section3, section4, section5, section6, section7, section8, section9,
    section10, section11, section12, section13, section14, section15 )
```

Command description for GetZoneIdMapResponse.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: GetZoneIdMapResponse

Parameters

| | |
|-----------|--------|
| section0 | int16u |
| section1 | int16u |
| section2 | int16u |
| section3 | int16u |
| section4 | int16u |
| section5 | int16u |
| section6 | int16u |
| section7 | int16u |
| section8 | int16u |
| section9 | int16u |
| section10 | int16u |
| section11 | int16u |
| section12 | int16u |
| section13 | int16u |
| section14 | int16u |
| section15 | int16u |

Definition at line 2766 of file [client-command-macro.h](#).

```
6.5.2.147 #define emberAfFillCommandIasAceClusterGetZoneInformationResponse( zoneId,
    zoneType, ieeeAddress )
```

Command description for GetZoneInformationResponse.

Cluster: IAS ACE, Attributes and commands for IAS Ancillary Control Equipment. Command: GetZoneInformationResponse

Parameters

| | |
|-------------|--------|
| zoneId | int8u |
| zoneType | int16u |
| ieeeAddress | int8u* |

Definition at line 2798 of file [client-command-macro.h](#).

```
6.5.2.148 #define emberAfFillCommandIasWdClusterStartWarning( warningInfo, warningDuration
    )
```

Command description for StartWarning.

Cluster: IAS WD, Attributes and commands for IAS Warning Devices. Command: StartWarning

Parameters

| | |
|------------------------|--------|
| <i>warningInfo</i> | int8u |
| <i>warningDuration</i> | int16u |

Definition at line 2821 of file [client-command-macro.h](#).

6.5.2.149 #define emberAfFillCommandIasWdClusterSquawk(*squawkInfo*)

Command description for Squawk.

Cluster: IAS WD, Attributes and commands for IAS Warning Devices. Command: Squawk

Parameters

| | |
|-------------------|-------|
| <i>squawkInfo</i> | int8u |
|-------------------|-------|

Definition at line 2837 of file [client-command-macro.h](#).

6.5.2.150 #define emberAfFillCommandDoorLockClusterLockDoor()

Locks the door.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: LockDoor

Definition at line 2856 of file [client-command-macro.h](#).

6.5.2.151 #define emberAfFillCommandDoorLockClusterUnlockDoor()

Unlocks the door.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UnlockDoor

Definition at line 2869 of file [client-command-macro.h](#).

6.5.2.152 #define emberAfFillCommandDoorLockClusterLockDoorResponse(*status*)

Indicates lock success or failure.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: LockDoor-Response

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 2883 of file [client-command-macro.h](#).

6.5.2.153 #define emberAfFillCommandDoorLockClusterUnlockDoorResponse(*status*)

Indicates unlock success or failure.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UnlockDoor-

Response

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 2898 of file [client-command-macro.h](#).

6.5.2.154 #define emberAfFillCommandDoorLockClusterGetLockStatus()

Request the status of the lock.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetLockStatus

Definition at line 2912 of file [client-command-macro.h](#).

6.5.2.155 #define emberAfFillCommandDoorLockClusterUnlockWithTimeout(*timeoutInSeconds*)

Unsecure the lock with a relock time.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UnlockWithTimeout

Parameters

| | |
|-------------------------------------|-------|
| <i>timeoutIn-</i> <i>Seconds</i> | int8u |
|-------------------------------------|-------|

Definition at line 2926 of file [client-command-macro.h](#).

6.5.2.156 #define emberAfFillCommandDoorLockClusterGetBatteryLevel()

Request the current battery level.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetBatteryLevel

Definition at line 2940 of file [client-command-macro.h](#).

**6.5.2.157 #define emberAfFillCommandDoorLockClusterSetRfLockoutTime(*dayOfWeek*,
 startTimeInMinutesAfterMidnight, *stopTimeInMinutesAfterMidnight*)**

Set the start and stop times for RF radio shutdown. Configurable to one slot per day.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetRfLockoutTime

Parameters

| | |
|--|--------|
| <i>dayOfWeek</i> | int8u |
| <i>startTimeIn-</i> <i>MinutesAfter-</i> <i>Midnight</i> | int16u |
| <i>stopTimeIn-</i> <i>MinutesAfter-</i> <i>Midnight</i> | int16u |

Definition at line 2956 of file [client-command-macro.h](#).

6.5.2.158 #define emberAfFillCommandDoorLockClusterGetRfLockoutTime(*dayOfWeek*)

Get the start and stop times for RF radio shutdown for the given day.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetRfLockoutTime

Parameters

| | |
|------------------|-------|
| <i>dayOfWeek</i> | int8u |
|------------------|-------|

Definition at line 2973 of file [client-command-macro.h](#).

6.5.2.159 #define emberAfFillCommandDoorLockClusterGetLogRecord(*logNumber*)

Request a log record.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetLogRecord

Parameters

| | |
|------------------|--------|
| <i>logNumber</i> | int16u |
|------------------|--------|

Definition at line 2988 of file [client-command-macro.h](#).

6.5.2.160 #define emberAfFillCommandDoorLockClusterUserCodeSet(*userId*, *userStatus*, *code*)

Set a user code.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserCodeSet

Parameters

| | |
|-------------------|--------|
| <i>userId</i> | int8u |
| <i>userStatus</i> | int8u |
| <i>code</i> | int8u* |

Definition at line 3005 of file [client-command-macro.h](#).

6.5.2.161 #define emberAfFillCommandDoorLockClusterUserCodeGet(*userId*)

Get a user code.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserCodeGet

Parameters

| | |
|---------------|-------|
| <i>userId</i> | int8u |
|---------------|-------|

Definition at line 3022 of file [client-command-macro.h](#).

6.5.2.162 #define emberAfFillCommandDoorLockClusterUserCodeClear(*userId*)

Clear a user code.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserCodeClear

Parameters

| | |
|---------------|-------|
| <i>userId</i> | int8u |
|---------------|-------|

Definition at line [3037](#) of file [client-command-macro.h](#).

6.5.2.163 #define emberAfFillCommandDoorLockClusterClearAllUserCodes()

Clear out all user codes.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: ClearAllUserCodes

Definition at line [3051](#) of file [client-command-macro.h](#).

6.5.2.164 #define emberAfFillCommandDoorLockClusterSetUserCodeStatus(*userId*, *userStatus*)

Set the status of a user code.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetUserCodeStatus

Parameters

| | |
|-------------------|-------|
| <i>userId</i> | int8u |
| <i>userStatus</i> | int8u |

Definition at line [3066](#) of file [client-command-macro.h](#).

6.5.2.165 #define emberAfFillCommandDoorLockClusterGetUserCodeStatus(*userId*)

Get the status of a user code.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetUserCodeStatus

Parameters

| | |
|---------------|-------|
| <i>userId</i> | int8u |
|---------------|-------|

Definition at line [3082](#) of file [client-command-macro.h](#).

6.5.2.166 #define emberAfFillCommandDoorLockClusterGetLastUserIdEntered()

Gets the user ID of the last successful code entry.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetLastUserIdEntered

Definition at line 3096 of file [client-command-macro.h](#).

**6.5.2.167 #define emberAfFillCommandDoorLockClusterSetScheduleSlot(*slotNumber*, *userId*,
daysMask, *startHour*, *startMinute*, *durationHour*, *durationMinute*)**

Set a schedule slot for a user.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetScheduleSlot

Parameters

| | |
|-----------------------|-------|
| <i>slotNumber</i> | int8u |
| <i>userId</i> | int8u |
| <i>daysMask</i> | int8u |
| <i>startHour</i> | int8u |
| <i>startMinute</i> | int8u |
| <i>durationHour</i> | int8u |
| <i>durationMinute</i> | int8u |

Definition at line 3116 of file [client-command-macro.h](#).

6.5.2.168 #define emberAfFillCommandDoorLockClusterGetScheduleSlot(*slotNumber*, *userId*)

Get a schedule slot.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetScheduleSlot

Parameters

| | |
|-------------------|-------|
| <i>slotNumber</i> | int8u |
| <i>userId</i> | int8u |

Definition at line 3138 of file [client-command-macro.h](#).

**6.5.2.169 #define emberAfFillCommandDoorLockClusterSetScheduleSlotStatus(*slotNumber*,
userId, *status*)**

Set a schedule slot status.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetScheduleSlotStatus

Parameters

| | |
|-------------------|-------|
| <i>slotNumber</i> | int8u |
| <i>userId</i> | int8u |
| <i>status</i> | int8u |

Definition at line 3156 of file [client-command-macro.h](#).

6.5.2.170 #define emberAfFillCommandDoorLockClusterSetIndicator(*indicatorNumber*, *state*)

Set the state of an indicator on the lock.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetIndicator

Parameters

| | |
|-------------------------|-------|
| <i>indicator-Number</i> | int8u |
| <i>state</i> | int8u |

Definition at line 3174 of file [client-command-macro.h](#).

6.5.2.171 #define emberAfFillCommandDoorLockClusterGetLockStatusResponse(*lockMode*, *boltCondition*, *handleCondition*, *relockTimeout*)

Returns the status of the lock.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetLockStatus-Response

Parameters

| | |
|-------------------------|-------|
| <i>lockMode</i> | int8u |
| <i>boltCondition</i> | int8u |
| <i>handle-Condition</i> | int8u |
| <i>relockTimeout</i> | int8u |

Definition at line 3193 of file [client-command-macro.h](#).

6.5.2.172 #define emberAfFillCommandDoorLockClusterUnlockWithTimeoutResponse(*status*)

Returns pass/fail of the command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UnlockWith-TimeoutResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3211 of file [client-command-macro.h](#).

6.5.2.173 #define emberAfFillCommandDoorLockClusterGetBatteryLevelResponse(*batteryLevel*)

Returns the battery level as a percentage.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetBattery-LevelResponse

Parameters

| | |
|---------------------|-------|
| <i>batteryLevel</i> | int8u |
|---------------------|-------|

Definition at line 3226 of file [client-command-macro.h](#).

6.5.2.174 #define emberAfFillCommandDoorLockClusterSetRfLockoutTimeResponse(*status*)

Returns pass/fail of the command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetRfLockoutTimeResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3241 of file [client-command-macro.h](#).

6.5.2.175 #define emberAfFillCommandDoorLockClusterGetRfLockoutTimeResponse(*dayOfWeek*, *startTimeInMinutesAfterMidnight*, *stopTimeInMinutesAfterMidnight*)

Returns the lockout time for the given day of week.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetRfLockoutTimeResponse

Parameters

| | |
|--|--------|
| <i>dayOfWeek</i> | int8u |
| <i>startTimeInMinutesAfterMidnight</i> | int16u |
| <i>stopTimeInMinutesAfterMidnight</i> | int16u |

Definition at line 3258 of file [client-command-macro.h](#).

6.5.2.176 #define emberAfFillCommandDoorLockClusterGetLogRecordResponse(*logEntryId*, *timestamp*, *eventType*, *userId*)

Returns the specified log record. If an invalid record was requested the log entry id will be zero.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetLogRecordResponse

Parameters

| | |
|-------------------|--------|
| <i>logEntryId</i> | int16u |
| <i>timestamp</i> | int32u |
| <i>eventType</i> | int8u |
| <i>userId</i> | int8u |

Definition at line 3278 of file [client-command-macro.h](#).

6.5.2.177 #define emberAfFillCommandDoorLockClusterUserCodeSetResponse(*status*)

Returns status of the user code set command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserCodeSet-Response

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3296 of file [client-command-macro.h](#).

6.5.2.178 #define emberAfFillCommandDoorLockClusterUserCodeGetResponse(*userId*, *userStatus*, *code*)

Returns the user code for the specified user id.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserCodeGet-Response

Parameters

| | |
|-------------------|--------|
| <i>userId</i> | int8u |
| <i>userStatus</i> | int8u |
| <i>code</i> | int8u* |

Definition at line 3313 of file [client-command-macro.h](#).

6.5.2.179 #define emberAfFillCommandDoorLockClusterUserCodeClearResponse(*status*)

Returns pass/fail of the command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserCodeClear-Response

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3330 of file [client-command-macro.h](#).

6.5.2.180 #define emberAfFillCommandDoorLockClusterClearAllUserCodesResponse(*status*)

Returns pass/fail of the command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: ClearAllUserCodesResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3345 of file [client-command-macro.h](#).

6.5.2.181 #define emberAfFillCommandDoorLockClusterSetUserCodeStatusResponse(*status*)

Returns the user code for the specified user id.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetUserCodeStatusResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3360 of file [client-command-macro.h](#).

6.5.2.182 #define emberAfFillCommandDoorLockClusterGetUserCodeStatusResponse(*userId*, *userStatus*)

Returns the user code status for the specified user id.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetUserCodeStatusResponse

Parameters

| | |
|-------------------|-------|
| <i>userId</i> | int8u |
| <i>userStatus</i> | int8u |

Definition at line 3376 of file [client-command-macro.h](#).

6.5.2.183 #define emberAfFillCommandDoorLockClusterGetLastUserIdEnteredResponse(*userId*, *reason*)

Returns the user ID of the last successful code entry.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetLastUserIdEnteredResponse

Parameters

| | |
|---------------|-------|
| <i>userId</i> | int8u |
| <i>reason</i> | int8u |

Definition at line 3393 of file [client-command-macro.h](#).

6.5.2.184 #define emberAfFillCommandDoorLockClusterUserAdded(*userId*, *userStatus*, *code*)

This message is sent out when a user code is added at the lock keypad or by the RF module.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserAdded

Parameters

| | |
|-------------------|--------|
| <i>userId</i> | int8u |
| <i>userStatus</i> | int8u |
| <i>code</i> | int8u* |

Definition at line 3411 of file [client-command-macro.h](#).

6.5.2.185 #define emberAfFillCommandDoorLockClusterUserDeleted(*userId*)

This message is sent out when a user code is added at the lock keypad or by the RF module.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: UserDeleted

Parameters

| | |
|---------------|-------|
| <i>userId</i> | int8u |
|---------------|-------|

Definition at line 3428 of file [client-command-macro.h](#).

6.5.2.186 #define emberAfFillCommandDoorLockClusterSetScheduleSlotResponse(*status*)

Returns pass/fail of the command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetScheduleSlotResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line 3443 of file [client-command-macro.h](#).

6.5.2.187 #define emberAfFillCommandDoorLockClusterGetScheduleSlotResponse(*slotNumber*, *userId*, *daysMask*, *startHour*, *startMinute*, *durationHour*, *durationMinute*)

Returns the schedule data for the specified schedule slot.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: GetScheduleSlotResponse

Parameters

| | |
|-----------------------|-------|
| <i>slotNumber</i> | int8u |
| <i>userId</i> | int8u |
| <i>daysMask</i> | int8u |
| <i>startHour</i> | int8u |
| <i>startMinute</i> | int8u |
| <i>durationHour</i> | int8u |
| <i>durationMinute</i> | int8u |

Definition at line 3464 of file [client-command-macro.h](#).

6.5.2.188 #define emberAfFillCommandDoorLockClusterSetScheduleSlotStatusResponse(*status*)

Returns pass/fail of the command.

Cluster: Door Lock, Provides an interface into a generic way to secure a door. Command: SetScheduleSlotStatusResponse

Parameters

| | |
|---------------|-------|
| <i>status</i> | int8u |
|---------------|-------|

Definition at line [3485](#) of file [client-command-macro.h](#).

6.5.2.189 #define emberAffFillCommandWindowCoveringClusterWindowCoveringUpOpen()

Moves window covering to InstalledOpenLimit - Lift and InstalledOpenLimit - Tilt.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringUpOpen

Definition at line [3504](#) of file [client-command-macro.h](#).

6.5.2.190 #define emberAffFillCommandWindowCoveringClusterWindowCoveringDownClose()

Moves window covering to InstalledClosedLimit - Lift and InstalledCloseLimit - Tilt.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringDownClose

Definition at line [3517](#) of file [client-command-macro.h](#).

6.5.2.191 #define emberAffFillCommandWindowCoveringClusterWindowCoveringStop()

Stop any adjusting of window covering.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringStop

Definition at line [3530](#) of file [client-command-macro.h](#).

6.5.2.192 #define emberAffFillCommandWindowCoveringClusterWindowCoveringGoToLift-Setpoint(*indexOfLiftSetpoint*)

Goto lift to value specified.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToLiftSetpoint

Parameters

| | |
|-----------------------------|-------|
| <i>indexOfLift-Setpoint</i> | int8u |
|-----------------------------|-------|

Definition at line [3544](#) of file [client-command-macro.h](#).

6.5.2.193 #define emberAffFillCommandWindowCoveringClusterWindowCoveringGoToLiftValue(*liftValue*)

Goto lift value specified.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToLiftValue

Parameters

| | |
|------------------|--------|
| <i>liftValue</i> | int16u |
|------------------|--------|

Definition at line 3559 of file [client-command-macro.h](#).

6.5.2.194 #define emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftPercentage(percentageLiftValue)

Goto lift percentage specific.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToLiftPercentage

Parameters

| | |
|----------------------------|-------|
| <i>percentageLiftValue</i> | int8u |
|----------------------------|-------|

Definition at line 3574 of file [client-command-macro.h](#).

6.5.2.195 #define emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltSetpoint(indexOfTiltSetpoint)

Goto tilt setpoint.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToTiltSetpoint

Parameters

| | |
|----------------------------|-------|
| <i>indexOfTiltSetpoint</i> | int8u |
|----------------------------|-------|

Definition at line 3589 of file [client-command-macro.h](#).

6.5.2.196 #define emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltValue(tiltValue)

Goto tilt value specified.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToTiltValue

Parameters

| | |
|------------------|--------|
| <i>tiltValue</i> | int16u |
|------------------|--------|

Definition at line 3604 of file [client-command-macro.h](#).

6.5.2.197 #define emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltPercentage(*percentageTiltValue*)

Goto tilt percentage specified.

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToTiltPercentage

Parameters

| | |
|----------------------------|-------|
| <i>percentageTiltValue</i> | int8u |
|----------------------------|-------|

Definition at line 3619 of file [client-command-macro.h](#).

6.5.2.198 #define emberAfFillCommandWindowCoveringClusterWindowCoveringGoToProgramSetpoint(*setpointType*, *setpointIndex*, *setpointValue*)

Cluster: Window Covering, Provides an interface for controlling and adjusting automatic window coverings. Command: WindowCoveringGoToProgramSetpoint.

Parameters

| | |
|----------------------|--------|
| <i>setpointType</i> | int8u |
| <i>setpointIndex</i> | int8u |
| <i>setpointValue</i> | int16u |

Definition at line 3636 of file [client-command-macro.h](#).

6.5.2.199 #define emberAfFillCommandPowerProfileClusterPowerProfileRequest(*powerProfileId*)

The PowerProfileRequest Command is generated by a device supporting the client side of the Power Profile cluster in order to request the Power Profile of a server device.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side). Command: PowerProfileRequest

Parameters

| | |
|-----------------------|-------|
| <i>powerProfileId</i> | int8u |
|-----------------------|-------|

Definition at line 3658 of file [client-command-macro.h](#).

6.5.2.200 #define emberAfFillCommandPowerProfileClusterPowerProfileStateRequest()

The PowerProfileStateRequest Command is generated in order to retrieve the identifiers of current Power Profiles.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can

be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: PowerProfileStateRequest

Definition at line [3672](#) of file [client-command-macro.h](#).

**6.5.2.201 #define emberAfFillCommandPowerProfileClusterGetPowerProfilePriceResponse(
powerProfileId, currency, price, priceTrailingDigit)**

The GetPowerProfilePriceResponse command allows a device (client) to communicate the cost associated to the selected Power Profile to another device (server) requesting it.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: GetPowerProfilePriceResponse

Parameters

| | |
|----------------------------|--------|
| <i>powerProfileId</i> | int8u |
| <i>currency</i> | int16u |
| <i>price</i> | int32u |
| <i>priceTrailing-Digit</i> | int8u |

Definition at line [3689](#) of file [client-command-macro.h](#).

**6.5.2.202 #define emberAfFillCommandPowerProfileClusterGetOverallSchedulePriceResponse(
currency, price, priceTrailingDigit)**

The GetOverallSchedulePriceResponse command allows a device (client) to communicate the overall cost associated to all Power Profiles scheduled to another device (server) requesting it.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: GetOverallSchedulePriceResponse

Parameters

| | |
|----------------------------|--------|
| <i>currency</i> | int16u |
| <i>price</i> | int32u |
| <i>priceTrailing-Digit</i> | int8u |

Definition at line [3709](#) of file [client-command-macro.h](#).

**6.5.2.203 #define emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleNotification(
powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)**

The EnergyPhasesScheduleNotification Command is generated by a device supporting the client side of the Power Profile cluster in order to schedule the start of the selected Power Profile and its phases.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can

be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: EnergyPhasesScheduleNotification

Parameters

| | |
|-----------------------------|--------|
| <i>powerProfileId</i> | int8u |
| <i>numOfScheduledPhases</i> | int8u |
| <i>scheduledPhases</i> | int8u* |
| <i>scheduledPhasesLen</i> | int8u |

Definition at line 3729 of file [client-command-macro.h](#).

6.5.2.204 #define emberAffillCommandPowerProfileClusterEnergyPhasesScheduleResponse(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)

This command is generated by the client side of Power Profile cluster as a reply to the EnergyPhasesScheduleRequest command.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: EnergyPhasesScheduleResponse

Parameters

| | |
|-----------------------------|--------|
| <i>powerProfileId</i> | int8u |
| <i>numOfScheduledPhases</i> | int8u |
| <i>scheduledPhases</i> | int8u* |
| <i>scheduledPhasesLen</i> | int8u |

Definition at line 3750 of file [client-command-macro.h](#).

6.5.2.205 #define emberAffillCommandPowerProfileClusterPowerProfileScheduleConstraintsRequest(powerProfileId)

The PowerProfileScheduleConstraintsRequest Command is generated by a device supporting the client side of the Power Profile cluster in order to request the constraints -if set- of Power Profile of a client device, in order to set the proper boundaries for the scheduling when calculating the schedules.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: PowerProfileScheduleConstraintsRequest

Parameters

| | |
|-----------------------|-------|
| <i>powerProfileId</i> | int8u |
|-----------------------|-------|

Definition at line 3768 of file [client-command-macro.h](#).

**6.5.2.206 #define emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateRequest(
powerProfileId)**

The EnergyPhasesScheduleStateRequest Command is generated by a device supporting the client side of the Power Profile cluster to check the states of the scheduling of a power profile, which is supported in the device implementing the server side of Power Profile cluster.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
Command: EnergyPhasesScheduleStateRequest

Parameters

| | |
|-----------------------|-------|
| <i>powerProfileId</i> | int8u |
|-----------------------|-------|

Definition at line 3783 of file [client-command-macro.h](#).

**6.5.2.207 #define emberAfFillCommandPowerProfileClusterPowerProfileNotification(
totalProfileNum, powerProfileId, numOfTransferredPhases, transferredPhases,
transferredPhasesLen)**

The PowerProfileNotification Command is generated by a device supporting the server side of the Power Profile cluster in order to send the information of the specific parameters (such as Peak power and others) belonging to each phase.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
Command: PowerProfileNotification

Parameters

| | |
|---|--------|
| <i>totalProfile- Num</i> | int8u |
| <i>powerProfileId</i> | int8u |
| <i>numOf- Transferred- Phases</i> | int8u |
| <i>transferred- Phases</i> | int8u* |
| <i>transferred- PhasesLen</i> | int8u |

Definition at line 3802 of file [client-command-macro.h](#).

```
6.5.2.208 #define emberAfFillCommandPowerProfileClusterPowerProfileResponse(
    totalProfileNum, powerProfileId, numOfTransferredPhases, transferredPhases,
    transferredPhasesLen )
```

This command is generated by the server side of Power Profile cluster as a reply to the PowerProfileRequest command.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side). Command: PowerProfileResponse

Parameters

| | |
|---------------------------------|--------|
| <i>totalProfile-Num</i> | int8u |
| <i>powerProfileId</i> | int8u |
| <i>numOf-Transferred-Phases</i> | int8u |
| <i>transferred-Phases</i> | int8u* |
| <i>transferred-PhasesLen</i> | int8u |

Definition at line [3825](#) of file [client-command-macro.h](#).

```
6.5.2.209 #define emberAfFillCommandPowerProfileClusterPowerProfileStateResponse(
    powerProfileCount, powerProfileRecords, powerProfileRecordsLen )
```

The PowerProfileStateResponse command allows a device (server) to communicate its current Power - Profile(s) to another device (client) that previously requested them.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side). Command: PowerProfileStateResponse

Parameters

| | |
|--------------------------------|--------|
| <i>powerProfile-Count</i> | int8u |
| <i>powerProfile-Records</i> | int8u* |
| <i>powerProfile-RecordsLen</i> | int8u |

Definition at line [3846](#) of file [client-command-macro.h](#).

```
6.5.2.210 #define emberAfFillCommandPowerProfileClusterGetPowerProfilePrice( powerProfileId )
```

The GetPowerProfilePrice Command is generated by the server (e.g. White goods) in order to retrieve the cost associated to a specific Power profile.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: GetPowerProfilePrice

Parameters

| | |
|-----------------------|-------|
| <i>powerProfileId</i> | int8u |
|-----------------------|-------|

Definition at line 3863 of file [client-command-macro.h](#).

6.5.2.211 #define emberAfFillCommandPowerProfileClusterPowerProfilesStateNotification(*powerProfileCount*, *powerProfileRecords*, *powerProfileRecordsLen*)

The PowerProfileStateNotification Command is generated by the server (e.g. White goods) in order to update the state of the power profile and the current energy phase.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: PowerProfilesStateNotification

Parameters

| | |
|--------------------------------|--------|
| <i>powerProfile-Count</i> | int8u |
| <i>powerProfile-Records</i> | int8u* |
| <i>powerProfile-RecordsLen</i> | int8u |

Definition at line 3880 of file [client-command-macro.h](#).

6.5.2.212 #define emberAfFillCommandPowerProfileClusterGetOverallSchedulePrice()

The GetOverallSchedulePrice Command is generated by the server (e.g. White goods) in order to retrieve the overall cost associated to all the Power Profiles scheduled by the scheduler (the device supporting the Power Profile cluster client side) for the next 24 hours.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
 Command: GetOverallSchedulePrice

Definition at line 3896 of file [client-command-macro.h](#).

6.5.2.213 #define emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleRequest(*powerProfileId*)

The EnergyPhasesScheduleRequest Command is generated by the server (e.g. White goods) in order to retrieve from the scheduler (e.g. Home Gateway) the schedule (if available) associated to the specific Power Profile carried in the payload.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from

a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side). Command: EnergyPhasesScheduleRequest

Parameters

| | |
|-----------------------|-------|
| <i>powerProfileId</i> | int8u |
|-----------------------|-------|

Definition at line [3910](#) of file [client-command-macro.h](#).

6.5.2.214 #define emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateResponse(powerProfileId, numScheduledPhases, scheduledPhases, scheduledPhasesLen)

The EnergyPhasesScheduleStateResponse Command is generated by the server (e.g. White goods) in order to reply to a EnergyPhasesScheduleStateRequest command about the scheduling states that are set in the server side.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side). Command: EnergyPhasesScheduleStateResponse

Parameters

| | |
|-----------------------------|--------|
| <i>powerProfileId</i> | int8u |
| <i>numOfScheduledPhases</i> | int8u |
| <i>scheduledPhases</i> | int8u* |
| <i>scheduledPhasesLen</i> | int8u |

Definition at line [3928](#) of file [client-command-macro.h](#).

6.5.2.215 #define emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateNotification(powerProfileId, numScheduledPhases, scheduledPhases, scheduledPhasesLen)

The EnergyPhasesScheduleStateNotification Command is generated by the server (e.g. White goods) in order to notify (un-solicited command) a client side about the scheduling states that are set in the server side.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side). Command: EnergyPhasesScheduleStateNotification

Parameters

| | |
|-----------------------------|-------|
| <i>powerProfileId</i> | int8u |
| <i>numOfScheduledPhases</i> | int8u |

| | |
|---------------------------------|--------|
| <i>scheduled- Phases</i> | int8u* |
| <i>scheduled- PhasesLen</i> | int8u |

Definition at line 3949 of file [client-command-macro.h](#).

**6.5.2.216 #define emberAfFillCommandPowerProfileClusterPowerProfileSchedule-
ConstraintsNotification(powerProfileId, startAfter, stopBefore
)**

The PowerProfileScheduleConstraintsNotification Command is generated by a device supporting the server side of the Power Profile cluster to notify the client side of this cluster about the imposed constraints and let the scheduler (i.e. the entity supporting the Power Profile cluster client side) to set the proper boundaries for the scheduling.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
Command: PowerProfileScheduleConstraintsNotification

Parameters

| | |
|-----------------------|--------|
| <i>powerProfileId</i> | int8u |
| <i>startAfter</i> | int16u |
| <i>stopBefore</i> | int16u |

Definition at line 3969 of file [client-command-macro.h](#).

**6.5.2.217 #define emberAfFillCommandPowerProfileClusterPowerProfile-
ScheduleConstraintsResponse(powerProfileId, startAfter, stopBefore
)**

The PowerProfileScheduleConstraintsResponse Command is generated by a device supporting the server side of the Power Profile cluster to reply to a client side of this cluster which sent a PowerProfileSchedule-ConstraintsRequest.

Cluster: Power Profile, This cluster provides an interface for transferring power profile information from a device (e.g. Whitegood) to a controller (e.g. the Home Gateway). The Power Profile transferred can be solicited by client side (request command) or can be notified directly from the device (server side).
Command: PowerProfileScheduleConstraintsResponse

Parameters

| | |
|-----------------------|--------|
| <i>powerProfileId</i> | int8u |
| <i>startAfter</i> | int16u |
| <i>stopBefore</i> | int16u |

Definition at line 3988 of file [client-command-macro.h](#).

**6.5.2.218 #define emberAfFillCommandApplianceControlClusterExecutionOfACommand(
 commandId)**

This basic message is used to remotely control and to program household appliances.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: ExecutionOfACommand

Parameters

| | |
|------------------|-------|
| <i>commandId</i> | int8u |
|------------------|-------|

Definition at line [4010](#) of file [client-command-macro.h](#).

6.5.2.219 #define emberAfFillCommandApplianceControlClusterSignalState()

This basic message is used to retrieve Household Appliances status.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: SignalState

Definition at line [4024](#) of file [client-command-macro.h](#).

**6.5.2.220 #define emberAfFillCommandApplianceControlClusterWriteFunctions(
 functionId,
 functionData-Type,
 functionData,
 functionDataLen)**

This basic message is used to set appliance functions, i.e. information regarding the execution of an appliance cycle. Condition parameters such as start time or finish time information could be provided through this command.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: WriteFunctions

Parameters

| | |
|--------------------------|--------|
| <i>functionId</i> | int16u |
| <i>functionData-Type</i> | int8u |
| <i>functionData</i> | int8u* |
| <i>functionDataLen</i> | int8u |

Definition at line [4041](#) of file [client-command-macro.h](#).

6.5.2.221 #define emberAfFillCommandApplianceControlClusterOverloadPauseResume()

This command shall be used to resume the normal behaviour of a household appliance being in pause mode after receiving a Overload Pause command.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: OverloadPauseResume

Definition at line [4058](#) of file [client-command-macro.h](#).

6.5.2.222 #define emberAfFillCommandApplianceControlClusterOverloadPause()

This command shall be used to pause the household appliance as a consequence of an imminent overload event.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: OverloadPause

Definition at line 4071 of file [client-command-macro.h](#).

6.5.2.223 #define emberAfFillCommandApplianceControlClusterOverloadWarning(warningEvent)

This basic message is used to send warnings the household appliance as a consequence of a possible overload event, or the notification of the end of the warning state.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: OverloadWarning

Parameters

| | |
|---------------------|-------|
| <i>warningEvent</i> | int8u |
|---------------------|-------|

Definition at line 4085 of file [client-command-macro.h](#).

6.5.2.224 #define emberAfFillCommandApplianceControlClusterSignalStateResponse(applianceStatus, remoteEnableFlagsAndDeviceStatus2, applianceStatus2)

This command shall be used to return household appliance status, according to Appliance Status Values and Remote Enable Flags Values.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: SignalStateResponse

Parameters

| | |
|--|--------|
| <i>appliance-Status</i> | int8u |
| <i>remoteEnable-FlagsAnd-DeviceStatus2</i> | int8u |
| <i>appliance-Status2</i> | int32u |

Definition at line 4102 of file [client-command-macro.h](#).

6.5.2.225 #define emberAfFillCommandApplianceControlClusterSignalStateNotification(applianceStatus, remoteEnableFlagsAndDeviceStatus2, applianceStatus2)

This command shall be used to return household appliance status, automatically when appliance status changes.

Cluster: Appliance Control, This cluster provides an interface to remotely control and to program household appliances. Command: SignalStateNotification

Parameters

| | |
|---|--------|
| <i>appliance-Status</i> | int8u |
| <i>remoteEnable-FlagsAndDeviceStatus2</i> | int8u |
| <i>appliance-Status2</i> | int32u |

Definition at line 4121 of file [client-command-macro.h](#).

6.5.2.226 #define emberAfFillCommandPollControlClusterCheckIn()

The Poll Control Cluster server sends out a Check-in command to the devices to which it is paired based on the server's Check-in Interval attribute.

Cluster: Poll Control, This cluster provides a mechanism for the management of an end device's MAC Data Poll rate. For the purposes of this cluster, the term "poll" always refers to the sending of a MAC Data Poll from the end device to the end device's parent. Command: CheckIn

Definition at line 4142 of file [client-command-macro.h](#).

6.5.2.227 #define emberAfFillCommandPollControlClusterCheckInResponse(*startFastPolling*, *fastPollTimeout*)

The Check-in Response is sent in response to the receipt of a Check-in command.

Cluster: Poll Control, This cluster provides a mechanism for the management of an end device's MAC Data Poll rate. For the purposes of this cluster, the term "poll" always refers to the sending of a MAC Data Poll from the end device to the end device's parent. Command: CheckInResponse

Parameters

| | |
|--------------------------|--------|
| <i>startFast-Polling</i> | int8u |
| <i>fastPollTimeout</i> | int16u |

Definition at line 4157 of file [client-command-macro.h](#).

6.5.2.228 #define emberAfFillCommandPollControlClusterFastPollStop()

The Fast Poll Stop command is used to stop the fast poll mode initiated by the Check-in response.

Cluster: Poll Control, This cluster provides a mechanism for the management of an end device's MAC Data Poll rate. For the purposes of this cluster, the term "poll" always refers to the sending of a MAC Data Poll from the end device to the end device's parent. Command: FastPollStop

Definition at line 4172 of file [client-command-macro.h](#).

6.5.2.229 #define emberAfFillCommandPollControlClusterSetLongPollInterval(*newLongPollInterval*)

The Set Long Poll Interval command is used to set the read only Long Poll Interval Attribute.

Cluster: Poll Control, This cluster provides a mechanism for the management of an end device's MAC Data Poll rate. For the purposes of this cluster, the term "poll" always refers to the sending of a MAC Data Poll from the end device to the end device's parent. Command: SetLongPollInterval

Parameters

| | |
|-----------------------------|--------|
| <i>newLongPoll-Interval</i> | int32u |
|-----------------------------|--------|

Definition at line 4186 of file [client-command-macro.h](#).

**6.5.2.230 #define emberAfFillCommandPollControlClusterSetShortPollInterval(
newShortPollInterval)**

The Set Short Poll Interval command is used to set the read only Short Poll Interval Attribute.

Cluster: Poll Control, This cluster provides a mechanism for the management of an end device's MAC Data Poll rate. For the purposes of this cluster, the term "poll" always refers to the sending of a MAC Data Poll from the end device to the end device's parent. Command: SetShortPollInterval

Parameters

| | |
|------------------------------|--------|
| <i>newShortPoll-Interval</i> | int16u |
|------------------------------|--------|

Definition at line 4201 of file [client-command-macro.h](#).

6.5.2.231 #define emberAfFillCommandApplianceEventsAndAlertClusterGetAlerts()

This basic message is used to retrieve Household Appliance current alerts.

Cluster: Appliance Events and Alert, Attributes and commands for transmitting or notifying the occurrence of an event, such as "temperature reached" and of an alert such as alarm, fault or warning. Command: Get-Alerts

Definition at line 4230 of file [client-command-macro.h](#).

**6.5.2.232 #define emberAfFillCommandApplianceEventsAndAlertClusterGetAlertsResponse(
alertsCount, alertStructures, alertStructuresLen)**

This message is used to return household appliance current alerts.

Cluster: Appliance Events and Alert, Attributes and commands for transmitting or notifying the occurrence of an event, such as "temperature reached" and of an alert such as alarm, fault or warning. Command: Get-AlertsResponse

Parameters

| | |
|---------------------------|--------|
| <i>alertsCount</i> | int8u |
| <i>alertStructures</i> | int8u* |
| <i>alertStructuresLen</i> | int8u |

Definition at line 4246 of file [client-command-macro.h](#).

6.5.2.233 #define emberAffFillCommandApplianceEventsAndAlertClusterAlertsNotification(alertsCount, alertStructures, alertStructuresLen)

This message is used to notify the current modification of warning and/or fault conditions.

Cluster: Appliance Events and Alert, Attributes and commands for transmitting or notifying the occurrence of an event, such as "temperature reached" and of an alert such as alarm, fault or warning. Command: - AlertsNotification

Parameters

| | |
|---------------------------|--------|
| <i>alertsCount</i> | int8u |
| <i>alertStructures</i> | int8u* |
| <i>alertStructuresLen</i> | int8u |

Definition at line 4265 of file [client-command-macro.h](#).

6.5.2.234 #define emberAffFillCommandApplianceEventsAndAlertClusterEventsNotification(eventHeader, eventId)

This message is used to notify an event occurred during the normal working of the appliance.

Cluster: Appliance Events and Alert, Attributes and commands for transmitting or notifying the occurrence of an event, such as "temperature reached" and of an alert such as alarm, fault or warning. Command: - EventsNotification

Parameters

| | |
|--------------------|-------|
| <i>eventHeader</i> | int8u |
| <i>eventId</i> | int8u |

Definition at line 4283 of file [client-command-macro.h](#).

6.5.2.235 #define emberAffFillCommandGenericTunnelClusterMatchProtocolAddress(protocolAddress)

This command is generated when an application wishes to find the ZigBee address (node, endpoint) of the Generic Tunnel server cluster with a given ProtocolAddress attribute. The command is typically multicast to a group of inter-communicating Generic Tunnel clusters.

Cluster: Generic Tunnel, The minimum common commands and attributes required to tunnel any protocol. Command: MatchProtocolAddress

Parameters

| | |
|------------------------|--------|
| <i>protocolAddress</i> | int8u* |
|------------------------|--------|

Definition at line 4304 of file [client-command-macro.h](#).

**6.5.2.236 #define emberAfFillCommandGenericTunnelClusterMatchProtocolAddressResponse(
deviceIeeeAddress, protocolAddress)**

This command is generated upon receipt of a Match Protocol Address command to indicate that the - Protocol Address was successfully matched.

Cluster: Generic Tunnel, The minimum common commands and attributes required to tunnel any protocol.
Command: MatchProtocolAddressResponse

Parameters

| | |
|---------------------------|--------|
| <i>deviceIeee-Address</i> | int8u* |
| <i>protocol-Address</i> | int8u* |

Definition at line 4320 of file [client-command-macro.h](#).

**6.5.2.237 #define emberAfFillCommandGenericTunnelClusterAdvertiseProtocolAddress(
protocolAddress)**

This command is typically sent upon startup, and whenever the ProtocolAddress attribute changes. It is typically multicast to a group of inter-communicating Generic Tunnel clusters.

Cluster: Generic Tunnel, The minimum common commands and attributes required to tunnel any protocol.
Command: AdvertiseProtocolAddress

Parameters

| | |
|-------------------------|--------|
| <i>protocol-Address</i> | int8u* |
|-------------------------|--------|

Definition at line 4336 of file [client-command-macro.h](#).

**6.5.2.238 #define emberAfFillCommandBacnetProtocolTunnelClusterTransferNpdu(
npdu, npduLen)**

This command is generated when a BACnet network layer wishes to transfer a BACnet NPDU across a ZigBee tunnel to another BACnet network layer.

Cluster: BACnet Protocol Tunnel, Commands and attributes required to tunnel the BACnet protocol. - Command: TransferNpdu

Parameters

| | |
|----------------|--------|
| <i>npdu</i> | int8u* |
| <i>npduLen</i> | int8u |

Definition at line 4357 of file [client-command-macro.h](#).

6.5.2.239 #define emberAfFillCommandOtaBootloadClusterImageNotify(*payloadType*, *queryJitter*, *manufacturerId*, *imageType*, *newFileVersion*)

This command is generated when the upgrade server wishes to notify the clients of the available OTA upgrade image. The command can be sent as unicast which provides a way for the server to force the upgrade on the client. The command can also be sent as broadcast or multicast to certain class of clients (for example, the ones that have matching manufacturing and device ids).

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Image-Notify

Parameters

| | |
|-----------------------|--------|
| <i>payloadType</i> | int8u |
| <i>queryJitter</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>newFileVersion</i> | int32u |

Definition at line 4382 of file [client-command-macro.h](#).

6.5.2.240 #define emberAfFillCommandOtaBootloadClusterQueryNextImageRequest(*fieldControl*, *manufacturerId*, *imageType*, *currentFileVersion*, *hardwareVersion*)

This command is generated upon receipt of an Image Notify command to indicate that the client is looking for the next firmware image to upgrade to. The client may also choose to send the command periodically to the server.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Query-NextImageRequest

Parameters

| | |
|---------------------------|--------|
| <i>fieldControl</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>currentFileVersion</i> | int32u |
| <i>hardwareVersion</i> | int16u |

Definition at line 4405 of file [client-command-macro.h](#).

6.5.2.241 #define emberAfFillCommandOtaBootloadClusterQueryNextImageResponse(*status*, *manufacturerId*, *imageType*, *fileVersion*, *imageSize*)

This command is generated upon receipt of an QueryNextImageRequest command to response whether the server has a valid OTA upgrade image for the client or not. If the server has the file, information regarding the file and OTA upgrade process will be included in the command.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Query-NextImageResponse

Parameters

| | |
|-----------------------|--------|
| <i>status</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>imageSize</i> | int32u |

Definition at line 4428 of file [client-command-macro.h](#).

**6.5.2.242 #define emberAfFillCommandOtaBootloadClusterImageBlockRequest(*fieldControl*,
manufacturerId, *imageType*, *fileVersion*, *fileOffset*, *maxDataSize*, *requestNodeAddress*)**

This command is generated by the client to request blocks of OTA upgrade file data.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Image-BlockRequest

Parameters

| | |
|----------------------------|--------|
| <i>fieldControl</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>fileOffset</i> | int32u |
| <i>maxDataSize</i> | int8u |
| <i>requestNode-Address</i> | int8u* |

Definition at line 4453 of file [client-command-macro.h](#).

**6.5.2.243 #define emberAfFillCommandOtaBootloadClusterImagePageRequest(*fieldControl*,
manufacturerId, *imageType*, *fileVersion*, *fileOffset*, *maxDataSize*, *pageSize*,
responseSpacing, *requestNodeAddress*)**

This command is generated by the client to request pages of OTA upgrade file data. A page would contain multiple blocks of data.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Image-PageRequest

Parameters

| | |
|---------------------------------|--------|
| <i>fieldControl</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>fileOffset</i> | int32u |
| <i>maxDataSize</i> | int8u |
| <i>pageSize</i> | int16u |
| <i>response- Spacing</i> | int16u |
| <i>requestNode- Address</i> | int8u* |

Definition at line 4482 of file [client-command-macro.h](#).

**6.5.2.244 #define emberAfFillCommandOtaBootloadClusterImageBlockResponse(*status*,
manufacturerId, *imageType*, *fileVersion*, *fileOffset*, *dataSize*, *imageData*)**

This command is generated by the server in response to the block or page request command. If the server has the data available, it will reply back with a SUCCESS status. For other error cases, it may reply with status WAIT_FOR_DATA (server does not have the data available yet) or ABORT (invalid requested parameters or other failure cases).

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Image-BlockResponse

Parameters

| | |
|-----------------------|--------|
| <i>status</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>fileOffset</i> | int32u |
| <i>dataSize</i> | int8u |
| <i>imageData</i> | int8u* |

Definition at line 4511 of file [client-command-macro.h](#).

**6.5.2.245 #define emberAfFillCommandOtaBootloadClusterUpgradeEndRequest(*status*,
manufacturerId, *imageType*, *fileVersion*)**

This command is generated by the client to notify the server of the end of the upgrade process. The process may end with success or error status.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Upgrade-EndRequest

Parameters

| | |
|-----------------------|--------|
| <i>status</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |

Definition at line 4535 of file [client-command-macro.h](#).

**6.5.2.246 #define emberAfFillCommandOtaBootloadClusterUpgradeEndResponse(*manufacturerId*,
imageType, *fileVersion*, *currentTime*, *upgradeTime*)**

This command is generated by the server in response to the upgrade request in order to let the client know when to upgrade to running new firmware image.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Upgrade-EndResponse

Parameters

| | |
|-----------------------|--------|
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>currentTime</i> | int32u |
| <i>upgradeTime</i> | int32u |

Definition at line 4557 of file [client-command-macro.h](#).

6.5.2.247 #define emberAfFillCommandOtaBootloadClusterQuerySpecificFileRequest(requestNodeAddress, manufacturerId, imageType, fileVersion, currentZigbeeStackVersion)

This command is generated by the client to request a file that is specific to itself. The intention is to provide a way for the client to request non-OTA upgrade file.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Query-SpecificFileRequest

Parameters

| | |
|-----------------------------------|--------|
| <i>requestNode-Address</i> | int8u* |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>currentZigbee-StackVersion</i> | int16u |

Definition at line 4580 of file [client-command-macro.h](#).

6.5.2.248 #define emberAfFillCommandOtaBootloadClusterQuerySpecificFileResponse(status, manufacturerId, imageType, fileVersion, imageSize)

This command is generated upon receipt of an QuerySpecificFileRequest command to response whether the server has a valid file for the client or not. If the server has the file, information regarding the file and OTA process will be included in the command.

Cluster: Over the Air Bootloading Cluster, Zigbee Over-the-air Bootloading cluster Command: Query-SpecificFileResponse

Parameters

| | |
|-----------------------|--------|
| <i>status</i> | int8u |
| <i>manufacturerId</i> | int16u |
| <i>imageType</i> | int16u |
| <i>fileVersion</i> | int32u |
| <i>imageSize</i> | int32u |

Definition at line 4603 of file [client-command-macro.h](#).

```
6.5.2.249 #define emberAfFillCommandDemandResponseLoadControlClusterLoadControlEvent( issuerEventId, deviceClass, utilityEnrollmentGroup, startTime, durationInMinutes, criticalityLevel, coolingTemperatureOffset, heatingTemperatureOffset, coolingTemperatureSetPoint, heatingTemperatureSetPoint, averageLoadAdjustmentPercentage, dutyCycle, eventControl )
```

Command description for LoadControlEvent.

Cluster: Demand Response and Load Control, This cluster provides an interface to the functionality of Smart Energy Demand Response and Load Control. Devices targeted by this cluster include thermostats and devices that support load control. Command: LoadControlEvent

Parameters

| | |
|--|--------|
| <i>issuerEventId</i> | int32u |
| <i>deviceClass</i> | int16u |
| <i>utility-Enrollment-Group</i> | int8u |
| <i>startTime</i> | int32u |
| <i>durationIn-Minutes</i> | int16u |
| <i>criticalityLevel</i> | int8u |
| <i>cooling-Temperature-Offset</i> | int8u |
| <i>heating-Temperature-Offset</i> | int8u |
| <i>cooling-Temperature-SetPoint</i> | int16s |
| <i>heating-Temperature-SetPoint</i> | int16s |
| <i>averageLoad-Adjustment-Percentage</i> | int8s |
| <i>dutyCycle</i> | int8u |
| <i>eventControl</i> | int8u |

Definition at line 4639 of file [client-command-macro.h](#).

```
6.5.2.250 #define emberAfFillCommandDemandResponseLoadControlClusterCancelLoadControlEvent( issuerEventId, deviceClass, utilityEnrollmentGroup, cancelControl, effectiveTime )
```

Command description for CancelLoadControlEvent.

Cluster: Demand Response and Load Control, This cluster provides an interface to the functionality of Smart Energy Demand Response and Load Control. Devices targeted by this cluster include thermostats and devices that support load control. Command: CancelLoadControlEvent

Parameters

| | |
|---|--------|
| <i>issuerEventId</i> | int32u |
| <i>deviceClass</i> | int16u |
| <i>utility- Enrollment- Group</i> | int8u |
| <i>cancelControl</i> | int8u |
| <i>effectiveTime</i> | int32u |

Definition at line 4670 of file [client-command-macro.h](#).

**6.5.2.251 #define emberAfFillCommandDemandResponseLoadControlClusterCancelAllLoad-
ControlEvents(*cancelControl*)**

Command description for CancelAllLoadControlEvents.

Cluster: Demand Response and Load Control, This cluster provides an interface to the functionality of Smart Energy Demand Response and Load Control. Devices targeted by this cluster include thermostats and devices that support load control. Command: CancelAllLoadControlEvents

Parameters

| | |
|----------------------|-------|
| <i>cancelControl</i> | int8u |
|----------------------|-------|

Definition at line 4689 of file [client-command-macro.h](#).

**6.5.2.252 #define emberAfFillCommandDemandResponseLoadControlClusterReportEventStatus(
issuerEventId, *eventStatus*, *eventStatusTime*, *criticalityLevelApplied*,
coolingTemperatureSetPointApplied, *heatingTemperatureSetPointApplied*,
averageLoadAdjustmentPercentageApplied, *dutyCycleApplied*, *eventControl*, *signatureType*,
signature)**

Command description for ReportEventStatus.

Cluster: Demand Response and Load Control, This cluster provides an interface to the functionality of Smart Energy Demand Response and Load Control. Devices targeted by this cluster include thermostats and devices that support load control. Command: ReportEventStatus

Parameters

| | |
|--|--------|
| <i>issuerEventId</i> | int32u |
| <i>eventStatus</i> | int8u |
| <i>eventStatus- Time</i> | int32u |
| <i>criticality- LevelApplied</i> | int8u |
| <i>cooling- Temperature- SetPoint- Applied</i> | int16s |
| <i>heating- Temperature- SetPoint- Applied</i> | int16s |

| | |
|--|--------|
| <i>averageLoad-Adjustment-Percentage-Applied</i> | int8s |
| <i>dutyCycle-Applied</i> | int8u |
| <i>eventControl</i> | int8u |
| <i>signatureType</i> | int8u |
| <i>signature</i> | int8u* |

Definition at line [4714](#) of file [client-command-macro.h](#).

6.5.2.253 #define emberAfFillCommandDemandResponseLoadControlClusterGetScheduled-Events(*startTime*, *numberOfEvents*)

Command description for GetScheduledEvents.

Cluster: Demand Response and Load Control, This cluster provides an interface to the functionality of Smart Energy Demand Response and Load Control. Devices targeted by this cluster include thermostats and devices that support load control. Command: GetScheduledEvents

Parameters

| | |
|-----------------------|--------|
| <i>startTime</i> | int32u |
| <i>numberOfEvents</i> | int8u |

Definition at line [4741](#) of file [client-command-macro.h](#).

6.5.2.254 #define emberAfFillCommandSimpleMeteringClusterGetProfileResponse(*endTime*, *status*, *profileIntervalPeriod*, *numberOfPeriodsDelivered*, *intervals*, *intervalsLen*)

Command description for GetProfileResponse.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: GetProfileResponse

Parameters

| | |
|---------------------------------|--------|
| <i>endTime</i> | int32u |
| <i>status</i> | int8u |
| <i>profileIntervalPeriod</i> | int8u |
| <i>numberOfPeriodsDelivered</i> | int8u |
| <i>intervals</i> | int8u* |
| <i>intervalsLen</i> | int8u |

Definition at line [4767](#) of file [client-command-macro.h](#).

6.5.2.255 #define emberAfFillCommandSimpleMeteringClusterRequestMirror()

Command description for RequestMirror.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: RequestMirror

Definition at line [4786](#) of file [client-command-macro.h](#).

6.5.2.256 #define emberAfFillCommandSimpleMeteringClusterRemoveMirror()

Command description for RemoveMirror.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: RemoveMirror

Definition at line [4799](#) of file [client-command-macro.h](#).

**6.5.2.257 #define emberAfFillCommandSimpleMeteringClusterRequestFastPollModeResponse(
 appliedUpdatePeriod, *fastPollModeEndtime*)**

Command sent as a response to fast poll request.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: RequestFastPollMode-Response

Parameters

| | |
|----------------------------------|--------|
| <i>appliedUpdate- Period</i> | int8u |
| <i>fastPollMode- Endtime</i> | int32u |

Definition at line [4814](#) of file [client-command-macro.h](#).

**6.5.2.258 #define emberAfFillCommandSimpleMeteringClusterGetProfile(*intervalChannel*,
 endTime, *numberOfPeriods*)**

Command description for GetProfile.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: GetProfile

Parameters

| | |
|------------------------------|--------|
| <i>interval- Channel</i> | int8u |
| <i>endTime</i> | int32u |
| <i>numberOf- Periods</i> | int8u |

Definition at line [4832](#) of file [client-command-macro.h](#).

6.5.2.259 #define emberAfFillCommandSimpleMeteringClusterRequestMirrorResponse(endpointId)

Command description for RequestMirrorResponse.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: RequestMirrorResponse

Parameters

| | |
|-------------------|--------|
| <i>endpointId</i> | int16u |
|-------------------|--------|

Definition at line 4849 of file [client-command-macro.h](#).

6.5.2.260 #define emberAfFillCommandSimpleMeteringClusterMirrorRemoved(endpointId)

Command description for MirrorRemoved.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: MirrorRemoved

Parameters

| | |
|-------------------|--------|
| <i>endpointId</i> | int16u |
|-------------------|--------|

Definition at line 4864 of file [client-command-macro.h](#).

6.5.2.261 #define emberAfFillCommandSimpleMeteringClusterRequestFastPollMode(fastPollUpdatePeriod, duration)

Command to request fast poll mode.

Cluster: Simple Metering, The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices. Command: RequestFastPollMode

Parameters

| | |
|------------------------------|-------|
| <i>fastPollUpdate-Period</i> | int8u |
| <i>duration</i> | int8u |

Definition at line 4880 of file [client-command-macro.h](#).

6.5.2.262 #define emberAfFillCommandPriceClusterPublishPrice(providerId, rateLabel, issuerEventId, currentTime, unitOfMeasure, currency, priceTrailingDigitAndPriceTier, numberOfTypeTiersAndRegisterTier, startTime, durationInMinutes, price, priceRatio, generationPrice, generationPriceRatio, alternateCostDelivered, alternateCostUnit, alternateCostTrailingDigit, numberOfBlockThresholds, priceControl)

Command description for PublishPrice.

Cluster: Price, The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise. Command: PublishPrice

Parameters

| | |
|---|--------|
| <i>providerId</i> | int32u |
| <i>rateLabel</i> | int8u* |
| <i>issuerEventId</i> | int32u |
| <i>currentTime</i> | int32u |
| <i>unitOfMeasure</i> | int8u |
| <i>currency</i> | int16u |
| <i>priceTrailing-DigitAndPrice-Tier</i> | int8u |
| <i>numberOfPriceTiersAnd-RegisterTier</i> | int8u |
| <i>startTime</i> | int32u |
| <i>durationIn-Minutes</i> | int16u |
| <i>price</i> | int32u |
| <i>priceRatio</i> | int8u |
| <i>generation-Price</i> | int32u |
| <i>generation-PriceRatio</i> | int8u |
| <i>alternateCost-Delivered</i> | int32u |
| <i>alternateCost-Unit</i> | int8u |
| <i>alternateCost-TrailingDigit</i> | int8u |
| <i>numberOfBlock-Thresholds</i> | int8u |
| <i>priceControl</i> | int8u |

Definition at line 4919 of file [client-command-macro.h](#).

```
6.5.2.263 #define emberAfFillCommandPriceClusterPublishBlockPeriod( providerId,
    issuerEventId, blockPeriodStartTime, blockPeriodDurationInMinutes,
    numberOfPriceTiersAndNumberOfBlockThresholds, blockPeriodControl )
```

Command description for PublishBlockPeriod.

Cluster: Price, The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise. Command: PublishBlockPeriod

Parameters

| | |
|---------------------------------------|--------|
| <i>providerId</i> | int32u |
| <i>issuerEventId</i> | int32u |
| <i>blockPeriod-StartTime</i> | int32u |
| <i>blockPeriod-DurationIn-Minutes</i> | int32u |

| | |
|---|-------|
| <i>numberOfPriceTiersAndNumberOfBlockThresholds</i> | int8u |
| <i>blockPeriodControl</i> | int8u |

Definition at line 4957 of file [client-command-macro.h](#).

6.5.2.264 #define emberAfFillCommandPriceClusterGetCurrentPrice(*commandOptions*)

Command description for GetCurrentPrice.

Cluster: Price, The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise. Command: GetCurrentPrice

Parameters

| | |
|-----------------------|-------|
| <i>commandOptions</i> | int8u |
|-----------------------|-------|

Definition at line 4977 of file [client-command-macro.h](#).

6.5.2.265 #define emberAfFillCommandPriceClusterGetScheduledPrices(*startTime*, *numberOfEvents*)

Command description for GetScheduledPrices.

Cluster: Price, The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise. Command: GetScheduledPrices

Parameters

| | |
|-----------------------|--------|
| <i>startTime</i> | int32u |
| <i>numberOfEvents</i> | int8u |

Definition at line 4993 of file [client-command-macro.h](#).

6.5.2.266 #define emberAfFillCommandPriceClusterPriceAcknowledgement(*providerId*, *issuerEventId*, *priceAckTime*, *control*)

Command description for PriceAcknowledgement.

Cluster: Price, The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise. Command: PriceAcknowledgement

Parameters

| | |
|----------------------|--------|
| <i>providerId</i> | int32u |
| <i>issuerEventId</i> | int32u |

| | |
|---------------------|--------|
| <i>priceAckTime</i> | int32u |
| <i>control</i> | int8u |

Definition at line 5012 of file [client-command-macro.h](#).

6.5.2.267 #define emberAfFillCommandPriceClusterGetBlockPeriods(*startTime*, *numberOfEvents*)

Command description for GetBlockPeriod(s)

Cluster: Price, The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise. Command: GetBlockPeriods

Parameters

| | |
|-----------------------|--------|
| <i>startTime</i> | int32u |
| <i>numberOfEvents</i> | int8u |

Definition at line 5031 of file [client-command-macro.h](#).

6.5.2.268 #define emberAfFillCommandMessagingClusterDisplayMessage(*messageId*, *messageControl*, *startTime*, *durationInMinutes*, *message*)

Command description for DisplayMessage.

Cluster: Messaging, This cluster provides an interface for passing text messages between SE devices. Command: DisplayMessage

Parameters

| | |
|--------------------------|--------|
| <i>messageId</i> | int32u |
| <i>messageControl</i> | int8u |
| <i>startTime</i> | int32u |
| <i>durationInMinutes</i> | int16u |
| <i>message</i> | int8u* |

Definition at line 5056 of file [client-command-macro.h](#).

6.5.2.269 #define emberAfFillCommandMessagingClusterCancelMessage(*messageId*, *messageControl*)

Command description for CancelMessage.

Cluster: Messaging, This cluster provides an interface for passing text messages between SE devices. Command: CancelMessage

Parameters

| | |
|-----------------------------|--------|
| <i>messageId</i> | int32u |
| <i>message- Control</i> | int8u |

Definition at line 5076 of file [client-command-macro.h](#).

6.5.2.270 #define emberAfFillCommandMessagingClusterGetLastMessage()

Command description for GetLastMessage.

Cluster: Messaging, This cluster provides an interface for passing text messages between SE devices.
Command: GetLastMessage

Definition at line 5091 of file [client-command-macro.h](#).

**6.5.2.271 #define emberAfFillCommandMessagingClusterMessageConfirmation(*messageId*,
confirmationTime)**

Command description for MessageConfirmation.

Cluster: Messaging, This cluster provides an interface for passing text messages between SE devices.
Command: MessageConfirmation

Parameters

| | |
|-------------------------------|--------|
| <i>messageId</i> | int32u |
| <i>confirmation- Time</i> | int32u |

Definition at line 5106 of file [client-command-macro.h](#).

**6.5.2.272 #define emberAfFillCommandTunnelingClusterRequestTunnel(*protocolId*,
manufacturerCode, *flowControlSupport*, *maximumIncomingTransferSize*)**

RequestTunnel is the client command used to setup a tunnel association with the server. The request payload specifies the protocol identifier for the requested tunnel, a manufacturer code in case of proprietary protocols and the use of flow control for streaming protocols.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - RequestTunnel

Parameters

| | |
|--|--------|
| <i>protocolId</i> | int8u |
| <i>manufacturer- Code</i> | int16u |
| <i>flowControl- Support</i> | int8u |
| <i>maximum- Incoming- TransferSize</i> | int16u |

Definition at line 5130 of file [client-command-macro.h](#).

6.5.2.273 #define emberAfFillCommandTunnelingClusterCloseTunnel(tunnelId)

Client command used to close the tunnel with the server. The parameter in the payload specifies the tunnel identifier of the tunnel that has to be closed. The server leaves the tunnel open and the assigned resources allocated until the client sends the CloseTunnel command or the CloseTunnelTimeout fires.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: CloseTunnel

Parameters

| | |
|-----------------|--------|
| <i>tunnelId</i> | int16u |
|-----------------|--------|

Definition at line 5148 of file [client-command-macro.h](#).

6.5.2.274 #define emberAfFillCommandTunnelingClusterTransferDataClientToServer(tunnelId, data, dataLen)

Command that indicates (if received) that the client has sent data to the server. The data itself is contained within the payload.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - TransferDataClientToServer

Parameters

| | |
|-----------------|--------|
| <i>tunnelId</i> | int16u |
| <i>data</i> | int8u* |
| <i>dataLen</i> | int8u |

Definition at line 5165 of file [client-command-macro.h](#).

6.5.2.275 #define emberAfFillCommandTunnelingClusterTransferDataErrorClientToServer(tunnelId, transferDataStatus)

This command is generated by the receiver of a TransferData command if the tunnel status indicates that something is wrong. There are two three cases in which TransferDataError is sent: (1) The TransferData received contains a TunnelID that does not match to any of the active tunnels of the receiving device. This could happen if a (sleeping) device sends a TransferData command to a tunnel that has been closed by the server after the CloseTunnelTimeout. (2) The TransferData received contains a proper TunnelID of an active tunnel, but the device sending the data does not match to it. (3) The TransferData received contains more data than indicated by the MaximumIncomingTransferSize of the receiving device.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - TransferDataErrorClientToServer

Parameters

| | |
|---------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>transferDataStatus</i> | int8u |

Definition at line 5183 of file [client-command-macro.h](#).

6.5.2.276 #define emberAfFillCommandTunnelingClusterAckTransferDataClientToServer(tunnelId, numberOfBytesLeft)

Command sent in response to each TransferData command in case - and only in case - flow control has been requested by the client in the TunnelRequest command and is supported by both tunnel endpoints. The response payload indicates the number of octets that may still be received by the receiver.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: Ack-TransferDataClientToServer

Parameters

| | |
|--------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>numberOfBytesLeft</i> | int16u |

Definition at line 5200 of file [client-command-macro.h](#).

6.5.2.277 #define emberAfFillCommandTunnelingClusterReadyDataClientToServer(tunnelId, numberOfOctetsLeft)

The ReadyData command is generated - after a receiver had to stop the dataflow using the AckTransferData(0) command - to indicate that the device is now ready to continue receiving data. The parameter NumberOfOctetsLeft gives a hint on how much space is left for the next data transfer. The ReadyData command is only issued if flow control is enabled.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: Ready-DataClientToServer

Parameters

| | |
|---------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>numberOfOctetsLeft</i> | int16u |

Definition at line 5217 of file [client-command-macro.h](#).

6.5.2.278 #define emberAfFillCommandTunnelingClusterGetSupportedTunnelProtocols(protocolOffset)

Get Supported Tunnel Protocols is the client command used to determine the Tunnel protocols supported on another device.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: Get-SupportedTunnelProtocols

Parameters

| | |
|-----------------------|-------|
| <i>protocolOffset</i> | int8u |
|-----------------------|-------|

Definition at line 5233 of file [client-command-macro.h](#).

6.5.2.279 #define emberAfFillCommandTunnelingClusterRequestTunnelResponse(tunnelId, tunnelStatus, maximumIncomingTransferSize)

RequestTunnelResponse is sent by the server in response to a RequestTunnel command previously received from the client. The response contains the status of the RequestTunnel command and a tunnel identifier corresponding to the tunnel that has been set-up in the server in case of success.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - RequestTunnelResponse

Parameters

| | |
|--------------------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>tunnelStatus</i> | int8u |
| <i>maximum-Incoming-TransferSize</i> | int16u |

Definition at line 5250 of file [client-command-macro.h](#).

6.5.2.280 #define emberAfFillCommandTunnelingClusterTransferDataServerToClient(tunnelId, data, dataLen)

Command that transfers data from server to the client. The data itself has to be placed within the payload.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - TransferDataServerToClient

Parameters

| | |
|-----------------|--------|
| <i>tunnelId</i> | int16u |
| <i>data</i> | int8u* |
| <i>dataLen</i> | int8u |

Definition at line 5269 of file [client-command-macro.h](#).

6.5.2.281 #define emberAfFillCommandTunnelingClusterTransferDataErrorServerToClient(tunnelId, transferDataStatus)

This command is generated by the receiver of a TransferData command if the tunnel status indicates that something is wrong. There are two three cases in which TransferDataError is sent: (1) The TransferData received contains a TunnelID that does not match to any of the active tunnels of the receiving device. This could happen if a (sleeping) device sends a TransferData command to a tunnel that has been closed by the server after the CloseTunnelTimeout. (2) The TransferData received contains a proper TunnelID of an active tunnel, but the device sending the data does not match to it. (3) The TransferData received contains more data than indicated by the MaximumIncomingTransferSize of the receiving device.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - TransferDataErrorServerToClient

Parameters

| | |
|----------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>transferData-Status</i> | int8u |

Definition at line [5287](#) of file [client-command-macro.h](#).

6.5.2.282 #define emberAfFillCommandTunnelingClusterAckTransferDataServerToClient(tunnelId, numberOfBytesLeft)

Command sent in response to each TransferData command in case - and only in case - flow control has been requested by the client in the TunnelRequest command and is supported by both tunnel endpoints. The response payload indicates the number of octets that may still be received by the receiver.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: Ack-TransferDataServerToClient

Parameters

| | |
|--------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>numberOfBytesLeft</i> | int16u |

Definition at line [5304](#) of file [client-command-macro.h](#).

6.5.2.283 #define emberAfFillCommandTunnelingClusterReadyDataServerToClient(tunnelId, numberOfOctetsLeft)

The ReadyData command is generated - after a receiver had to stop the dataflow using the AckTransferData(0) command - to indicate that the device is now ready to continue receiving data. The parameter NumberOfOctetsLeft gives a hint on how much space is left for the next data transfer. The ReadyData command is only issued if flow control is enabled.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: Ready-DataServerToClient

Parameters

| | |
|---------------------------|--------|
| <i>tunnelId</i> | int16u |
| <i>numberOfOctetsLeft</i> | int16u |

Definition at line [5321](#) of file [client-command-macro.h](#).

6.5.2.284 #define emberAfFillCommandTunnelingClusterSupportedTunnelProtocolsResponse(protocolListComplete, protocolCount, protocolList, protocolListLen)

Supported Tunnel Protocol Response is sent in response to a Get Supported Tunnel Protocols command previously received. The response contains a list of Tunnel protocols supported by the device; the payload of the response should be capable of holding up to 16 protocols.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: - SupportedTunnelProtocolsResponse

Parameters

| | |
|------------------------------|-------|
| <i>protocolList-Complete</i> | int8u |
| <i>protocolCount</i> | int8u |

| | |
|------------------------|--------|
| <i>protocolList</i> | int8u* |
| <i>protocolListLen</i> | int8u |

Definition at line [5340](#) of file `client-command-macro.h`.

6.5.2.285 #define `emberAfFillCommandTunnelingClusterTunnelClosureNotification(tunnelId)`

TunnelClosureNotification is sent by the server to indicate that a tunnel has been closed due to expiration of a CloseTunnelTimeout.

Cluster: Tunneling, The tunneling cluster provides an interface for tunneling protocols. Command: TunnelClosureNotification

Parameters

| | |
|-----------------|--------|
| <i>tunnelId</i> | int16u |
|-----------------|--------|

Definition at line [5358](#) of file `client-command-macro.h`.

6.5.2.286 #define `emberAfFillCommandPrepaymentClusterSelectAvailableEmergencyCredit(commandDateTime, originatingDevice, siteId, meterSerialNumber)`

Command description for SelectAvailableEmergencyCredit.

Cluster: Prepayment, The Prepayment Cluster provides the facility to pass messages relating to prepayment between devices on the HAN. Command: SelectAvailableEmergencyCredit

Parameters

| | |
|---------------------------|--------|
| <i>commandDate-Time</i> | int32u |
| <i>originating-Device</i> | int8u |
| <i>siteId</i> | int8u* |
| <i>meterSerial-Number</i> | int8u* |

Definition at line [5381](#) of file `client-command-macro.h`.

6.5.2.287 #define `emberAfFillCommandPrepaymentClusterChangeSupply(providerId, requestDateTime, siteId, meterSerialNumber, implementationDateTime, proposedSupplyStatus, originatorIdSupplyControlBits)`

Command description for ChangeSupply.

Cluster: Prepayment, The Prepayment Cluster provides the facility to pass messages relating to prepayment between devices on the HAN. Command: ChangeSupply

Parameters

| | |
|------------------------|--------|
| <i>providerId</i> | int32u |
| <i>requestDateTime</i> | int32u |

| | |
|--|--------|
| <i>siteId</i> | int8u* |
| <i>meterSerial-Number</i> | int8u* |
| <i>implementation-DateTime</i> | int32u |
| <i>proposed-SupplyStatus</i> | int8u |
| <i>originatorId-SupplyControl-Bits</i> | int8u |

Definition at line 5405 of file [client-command-macro.h](#).

6.5.2.288 #define emberAfFillCommandPrepaymentClusterSupplyStatusResponse(providerId, implementationtDateTime, supplyStatus)

Command description for SupplyStatusResponse.

Cluster: Prepayment, The Prepayment Cluster provides the facility to pass messages relating to prepayment between devices on the HAN. Command: SupplyStatusResponse

Parameters

| | |
|--------------------------------|--------|
| <i>providerId</i> | int32u |
| <i>implementationtDateTime</i> | int32u |
| <i>supplyStatus</i> | int8u |

Definition at line 5428 of file [client-command-macro.h](#).

6.5.2.289 #define emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentRequest(keyEstablishmentSuite, ephemeralDataGenerateTime, confirmKeyGenerateTime, identity)

Command description for InitiateKeyEstablishmentRequest.

Cluster: Key establishment, Key establishment cluster Command: InitiateKeyEstablishmentRequest

Parameters

| | |
|------------------------------------|--------|
| <i>key-Establishment-Suite</i> | int16u |
| <i>ephemeral-DataGenerate-Time</i> | int8u |
| <i>confirmKey-GenerateTime</i> | int8u |
| <i>identity</i> | int8u* |

Definition at line 5453 of file [client-command-macro.h](#).

**6.5.2.290 #define emberAfFillCommandKeyEstablishmentClusterEphemeralDataRequest(
ephemeralData)**

Command description for EphemeralDataRequest.

Cluster: Key establishment, Key establishment cluster Command: EphemeralDataRequest

Parameters

| | |
|----------------------|--------|
| <i>ephemeralData</i> | int8u* |
|----------------------|--------|

Definition at line 5472 of file [client-command-macro.h](#).

**6.5.2.291 #define emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataRequest(
secureMessageAuthenticationCode)**

Command description for ConfirmKeyDataRequest.

Cluster: Key establishment, Key establishment cluster Command: ConfirmKeyDataRequest

Parameters

| | |
|--|--------|
| <i>secure- Message- Authenticatio- nCode</i> | int8u* |
|--|--------|

Definition at line 5488 of file [client-command-macro.h](#).

**6.5.2.292 #define emberAfFillCommandKeyEstablishmentClusterServerToClient-
TerminateKeyEstablishment(statusCode, waitTime, keyEstablishmentSuite
)**

Command description for TerminateKeyEstablishment.

Cluster: Key establishment, Key establishment cluster Command: TerminateKeyEstablishment

Parameters

| | |
|--|--------|
| <i>statusCode</i> | int8u |
| <i>waitTime</i> | int8u |
| <i>key- Establishment- Suite</i> | int16u |

Definition at line 5505 of file [client-command-macro.h](#).

```
6.5.2.293 #define emberAfFillCommandKeyEstablishmentClusterClientToServer-
TerminateKeyEstablishment( statusCode, waitTime, keyEstablishmentSuite
)
```

Command description for TerminateKeyEstablishment.

Cluster: Key establishment, Key establishment cluster Command: TerminateKeyEstablishment

Parameters

| | |
|------------------------------|--------|
| <i>statusCode</i> | int8u |
| <i>waitTime</i> | int8u |
| <i>keyEstablishmentSuite</i> | int16u |

Definition at line 5524 of file [client-command-macro.h](#).

```
6.5.2.294 #define emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishment-
Response( requestedKeyEstablishmentSuite, ephemeralDataGenerateTime,
confirmKeyGenerateTime, identity )
```

Command description for InitiateKeyEstablishmentResponse.

Cluster: Key establishment, Key establishment cluster Command: InitiateKeyEstablishmentResponse

Parameters

| | |
|---------------------------------------|--------|
| <i>requestedKeyEstablishmentSuite</i> | int16u |
| <i>ephemeralDataGenerateTime</i> | int8u |
| <i>confirmKeyGenerateTime</i> | int8u |
| <i>identity</i> | int8u* |

Definition at line 5544 of file [client-command-macro.h](#).

```
6.5.2.295 #define emberAfFillCommandKeyEstablishmentClusterEphemeralDataResponse(
ephemeralData )
```

Command description for EphemeralDataResponse.

Cluster: Key establishment, Key establishment cluster Command: EphemeralDataResponse

Parameters

| | |
|----------------------|--------|
| <i>ephemeralData</i> | int8u* |
|----------------------|--------|

Definition at line 5563 of file [client-command-macro.h](#).

6.5.2.296 #define emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataResponse(*secureMessageAuthenticationCode*)

Command description for ConfirmKeyDataResponse.

Cluster: Key establishment, Key establishment cluster Command: ConfirmKeyDataResponse

Parameters

| | |
|--|--------|
| <i>secure- Message- Authentication- Code</i> | int8u* |
|--|--------|

Definition at line [5579](#) of file [client-command-macro.h](#).

6.5.2.297 #define emberAfFillCommandZllCommissioningClusterScanRequest(*transaction*, *zigbeeInformation*, *zllInformation*)

Command description for ScanRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: ScanRequest

Parameters

| | |
|--------------------------------|--------|
| <i>transaction</i> | int32u |
| <i>zigbee- Information</i> | int8u |
| <i>zllInformation</i> | int8u |

Definition at line [5601](#) of file [client-command-macro.h](#).

6.5.2.298 #define emberAfFillCommandZllCommissioningClusterDeviceInformationRequest(*transaction*, *startIndex*)

Command description for DeviceInformationRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: DeviceInformationRequest

Parameters

| | |
|--------------------|--------|
| <i>transaction</i> | int32u |
| <i>startIndex</i> | int8u |

Definition at line [5619](#) of file [client-command-macro.h](#).

6.5.2.299 #define emberAfFillCommandZllCommissioningClusterIdentifyRequest(*transaction*, *identifyDuration*)

Command description for IdentifyRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link

commissioning. Command: IdentifyRequest

Parameters

| | |
|--------------------------|--------|
| <i>transaction</i> | int32u |
| <i>identify-Duration</i> | int16u |

Definition at line [5636](#) of file [client-command-macro.h](#).

**6.5.2.300 #define emberAfFillCommandZllCommissioningClusterResetToFactoryNewRequest(
transaction)**

Command description for ResetToFactoryNewRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: ResetToFactoryNewRequest

Parameters

| | |
|--------------------|--------|
| <i>transaction</i> | int32u |
|--------------------|--------|

Definition at line [5652](#) of file [client-command-macro.h](#).

**6.5.2.301 #define emberAfFillCommandZllCommissioningClusterNetworkStartRequest(
transaction, extendedPanId, keyIndex, encryptedNetworkKey, logicalChannel,
panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetwork-
AddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin,
freeGroupIdentifierRangeEnd, initiatorleeeAddress, initiatorNetworkAddress)**

Command description for NetworkStartRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkStartRequest

Parameters

| | |
|---------------------------------------|--------|
| <i>transaction</i> | int32u |
| <i>extendedPanId</i> | int8u* |
| <i>keyIndex</i> | int8u |
| <i>encrypted-NetworkKey</i> | int8u* |
| <i>logicalChannel</i> | int8u |
| <i>panId</i> | int16u |
| <i>network-Address</i> | int16u |
| <i>group-IdentifiersBegin</i> | int16u |
| <i>group-IdentifiersEnd</i> | int16u |
| <i>freeNetwork-AddressRange-Begin</i> | int16u |

| | |
|--|--------|
| <i>freeNetwork-AddressRange-End</i> | int16u |
| <i>freeGroup-Identifier-RangeBegin</i> | int16u |
| <i>freeGroup-Identifier-RangeEnd</i> | int16u |
| <i>initiatorIeee-Address</i> | int8u* |
| <i>initiator-Network-Address</i> | int16u |

Definition at line 5681 of file [client-command-macro.h](#).

```
6.5.2.302 #define emberAfFillCommandZllCommissioningClusterNetworkJoinRouterRequest( transaction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd )
```

Command description for NetworkJoinRouterRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkJoinRouterRequest

Parameters

| | |
|---------------------------------------|--------|
| <i>transaction</i> | int32u |
| <i>extendedPanId</i> | int8u* |
| <i>keyIndex</i> | int8u |
| <i>encrypted-NetworkKey</i> | int8u* |
| <i>network-UpdateId</i> | int8u |
| <i>logicalChannel</i> | int8u |
| <i>panId</i> | int16u |
| <i>network-Address</i> | int16u |
| <i>group-IdentifiersBegin</i> | int16u |
| <i>group-IdentifiersEnd</i> | int16u |
| <i>freeNetwork-AddressRange-Begin</i> | int16u |
| <i>freeNetwork-AddressRange-End</i> | int16u |

| | |
|--|--------|
| <i>freeGroup- Identifier- RangeBegin</i> | int16u |
| <i>freeGroup- Identifier- RangeEnd</i> | int16u |

Definition at line 5723 of file [client-command-macro.h](#).

6.5.2.303 #define emberAffFillCommandZllCommissioningClusterNetworkJoinEndDeviceRequest(
transaction, *extendedPanId*, *keyIndex*, *encryptedNetworkKey*, *networkUpdateId*,
logicalChannel, *panId*, *networkAddress*, *groupIdentifiersBegin*, *groupIdentifiersEnd*, *free- NetworkAddressRangeBegin*, *freeNetworkAddressRangeEnd*, *freeGroupIdentifierRangeBegin*,
freeGroupIdentifierRangeEnd)

Command description for NetworkJoinEndDeviceRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkJoinEndDeviceRequest

Parameters

| | |
|--|--------|
| <i>transaction</i> | int32u |
| <i>extendedPanId</i> | int8u* |
| <i>keyIndex</i> | int8u |
| <i>encrypted- NetworkKey</i> | int8u* |
| <i>network- UpdateId</i> | int8u |
| <i>logicalChannel</i> | int8u |
| <i>panId</i> | int16u |
| <i>network- Address</i> | int16u |
| <i>group- IdentifiersBegin</i> | int16u |
| <i>group- IdentifiersEnd</i> | int16u |
| <i>freeNetwork- AddressRange- Begin</i> | int16u |
| <i>freeNetwork- AddressRange- End</i> | int16u |
| <i>freeGroup- Identifier- RangeBegin</i> | int16u |
| <i>freeGroup- Identifier- RangeEnd</i> | int16u |

Definition at line 5764 of file [client-command-macro.h](#).

6.5.2.304 #define emberAfFillCommandZllCommissioningClusterNetworkUpdateRequest(transaction, extendedPanId, networkUpdateId, logicalChannel, panId, networkAddress)

Command description for NetworkUpdateRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkUpdateRequest

Parameters

| | |
|-------------------------|--------|
| <i>transaction</i> | int32u |
| <i>extendedPanId</i> | int8u* |
| <i>network-UpdateId</i> | int8u |
| <i>logicalChannel</i> | int8u |
| <i>panId</i> | int16u |
| <i>network-Address</i> | int16u |

Definition at line [5797](#) of file [client-command-macro.h](#).

6.5.2.305 #define emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersRequest(startIndex)

Command description for GetGroupIdentifiersRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: GetGroupIdentifiersRequest

Parameters

| | |
|-------------------|-------|
| <i>startIndex</i> | int8u |
|-------------------|-------|

Definition at line [5817](#) of file [client-command-macro.h](#).

6.5.2.306 #define emberAfFillCommandZllCommissioningClusterGetEndpointListRequest(startIndex)

Command description for GetEndpointListRequest.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: GetEndpointListRequest

Parameters

| | |
|-------------------|-------|
| <i>startIndex</i> | int8u |
|-------------------|-------|

Definition at line [5832](#) of file [client-command-macro.h](#).

```
6.5.2.307 #define emberAfFillCommandZllCommissioningClusterScanResponse( transaction,
    rssiCorrection, zigbeeInformation, zllInformation, keyBitmask, responseId, extendedPanId,
    networkUpdateId, logicalChannel, panId, networkAddress, numberOfSubDevices,
    totalGroupIds, endpointId, profileId, deviceId, version, groupIdCount )
```

Command description for ScanResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: ScanResponse

Parameters

| | |
|----------------------------|--------|
| <i>transaction</i> | int32u |
| <i>rssiCorrection</i> | int8u |
| <i>zigbee-Information</i> | int8u |
| <i>zllInformation</i> | int8u |
| <i>keyBitmask</i> | int16u |
| <i>responseId</i> | int32u |
| <i>extendedPanId</i> | int8u* |
| <i>network-UpdateId</i> | int8u |
| <i>logicalChannel</i> | int8u |
| <i>panId</i> | int16u |
| <i>network-Address</i> | int16u |
| <i>numberOfSub-Devices</i> | int8u |
| <i>totalGroupIds</i> | int8u |
| <i>endpointId</i> | int8u |
| <i>profileId</i> | int16u |
| <i>deviceId</i> | int16u |
| <i>version</i> | int8u |
| <i>groupIdCount</i> | int8u |

Definition at line 5864 of file [client-command-macro.h](#).

```
6.5.2.308 #define emberAfFillCommandZllCommissioningClusterDeviceInformationResponse(
    transaction, numberOfSubDevices, startIndex, deviceInformationRecordCount,
    deviceInformationRecordList, deviceInformationRecordListLen )
```

Command description for DeviceInformationResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: DeviceInformationResponse

Parameters

| | |
|---------------------------------------|--------|
| <i>transaction</i> | int32u |
| <i>numberOfSub-Devices</i> | int8u |
| <i>startIndex</i> | int8u |
| <i>device-Information-RecordCount</i> | int8u |

| | |
|---|--------|
| <i>device-Information-RecordList</i> | int8u* |
| <i>device-Information-RecordListLen</i> | int8u |

Definition at line 5901 of file [client-command-macro.h](#).

**6.5.2.309 #define emberAfFillCommandZllCommissioningClusterNetworkStartResponse(
transaction, status, extendedPanId, networkUpdateId, logicalChannel, panId)**

Command description for NetworkStartResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkStartResponse

Parameters

| | |
|-------------------------|--------|
| <i>transaction</i> | int32u |
| <i>status</i> | int8u |
| <i>extendedPanId</i> | int8u* |
| <i>network-UpdateId</i> | int8u |
| <i>logicalChannel</i> | int8u |
| <i>panId</i> | int16u |

Definition at line 5926 of file [client-command-macro.h](#).

**6.5.2.310 #define emberAfFillCommandZllCommissioningClusterNetworkJoinRouterResponse(
transaction, status)**

Command description for NetworkJoinRouterResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkJoinRouterResponse

Parameters

| | |
|--------------------|--------|
| <i>transaction</i> | int32u |
| <i>status</i> | int8u |

Definition at line 5947 of file [client-command-macro.h](#).

**6.5.2.311 #define emberAfFillCommandZllCommissioningClusterNetworkJoinEndDevice-
Response(transaction, status)**

Command description for NetworkJoinEndDeviceResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: NetworkJoinEndDeviceResponse

Parameters

| | |
|--------------------|--------|
| <i>transaction</i> | int32u |
| <i>status</i> | int8u |

Definition at line 5964 of file [client-command-macro.h](#).

6.5.2.312 #define emberAfFillCommandZllCommissioningClusterEndpointInformation(ieeeAddress, networkAddress, endpointId, profileId, deviceId, version)

Command description for EndpointInformation.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: EndpointInformation

Parameters

| | |
|------------------------|--------|
| <i>ieeeAddress</i> | int8u* |
| <i>network-Address</i> | int16u |
| <i>endpointId</i> | int8u |
| <i>profileId</i> | int16u |
| <i>deviceId</i> | int16u |
| <i>version</i> | int8u |

Definition at line 5985 of file [client-command-macro.h](#).

6.5.2.313 #define emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersResponse(total, startIndex, count, groupInformationRecordList, groupInformationRecordListLen)

Command description for GetGroupIdentifiersResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: GetGroupIdentifiersResponse

Parameters

| | |
|--|--------|
| <i>total</i> | int8u |
| <i>startIndex</i> | int8u |
| <i>count</i> | int8u |
| <i>group-Information-RecordList</i> | int8u* |
| <i>group-Information-RecordListLen</i> | int8u |

Definition at line 6009 of file [client-command-macro.h](#).

6.5.2.314 #define emberAfFillCommandZllCommissioningClusterGetEndpointListResponse(total, startIndex, count, endpointInformationRecordList, endpointInformationRecordListLen)

Command description for GetEndpointListResponse.

Cluster: ZLL Commissioning, The ZLL commissioning cluster provides commands to support touch link commissioning. Command: GetEndpointListResponse

Parameters

| | |
|---|--------|
| <i>total</i> | int8u |
| <i>startIndex</i> | int8u |
| <i>count</i> | int8u |
| <i>endpoint-Information-RecordList</i> | int8u* |
| <i>endpoint-Information-RecordListLen</i> | int8u |

Definition at line 6032 of file [client-command-macro.h](#).

6.5.2.315 #define emberAfFillCommandSampleMfgSpecificClusterCommandOne(*argOne*)

A sample manufacturer specific command within the sample manufacturer specific cluster.

Cluster: Sample Mfg Specific Cluster, This cluster provides an example of how the Application Framework can be extended to include manufacturer specific clusters. Command: CommandOne

Parameters

| | |
|---------------|-------|
| <i>argOne</i> | int8u |
|---------------|-------|

Definition at line 6058 of file [client-command-macro.h](#).

6.6 Application Framework V2 Enums Reference

Enums

- enum `EmberAfCommissioningStartupControl` { `EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_NO_ACTION`, `EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_FORM_NETWORK`, `EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_REJOIN_NETWORK`, `EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_START_FROM_SCRATCH` }
- enum `EmberAfMeteringBlockEnumerations` { `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_NO_BLOCKS_IN_USE`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK1`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK2`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK3`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK4`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK5`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK6`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK7`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK8`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK9`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK10`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK11`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK12`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK13`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK14`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK15`, `EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK16` }
- enum `EmberAfMeteringSupplyStatus` { `EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF`, `EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF_ARMED`, `EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_ON` }
- enum `EmberAfMeteringTemperatureUnitOfMeasure` { `EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN`, `EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS`, `EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT`, `EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN_BCD`, `EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS_BCD`, `EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT_BCD` }
- enum `EmberAfMeteringAlarmCode` { `EMBER_ZCL_METERING_ALARM_CODE_CHECK_METER`, `EMBER_ZCL_METERING_ALARM_CODE_LOW_BATTERY`, `EMBER_ZCL_METERING_ALARM_CODE_TAMPER_DETECT`, `EMBER_ZCL_METERING_ALARM_CODE_POWER_FAILURE_PIPE_EMPTY_TEMPERATURE_SENSOR`, `EMBER_ZCL_METERING_ALARM_CODE_POWER_QUALITY_LOW_PRESSURE_BURST_DETECT`, `EMBER_ZCL_METERING_ALARM_CODE_LEAK_DETECT`, `EMBER_ZCL_METERING_ALARM_CODE_SERVICE_DISCONNECT`, `EMBER_ZCL_METERING_ALARM_CODE_REVERSE_FLOW_FLOW_SENSOR`, `EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L1`, `EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L1`, `EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L2`, `EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L2`, `EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L3`, `EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L3`, `EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L1`, `EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L2`, `EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L3`, `EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L1`, `EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L2`, `EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L2`, `EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L3`, `EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L3`, `EMBER_ZCL_METERING_ALARM_CODE_GROUND_FAULT`, `EMBER_ZCL_METERING_ALARM_CODE_ELECTRIC_TAMPER_DETECT`, `EMBER_ZCL_METERING_ALARM_CODE_BURST_DETECT` }

- T, EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_LOW, EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_HIGH, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_COMMUNICATION_ERROR, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_MEASUREMENT_FAULT, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_REVERSE_FLOW, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_AIR_DETECT, EMBER_ZCL_METERING_ALARM_CODE_PIPE_EMPTY, EMBER_ZCL_METERING_ALARM_CODE_INLET_TEMPERATURE_SENSOR_FAULT, EMBER_ZCL_METERING_ALARM_CODE_OUTLET_TEMPERATURE_SENSOR_FAULT }
- enum EmberAfMessagingControlTransmission { EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL, EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL_AND_ANONYMOUS, EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_ANONYMOUS, EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_RESERVED }
- enum EmberAfMessagingControlImportance { EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_LOW, EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_MEDIUM, EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_HIGH, EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_CRITICAL }
- enum EmberAfMessagingControlConfirmation { EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_NOT_REQUIRED, EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_REQUIRED }
- enum EmberAfOperatingMode { EMBER_ZCL_OPERATING_MODE_NORMAL, EMBER_ZCL_OPERATING_MODE_CONFIGURE }
- enum EmberAfStatus { EMBER_ZCL_STATUS_SUCCESS, EMBER_ZCL_STATUS_FAILURE, EMBER_ZCL_STATUS_REQUEST_DENIED, EMBER_ZCL_STATUS_MULTIPLE_REQUEST_NOT_ALLOWED, EMBER_ZCL_STATUS_INDICATION_REDIRECTION_TO_AP, EMBER_ZCL_STATUS_PREFERENCE_DENIED, EMBER_ZCL_STATUS_PREFERENCE_IGNORED, EMBER_ZCL_STATUS_NOT_AUTHORIZED, EMBER_ZCL_STATUS_RESERVED_FIELD_NOT_ZERO, EMBER_ZCL_STATUS_MALFORMED_COMMAND, EMBER_ZCL_STATUS_UNSUP_CLUSTER_COMMAND, EMBER_ZCL_STATUS_UNSUP_GENERAL_COMMAND, EMBER_ZCL_STATUS_UNSUP_MANUF_CLUSTER_COMMAND, EMBER_ZCL_STATUS_UNSUP_MANUF_GENERAL_COMMAND, EMBER_ZCL_STATUS_INVALID_FIELD, EMBER_ZCL_STATUS_UNSUPPORTED_ATTRIBUTE, EMBER_ZCL_STATUS_INVALID_VALUE, EMBER_ZCL_STATUS_READ_ONLY, EMBER_ZCL_STATUS_INSUFFICIENT_SPACE, EMBER_ZCL_STATUS_DUPLICATE_EXISTS, EMBER_ZCL_STATUS_NOT_FOUND, EMBER_ZCL_STATUS_UNREPORTABLE_ATTRIBUTE, EMBER_ZCL_STATUS_INVALID_DATA_TYPE, EMBER_ZCL_STATUS_INVALID_SELECTOR, EMBER_ZCL_STATUS_WRITE_ONLY, EMBER_ZCL_STATUS_INCONSISTENT_STARTUP_STATE, EMBER_ZCL_STATUS_DEFINED_OUT_OF_BAND, EMBER_ZCL_STATUS_ABORT, EMBER_ZCL_STATUS_INVALID_IMAGE, EMBER_ZCL_STATUS_WAIT_FOR_DATA, EMBER_ZCL_STATUS_NO_IMAGE_AVAILABLE, EMBER_ZCL_STATUS_REQUIRE_MORE_IMAGE, EMBER_ZCL_STATUS_HARDWARE_FAILURE, EMBER_ZCL_STATUS_SOFTWARE_FAILURE, EMBER_ZCL_STATUS_CALIBRATION_ERROR }
- enum EmberAfPowerSource { EMBER_ZCL_POWER_SOURCE_UNKNOWN, EMBER_ZCL_POWER_SOURCE_SINGLE_PHASE_MAINS, EMBER_ZCL_POWER_SOURCE_THREE_PHASE_MAINS, EMBER_ZCL_POWER_SOURCE_BATTERY, EMBER_ZCL_POWER_SOURCE_DC_SOURCE, EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_CONSTANT_POWER, EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_TRANSFER_SWITCH, EMBER_ZCL_POWER_SOURCE_BATTERY_BACKUP }
- enum EmberAfPhysicalEnvironment { EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNSPECIFIED, EMBER_ZCL_PHYSICAL_ENVIRONMENT_FIRST_PROFILE_SPECIFIED_VALUE, EMBER_ZCL_PHYSICAL_ENVIRONMENT_LAST_PROFILE_SPECIFIED_VALUE, EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNKNOWN }
- enum EmberAfBatterySize { EMBER_ZCL_BATTERY_SIZE_NO_BATTERY, EMBER_ZCL_BATTERY_SIZE_BUILT_IN, EMBER_ZCL_BATTERY_SIZE_OTHER, EMBER_ZCL_BAT-

- TERY_SIZE_AA, EMBER_ZCL_BATTERY_SIZE_AAA, EMBER_ZCL_BATTERY_SIZE_C, EMBER_ZCL_BATTERY_SIZE_D, EMBER_ZCL_BATTERY_SIZE_UNKNOWN }
- enum EmberAfSwitchType { EMBER_ZCL_SWITCH_TYPE_TOGGLE, EMBER_ZCL_SWITCH_TYPE_MOMENTARY, EMBER_ZCL_SWITCH_TYPE_MULTI_FUNCTION }
- enum EmberAfSwitchActions { EMBER_ZCL_SWITCH_ACTIONS_ON, EMBER_ZCL_SWITCH_ACTIONS_OFF, EMBER_ZCL_SWITCH_ACTIONS_TOGGLE }
- enum EmberAfMoveMode { EMBER_ZCL_MOVE_MODE_UP, EMBER_ZCL_MOVE_MODE_DOWN }
- enum EmberAfStepMode { EMBER_ZCL_STEP_MODE_UP, EMBER_ZCL_STEP_MODE_DOWN }
- enum EmberAfLocationMethod { EMBER_ZCL_LOCATION_METHOD_LATERATION, EMBER_ZCL_LOCATION_METHOD_SIGNPOSTING, EMBER_ZCL_LOCATION_METHOD_RF_FINGERPRINTING, EMBER_ZCL_LOCATION_METHOD_OUT_OF_BAND }
- enum EmberAfPumpOperationMode { EMBER_ZCL_PUMP_OPERATION_MODE_NORMAL, EMBER_ZCL_PUMP_OPERATION_MODE_MINIMUM, EMBER_ZCL_PUMP_OPERATION_MODE_MAXIMUM, EMBER_ZCL_PUMP_OPERATION_MODE_LOCAL }
- enum EmberAfPumpControlMode { EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_SPEED, EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_PRESSURE, EMBER_ZCL_PUMP_CONTROL_MODE_PROPORTIONAL_PRESSURE, EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_FLOW, EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_TEMPERATURE, EMBER_ZCL_PUMP_CONTROL_MODE_AUTOMATIC }
- enum EmberAfThermostatControlSequence { EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_ONLY, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_WITH_REHEAT, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_ONLY, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_WITH_REHEAT, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING_WITH_REHEAT }
- enum EmberAfThermostatSystemMode { EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_OFF, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_AUTO, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_COOL, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_HEAT, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_EMERGENCY_HEATING, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_PRECOOLING, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_FAN_ONLY }
- enum EmberAfSetpointAdjustMode { EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_SETPOINT, EMBER_ZCL_SETPOINT_ADJUST_MODE_COOL_SETPOINT, EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_AND_COOL_SETPOINTS }
- enum EmberAfFanMode { EMBER_ZCL_FAN_MODE_OFF, EMBER_ZCL_FAN_MODE_LOW, EMBER_ZCL_FAN_MODE_MEDIUM, EMBER_ZCL_FAN_MODE_HIGH, EMBER_ZCL_FAN_MODE_ON, EMBER_ZCL_FAN_MODE_AUTO, EMBER_ZCL_FAN_MODE_SMART }
- enum EmberAfFanModeSequence { EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH, EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH, EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH_AUTO, EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH_AUTO, EMBER_ZCL_FAN_MODE_SEQUENCE_ON_AUTO }
- enum EmberAfRelativeHumidityMode { EMBER_ZCL_RELATIVE_HUMIDITY_MODE_MEASURE_LOCALLY, EMBER_ZCL_RELATIVE_HUMIDITY_MODE_UPDATED_OVER_THE_NETWORK }
- enum EmberAfDehumidificationLockout { EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_NOT_ALLOWED, EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_ALLOWED }
- enum EmberAfRelativeHumidityDisplay { EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_NOT_DISPLAYED, EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_DISPLAYED }

- enum `EmberAfTemperatureDisplayMode` { `EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_CELSIUS`, `EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_FAHRENHEIT` }
- enum `EmberAfKeypadLockout` { `EMBER_ZCL_KEYPAD_LOCKOUT_NO_LOCKOUT`, `EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_ONE_LOCKOUT`, `EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_TWO_LOCKOUT`, `EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_THREE_LOCKOUT`, `EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_FOUR_LOCKOUT`, `EMBER_ZCL_KEYPAD_LOCKOUT_LEVELFIVE_LOCKOUT` }
- enum `EmberAfHueDirection` { `EMBER_ZCL_HUE_DIRECTION_SHORTEST_DISTANCE`, `EMBER_ZCL_HUE_DIRECTION_LONGEST_DISTANCE`, `EMBER_ZCL_HUE_DIRECTION_UP`, `EMBER_ZCL_HUE_DIRECTION_DOWN` }
- enum `EmberAfHueMoveMode` { `EMBER_ZCL_HUE_MOVE_MODE_STOP`, `EMBER_ZCL_HUE_MOVE_MODE_UP`, `EMBER_ZCL_HUE_MOVE_MODE_DOWN` }
- enum `EmberAfHueStepMode` { `EMBER_ZCL_HUE_STEP_MODE_UP`, `EMBER_ZCL_HUE_STEP_MODE_DOWN` }
- enum `EmberAfSaturationMoveMode` { `EMBER_ZCL_SATURATION_MOVE_MODE_STOP`, `EMBER_ZCL_SATURATION_MOVE_MODE_UP`, `EMBER_ZCL_SATURATION_MOVE_MODE_DOWN` }
- enum `EmberAfSaturationStepMode` { `EMBER_ZCL_SATURATION_STEP_MODE_UP`, `EMBER_ZCL_SATURATION_STEP_MODE_DOWN` }
- enum `EmberAfColorMode` { `EMBER_ZCL_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION`, `EMBER_ZCL_COLOR_MODE_CURRENT_X_AND_CURRENT_Y`, `EMBER_ZCL_COLOR_MODE_COLOR_TEMPERATURE` }
- enum `EmberAfMeasurementLightSensorType` { `EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_PHOTODIODE`, `EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_CMOS` }
- enum `EmberAfLevelStatus` { `EMBER_ZCL_LEVEL_STATUS_ON_TARGET`, `EMBER_ZCL_LEVEL_STATUS_BELOW_TARGET`, `EMBER_ZCL_LEVEL_STATUS_ABOVE_TARGET` }
- enum `EmberAfSensingLightSensorType` { `EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_PHOTODIODE`, `EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_CMOS` }
- enum `EmberAfOccupancySensorType` { `EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR`, `EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_ULTRASONIC`, `EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR_AND_ULTRASONIC` }
- enum `EmberAflasZoneState` { `EMBER_ZCL_IAS_ZONE_STATE_NOT_ENROLLED`, `EMBER_ZCL_IAS_ZONE_STATE_ENROLLED` }
- enum `EmberAflasZoneType` { `EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_CIE`, `EMBER_ZCL_IAS_ZONE_TYPE_MOTION_SENSOR`, `EMBER_ZCL_IAS_ZONE_TYPE_CONTACT_SWITCH`, `EMBER_ZCL_IAS_ZONE_TYPE_FIRE_SENSOR`, `EMBER_ZCL_IAS_ZONE_TYPE_WATER_SENSOR`, `EMBER_ZCL_IAS_ZONE_TYPE_GAS_SENSOR`, `EMBER_ZCL_IAS_ZONE_TYPE_PERSONAL_EMERGENCY_DEVICE`, `EMBER_ZCL_IAS_ZONE_TYPE_VIBRATION_MOVEMENT_SENSOR`, `EMBER_ZCL_IAS_ZONE_TYPE_REMOTE_CONTROL`, `EMBER_ZCL_IAS_ZONE_TYPE_KEY_FOB`, `EMBER_ZCL_IAS_ZONE_TYPE_KEYPAD`, `EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_WARNING_DEVICE` }
- enum `EmberAflasEnrollResponseCode` { `EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_SUCCESS`, `EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NOT_SUPPORTED`, `EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NO_ENROLL_PERMIT`, `EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_TOO_MANY_ZONES` }
- enum `EmberAflasAceArmMode` { `EMBER_ZCL_IAS_ACE_ARM_MODE_DISARM`, `EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_DAY_HOME_ZONES_ONLY`, `EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_NIGHT_SLEEP_ZONES_ONLY`, `EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_ALL_ZONES` }

- enum EmberAfIasAceArmNotification { EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_DISARMED, EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_DAY_HOME_ZONES_ARMED, EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_NIGHT_SLEEP_ZONES_ARMED, EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_ARMED }
- enum EmberAfWarningMode { EMBER_ZCL_WARNING_MODE_STOP, EMBER_ZCL_WARNING_MODE_BURGLAR, EMBER_ZCL_WARNING_MODE_FIRE, EMBER_ZCL_WARNING_MODE_EMERGENCY }
- enum EmberAfWarningStobe { EMBER_ZCL_WARNING_STOBE_NO_STROBE, EMBER_ZCL_WARNING_STOBE_USE_STROBE }
- enum EmberAfSquawkMode { EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_ARMED, EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_DISARMED }
- enum EmberAfSquawkStobe { EMBER_ZCL_SQUAWK_STOBE_NO_STROBE, EMBER_ZCL_SQUAWK_STOBE_USE_STROBE }
- enum EmberAfSquawkLevel { EMBER_ZCL_SQUAWK_LEVEL_LOW_LEVEL, EMBER_ZCL_SQUAWK_LEVEL_MEDIUM_LEVEL, EMBER_ZCL_SQUAWK_LEVEL VERY_HIGH_LEVEL }
- enum EmberAfAmiCriticalityLevel { EMBER_ZCL_AMI_CRITICALITY_LEVEL_RESERVED, EMBER_ZCL_AMI_CRITICALITY_LEVEL_GREEN, EMBER_ZCL_AMI_CRITICALITY_LEVEL_1, EMBER_ZCL_AMI_CRITICALITY_LEVEL_2, EMBER_ZCL_AMI_CRITICALITY_LEVEL_3, EMBER_ZCL_AMI_CRITICALITY_LEVEL_4, EMBER_ZCL_AMI_CRITICALITY_LEVEL_5, EMBER_ZCL_AMI_CRITICALITY_LEVEL_EMERGENCY, EMBER_ZCL_AMI_CRITICALITY_LEVEL_PLANNED_OUTAGE, EMBER_ZCL_AMI_CRITICALITY_LEVEL_SERVICE_DISCONNECT, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED1, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED2, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED3, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED4, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED5, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED6 }
- enum EmberAfAmiEventStatus { EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_RX, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_STARTED, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED, EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOSEN_TO_OPT_OUT, EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOSEN_TO_OPT_IN, EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_CANCELED, EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_SUPERSEDED, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETED_WITH_USER_OPT_OUT, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETE_D_DUE_TO_USER_OPT_IN, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED_NO_USER_PARTICIPATION_PREVIOUS_OPT_OUT, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND_INVALID_EFFECTIVE_TIME, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_EVENT_EXPIRED, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_UNDEFINED_EVENT, EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_REJECTED }
- enum EmberAfAmiUnitOfMeasure { EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GAUGE, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE, EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND, EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS, EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS }

- _OF_MEASURE_MJ_OR_MJ_PER_SECOND, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KI-
 LO_WATT_HOURS_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_-
 _HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR_BCD, ×
 EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR_BCD, EM-
 BER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR_BCD, EMBER_ZCL_A-
 MI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR_BCD, EMBER_ZCL_AMI_U-
 NIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_M-
 EASURE_LITERS_OR_LITERS_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASUR-
 E_KPA_GUAGE_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE_BCD, -
 EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND_BCD, EMBER_ZCL_AMI_U-
 NIT_OF_MEASURE_UNITLESS_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASU-
 RE_MJ_OR_MJ_PER_SECOND_BCD }
- enum EmberAfAmiIntervalPeriod { EMBER_ZCL_AMI_INTERVAL_PERIOD_DAILY, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES60, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES30, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES15, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES10, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES7P5, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES5, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES2P5 }
 - enum EmberAfAmiIntervalChannel { EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMP-
 TION_DELIVERED, EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_RECEIV-
 ED }
 - enum EmberAfAmiRegistrationState { EMBER_ZCL_AMI_REGISTRATION_STATE_UNREG-
 ISTERED, EMBER_ZCL_AMI_REGISTRATION_STATE_JOINING_NETWORK, EMBER_Z-
 CL_AMI_REGISTRATION_STATE_JOINED_NETWORK, EMBER_ZCL_AMI_REGISTRATI-
 ON_STATE_SUBMITTED_REGISTRATION_REQUEST, EMBER_ZCL_AMI_REGISTRATI-
 ON_STATE_REGISTRATION_REJECTED, EMBER_ZCL_AMI_REGISTRATION_STATE_R-
 EGISTERED, EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTRATION_NOT_POSS-
 IBLE }
 - enum EmberAfAnonymousDataState { EMBER_ZCL_ANONYMOUS_DATA_STATE_NO_SO-
 URCE_FOUND, EMBER_ZCL_ANONYMOUS_DATA_STATE_SOURCE_FOUND }
 - enum EmberAfPriceTier { EMBER_ZCL_PRICE_TIER_NO_TIER RELATED, EMBER_ZCL_-
 PRICE_TIER_TIER1_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER2_PRICE_LABEL, E-
 MBER_ZCL_PRICE_TIER_TIER3_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER4_PRI-
 CE_LABEL, EMBER_ZCL_PRICE_TIER_TIER5_PRICE_LABEL, EMBER_ZCL_PRICE_TIE-
 R_TIER6_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER7_PRICE_LABEL, EMBER_ZC-
 L_PRICE_TIER_TIER8_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER9_PRICE_LABEL,
 EMBER_ZCL_PRICE_TIER_TIER10_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER11_P-
 RICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER12_PRICE_LABEL, EMBER_ZCL_PRICE_-
 TIER_TIER13_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER14_PRICE_LABEL, EMBE-
 R_ZCL_PRICE_TIER_TIER15_PRICE_LABEL }
 - enum EmberAfPriceControlAcknowledgement { EMBER_ZCL_PRICE_CONTROL_ACKNOW-
 LEDGEMENT_NOT_REQUIRED, EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMEN-
 T_REQUIRED }
 - enum EmberAfRegisterTier { EMBER_ZCL_REGISTER_TIER_NO_TIER RELATED, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER1_SUMMATION_DELIVERED_ATTRIBUTE, EM-
 BER_ZCL_REGISTER_TIER_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE, -
 EMBER_ZCL_REGISTER_TIER_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER4_SUMMATION_DELIVERED_AT-
 TRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER5_SUMMATION_DELIVERED_-
 ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER6_SUMMATION_DELIVER-
 ED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER7_SUMMATION_DELI-
 VERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER8_SUMMATION_-
 DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER9_SUMMATI-

- ON_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE }
- enum EmberAfAlternateCostUnit { EMBER_ZCL_ALTERNATE_COST_UNIT_KG_OF_CO2_PER_UNIT_OF_MEASURE }
 - enum EmberAfAmiKeyEstablishmentStatus { EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_SUCCESS, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNKNOWN_ISSUER, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_KEY_CONFIRM, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_MESSAGE, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_NO_RESOURCES, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNSUPPORTED_SUITE }
 - enum EmberAfAmiGetProfileStatus { EMBER_ZCL_AMI_GET_PROFILE_STATUS_SUCCESS, EMBER_ZCL_AMI_GET_PROFILE_STATUS_UNDEFINED_INTERVAL_CHANNEL_REQUESTED, EMBER_ZCL_AMI_GET_PROFILE_STATUS_INTERVAL_CHANNEL_NOT_SUPPORTED, EMBER_ZCL_AMI_GET_PROFILE_STATUS_INVALID_END_TIME, EMBER_ZCL_AMI_GET_PROFILE_STATUS_MORE_PERIODS_REQUESTED_THAN_CAN_BE_RETURNED, EMBER_ZCL_AMI_GET_PROFILE_STATUS_NO_INTERVALS_AVAILABLE_FOR_THE_REQUESTED_TIME }
 - enum EmberAfAttributeWritePermission { EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_DENY_WRITE, EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_ALLOW_WRITE_NORMAL, EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_ALLOW_WRITE_OF_READ_ONLY }
 - enum EmberAfMeterDeviceType { EMBER_ZCL_METER_DEVICE_TYPE_ELECTRIC_METER, EMBER_ZCL_METER_DEVICE_TYPE_GAS_METER, EMBER_ZCL_METER_DEVICE_TYPE_WATER_METER, EMBER_ZCL_METER_DEVICE_TYPE_THERMAL_METER, EMBER_ZCL_METER_DEVICE_TYPE_PRESSURE_METER, EMBER_ZCL_METER_DEVICE_TYPE_HEAT_METER, EMBER_ZCL_METER_DEVICE_TYPE_COOLING_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_GAS_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_WATER_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_THERMAL_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_PRESSURE_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_HEAT_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_COOLING_METER, EMBER_ZCL_METER_DEVICE_TYPE_UNDEFINED_MIRROR_METER }
 - enum EmberAfTunnelingProtocolId { EMBER_ZCL_TUNNELING_PROTOCOL_ID_DLMS_C_OSEM, EMBER_ZCL_TUNNELING_PROTOCOL_ID_IEC_61107, EMBER_ZCL_TUNNELING_PROTOCOL_ID_ANSI_C12, EMBER_ZCL_TUNNELING_PROTOCOL_ID_M_BUS, EMBER_ZCL_TUNNELING_PROTOCOL_ID_SML, EMBER_ZCL_TUNNELING_PROTOCOL_ID_CLIMATE_TALK, EMBER_ZCL_TUNNELING_PROTOCOL_ID_TEST }
 - enum EmberAfTunnelingTransferDataStatus { EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_NO SUCH TUNNEL, EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_WRONG_DEVICE, EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_DATA_OVERFLOW }
 - enum EmberAfTunnelingTunnelStatus { EMBER_ZCL_TUNNELING_TUNNEL_STATUS_SUCCESS, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_BUSY, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_NO MORE TUNNEL_IDS, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_PROTOCOL_NOT_SUPPORTED, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_FLOW_CONTROL_NOT_SUPPORTED }
 - enum EmberAfPrepaymentRecoveryPeriod { EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_HOUR, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_DAY, EMB-

- ER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_WEEK, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_MONTH, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_QUARTER }
- enum EmberAfPrepaymentOriginatingDevice { EMBER_ZCL_PREPAYMENT_ORIGINATING_DEVICE_ENERGY_SERVICE_INTERFACE, EMBER_ZCL_PREPAYMENT_ORIGINATING_DEVICE_IN_PREMISES_DISPLAY_DEVICE }
- enum EmberAfPrepaymentSupplyStatus { EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF, EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF_ARMED, EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_ON }
- enum EmberAfReportingDirection { EMBER_ZCL_REPORTING_DIRECTION_REPORTED, EMBER_ZCL_REPORTING_DIRECTION_RECEIVED }
- enum EmberAfSignatureType { EMBER_ZCL_SIGNATURE_TYPE_RESERVED, EMBER_ZCL_SIGNATURE_TYPE_ECDSA }
- enum EmberAfPowerProfileState { EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_WAITING_TO_START, EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_STARTED, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_RUNNING, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_ENDED, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_WAITING_TO_START, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_STARTED, EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_ENDED, EMBER_ZCL_POWER_PROFILE_STATE_PROFILE_READY_FOR_SCHEDULING, EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_SCHEDULED }
- enum EmberAfApplianceStatus { EMBER_ZCL_APPLIANCE_STATUS_OFF, EMBER_ZCL_APPLIANCE_STATUS_STAND_BY, EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED, EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED_WAITING_TO_START, EMBER_ZCL_APPLIANCE_STATUS_RUNNING, EMBER_ZCL_APPLIANCE_STATUS_PAUSE, EMBER_ZCL_APPLIANCE_STATUS_END_PROGRAMMED, EMBER_ZCL_APPLIANCE_STATUS_FAILURE, EMBER_ZCL_APPLIANCE_STATUS_PROGRAMME_INTERRUPTED, EMBER_ZCL_APPLIANCE_STATUS_IDLE, EMBER_ZCL_APPLIANCE_STATUS_RINSE_HOLD, EMBER_ZCL_APPLIANCE_STATUS_SERVICE, EMBER_ZCL_APPLIANCE_STATUS_SUPERFREEZING, EMBER_ZCL_APPLIANCE_STATUS_SUPERCOOLING, EMBER_ZCL_APPLIANCE_STATUS_SUPERHEATING }
- enum EmberAfRemoteEnableFlags { EMBER_ZCL_REMOTE_ENABLE_FLAGS_DISABLED, EMBER_ZCL_REMOTE_ENABLE_FLAGS_TEMPORARILY_LOCKED_DISABLED, EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_CONTROL, EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_AND_ENERGY_CONTROL }
- enum EmberAfDeviceStatus2Structure { EMBER_ZCL_DEVICE_STATUS2_STRUCTURE_IRIS_SYMPTOM_CODE }
- enum EmberAfTimeEncoding { EMBER_ZCL_TIME_ENCODING_RELATIVE, EMBER_ZCL_TIME_ENCODING_ABSOLUTE }
- enum EmberAfCommandIdentification { EMBER_ZCL_COMMAND_IDENTIFICATION_START, EMBER_ZCL_COMMAND_IDENTIFICATION_STOP, EMBER_ZCL_COMMAND_IDENTIFICATION_PAUSE, EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERFREEZING, EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERFREEZING, EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERCOOLING, EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERCOOLING, EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_GAS, EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_GAS, EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_ENERGY_CONTROL, EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_ENERGY_CONTROL }
- enum EmberAfWarningEvent { EMBER_ZCL_WARNING_EVENT_WARNING1_OVERALL_POWER_ABOVE_AVAILABLE_POWER_LEVEL, EMBER_ZCL_WARNING_EVENT_WARNING2_OVERALL_POWER_ABOVE_POWER_THRESHOLD_LEVEL, EMBER_ZCL_WARNING_EVENT_WARNING3_OVERALL_POWER_BACK_BELOW_THE_AVAILABLE_POWER_LEVEL, EMBER_ZCL_WARNING_EVENT_WARNING4_OVERALL_POWER_BACK_BE-

- LOW_THE_POWER_THRESHOLD_LEVEL, EMBER_ZCL_WARNING_EVENT_WARNING5,_OVERALL_POWER_WILL_BE_POTENTIALLY_ABOVE_AVAILABLE_POWER_LEVEL_I-F_THE_APPLIANCE_STARTS }
- enum EmberAfSilentMode { EMBER_ZCL_SILENT_MODE_SILENT, EMBER_ZCL_SILENT_MODE_LOW, EMBER_ZCL_SILENT_MODE_HIGH }
 - enum EmberAfDoorLockOperatingMode { EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NORMAL_MODE, EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_VACATION_MODE, EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_PRIVACY_MODE, EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NO_RF_LOCK_OR_UNLOCK }
 - enum EmberAfLanguage { EMBER_ZCL_LANGUAGE_ENGLISH, EMBER_ZCL_LANGUAGE_FRENCH, EMBER_ZCL_LANGUAGE_SPANISH }
 - enum EmberAfDayOfWeek { EMBER_ZCL_DAY_OF_WEEK_SUNDAY, EMBER_ZCL_DAY_OF_WEEK_MONDAY, EMBER_ZCL_DAY_OF_WEEK_TUESDAY, EMBER_ZCL_DAY_OF_WEEK_WEDNESDAY, EMBER_ZCL_DAY_OF_WEEK_THURSDAY, EMBER_ZCL_DAY_OF_WEEK_FRIDAY, EMBER_ZCL_DAY_OF_WEEK_SATURDAY }
 - enum EmberAfUserStatus { EMBER_ZCL_USER_STATUS_AVAILABLE, EMBER_ZCL_USER_STATUS_OCCUPIED_ENABLED, EMBER_ZCL_USER_STATUS_OCCUPIED_DISABLED, EMBER_ZCL_USER_STATUS_SUPERVISOR_GROUP_DISABLED, EMBER_ZCL_USER_STATUS_GROUP_ONLY_DISABLED }
 - enum EmberAfSlotStatus { EMBER_ZCL_SLOT_STATUS_DISABLE, EMBER_ZCL_SLOT_STATUS_ENABLE }
 - enum EmberAfLockMode { EMBER_ZCL_LOCK_MODE_UNLOCKED, EMBER_ZCL_LOCK_MODE_UNLOCKED_WITH_RELOCK_PENDING, EMBER_ZCL_LOCK_MODE_LOCKED }
 - enum EmberAfBoltCondition { EMBER_ZCL_BOLT_CONDITION_RETRACTED, EMBER_ZCL_BOLT_CONDITION_EXTENDED }
 - enum EmberAfHandleCondition { EMBER_ZCL_HANDLE_CONDITION_UNKNOWN }
 - enum EmberAfEventType { EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_LOCK_COMMAND, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_UNLOCK_COMMAND, EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_LOCK_BUTTON_PRESSED, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_UNLOCK_BUTTON_PRESSED, EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE, EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_LOCKED_MANUAL, EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_UNLOCKED_MANUAL, EMBER_ZCL_EVENT_TYPE_AUTO_LOCK_OPERATION, EMBER_ZCL_EVENT_TYPE_AUTO_UNLOCK_OPERATION, EMBER_ZCL_EVENT_TYPE_LOCK_SECURED, EMBER_ZCL_EVENT_TYPE_LOCK_UNSECURED, EMBER_ZCL_EVENT_TYPE_USER_CODE_ADDED, EMBER_ZCL_EVENT_TYPE_USER_CODE_DELETED, EMBER_ZCL_EVENT_TYPE_ALL_USER_CODES_DELETED, EMBER_ZCL_EVENT_TYPE_MASTER_CODE_CHANGED, EMBER_ZCL_EVENT_TYPE_USER_CODE_CHANGED, EMBER_ZCL_EVENT_TYPE_LOCK_RESET, EMBER_ZCL_EVENT_TYPE_CONFIGURATION_CHANGED, EMBER_ZCL_EVENT_TYPE_LOW_BATTERY, EMBER_ZCL_EVENT_TYPE_NEW_BATTERY_INSTALLED }
 - enum EmberAfThermostatRunningMode { EMBER_ZCL_THERMOSTAT_RUNNING_MODE_OFF, EMBER_ZCL_THERMOSTAT_RUNNING_MODE_COOL, EMBER_ZCL_THERMOSTAT_RUNNING_MODE_HEAT }
 - enum EmberAfStartOfWeek { EMBER_ZCL_START_OF_WEEK_SUNDAY, EMBER_ZCL_START_OF_WEEK_MONDAY, EMBER_ZCL_START_OF_WEEK_TUESDAY, EMBER_ZCL_START_OF_WEEK_WEDNESDAY, EMBER_ZCL_START_OF_WEEK_THURSDAY, EMBER_ZCL_START_OF_WEEK_FRIDAY, EMBER_ZCL_START_OF_WEEK_SATURDAY }

- enum EmberAfTemperatureSetpointHold { EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_OFF, EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_ON }
- enum EmberAfProductTypeId { EMBER_ZCL_PRODUCT_TYPE_ID_WHITE_GOODS, EMBER_ZCL_PRODUCT_TYPE_ID_DISHWASHER, EMBER_ZCL_PRODUCT_TYPE_ID_TUMBLE_DRYER, EMBER_ZCL_PRODUCT_TYPE_ID_WASHER_DRYER, EMBER_ZCL_PRODUCT_TYPE_ID_WASHING_MACHINE, EMBER_ZCL_PRODUCT_TYPE_ID_HOBS, EMBER_ZCL_PRODUCT_TYPE_ID_INDUCTION_HOBS, EMBER_ZCL_PRODUCT_TYPE_ID_OVEN, EMBER_ZCL_PRODUCT_TYPE_ID_ELECTRICAL_OVEN, EMBER_ZCL_PRODUCT_TYPE_ID_REFRIGERATOR_FREEZER }
- enum EmberAfCecedSpecificationVersion { EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_NOT_CERTIFIED, EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_CERTIFIED }
- enum EmberAfMeterTypeId { EMBER_ZCL_METER_TYPE_ID.Utility_PRIMARY_METER, EMBER_ZCL_METER_TYPE_ID.Utility_PRODUCTION_METER, EMBER_ZCL_METER_TYPE_ID.Utility_SECONDARY_METER, EMBER_ZCL_METER_TYPE_ID_Private_PRIMARY_METER, EMBER_ZCL_METER_TYPE_ID_Private_PRODUCTION_METER, EMBER_ZCL_METER_TYPE_ID_Private_SECONDARY_METERS, EMBER_ZCL_METER_TYPE_ID_Generic_METER }
- enum EmberAfDataQualityId { EMBER_ZCL_DATA_QUALITY_ID_ALL_DATA_CERTIFIED, EMBER_ZCL_DATA_QUALITY_ID_ONLY_INSTANTANEOUS_POWER_NOT_CERTIFIED, EMBER_ZCL_DATA_QUALITY_ID_ONLY_CUMULATED_CONSUMPTION_NOT_CERTIFIED, EMBER_ZCL_DATA_QUALITY_ID_NOT_CERTIFIED_DATA }
- enum EmberAfAlertStructureCategory { EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_WARNING, EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_DANGER, EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_FAILURE }
- enum EmberAfAlertStructurePresenceRecovery { EMBER_ZCL_ALERT_STRUCTURE_PRESENCE_RECOVERY_PRESENCE, EMBER_ZCL_ALERT_STRUCTURE_PRESENCE_RECOVERY_RECOVERY }
- enum EmberAfAlertCountType { EMBER_ZCL_ALERT_COUNT_TYPE_UNSTRUCTURED }
- enum EmberAfEventIdentification { EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_CYCLE, EMBER_ZCL_EVENT_IDENTIFICATION_TEMPERATURE_REACHED, EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_COOKING, EMBER_ZCL_EVENT_IDENTIFICATION_SWITCHING_OFF, EMBER_ZCL_EVENT_IDENTIFICATION_WRONG_DATA }
- enum EmberAfIdentifyEffectIdentifier { EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BLINK, EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BREATHE, EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_OKAY, EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_FINISH_EFFECT, EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_STOP_EFFECT }
- enum EmberAfIdentifyEffectVariant { EMBER_ZCL_IDENTIFY_EFFECT_VARIANT_DEFAULT }
- enum EmberAfOnOffEffectIdentifier { EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DELAYED_ALL_OFF, EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DYING_LIGHT }
- enum EmberAfOnOffDelayedAllOffEffectVariant { EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_FADE_TO_OFF_IN_0P8_SECONDS, EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_NO_FADE, EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_50_PERCENT_DIM_DOWN_IN_0P8_SECONDS_THEN_FADE_TO_OFF_IN_12_SECONDS }
- enum EmberAfOnOffDyingLightEffectVariant { EMBER_ZCL_ON_OFF_DYING_LIGHT_EFFECT_VARIANT_20_PERCENTER_DIM_UP_IN_0P5_SECONDS_THEN_FADE_TO_OFF_IN_1_SECOND }

- enum `EmberAfEnhancedColorMode` { `EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION`, `EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_X_AND_CURRENT_Y`, `EMBER_ZCL_ENHANCED_COLOR_MODE_COLOR_TEMPERATURE`, `EMBER_ZCL_ENHANCED_COLOR_MODE_ENHANCED_CURRENT_HUE_AND_CURRENT_SATURATION` }
- enum `EmberAfColorLoopAction` { `EMBER_ZCL_COLOR_LOOP_ACTION_DEACTIVATE`, `EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_COLOR_LOOP_START_ENHANCED_HUE`, `EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_ENHANCED_CURRENT_HUE` }
- enum `EmberAfColorLoopDirection` { `EMBER_ZCL_COLOR_LOOP_DIRECTION_DECREMENT_HUE`, `EMBER_ZCL_COLOR_LOOP_DIRECTION_INCREMENT_HUE` }
- enum `EmberAfZigbeeInformationLogicalType` { `EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_COORDINATOR`, `EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_ROUTER`, `EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_END_DEVICE` }
- enum `EmberAfKeyIndex` { `EMBER_ZCL_KEY_INDEX_DEVELOPMENT`, `EMBER_ZCL_KEY_INDEX_MASTER`, `EMBER_ZCL_KEY_INDEX_CERTIFICATION` }
- enum `EmberAfDeviceInformationRecordSort` { `EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_NOT_SORTED`, `EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_TOP_OF_THE_LIST` }
- enum `EmberAfZllStatus` { `EMBER_ZCL_ZLL_STATUS_SUCCESS`, `EMBER_ZCL_ZLL_STATUS_FAILURE` }

6.6.1 Detailed Description

This header provides Application Framework enum definitions.

6.6.2 Enumeration Type Documentation

6.6.2.1 enum `EmberAfCommissioningStartupControl`

Enumerator:

```
EMBER_ZCL_COMMISIONING_STARTUP_CONTROL_NO_ACTION
EMBER_ZCL_COMMISIONING_STARTUP_CONTROL_FORM_NETWORK
EMBER_ZCL_COMMISIONING_STARTUP_CONTROL_REJOIN_NETWORK
EMBER_ZCL_COMMISIONING_STARTUP_CONTROL_START_FROM_SCRATCH
```

Definition at line 20 of file `enums.h`.

6.6.2.2 enum `EmberAfMeteringBlockEnumerations`

Enumerator:

```
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_NO_BLOCKS_IN_USE
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK1
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK2
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK3
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK4
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK5
```

EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK6
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK7
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK8
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK9
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK10
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK11
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK12
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK13
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK14
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK15
EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK16

Definition at line 27 of file [enums.h](#).

6.6.2.3 enum EmberAfMeteringSupplyStatus

Enumerator:

EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF
EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF_ARMED
EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_ON

Definition at line 47 of file [enums.h](#).

6.6.2.4 enum EmberAfMeteringTemperatureUnitOfMeasure

Enumerator:

EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN
EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS
EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT
EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN_BCD
EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS_BCD
EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT_BCD

Definition at line 53 of file [enums.h](#).

6.6.2.5 enum EmberAfMeteringAlarmCode

Enumerator:

EMBER_ZCL_METERING_ALARM_CODE_CHECK_METER
EMBER_ZCL_METERING_ALARM_CODE_LOW_BATTERY
EMBER_ZCL_METERING_ALARM_CODE_TAMPER_DETECT
EMBER_ZCL_METERING_ALARM_CODE_POWER_FAILURE_PIPE_EMPTY_TEMPERATURE_SENSOR

EMBER_ZCL_METERING_ALARM_CODE_POWER_QUALITY_LOW_PRESSURE_BURST_DETECT
EMBER_ZCL_METERING_ALARM_CODE_LEAK_DETECT
EMBER_ZCL_METERING_ALARM_CODE_SERVICE_DISCONNECT
EMBER_ZCL_METERING_ALARM_CODE_REVERSE_FLOW_FLOW_SENSOR
EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L1
EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L1
EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L2
EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L2
EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L3
EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L3
EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L1
EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L2
EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L3
EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L1
EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L1
EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L2
EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L2
EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L3
EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L3
EMBER_ZCL_METERING_ALARM_CODE_GROUND_FAULT
EMBER_ZCL_METERING_ALARM_CODE_ELECTRIC_TAMPER_DETECT
EMBER_ZCL_METERING_ALARM_CODE_BURST_DETECT
EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_LOW
EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_HIGH
EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_COMMUNICATION_ERROR

EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_MEASUREMENT_FAULT
EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_REVERSE_FLOW
EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_AIR_DETECT
EMBER_ZCL_METERING_ALARM_CODE_PIPE_EMPTY
EMBER_ZCL_METERING_ALARM_CODE_INLET_TEMPERATURE_SENSOR_FAULT
EMBER_ZCL_METERING_ALARM_CODE_OUTLET_TEMPERATURE_SENSOR_FAULT

Definition at line 62 of file [enums.h](#).

6.6.2.6 enum EmberAfMessagingControlTransmission

Enumerator:

EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL
EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL_AND_ANONYMOUS
EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_ANONYMOUS
EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_RESERVED

Definition at line 100 of file [enums.h](#).

6.6.2.7 enum EmberAfMessagingControlImportance

Enumerator:

EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_LOW
EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_MEDIUM
EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_HIGH
EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_CRITICAL

Definition at line 107 of file [enums.h](#).

6.6.2.8 enum EmberAfMessagingControlConfirmation

Enumerator:

EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_NOT_REQUIRED
EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_REQUIRED

Definition at line 114 of file [enums.h](#).

6.6.2.9 enum EmberAfOperatingMode

Enumerator:

EMBER_ZCL_OPERATING_MODE_NORMAL
EMBER_ZCL_OPERATING_MODE_CONFIGURE

Definition at line 119 of file [enums.h](#).

6.6.2.10 enum EmberAfStatus

Enumerator:

EMBER_ZCL_STATUS_SUCCESS
EMBER_ZCL_STATUS_FAILURE
EMBER_ZCL_STATUS_REQUEST_DENIED
EMBER_ZCL_STATUS_MULTIPLE_REQUEST_NOT_ALLOWED
EMBER_ZCL_STATUS_INDICATION_REDIRECTION_TO_AP
EMBER_ZCL_STATUS_PREFERENCE_DENIED
EMBER_ZCL_STATUS_PREFERENCE_IGNORED
EMBER_ZCL_STATUS_NOTAUTHORIZED
EMBER_ZCL_STATUS_RESERVED_FIELD_NOT_ZERO
EMBER_ZCL_STATUS_MALFORMED_COMMAND
EMBER_ZCL_STATUS_UNSUP_CLUSTER_COMMAND
EMBER_ZCL_STATUS_UNSUP_GENERAL_COMMAND
EMBER_ZCL_STATUS_UNSUP_MANUF_CLUSTER_COMMAND
EMBER_ZCL_STATUS_UNSUP_MANUF_GENERAL_COMMAND
EMBER_ZCL_STATUS_INVALID_FIELD

```
EMBER_ZCL_STATUS_UNSUPPORTED_ATTRIBUTE
EMBER_ZCL_STATUS_INVALID_VALUE
EMBER_ZCL_STATUS_READ_ONLY
EMBER_ZCL_STATUS_INSUFFICIENT_SPACE
EMBER_ZCL_STATUS_DUPLICATE_EXISTS
EMBER_ZCL_STATUS_NOT_FOUND
EMBER_ZCL_STATUS_UNREPORTABLE_ATTRIBUTE
EMBER_ZCL_STATUS_INVALID_DATA_TYPE
EMBER_ZCL_STATUS_INVALID_SELECTOR
EMBER_ZCL_STATUS_WRITE_ONLY
EMBER_ZCL_STATUS_INCONSISTENT_STARTUP_STATE
EMBER_ZCL_STATUS_DEFINED_OUT_OF_BAND
EMBER_ZCL_STATUS_ABORT
EMBER_ZCL_STATUS_INVALID_IMAGE
EMBER_ZCL_STATUS_WAIT_FOR_DATA
EMBER_ZCL_STATUS_NO_IMAGE_AVAILABLE
EMBER_ZCL_STATUS_REQUIRE_MORE_IMAGE
EMBER_ZCL_STATUS_HARDWARE_FAILURE
EMBER_ZCL_STATUS_SOFTWARE_FAILURE
EMBER_ZCL_STATUS_CALIBRATION_ERROR
```

Definition at line 124 of file [enums.h](#).

6.6.2.11 enum EmberAfPowerSource

Enumerator:

```
EMBER_ZCL_POWER_SOURCE_UNKNOWN
EMBER_ZCL_POWER_SOURCE_SINGLE_PHASE_MAINS
EMBER_ZCL_POWER_SOURCE_THREE_PHASE_MAINS
EMBER_ZCL_POWER_SOURCE_BATTERY
EMBER_ZCL_POWER_SOURCE_DC_SOURCE
EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_CONSTANT_POWER
EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_TRANSFER_SWITCH
EMBER_ZCL_POWER_SOURCE_BATTERY_BACKUP
```

Definition at line 162 of file [enums.h](#).

6.6.2.12 enum EmberAfPhysicalEnvironment

Enumerator:

```
EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNSPECIFIED
EMBER_ZCL_PHYSICAL_ENVIRONMENT_FIRST_PROFILE_SPECIFIED_VALUE
EMBER_ZCL_PHYSICAL_ENVIRONMENT_LAST_PROFILE_SPECIFIED_VALUE
EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNKNOWN
```

Definition at line 173 of file [enums.h](#).

6.6.2.13 enum EmberAfBatterySize

Enumerator:

- EMBER_ZCL_BATTERY_SIZE_NO_BATTERY*
- EMBER_ZCL_BATTERY_SIZE_BUILT_IN*
- EMBER_ZCL_BATTERY_SIZE_OTHER*
- EMBER_ZCL_BATTERY_SIZE_AA*
- EMBER_ZCL_BATTERY_SIZE_AAA*
- EMBER_ZCL_BATTERY_SIZE_C*
- EMBER_ZCL_BATTERY_SIZE_D*
- EMBER_ZCL_BATTERY_SIZE_UNKNOWN*

Definition at line 180 of file [enums.h](#).

6.6.2.14 enum EmberAfSwitchType

Enumerator:

- EMBER_ZCL_SWITCH_TYPE_TOGGLE*
- EMBER_ZCL_SWITCH_TYPE_MOMENTARY*
- EMBER_ZCL_SWITCH_TYPE_MULTI_FUNCTION*

Definition at line 191 of file [enums.h](#).

6.6.2.15 enum EmberAfSwitchActions

Enumerator:

- EMBER_ZCL_SWITCH_ACTIONS_ON*
- EMBER_ZCL_SWITCH_ACTIONS_OFF*
- EMBER_ZCL_SWITCH_ACTIONS_TOGGLE*

Definition at line 197 of file [enums.h](#).

6.6.2.16 enum EmberAfMoveMode

Enumerator:

- EMBER_ZCL_MOVE_MODE_UP*
- EMBER_ZCL_MOVE_MODE_DOWN*

Definition at line 203 of file [enums.h](#).

6.6.2.17 enum EmberAfStepMode

Enumerator:

- EMBER_ZCL_STEP_MODE_UP*
- EMBER_ZCL_STEP_MODE_DOWN*

Definition at line 208 of file [enums.h](#).

6.6.2.18 enum EmberAfLocationMethod

Enumerator:

```
EMBER_ZCL_LOCATION_METHOD_LATERATION
EMBER_ZCL_LOCATION_METHOD_SIGNPOSTING
EMBER_ZCL_LOCATION_METHOD_RF_FINGERPRINTING
EMBER_ZCL_LOCATION_METHOD_OUT_OF_BAND
```

Definition at line 213 of file [enums.h](#).

6.6.2.19 enum EmberAfPumpOperationMode

Enumerator:

```
EMBER_ZCL_PUMP_OPERATION_MODE_NORMAL
EMBER_ZCL_PUMP_OPERATION_MODE_MINIMUM
EMBER_ZCL_PUMP_OPERATION_MODE_MAXIMUM
EMBER_ZCL_PUMP_OPERATION_MODE_LOCAL
```

Definition at line 220 of file [enums.h](#).

6.6.2.20 enum EmberAfPumpControlMode

Enumerator:

```
EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_SPEED
EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_PRESSURE
EMBER_ZCL_PUMP_CONTROL_MODE_PROPORIONAL_PRESSURE
EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_FLOW
EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_TEMPERATURE
EMBER_ZCL_PUMP_CONTROL_MODE_AUTOMATIC
```

Definition at line 227 of file [enums.h](#).

6.6.2.21 enum EmberAfThermostatControlSequence

Enumerator:

```
EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_ONLY
EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_WITH_REHEAT
EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_ONLY
EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_WITH_REHEAT
EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING
EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING_WITH_REHEAT
```

Definition at line 236 of file [enums.h](#).

6.6.2.22 enum EmberAfThermostatSystemMode

Enumerator:

```
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_OFF
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_AUTO
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_COOL
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_HEAT
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_EMERGENCY_HEATING
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_PRECOOLING
EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_FAN_ONLY
```

Definition at line [245](#) of file `enums.h`.

6.6.2.23 enum EmberAfSetpointAdjustMode

Enumerator:

```
EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_SETPOINT
EMBER_ZCL_SETPOINT_ADJUST_MODE_COOL_SETPOINT
EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_AND_COOL_SETPOINTS
```

Definition at line [255](#) of file `enums.h`.

6.6.2.24 enum EmberAfFanMode

Enumerator:

```
EMBER_ZCL_FAN_MODE_OFF
EMBER_ZCL_FAN_MODE_LOW
EMBER_ZCL_FAN_MODE_MEDIUM
EMBER_ZCL_FAN_MODE_HIGH
EMBER_ZCL_FAN_MODE_ON
EMBER_ZCL_FAN_MODE_AUTO
EMBER_ZCL_FAN_MODE_SMART
```

Definition at line [261](#) of file `enums.h`.

6.6.2.25 enum EmberAfFanModeSequence

Enumerator:

```
EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH
EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH
EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH_AUTO
EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH_AUTO
EMBER_ZCL_FAN_MODE_SEQUENCE_ON_AUTO
```

Definition at line [271](#) of file `enums.h`.

6.6.2.26 enum EmberAfRelativeHumidityMode

Enumerator:

*EMBER_ZCL_RELATIVE_HUMIDITY_MODE_MEASURE_LOCALLY
 EMBER_ZCL_RELATIVE_HUMIDITY_MODE_UPDATED_OVER_THE_NETWORK*

Definition at line 279 of file [enums.h](#).

6.6.2.27 enum EmberAfDehumidificationLockout

Enumerator:

*EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_NOT_ALLOWED
 EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_ALLOWED*

Definition at line 284 of file [enums.h](#).

6.6.2.28 enum EmberAfRelativeHumidityDisplay

Enumerator:

*EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_NOT_DISPLAYED
 EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_DISPLAYED*

Definition at line 289 of file [enums.h](#).

6.6.2.29 enum EmberAfTemperatureDisplayMode

Enumerator:

*EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_CELSIUS
 EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_FAHRENHEIT*

Definition at line 294 of file [enums.h](#).

6.6.2.30 enum EmberAfKeypadLockout

Enumerator:

*EMBER_ZCL_KEYPAD_LOCKOUT_NO_LOCKOUT
 EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_ONE_LOCKOUT
 EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_TWO_LOCKOUT
 EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_THREE_LOCKOUT
 EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_FOUR_LOCKOUT
 EMBER_ZCL_KEYPAD_LOCKOUT_LEVELFIVE_LOCKOUT*

Definition at line 299 of file [enums.h](#).

6.6.2.31 enum EmberAfHueDirection

Enumerator:

EMBER_ZCL_HUE_DIRECTION_SHORTEST_DISTANCE
EMBER_ZCL_HUE_DIRECTION_LONGEST_DISTANCE
EMBER_ZCL_HUE_DIRECTION_UP
EMBER_ZCL_HUE_DIRECTION_DOWN

Definition at line 308 of file [enums.h](#).

6.6.2.32 enum EmberAfHueMoveMode

Enumerator:

EMBER_ZCL_HUE_MOVE_MODE_STOP
EMBER_ZCL_HUE_MOVE_MODE_UP
EMBER_ZCL_HUE_MOVE_MODE_DOWN

Definition at line 315 of file [enums.h](#).

6.6.2.33 enum EmberAfHueStepMode

Enumerator:

EMBER_ZCL_HUE_STEP_MODE_UP
EMBER_ZCL_HUE_STEP_MODE_DOWN

Definition at line 321 of file [enums.h](#).

6.6.2.34 enum EmberAfSaturationMoveMode

Enumerator:

EMBER_ZCL_SATURATION_MOVE_MODE_STOP
EMBER_ZCL_SATURATION_MOVE_MODE_UP
EMBER_ZCL_SATURATION_MOVE_MODE_DOWN

Definition at line 326 of file [enums.h](#).

6.6.2.35 enum EmberAfSaturationStepMode

Enumerator:

EMBER_ZCL_SATURATION_STEP_MODE_UP
EMBER_ZCL_SATURATION_STEP_MODE_DOWN

Definition at line 332 of file [enums.h](#).

6.6.2.36 enum EmberAfColorMode

Enumerator:

*EMBER_ZCL_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION
 EMBER_ZCL_COLOR_MODE_CURRENT_X_AND_CURRENT_Y
 EMBER_ZCL_COLOR_MODE_COLOR_TEMPERATURE*

Definition at line 337 of file [enums.h](#).

6.6.2.37 enum EmberAfMeasurementLightSensorType

Enumerator:

*EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_PHOTODIODE
 EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_CMOS*

Definition at line 343 of file [enums.h](#).

6.6.2.38 enum EmberAfLevelStatus

Enumerator:

*EMBER_ZCL_LEVEL_STATUS_ON_TARGET
 EMBER_ZCL_LEVEL_STATUS_BELOW_TARGET
 EMBER_ZCL_LEVEL_STATUS_ABOVE_TARGET*

Definition at line 348 of file [enums.h](#).

6.6.2.39 enum EmberAfSensingLightSensorType

Enumerator:

*EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_PHOTODIODE
 EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_CMOS*

Definition at line 354 of file [enums.h](#).

6.6.2.40 enum EmberAfOccupancySensorType

Enumerator:

*EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR
 EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_ULTRASONIC
 EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR_AND_ULTRASONIC*

Definition at line 359 of file [enums.h](#).

6.6.2.41 enum EmberAfIasZoneState

Enumerator:

EMBER_ZCL_IAS_ZONE_STATE_NOT_ENROLLED
EMBER_ZCL_IAS_ZONE_STATE_ENROLLED

Definition at line 365 of file [enums.h](#).

6.6.2.42 enum EmberAfIasZoneType

Enumerator:

EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_CIE
EMBER_ZCL_IAS_ZONE_TYPE_MOTION_SENSOR
EMBER_ZCL_IAS_ZONE_TYPE_CONTACT_SWITCH
EMBER_ZCL_IAS_ZONE_TYPE_FIRE_SENSOR
EMBER_ZCL_IAS_ZONE_TYPE_WATER_SENSOR
EMBER_ZCL_IAS_ZONE_TYPE_GAS_SENSOR
EMBER_ZCL_IAS_ZONE_TYPE_PERSONAL_EMERGENCY_DEVICE
EMBER_ZCL_IAS_ZONE_TYPE_VIBRATION_MOVEMENT_SENSOR
EMBER_ZCL_IAS_ZONE_TYPE_REMOTE_CONTROL
EMBER_ZCL_IAS_ZONE_TYPE_KEY_FOB
EMBER_ZCL_IAS_ZONE_TYPE_KEYPAD
EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_WARNING_DEVICE

Definition at line 370 of file [enums.h](#).

6.6.2.43 enum EmberAfIasEnrollResponseCode

Enumerator:

EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_SUCCESS
EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NOT_SUPPORTED
EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NO_ENROLL_PERMIT
EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_TOO_MANY_ZONES

Definition at line 385 of file [enums.h](#).

6.6.2.44 enum EmberAfIasAceArmMode

Enumerator:

EMBER_ZCL_IAS_ACE_ARM_MODE_DISARM
EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_DAY_HOME_ZONES_ONLY
EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_NIGHT_SLEEP_ZONES_ONLY
EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_ALL_ZONES

Definition at line 392 of file [enums.h](#).

6.6.2.45 enum EmberAfIasAceArmNotification

Enumerator:

```
EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_DISARMED
EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_DAY_HOME_ZONES_ARMED
EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_NIGHT_SLEEP_ZONES_ARMED
EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_ARMED
```

Definition at line [399](#) of file `enums.h`.

6.6.2.46 enum EmberAfWarningMode

Enumerator:

```
EMBER_ZCL_WARNING_MODE_STOP
EMBER_ZCL_WARNING_MODE_BURGLAR
EMBER_ZCL_WARNING_MODE_FIRE
EMBER_ZCL_WARNING_MODE_EMERGENCY
```

Definition at line [406](#) of file `enums.h`.

6.6.2.47 enum EmberAfWarningStobe

Enumerator:

```
EMBER_ZCL_WARNING_STOBE_NO_STROBE
EMBER_ZCL_WARNING_STOBE_USE_STROBE
```

Definition at line [413](#) of file `enums.h`.

6.6.2.48 enum EmberAfSquawkMode

Enumerator:

```
EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_ARMED
EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_DISARMED
```

Definition at line [418](#) of file `enums.h`.

6.6.2.49 enum EmberAfSquawkStobe

Enumerator:

```
EMBER_ZCL_SQUAWK_STOBE_NO_STROBE
EMBER_ZCL_SQUAWK_STOBE_USE_STROBE
```

Definition at line [423](#) of file `enums.h`.

6.6.2.50 enum EmberAfSquawkLevel

Enumerator:

```
EMBER_ZCL_SQUAWK_LEVEL_LOW_LEVEL
EMBER_ZCL_SQUAWK_LEVEL_MEDIUM_LEVEL
EMBER_ZCL_SQUAWK_LEVEL VERY_HIGH_LEVEL
```

Definition at line 428 of file [enums.h](#).

6.6.2.51 enum EmberAfAmiCriticalityLevel

Enumerator:

```
EMBER_ZCL_AMI_CRITICALITY_LEVEL_RESERVED
EMBER_ZCL_AMI_CRITICALITY_LEVEL_GREEN
EMBER_ZCL_AMI_CRITICALITY_LEVEL_1
EMBER_ZCL_AMI_CRITICALITY_LEVEL_2
EMBER_ZCL_AMI_CRITICALITY_LEVEL_3
EMBER_ZCL_AMI_CRITICALITY_LEVEL_4
EMBER_ZCL_AMI_CRITICALITY_LEVEL_5
EMBER_ZCL_AMI_CRITICALITY_LEVEL_EMERGENCY
EMBER_ZCL_AMI_CRITICALITY_LEVEL_PLANNED_OUTAGE
EMBER_ZCL_AMI_CRITICALITY_LEVEL_SERVICE_DISCONNECT
EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED1
EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED2
EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED3
EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED4
EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED5
EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED6
```

Definition at line 434 of file [enums.h](#).

6.6.2.52 enum EmberAfAmiEventStatus

Enumerator:

```
EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_RX
EMBER_ZCL_AMI_EVENT_STATUS_EVENT_STARTED
EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED
EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOOSE_TO_OPT_OUT
EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOOSE_TO_OPT_IN
EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_CANCELED
EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_SUPERSEDED
EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETED_WITH_USER_OPT_OUT
```

EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETED_DUE_TO_USER_OPT_IN
EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED_NO_USER_PARTICIPATION_PREVIOUS_OPT_OUT
EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND
EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND_INVALID_EFFECTIVE_TIME
EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_EVENT_EXPIRED
EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_UNDEFINED_EVENT
EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_REJECTED

Definition at line 453 of file [enums.h](#).

6.6.2.53 enum EmberAfAmiUnitOfMeasure

Enumerator:

EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS
EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR
EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GAUGE
EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE
EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND
EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS
EMBER_ZCL_AMI_UNIT_OF_MEASURE_MJ_OR_MJ_PER_SECOND
EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GUAGE_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS_BCD
EMBER_ZCL_AMI_UNIT_OF_MEASURE_MJ_OR_MJ_PER_SECOND_BCD

Definition at line 471 of file [enums.h](#).

6.6.2.54 enum EmberAfAmiIntervalPeriod

Enumerator:

```
EMBER_ZCL_AMI_INTERVAL_PERIOD_DAILY
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES60
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES30
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES15
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES10
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES7P5
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES5
EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES2P5
```

Definition at line 500 of file [enums.h](#).

6.6.2.55 enum EmberAfAmiIntervalChannel

Enumerator:

```
EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_DELIVERED
EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_RECEIVED
```

Definition at line 511 of file [enums.h](#).

6.6.2.56 enum EmberAfAmiRegistrationState

Enumerator:

```
EMBER_ZCL_AMI_REGISTRATION_STATE_UNREGISTERED
EMBER_ZCL_AMI_REGISTRATION_STATE_JOINING_NETWORK
EMBER_ZCL_AMI_REGISTRATION_STATE_JOINED_NETWORK
EMBER_ZCL_AMI_REGISTRATION_STATE_SUBMITTED_REGISTRATION_REQUEST
EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTRATION_REJECTED
EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTERED
EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTRATION_NOT_POSSIBLE
```

Definition at line 516 of file [enums.h](#).

6.6.2.57 enum EmberAfAnonymousDataState

Enumerator:

```
EMBER_ZCL_ANONYMOUS_DATA_STATE_NO_SOURCE_FOUND
EMBER_ZCL_ANONYMOUS_DATA_STATE_SOURCE_FOUND
```

Definition at line 526 of file [enums.h](#).

6.6.2.58 enum EmberAfPriceTier

Enumerator:

*EMBER_ZCL_PRICE_TIER_NO_TIER RELATED
 EMBER_ZCL_PRICE_TIER_TIER1_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER2_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER3_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER4_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER5_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER6_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER7_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER8_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER9_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER10_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER11_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER12_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER13_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER14_PRICE_LABEL
 EMBER_ZCL_PRICE_TIER_TIER15_PRICE_LABEL*

Definition at line 531 of file [enums.h](#).

6.6.2.59 enum EmberAfPriceControlAcknowledgement

Enumerator:

*EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMENT_NOT_REQUIRED
 EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMENT_REQUIRED*

Definition at line 550 of file [enums.h](#).

6.6.2.60 enum EmberAfRegisterTier

Enumerator:

*EMBER_ZCL_REGISTER_TIER_NO_TIER RELATED
 EMBER_ZCL_REGISTER_TIER_CURRENT_TIER1_SUMMATION_DELIVERED_ATTRIBUTE
 EMBER_ZCL_REGISTER_TIER_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE
 EMBER_ZCL_REGISTER_TIER_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE
 EMBER_ZCL_REGISTER_TIER_CURRENT_TIER4_SUMMATION_DELIVERED_ATTRIBUTE
 EMBER_ZCL_REGISTER_TIER_CURRENT_TIER5_SUMMATION_DELIVERED_ATTRIBUTE*

EMBER_ZCL_REGISTER_TIER_CURRENT_TIER6_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER7_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER8_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER9_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE
EMBER_ZCL_REGISTER_TIER_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE

Definition at line [555](#) of file `enums.h`.

6.6.2.61 enum EmberAfAlternateCostUnit

Enumerator:

EMBER_ZCL_ALTERNATE_COST_UNIT_KG_OF_CO2_PER_UNIT_OF_MEASURE

Definition at line [574](#) of file `enums.h`.

6.6.2.62 enum EmberAfAmiKeyEstablishmentStatus

Enumerator:

EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_SUCCESS
EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNKNOWN_ISSUER
EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_KEY_CONFIRM
EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_MESSAGE
EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_NO_RESOURCES
EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNSUPPORTED_SUITE

Definition at line [578](#) of file `enums.h`.

6.6.2.63 enum EmberAfAmiGetProfileStatus

Enumerator:

```
EMBER_ZCL_AMI_GET_PROFILE_STATUS_SUCCESS
EMBER_ZCL_AMI_GET_PROFILE_STATUS_UNDEFINED_INTERVAL_CHANNEL_REQUESTED

EMBER_ZCL_AMI_GET_PROFILE_STATUS_INTERVAL_CHANNEL_NOT_SUPPORTED
EMBER_ZCL_AMI_GET_PROFILE_STATUS_INVALID_END_TIME
EMBER_ZCL_AMI_GET_PROFILE_STATUS_MORE_PERIODS_REQUESTED_THAN_CAN_BE_RETURNED

EMBER_ZCL_AMI_GET_PROFILE_STATUS_NO_INTERVALS_AVAILABLE_FOR_THE_REQUESTED_TIME
```

Definition at line 587 of file [enums.h](#).

6.6.2.64 enum EmberAfAttributeWritePermission

Enumerator:

```
EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_DENY_WRITE
EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_ALLOW_WRITE_NORMAL
EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_ALLOW_WRITE_OF_READ_ONLY
```

Definition at line 596 of file [enums.h](#).

6.6.2.65 enum EmberAfMeterDeviceType

Enumerator:

```
EMBER_ZCL_METER_DEVICE_TYPE_ELECTRIC_METER
EMBER_ZCL_METER_DEVICE_TYPE_GAS_METER
EMBER_ZCL_METER_DEVICE_TYPE_WATER_METER
EMBER_ZCL_METER_DEVICE_TYPE_THERMAL_METER
EMBER_ZCL_METER_DEVICE_TYPE_PRESSURE_METER
EMBER_ZCL_METER_DEVICE_TYPE_HEAT_METER
EMBER_ZCL_METER_DEVICE_TYPE_COOLING_METER
EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_GAS_METER
EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_WATER_METER
EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_THERMAL_METER
EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_PRESSURE_METER
EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_HEAT_METER
EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_COOLING_METER
EMBER_ZCL_METER_DEVICE_TYPE_UNDEFINED_MIRROR_METER
```

Definition at line 602 of file [enums.h](#).

6.6.2.66 enum EmberAfTunnelingProtocolId

Enumerator:

```
EMBER_ZCL_TUNNELING_PROTOCOL_ID_DLMS_COSEM
EMBER_ZCL_TUNNELING_PROTOCOL_ID_IEC_61107
EMBER_ZCL_TUNNELING_PROTOCOL_ID_ANSI_C12
EMBER_ZCL_TUNNELING_PROTOCOL_ID_M_BUS
EMBER_ZCL_TUNNELING_PROTOCOL_ID_SML
EMBER_ZCL_TUNNELING_PROTOCOL_ID_CLIMATE_TALK
EMBER_ZCL_TUNNELING_PROTOCOL_ID_TEST
```

Definition at line 619 of file [enums.h](#).

6.6.2.67 enum EmberAfTunnelingTransferDataStatus

Enumerator:

```
EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_NO SUCH TUNNEL
EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_WRONG DEVICE
EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_DATA_OVERFLOW
```

Definition at line 629 of file [enums.h](#).

6.6.2.68 enum EmberAfTunnelingTunnelStatus

Enumerator:

```
EMBER_ZCL_TUNNELING_TUNNEL_STATUS_SUCCESS
EMBER_ZCL_TUNNELING_TUNNEL_STATUS_BUSY
EMBER_ZCL_TUNNELING_TUNNEL_STATUS_NO MORE TUNNEL IDS
EMBER_ZCL_TUNNELING_TUNNEL_STATUS_PROTOCOL NOT SUPPORTED
EMBER_ZCL_TUNNELING_TUNNEL_STATUS_FLOW CONTROL NOT SUPPORTED
```

Definition at line 635 of file [enums.h](#).

6.6.2.69 enum EmberAfPrepaymentRecoveryPeriod

Enumerator:

```
EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_HOUR
EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_DAY
EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_WEEK
EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_MONTH
EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_QUARTER
```

Definition at line 643 of file [enums.h](#).

6.6.2.70 enum EmberAfPrepaymentOriginatingDevice

Enumerator:

EMBER_ZCL_PREPAYMENT_ORIGINATING_DEVICE_ENERGY_SERVICE_INTERFACE

EMBER_ZCL_PREPAYMENT_ORIGINATING_DEVICE_IN_PREMISES_DISPLAY_DEVICE

Definition at line 651 of file [enums.h](#).

6.6.2.71 enum EmberAfPrepaymentSupplyStatus

Enumerator:

EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF

EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF_ARMED

EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_ON

Definition at line 656 of file [enums.h](#).

6.6.2.72 enum EmberAfReportingDirection

Enumerator:

EMBER_ZCL_REPORTING_DIRECTION_REPORTED

EMBER_ZCL_REPORTING_DIRECTION RECEIVED

Definition at line 662 of file [enums.h](#).

6.6.2.73 enum EmberAfSignatureType

Enumerator:

EMBER_ZCL_SIGNATURE_TYPE_RESERVED

EMBER_ZCL_SIGNATURE_TYPE_ECDSA

Definition at line 667 of file [enums.h](#).

6.6.2.74 enum EmberAfPowerProfileState

Enumerator:

EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_WAITING_TO_START

EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_STARTED

EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_RUNNING

EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_ENDED

EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_WAITING_TO_START

EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_STARTED

EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_ENDED

EMBER_ZCL_POWER_PROFILE_STATE_PROFILE_READY_FOR_SCHEDULING
EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_SCHEDULED

Definition at line [672](#) of file [enums.h](#).

6.6.2.75 enum EmberAfApplianceStatus

Enumerator:

EMBER_ZCL_APPLIANCE_STATUS_OFF
EMBER_ZCL_APPLIANCE_STATUS_STAND_BY
EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED
EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED_WAITING_TO_START
EMBER_ZCL_APPLIANCE_STATUS_RUNNING
EMBER_ZCL_APPLIANCE_STATUS_PAUSE
EMBER_ZCL_APPLIANCE_STATUS_END_PROGRAMMED
EMBER_ZCL_APPLIANCE_STATUS_FAILURE
EMBER_ZCL_APPLIANCE_STATUS_PROGRAMME_INTERRUPTED
EMBER_ZCL_APPLIANCE_STATUS_IDLE
EMBER_ZCL_APPLIANCE_STATUS_RINSE_HOLD
EMBER_ZCL_APPLIANCE_STATUS_SERVICE
EMBER_ZCL_APPLIANCE_STATUS_SUPERFREEZING
EMBER_ZCL_APPLIANCE_STATUS_SUPERCOOLING
EMBER_ZCL_APPLIANCE_STATUS_SUPERHEATING

Definition at line [684](#) of file [enums.h](#).

6.6.2.76 enum EmberAfRemoteEnableFlags

Enumerator:

EMBER_ZCL_REMOTE_ENABLE_FLAGS_DISABLED
EMBER_ZCL_REMOTE_ENABLE_FLAGS_TEMPORARILY_LOCKED_DISABLED
EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_CONTROL
EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_AND_ENERGY_CONTROL

Definition at line [702](#) of file [enums.h](#).

6.6.2.77 enum EmberAfDeviceStatus2Structure

Enumerator:

EMBER_ZCL_DEVICE_STATUS2_STRUCTURE_IRIS_SYMPTOM_CODE

Definition at line [709](#) of file [enums.h](#).

6.6.2.78 enum EmberAfTimeEncoding

Enumerator:

*EMBER_ZCL_TIME_ENCODING_RELATIVE
EMBER_ZCL_TIME_ENCODING_ABSOLUTE*

Definition at line [713](#) of file `enums.h`.

6.6.2.79 enum EmberAfCommandIdentification

Enumerator:

*EMBER_ZCL_COMMAND_IDENTIFICATION_START
EMBER_ZCL_COMMAND_IDENTIFICATION_STOP
EMBER_ZCL_COMMAND_IDENTIFICATION_PAUSE
EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERFREEZING
EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERFREEZING
EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERCOOLING
EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERCOOLING
EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_GAS
EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_GAS
EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_ENERGY_CONTROL
EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_ENERGY_CONTROL*

Definition at line [718](#) of file `enums.h`.

6.6.2.80 enum EmberAfWarningEvent

Enumerator:

*EMBER_ZCL_WARNING_EVENT_WARNING1_OVERALL_POWER_ABOVE_AVAILABLE_POWER_LEVEL
EMBER_ZCL_WARNING_EVENT_WARNING2_OVERALL_POWER_ABOVE_POWER_THRESHOLD_LEVEL
EMBER_ZCL_WARNING_EVENT_WARNING3_OVERALL_POWER_BACK_BELOW_THE_AVAILABLE_POWER_LEVEL
EMBER_ZCL_WARNING_EVENT_WARNING4_OVERALL_POWER_BACK_BELOW_THE_POWER_THRESHOLD_LEVEL
EMBER_ZCL_WARNING_EVENT_WARNING5_OVERALL_POWER_WILL_BE_POTENTIALLY_ABOVE_AVAILABLE_POWER_LEVEL*

Definition at line [732](#) of file `enums.h`.

6.6.2.81 enum EmberAfSilentMode

Enumerator:

- EMBER_ZCL_SILENT_MODE_SILENT*
- EMBER_ZCL_SILENT_MODE_LOW*
- EMBER_ZCL_SILENT_MODE_HIGH*

Definition at line 740 of file [enums.h](#).

6.6.2.82 enum EmberAfDoorLockOperatingMode

Enumerator:

- EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NORMAL_MODE*
- EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_VACATION_MODE*
- EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_PRIVACY_MODE*
- EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NO_RF_LOCK_OR_UNLOCK*

Definition at line 746 of file [enums.h](#).

6.6.2.83 enum EmberAfLanguage

Enumerator:

- EMBER_ZCL_LANGUAGE_ENGLISH*
- EMBER_ZCL_LANGUAGE_FRENCH*
- EMBER_ZCL_LANGUAGE_SPANISH*

Definition at line 753 of file [enums.h](#).

6.6.2.84 enum EmberAfDayOfWeek

Enumerator:

- EMBER_ZCL_DAY_OF_WEEK_SUNDAY*
- EMBER_ZCL_DAY_OF_WEEK_MONDAY*
- EMBER_ZCL_DAY_OF_WEEK_TUESDAY*
- EMBER_ZCL_DAY_OF_WEEK_WEDNESDAY*
- EMBER_ZCL_DAY_OF_WEEK_THURSDAY*
- EMBER_ZCL_DAY_OF_WEEK_FRIDAY*
- EMBER_ZCL_DAY_OF_WEEK_SATURDAY*

Definition at line 759 of file [enums.h](#).

6.6.2.85 enum EmberAfUserStatus

Enumerator:

EMBER_ZCL_USER_STATUS_AVAILABLE
EMBER_ZCL_USER_STATUS_OCCUPIED_ENABLED
EMBER_ZCL_USER_STATUS_OCCUPIED_DISABLED
EMBER_ZCL_USER_STATUS_SUPERVISOR_GROUP_DISABLED
EMBER_ZCL_USER_STATUS_GROUP_ONLY_DISABLED

Definition at line [769](#) of file [enums.h](#).

6.6.2.86 enum EmberAfSlotStatus

Enumerator:

EMBER_ZCL_SLOT_STATUS_DISABLE
EMBER_ZCL_SLOT_STATUS_ENABLE

Definition at line [777](#) of file [enums.h](#).

6.6.2.87 enum EmberAfLockMode

Enumerator:

EMBER_ZCL_LOCK_MODE_UNLOCKED
EMBER_ZCL_LOCK_MODE_UNLOCKED_WITH_RELOCK_PENDING
EMBER_ZCL_LOCK_MODE_LOCKED

Definition at line [782](#) of file [enums.h](#).

6.6.2.88 enum EmberAfBoltCondition

Enumerator:

EMBER_ZCL_BOLT_CONDITION_RETRACTED
EMBER_ZCL_BOLT_CONDITION_EXTENDED

Definition at line [788](#) of file [enums.h](#).

6.6.2.89 enum EmberAfHandleCondition

Enumerator:

EMBER_ZCL_HANDLE_CONDITION_UNKNOWN

Definition at line [793](#) of file [enums.h](#).

6.6.2.90 enum EmberAfEventType

Enumerator:

```
EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_LOCK_COMMAND
EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_UNLOCK_COMMAND
EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_LOCK_BUTTON_PRESSED
EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_UNLOCK_BUTTON_PRESSED
EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE
EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE
EMBER_ZCL_EVENT_TYPE_KEYPAD_ILLEGAL_ACCESS_CODE_ENTERED
EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_LOCKED_MANUAL
EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_UNLOCKED_MANUAL
EMBER_ZCL_EVENT_TYPE_AUTO_LOCK_OPERATION
EMBER_ZCL_EVENT_TYPE_AUTO_UNLOCK_OPERATION
EMBER_ZCL_EVENT_TYPE_LOCK_SECURED
EMBER_ZCL_EVENT_TYPE_LOCK_UNSECURED
EMBER_ZCL_EVENT_TYPE_USER_CODE_ADDED
EMBER_ZCL_EVENT_TYPE_USER_CODE_DELETED
EMBER_ZCL_EVENT_TYPE_ALL_USER_CODES_DELETED
EMBER_ZCL_EVENT_TYPE_MASTER_CODE_CHANGED
EMBER_ZCL_EVENT_TYPE_USER_CODE_CHANGED
EMBER_ZCL_EVENT_TYPE_LOCK_RESET
EMBER_ZCL_EVENT_TYPE_CONFIGURATION_CHANGED
EMBER_ZCL_EVENT_TYPE_LOW_BATTERY
EMBER_ZCL_EVENT_TYPE_NEW_BATTERY_INSTALLED
```

Definition at line [797](#) of file [enums.h](#).

6.6.2.91 enum EmberAfThermostatRunningMode

Enumerator:

```
EMBER_ZCL_THERMOSTAT_RUNNING_MODE_OFF
EMBER_ZCL_THERMOSTAT_RUNNING_MODE_COOL
EMBER_ZCL_THERMOSTAT_RUNNING_MODE_HEAT
```

Definition at line [822](#) of file [enums.h](#).

6.6.2.92 enum EmberAfStartOfWeek

Enumerator:

```
EMBER_ZCL_START_OF_WEEK_SUNDAY
EMBER_ZCL_START_OF_WEEK_MONDAY
EMBER_ZCL_START_OF_WEEK_TUESDAY
EMBER_ZCL_START_OF_WEEK_WEDNESDAY
EMBER_ZCL_START_OF_WEEK_THURSDAY
EMBER_ZCL_START_OF_WEEK_FRIDAY
EMBER_ZCL_START_OF_WEEK_SATURDAY
```

Definition at line [828](#) of file `enums.h`.

6.6.2.93 enum EmberAfTemperatureSetpointHold

Enumerator:

```
EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_OFF
EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_ON
```

Definition at line [838](#) of file `enums.h`.

6.6.2.94 enum EmberAfProductTypeId

Enumerator:

```
EMBER_ZCL_PRODUCT_TYPE_ID_WHITE_GOODS
EMBER_ZCL_PRODUCT_TYPE_ID_DISHWASHER
EMBER_ZCL_PRODUCT_TYPE_ID_TUMBLE_DRYER
EMBER_ZCL_PRODUCT_TYPE_ID_WASHER_DRYER
EMBER_ZCL_PRODUCT_TYPE_ID_WASHING_MACHINE
EMBER_ZCL_PRODUCT_TYPE_ID_HOBS
EMBER_ZCL_PRODUCT_TYPE_ID_INDUCTION_HOBS
EMBER_ZCL_PRODUCT_TYPE_ID_OVEN
EMBER_ZCL_PRODUCT_TYPE_ID_ELECTRICAL_OVEN
EMBER_ZCL_PRODUCT_TYPE_ID_REFRIGERATOR_FREEZER
```

Definition at line [843](#) of file `enums.h`.

6.6.2.95 enum EmberAfCecedSpecificationVersion

Enumerator:

```
EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_NOT_CERTIFIED
EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_CERTIFIED
```

Definition at line [856](#) of file `enums.h`.

6.6.2.96 enum EmberAfMeterTypeId

Enumerator:

```
EMBER_ZCL_METER_TYPE_ID.Utility_Primary_Meter
EMBER_ZCL_METER_TYPE_ID.Utility_Production_Meter
EMBER_ZCL_METER_TYPE_ID.Utility_Secondary_Meter
EMBER_ZCL_METER_TYPE_ID.Private_Primary_Meter
EMBER_ZCL_METER_TYPE_ID.Private_Production_Meter
EMBER_ZCL_METER_TYPE_ID.Private_Secondary_Meters
EMBER_ZCL_METER_TYPE_ID.Generic_Meter
```

Definition at line 861 of file [enums.h](#).

6.6.2.97 enum EmberAfDataQualityId

Enumerator:

```
EMBER_ZCL_Data_Quality_Id.All_Data_Certified
EMBER_ZCL_Data_Quality_Id.Only_Instantaneous_Power_Not_Certified

EMBER_ZCL_Data_Quality_Id.Only_Cumulated_Consumption_Not_Certified

EMBER_ZCL_Data_Quality_Id.Not_Certified_Data
```

Definition at line 871 of file [enums.h](#).

6.6.2.98 enum EmberAfAlertStructureCategory

Enumerator:

```
EMBER_ZCL_Alert_Structure_Category.Warning
EMBER_ZCL_Alert_Structure_Category.Danger
EMBER_ZCL_Alert_Structure_Category.Failure
```

Definition at line 878 of file [enums.h](#).

6.6.2.99 enum EmberAfAlertStructurePresenceRecovery

Enumerator:

```
EMBER_ZCL_Alert_Structure_Presence_Recovery.Presence
EMBER_ZCL_Alert_Structure_Presence_Recovery.Recovery
```

Definition at line 884 of file [enums.h](#).

6.6.2.100 enum EmberAfAlertCountType

Enumerator:

EMBER_ZCL_ALERT_COUNT_TYPE_UNSTRUCTURED

Definition at line 889 of file [enums.h](#).

6.6.2.101 enum EmberAfEventIdentification

Enumerator:

*EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_CYCLE
 EMBER_ZCL_EVENT_IDENTIFICATION_TEMPERATURE_REACHED
 EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_COOKING
 EMBER_ZCL_EVENT_IDENTIFICATION_SWITCHING_OFF
 EMBER_ZCL_EVENT_IDENTIFICATION_WRONG_DATA*

Definition at line 893 of file [enums.h](#).

6.6.2.102 enum EmberAfIdentifyEffectIdentifier

Enumerator:

*EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BLINK
 EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BREATHE
 EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_OKAY
 EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_CHANNEL_CHANGE
 EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_FINISH_EFFECT
 EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_STOP_EFFECT*

Definition at line 901 of file [enums.h](#).

6.6.2.103 enum EmberAfIdentifyEffectVariant

Enumerator:

EMBER_ZCL_IDENTIFY_EFFECT_VARIANT_DEFAULT

Definition at line 910 of file [enums.h](#).

6.6.2.104 enum EmberAfOnOffEffectIdentifier

Enumerator:

*EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DELAYED_ALL_OFF
 EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DYING_LIGHT*

Definition at line 914 of file [enums.h](#).

6.6.2.105 enum EmberAfOnOffDelayedAllOffEffectVariant

Enumerator:

EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_FADE_TO_OFF_IN_0P8_SECONDS

EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_NO_FADE

EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_50_PERCENT_DIM_DOWN_IN_0P8_SECONDS

Definition at line 919 of file [enums.h](#).

6.6.2.106 enum EmberAfOnOffDyingLightEffectVariant

Enumerator:

EMBER_ZCL_ON_OFF_DYING_LIGHT_EFFECT_VARIANT_20_PERCENTER_DIM_UP_IN_0P5_SECONDS_THE

Definition at line 925 of file [enums.h](#).

6.6.2.107 enum EmberAfEnhancedColorMode

Enumerator:

EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION

EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_X_AND_CURRENT_Y

EMBER_ZCL_ENHANCED_COLOR_MODE_COLOR_TEMPERATURE

EMBER_ZCL_ENHANCED_COLOR_MODE_ENHANCED_CURRENT_HUE_AND_CURRENT_SATURATION

Definition at line 929 of file [enums.h](#).

6.6.2.108 enum EmberAfColorLoopAction

Enumerator:

EMBER_ZCL_COLOR_LOOP_ACTION_DEACTIVATE

EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_COLOR_LOOP_START_ENHANCED_HUE

EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_ENHANCED_CURRENT_HUE

Definition at line 936 of file [enums.h](#).

6.6.2.109 enum EmberAfColorLoopDirection

Enumerator:

EMBER_ZCL_COLOR_LOOP_DIRECTION_DECREMENT_HUE

EMBER_ZCL_COLOR_LOOP_DIRECTION_INCREMENT_HUE

Definition at line [942](#) of file `enums.h`.

6.6.2.110 enum EmberAfZigbeeInformationLogicalType

Enumerator:

*EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_COORDINATOR
 EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_ROUTER
 EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_END_DEVICE*

Definition at line [947](#) of file `enums.h`.

6.6.2.111 enum EmberAfKeyIndex

Enumerator:

*EMBER_ZCL_KEY_INDEX_DEVELOPMENT
 EMBER_ZCL_KEY_INDEX_MASTER
 EMBER_ZCL_KEY_INDEX_CERTIFICATION*

Definition at line [953](#) of file `enums.h`.

6.6.2.112 enum EmberAfDeviceInformationRecordSort

Enumerator:

*EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_NOT_SORTED
 EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_TOP_OF_THE_LIST*

Definition at line [959](#) of file `enums.h`.

6.6.2.113 enum EmberAfZllStatus

Enumerator:

*EMBER_ZCL_ZLL_STATUS_SUCCESS
 EMBER_ZCL_ZLL_STATUS_FAILURE*

Definition at line [964](#) of file `enums.h`.

6.7 Ember Application Framework Command Line Interface (CLI)

Modules

- Cluster Commands: BACnet Protocol Tunnel
- Cluster Commands: Basic
- Cluster Commands: Color Control
- Cluster Commands: Demand Response and Load Control
- Cluster Commands: Door Lock
- Cluster Commands: Generic Tunnel
- Cluster Commands: Groups
- Cluster Commands: IAS ACE
- Cluster Commands: IAS Zone
- Cluster Commands: Identify
- Cluster Commands: Level Control
- Cluster Commands: Messaging
- Cluster Commands: On/off
- Cluster Commands: Price
- Cluster Commands: Scenes
- Cluster Commands: Simple Metering
- Cluster Commands: Thermostat
- Cluster Commands: Tunneling
- Attribute Management
- Building and Sending Messages
- General
- Global ZCL
- Informational
- Network
- Plugin Commands: Reporting
- Plugin Commands: Tunneling Client
- Plugin Commands: Tunneling Server
- Plugin Commands: ZigBee Link Light (ZLL) Commissioning
- Security
- Test Harness
- ZigBee Network Management Commands (ZDO)
- Cluster Commands: Over the Air Bootloading Cluster

6.7.1 Detailed Description

This header provides cli command function prototypes for the Application Framework's core ZigBee - Cluster Library implementation.

6.8 Cluster Commands: BACnet Protocol Tunnel

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_RANDOM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_OPTION_BACNET_BACNET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_IAM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_WHOIS

6.8.1 Detailed Description

This group describes the CLI commands for the BACnet Protocol Tunnel cluster. Listed below is a description of the cluster:

Commands and attributes required to tunnel the BACnet protocol.

6.8.2 Define Documentation

6.8.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_RANDOM

zcl bacnet transfer-npdu random [npdu:1]

- *This command is generated when a BACnet network layer wishes to transfer a BACnet NPDU across a ZigBee tunnel to another BACnet network layer.*
 - npdu - DATA8

Definition at line 34 of file [cli.h](#).

6.8.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_OPTION_BACNET_BACNET

option bacnet bacnet [send:1]

- *Send a sample bacnet npdu. This was used for testing and should be modified for production use.*
 - send - INT8U - If this value is == 1 a bacnet npdu is sent

Definition at line 2015 of file [cli.h](#).

6.8.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_IAM

zcl bacnet transfer-npdu iam [length:1] [endpoint:1]

- *Send a sample iam command. This was used for testing and should be modified for production use.*
 - length - INT8U - Length of the iam command
 - endpoint - INT8U - Endpoint to send the iam command to

Definition at line 2022 of file [cli.h](#).

6.8.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_- ZCL_BACNET_TRANSFER_NPDU_WHOIS

zcl bacnet transfer-npdu whois

- *Send a sample whois command. This was used for testing and should be modified for production use.*

Definition at line 2027 of file [cli.h](#).

6.9 Cluster Commands: Basic

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BASIC_RTFD

6.9.1 Detailed Description

This group describes the CLI commands for the Basic cluster. Listed below is a description of the cluster:

Attributes for determining basic information about a device, setting user device information such as location, and enabling a device.

6.9.2 Define Documentation

6.9.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BASIC_RTFD

zcl basic rtfd

- *Command that resets all attribute values to factory default.*

Definition at line 51 of file [cli.h](#).

6.10 Cluster Commands: Color Control

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVECOLOR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVEHUE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVESAT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLOR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLORT-EMP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOAHUE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOAHUEAND-SAT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOSTAT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_SETPHUE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPCOLOR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPSAT

6.10.1 Detailed Description

This group describes the CLI commands for the Color Control cluster. Listed below is a description of the cluster:

Attributes and commands for controlling the color properties of a color-capable light.

6.10.2 Define Documentation

6.10.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVECOL-OR

zcl colorcontrol movecolor [rateX:2] [rateY:2]

- *Moves the color.*
 - rateX - INT16S
 - rateY - INT16S

Definition at line 69 of file [cli.h](#).

6.10.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVEHUE

zcl colorcontrol movehue [moveMode:1] [rate:1]

- *Command description for MoveHue*
 - moveMode - HueMoveMode [ENUM8]
 - rate - INT8U

See also

[EmberAfHueMoveMode](#)

Definition at line 78 of file [cli.h](#).

6.10.2.3 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVESAT

zcl colorcontrol movesat [moveMode:1] [rate:1]

- *Command description for MoveSaturation*
 - moveMode - SaturationMoveMode [ENUM8]
 - rate - INT8U

See also

[EmberAfSaturationMoveMode](#)

Definition at line 87 of file [cli.h](#).

6.10.2.4 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLOR

zcl colorcontrol movetocolor [colorX:2] [colorY:2] [transitionTime:2]

- *Moves the lighting to a specific color.*
 - colorX - INT16U
 - colorY - INT16U
 - transitionTime - INT16U

Definition at line 95 of file [cli.h](#).

6.10.2.5 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLORTEMP

zcl colorcontrol movetocolortemp [colorTemperature:2] [transitionTime:2]

- *Moves the lighting to a specific color temperature.*
 - colorTemperature - INT16U
 - transitionTime - INT16U

Definition at line 102 of file [cli.h](#).

6.10.2.6 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOHUE

zcl colorcontrol movetohue [hue:1] [direction:1] [transitionTime:2]

- *Command description for MoveToHue*
 - hue - INT8U
 - direction - HueDirection [ENUM8]
 - transitionTime - INT16U

See also

[EmberAfHueDirection](#)

Definition at line 112 of file [cli.h](#).

6.10.2.7 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOH-UEANDSAT

zcl colorcontrol movetohueandsat [hue:1] [saturation:1] [transitionTime:2]

- *Command description for MoveToHueAndSaturation*

- hue - INT8U
- saturation - INT8U
- transitionTime - INT16U

Definition at line 120 of file [cli.h](#).

6.10.2.8 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOSTAT

zcl colorcontrol movetostat [saturation:1] [transitionTime:2]

- *Command description for MoveToSaturation*

- saturation - INT8U
- transitionTime - INT16U

Definition at line 127 of file [cli.h](#).

6.10.2.9 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_SETPHUE

zcl colorcontrol setphue [stepMode:1] [stepSize:1] [transitionTime:1]

- *Command description for StepHue*

- stepMode - HueStepMode [ENUM8]
- stepSize - INT8U
- transitionTime - INT8U

See also

[EmberAfHueStepMode](#)

Definition at line 137 of file [cli.h](#).

6.10.2.10 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPCOLOR

zcl colorcontrol stepcolor [stepX:2] [stepY:2] [transitionTime:2]

- *Steps the lighting to a specific color.*

- stepX - INT16S
- stepY - INT16S
- transitionTime - INT16U

Definition at line 145 of file [cli.h](#).

6.10.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPSAT

zcl colorcontrol stepsat [stepMode:1] [stepSize:1] [transitionTime:1]

- *Command description for StepSaturation*

- stepMode - SaturationStepMode [ENUM8]
- stepSize - INT8U
- transitionTime - INT8U

See also

[EmberAfSaturationStepMode](#)

Definition at line 155 of file [cli.h](#).

6.11 Cluster Commands: Demand Response and Load Control

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CA
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_GSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_LCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_IN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_OUT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SLCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SSLCE

6.11.1 Detailed Description

This group describes the CLI commands for the Demand Response and Load Control cluster. Listed below is a description of the cluster:

This cluster provides an interface to the functionality of Smart Energy Demand Response and Load Control. Devices targeted by this cluster include thermostats and devices that support load control.

6.11.2 Define Documentation

6.11.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CA

zcl drlc ca [cancelControl:1]

- *Command description for CancelAllLoadControlEvents*
 - cancelControl - AmiCancelControl [BITMAP8]

Definition at line 174 of file [cli.h](#).

6.11.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CL

zcl drlc cl [issuerEventId:4] [deviceClass:2] [utilityEnrollmentGroup:1] [cancelControl:1] [effectiveTime:4]

- *Command description for CancelLoadControlEvent*
 - issuerEventId - INT32U

- deviceClass - AmiDeviceClass [BITMAP16]
- utilityEnrollmentGroup - INT8U
- cancelControl - AmiCancelControl [BITMAP8]
- effectiveTime - TIME_OF_DAY

Definition at line 184 of file [cli.h](#).

6.11.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_GSE

zcl drlc gse [startTime:4] [numberOfEvents:1]

- *Command description for GetScheduledEvents*
 - startTime - TIME_OF_DAY
 - numberOfEvents - INT8U

Definition at line 191 of file [cli.h](#).

6.11.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_LCE

zcl drlc lce [eventId:4] [start:4] [duration:2] [event control:1]

- *Populate a buffer to send a static load control event with the following values: all device classes, all uegs, criticality level: normal, 1.1c cooling temp offset, 1.1c heating temp offset, cool temp set point 23.3c, heat temp set point, -10% avg load percent, duty cycle*
 - eventId - INT32U - 4 byte event id for the load control event
 - start - INT32U - Start time for the load control event
 - duration - INT16U - Duration for the load control event
 - event control - INT8U - Control byte for the load control event

Definition at line 2052 of file [cli.h](#).

6.11.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_IN

zcl drlc opt in [eventId:4]

- *Modify the entry in the clients load control event table to opt in for a scheduled load control event.*
 - eventId - INT32U - The event id of the event that the user is opting in or out of.

Definition at line 2058 of file [cli.h](#).

6.11.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_OUT

zcl drlc opt out [eventId:4]

- *Modify the entry in the clients load control event table to opt out of a scheduled load control event.*
 - eventId - INT32U - The event id of the event that the user is opting in or out of.

Definition at line 2064 of file [cli.h](#).

6.11.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SLCE

zcl drlc slce [index:1] [length:1] [event:-1]

- *Schedule a load control event in the load control event table on a load control server. load control event bytes are expected as 23 raw bytes in the form {<eventId:4> <deviceClass:2> >ueg:1> >startTime:4> >duration:2> <criticalityLevel:1> >coolingTempOffset:1> >heatingTempOffset:1> >coolingTempSetPoint:2> >heatingTempSetPoint:2> >afgLoadPercentage:1> <dutyCycle:1> <eventControl:1>} all multibyte values should be little endian as though they were coming over the air. Example: zcl drlc slce 0 23 { ab 00 00 00 ff 0f 00 00 00 00 01 00 01 00 00 09 1a 09 1a 0a 00 }*
 - index - INT8U - Location in the load control event table for the event to be scheduled
 - length - INT8U - The length in the number of bytes
 - event - OCTET_STRING - Byte array value for the load control event

Definition at line 2078 of file [cli.h](#).

6.11.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SSLCE

zcl drlc ssle [index:1]

- *Command used on a DRLC server to send a scheduled load control event out of the load control event table.*
 - index - INT8U - index of the load control event in the server's load control event table.

Definition at line 2084 of file [cli.h](#).

6.12 Cluster Commands: Door Lock

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_LOCK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_UNLOCK

6.12.1 Detailed Description

This group describes the CLI commands for the Door Lock cluster. Listed below is a description of the cluster:

Provides an interface into a generic way to secure a door.

6.12.2 Define Documentation

6.12.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_LOCK

zcl lock lock

- *Locks the door*

Definition at line 207 of file [cli.h](#).

6.12.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_UNLOCK

zcl lock unlock

- *Unlocks the door*

Definition at line 212 of file [cli.h](#).

6.13 Cluster Commands: Generic Tunnel

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_ADVERTISE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_MATCH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_RESPONSE

6.13.1 Detailed Description

This group describes the CLI commands for the Generic Tunnel cluster. Listed below is a description of the cluster:

The minimum common commands and attributes required to tunnel any protocol.

6.13.2 Define Documentation

6.13.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_ADVERTISE

E

zcl tunnel advertise [protocolAddress:-1]

- *This command is typically sent upon startup, and whenever the ProtocolAddress attribute changes. It is typically multicast to a group of inter-communicating Generic Tunnel clusters.*

– protocolAddress - OCTET_STRING

Definition at line 229 of file [cli.h](#).

6.13.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_MATCH

zcl tunnel match [protocolAddress:-1]

- *This command is generated when an application wishes to find the ZigBee address (node, endpoint) of the Generic Tunnel server cluster with a given ProtocolAddress attribute. The command is typically multicast to a group of inter-communicating Generic Tunnel clusters*

– protocolAddress - OCTET_STRING

Definition at line 235 of file [cli.h](#).

6.13.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_RESPONSE

zcl tunnel response [deviceIeeeAddress:8] [protocolAddress:-1]

- *This command is generated upon receipt of a Match Protocol Address command to indicate that the Protocol Address was successfully matched.*

– deviceIeeeAddress - IEEE_ADDRESS
 – protocolAddress - OCTET_STRING

Definition at line 242 of file [cli.h](#).

6.14 Cluster Commands: Groups

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD_IF_ID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_REMOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_RMALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_VIEW

6.14.1 Detailed Description

This group describes the CLI commands for the Groups cluster. Listed below is a description of the cluster:

Attributes and commands for group configuration and manipulation.

6.14.2 Define Documentation

6.14.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD

zcl groups add [groupId:2] [groupName:-1]

- *Command description for AddGroup*
 - groupId - INT16U
 - groupName - CHAR_STRING

Definition at line 260 of file [cli.h](#).

6.14.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD_IF_ID

zcl groups add-if-id [groupId:2] [groupName:-1]

- *Command description for AddGroupIfIdentifying*
 - groupId - INT16U
 - groupName - CHAR_STRING

Definition at line 267 of file [cli.h](#).

6.14.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_GET

zcl groups get [groupCount:1] [groupList:2]

- *Command description for GetGroupMembership*
 - groupCount - INT8U
 - groupList - INT16U

Definition at line 274 of file [cli.h](#).

6.14.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_REMOVE**zcl groups remove [groupId:2]**

- *Command description for RemoveGroup*
 - groupId - INT16U

Definition at line 280 of file [cli.h](#).

6.14.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_RMALL**zcl groups rmall**

- *Command description for RemoveAllGroups*

Definition at line 285 of file [cli.h](#).

6.14.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_VIEW**zcl groups view [groupId:2]**

- *Command description for ViewGroup*
 - groupId - INT16U

Definition at line 291 of file [cli.h](#).

6.15 Cluster Commands: IAS ACE

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_A
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_B
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_E
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_F
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZI
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_P

6.15.1 Detailed Description

This group describes the CLI commands for the IAS ACE cluster. Listed below is a description of the cluster:

Attributes and commands for IAS Ancillary Control Equipment.

6.15.2 Define Documentation

6.15.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_A

zcl ias-ace a [armMode:1]

- *Command description for Arm*
 - armMode - IasAceArmMode [ENUM8]

See also

[EmberAfIasAceArmMode](#)

Definition at line 310 of file [cli.h](#).

6.15.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_B

zcl ias-ace b [numberOfZones:1] [zoneIds:1]

- *Command description for Bypass*
 - numberOfZones - INT8U
 - zoneIds - INT8U

Definition at line 317 of file [cli.h](#).

6.15.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_E

zcl ias-ace e

- *Command description for Emergency*

Definition at line 322 of file [cli.h](#).

6.15.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_F
zcl ias-ace f

- *Command description for Fire*

Definition at line 327 of file [cli.h](#).

6.15.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZI
zcl ias-ace getzi [zoneId:1]

- *Command description for GetZoneInformation*
 - zoneId - INT8U

Definition at line 333 of file [cli.h](#).

6.15.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZM
zcl ias-ace getzm

- *Command description for GetZoneIdMap*

Definition at line 338 of file [cli.h](#).

6.15.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_P
zcl ias-ace p

- *Command description for Panic*

Definition at line 343 of file [cli.h](#).

6.16 Cluster Commands: IAS Zone

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ENROLL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_SC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ZCL_IAS_ZCLIENT_PT

6.16.1 Detailed Description

This group describes the CLI commands for the IAS Zone cluster. Listed below is a description of the cluster:

Attributes and commands for IAS security zone devices.

6.16.2 Define Documentation

6.16.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ENROLL

zcl ias-zone enroll [zoneType:2] [manufacturerCode:2]

- *Command description for zoneEnrollRequest*
 - zoneType - IasZoneType [ENUM16]
 - manufacturerCode - INT16U

See also

[EmberAfIasZoneType](#)

Definition at line 363 of file [cli.h](#).

6.16.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_SC

zcl ias-zone sc [zoneStatus:2] [extendedStatus:1]

- *Command description for zoneStatusChangeNotification*
 - zoneStatus - IasZoneStatus [BITMAP16]
 - extendedStatus - ENUM8

Definition at line 370 of file [cli.h](#).

6.16.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ZCL_IAS_ZCLIENT_PT

zcl ias-zclient pt

- *Print the zone table*

Definition at line 2100 of file [cli.h](#).

6.17 Cluster Commands: Identify

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_QUERY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_TRIGGER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ZCL_IDENTIFY_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ZCL_IDENTIFY_ON

6.17.1 Detailed Description

This group describes the CLI commands for the Identify cluster. Listed below is a description of the cluster:
Attributes and commands for putting a device into Identification mode (e.g. flashing a light).

6.17.2 Define Documentation

6.17.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ID

zcl identify id [identifyTime:2]

- *Command description for Identify*
 - identifyTime - INT16U

Definition at line 387 of file [cli.h](#).

6.17.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_QUERY

zcl identify query

- *Command description for IdentifyQuery*

Definition at line 392 of file [cli.h](#).

6.17.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_TRIGGER

zcl identify trigger [effectId:1] [effectVariant:1]

- *Command description for TriggerEffect*
 - effectId - IdentifyEffectIdentifier [ENUM8]
 - effectVariant - IdentifyEffectVariant [ENUM8]

See also

[EmberAfIdentifyEffectIdentifier](#) [EmberAfIdentifyEffectVariant](#)

Definition at line 402 of file [cli.h](#).

6.17.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTITY_ZCL_IDENTITY_OFF
zcl identify off [endpoint:1]

- *Creates a message payload for a command that turns identifying off on a given endpoint.*
 - endpoint - INT8U - The endpoint on which to stop identifying

Definition at line 2117 of file [cli.h](#).

6.17.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTITY_ZCL_IDENTITY_ON
zcl identify on [endpoint:1] [time:2]

- *Creates the payload for an over the air message that turns identifying on for a given endpoint and a given amount of time*
 - endpoint - INT8U - The endpoint on the device which should begin identifying
 - time - INT16U - The number of seconds to spend identifying

Definition at line 2124 of file [cli.h](#).

6.18 Cluster Commands: Level Control

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MV_TO_LEVEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MV_TO_LEVEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STEP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STEP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STOP

6.18.1 Detailed Description

This group describes the CLI commands for the Level Control cluster. Listed below is a description of the cluster:

Attributes and commands for controlling devices that can be set to a level between fully 'On' and fully 'Off.'

6.18.2 Define Documentation

6.18.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MOVE

zcl level-control move [moveMode:1] [rate:1]

- *Command description for Move*
 - moveMode - MoveMode [ENUM8]
 - rate - INT8U

See also

[EmberAfMoveMode](#)

Definition at line 423 of file [cli.h](#).

6.18.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MV_TO_LEVEL

zcl level-control mv-to-level [level:1] [transitionTime:2]

- *Command description for MoveToLevel*
 - level - INT8U
 - transitionTime - INT16U

Definition at line 430 of file [cli.h](#).

6.18.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MOVE**zcl level-control o-move [moveMode:1] [rate:1]**

- *Command description for MoveWithOnOff*

- moveMode - MoveMode [ENUM8]
- rate - INT8U

See also[EmberAfMoveMode](#)Definition at line 439 of file [cli.h](#).**6.18.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MV_TO_-LEVEL****zcl level-control o-mv-to-level [level:1] [transitionTime:2]**

- *Command description for MoveToLevelWithOnOff*

- level - INT8U
- transitionTime - INT16U

Definition at line 446 of file [cli.h](#).**6.18.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STEP****zcl level-control o-step [stepMode:1] [stepSize:1] [transitionTime:2]**

- *Command description for StepWithOnOff*

- stepMode - StepMode [ENUM8]
- stepSize - INT8U
- transitionTime - INT16U

See also[EmberAfStepMode](#)Definition at line 456 of file [cli.h](#).**6.18.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STOP****zcl level-control o-stop**

- *Command description for StopWithOnOff*

Definition at line 461 of file [cli.h](#).

6.18.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STEP**zcl level-control step [stepMode:1] [stepSize:1] [transitionTime:2]**

- *Command description for Step*

- stepMode - StepMode [ENUM8]
- stepSize - INT8U
- transitionTime - INT16U

See also[EmberAfStepMode](#)Definition at line 471 of file [cli.h](#).**6.18.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STOP****zcl level-control stop**

- *Command description for Stop*

Definition at line 476 of file [cli.h](#).

6.19 Cluster Commands: Messaging

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_CONFIRM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_AP-PEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CA-NCEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CO-NFIRM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CO-NFIRM_NOT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CO-NFIRM_REQ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CRITICAL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_DI-SPLAY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_HI-GH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_ID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_IN-VALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_LO-W
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_ME-DIUM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_ME-SAGE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_RELATIVE_TIME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TIM-E
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TR-AMMISSION_NORMAL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TR-AMMISSION_BOTH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TR-AMMISSION_IPAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_VA-LID

6.19.1 Detailed Description

This group describes the CLI commands for the Messaging cluster. Listed below is a description of the cluster:

This cluster provides an interface for passing text messages between SE devices.

6.19.2 Define Documentation

6.19.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_CONFIRM

zcl message confirm [messageId:4] [confirmationTime:4]

- *Command description for MessageConfirmation*
 - messageId - INT32U
 - confirmationTime - TIME_OF_DAY

Definition at line 494 of file [cli.h](#).

6.19.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_GET

zcl message get

- *Command description for GetLastMessage*

Definition at line 499 of file [cli.h](#).

6.19.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_APPEND

zcl set-message append [message:-1]

- *Append an additional string to the message contained in the message plugin*
 - message - OCTET_STRING - the string to append to the current message

Definition at line 2141 of file [cli.h](#).

6.19.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CANCEL

zcl set-message cancel

- *Cancel the current message*

Definition at line 2146 of file [cli.h](#).

6.19.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM

zcl set-message confirm

- *Confirm the current message*

Definition at line 2151 of file [cli.h](#).

6.19.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM_NOT

zcl set-message confirm not

- *Set the message confirmation to not used*

Definition at line 2156 of file [cli.h](#).

6.19.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM_REQ

zcl set-message confirm req

- *Set message confirmation to required*

Definition at line 2161 of file [cli.h](#).

6.19.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CRITICAL

zcl set-message critical

- *Set the message importance to critical*

Definition at line 2166 of file [cli.h](#).

6.19.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_DISPLAY

zcl set-message display

- *display the message*

Definition at line 2171 of file [cli.h](#).

6.19.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_HIGH

zcl set-message high

- *Set the message importance to high*

Definition at line 2176 of file [cli.h](#).

6.19.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_ID

zcl set-message id [messageId:4]

- *Set the message id for the message contained in the messaging plugin*
 - messageId - INT32U - message id

Definition at line 2182 of file [cli.h](#).

6.19.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_INVALID

zcl set-message invalid

- *Set the message validity to invalid*

Definition at line 2187 of file [cli.h](#).

6.19.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_LOW

zcl set-message low

- *Set the message importance to low*

Definition at line 2192 of file [cli.h](#).

6.19.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_MEDIUM

zcl set-message medium

- *Set the message importance to medium*

Definition at line 2197 of file [cli.h](#).

6.19.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_MESSAGE

zcl set-message message [message:-1]

- *Set the message used by the message plugin.*
 - message - OCTET_STRING - The message to set

Definition at line 2203 of file [cli.h](#).

6.19.2.16 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_RELATIVE_TIME

zcl set-message relative-time [time:4] [duration:4]

- *Set the relative time on the message*

- time - INT32U - number of minutes to add to the message time above the current time
- duration - INT32U - duration in minutes for the message to be valid

Definition at line [2210](#) of file [cli.h](#).

6.19.2.17 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TIME

zcl set-message time [time:4] [duration:2]

- - time - INT32U - start time
 - duration - INT16U - duration

Definition at line [2217](#) of file [cli.h](#).

6.19.2.18 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_NORMAL

zcl set-message transmission normal

- *normal transmission*

Definition at line [2222](#) of file [cli.h](#).

6.19.2.19 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_BOTH

zcl set-message transmission both

- *Set the messages*

Definition at line [2227](#) of file [cli.h](#).

6.19.2.20 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_IPAN

zcl set-message transmission ipan

- *Set the messages message control bit mask to EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL_AND_ANONYMOUS.*

Definition at line [2232](#) of file [cli.h](#).

6.19.2.21 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_VALID

zcl set-message valid

- Set the message validity to valid

Definition at line [2237](#) of file [cli.h](#).

6.20 Cluster Commands: On/off

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFFEFFECT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ONRECALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFFONTIMEDOFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_TOGGLE

6.20.1 Detailed Description

This group describes the CLI commands for the On/off cluster. Listed below is a description of the cluster:

Attributes and commands for switching devices between 'On' and 'Off' states.

6.20.2 Define Documentation

6.20.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFF

zcl on-off off

- *Command description for Off*

Definition at line 515 of file [cli.h](#).

6.20.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFFEFFECT

zcl on-off offeffect [effectId:1] [effectVariant:1]

- *Command description for OffWithEffect*
 - effectId - OnOffEffectIdentifier [ENUM8]
 - effectVariant - ENUM8

See also

[EmberAfOnOffEffectIdentifier](#)

Definition at line 524 of file [cli.h](#).

6.20.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ON

zcl on-off on

- *Command description for On*

Definition at line 529 of file [cli.h](#).

6.20.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ONRECALL**zcl on-off onrecall**

- *Command description for OnWithRecallGlobalScene*

Definition at line [534](#) of file [cli.h](#).**6.20.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ONTIMEDOFF****zcl on-off ontimedoff [onOffControl:1] [onTime:2] [offWaitTime:2]**

- *Command description for OnWithTimedOff*
 - onOffControl - OnOffControl [BITMAP8]
 - onTime - INT16U
 - offWaitTime - INT16U

Definition at line [542](#) of file [cli.h](#).**6.20.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_TOGGLE****zcl on-off toggle**

- *Command description for Toggle*

Definition at line [547](#) of file [cli.h](#).

6.21 Cluster Commands: Price

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_CURRENT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_SCHEDULED
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ACKNOWLEDGE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ALTERNATE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_INVALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRICE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_VALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHAT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHEN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SPRICE_PUBLIC

6.21.1 Detailed Description

This group describes the CLI commands for the Price cluster. Listed below is a description of the cluster:

The Price Cluster provides the mechanism for communicating Gas, Energy, or Water pricing information within the premise.

6.21.2 Define Documentation

6.21.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_CURRENT

zcl price current [commandOptions:1]

- *Command description for GetCurrentPrice*
 - commandOptions - AmiCommandOptions [BITMAP8]

Definition at line 565 of file [cli.h](#).

6.21.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_SCHEDULED

zcl price scheduled [startTime:4] [numberOfEvents:1]

- *Command description for GetScheduledPrices*
 - startTime - TIME_OF_DAY
 - numberOfEvents - INT8U

Definition at line 572 of file [cli.h](#).

6.21.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ACKNOWLEDGE

zcl set-price acknowledge [req:1]

- Turn price acknowledgement on or off depending on passed boolean value.
 - req - INT8U - boolean acknowledgement required

Definition at line 2380 of file [cli.h](#).

6.21.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ALTERNATE

zcl set-price alternate [alternateCostDelivered:4] [alternateCostUnit:1] [alternateCostTrailingDigit:1]

- Set the alternate values for the price
 - alternateCostDelivered - INT32U - alternate cost delivered
 - alternateCostUnit - INT8U - alternate cost unit
 - alternateCostTrailingDigit - INT8U - alternate cost trailing digit

Definition at line 2388 of file [cli.h](#).

6.21.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_CLEA-R

zcl set-price clear

- Clears out the currently set price.

Definition at line 2393 of file [cli.h](#).

6.21.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_GET

zcl set-price get [index:1]

- Retrieve a price from a given index into the cli's single price buffer for editing
 - index - INT8U - index of the price to retrieve

Definition at line 2399 of file [cli.h](#).

6.21.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_INVALID

zcl set-price invalid [index:1]

- Make a price at a given index invalid
 - index - INT8U - index in the price table

Definition at line 2405 of file [cli.h](#).

6.21.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRICE
zcl set-price price [price:4] [ratio:1] [genPrice:4] [genRatio:1]

- Set the single price held within the price plugin server
 - price - INT32U - price
 - ratio - INT8U - ratio
 - genPrice - INT32U - generation price
 - genRatio - INT8U - generation price ratio

Definition at line 2414 of file [cli.h](#).

6.21.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRINT
zcl set-price print

- Print the price info to the command line

Definition at line 2419 of file [cli.h](#).

6.21.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_VALID

zcl set-price valid [index:1]

- Make a price at a given index valid.
 - index - INT8U - index in the price table

Definition at line 2425 of file [cli.h](#).

6.21.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHAT

zcl set-price what [unitOfMeas:1] [curr:2] [ptd:1] [prt:1]

- Indicates what units the price is presented in.
 - unitOfMeas - INT8U - unit of measure
 - curr - INT16U - currency
 - ptd - INT8U - price trailing digit and tier
 - prt - INT8U - number of price tiers and tier

Definition at line 2434 of file [cli.h](#).

6.21.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHEN

zcl set-price when [startTime:4] [duration:2]

- Sets start time and duration for the price.
 - startTime - INT32U - start time for the price
 - duration - INT16U - duration for the price

Definition at line [2441](#) of file [cli.h](#).

6.21.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHO

zcl set-price who [provId:1] [label:-1] [eventId:1]

- Clears out the currently set price.
 - provId - INT8U - provider id
 - label - OCTET_STRING - rate label
 - eventId - INT8U - issuer event id

Definition at line [2449](#) of file [cli.h](#).

6.21.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SPRICE_PUBLIC

zcl sprice public [index:1]

- Publish the current price
 - index - INT8U - index of the price to publish

Definition at line [2455](#) of file [cli.h](#).

6.22 Cluster Commands: Scenes

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_COPY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_EADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RECALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_REMOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RMALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_STORE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_VIEW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_ON

6.22.1 Detailed Description

This group describes the CLI commands for the Scenes cluster. Listed below is a description of the cluster:
Attributes and commands for scene configuration and manipulation.

6.22.2 Define Documentation

6.22.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ADD

zcl scenes add [groupId:2] [sceneId:1] [transitionTime:2] [sceneName:-1] [extensionFieldSets:4]

- *Command description for AddScene*
 - groupId - INT16U
 - sceneId - INT8U
 - transitionTime - INT16U
 - sceneName - CHAR_STRING
 - extensionFieldSets - struct SceneExtensionFieldSet

Definition at line 593 of file [cli.h](#).

6.22.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_COPY

zcl scenes copy [mode:1] [groupIdFrom:2] [sceneIdFrom:1] [groupIdTo:2] [sceneIdTo:1]

- *Command description for CopyScene*
 - mode - ScenesCopyMode [BITMAP8]
 - groupIdFrom - INT16U
 - sceneIdFrom - INT8U
 - groupIdTo - INT16U
 - sceneIdTo - INT8U

Definition at line 603 of file [cli.h](#).

6.22.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_EADD**zcl scenes eadd [groupId:2] [sceneId:1] [transitionTime:2] [sceneName:-1] [extensionFieldSets:4]**

- *Command description for EnhancedAddScene*

- groupId - INT16U
- sceneId - INT8U
- transitionTime - INT16U
- sceneName - CHAR_STRING
- extensionFieldSets - struct SceneExtensionFieldSet

Definition at line 613 of file [cli.h](#).

6.22.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_GET**zcl scenes get [groupId:2]**

- *Command description for GetSceneMembership*

- groupId - INT16U

Definition at line 619 of file [cli.h](#).

6.22.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RECALL**zcl scenes recall [groupId:2] [sceneId:1]**

- *Command description for RecallScene*

- groupId - INT16U
- sceneId - INT8U

Definition at line 626 of file [cli.h](#).

6.22.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_REMOVE**zcl scenes remove [groupId:2] [sceneId:1]**

- *Command description for RemoveScene*

- groupId - INT16U
- sceneId - INT8U

Definition at line 633 of file [cli.h](#).

6.22.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RMALL**zcl scenes rmall [groupId:2]**

- *Command description for RemoveAllScenes*
 - groupId - INT16U

Definition at line 639 of file [cli.h](#).**6.22.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_STORE****zcl scenes store [groupId:2] [sceneId:1]**

- *Command description for StoreScene*
 - groupId - INT16U
 - sceneId - INT8U

Definition at line 646 of file [cli.h](#).**6.22.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_VIEW****zcl scenes view [groupId:2] [sceneId:1]**

- *Command description for ViewScene*
 - groupId - INT16U
 - sceneId - INT8U

Definition at line 653 of file [cli.h](#).**6.22.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_O-
FF****zcl scenes set off [level:1]**

- *Sets the on-off value to off for the add scene command and sets the level control clusters level value also sent with the add scene command.*
 - level - INT8U - The value to send with the add scene command

Definition at line 2473 of file [cli.h](#).**6.22.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_O-
N****zcl scenes set on [level:1]**

- Sets the on-off value to on for the add scene command and sets the level control clusters level value also sent with the add scene command.

– level - INT8U - The level value to send with the add scene command

Definition at line [2480](#) of file [cli.h](#).

6.23 Cluster Commands: Simple Metering

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_DM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_FP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_GP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_ADJUST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_ELECTRIC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_GAS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_PROFILES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_RATE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_RND_ERROR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_SET_ERROR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_VARIA-NCE

6.23.1 Detailed Description

This group describes the CLI commands for the Simple Metering cluster. Listed below is a description of the cluster:

The Metering Cluster provides a mechanism to retrieve usage information from Electric, Gas, Water, and potentially Thermal metering devices.

6.23.2 Define Documentation

6.23.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_DM

zcl drlc dm

- *Command description for RemoveMirror*

Definition at line 670 of file [cli.h](#).

6.23.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_FP

zcl sm fp [fastPollUpdatePeriod:1] [duration:1]

- *Command to request fast poll mode.*
 - fastPollUpdatePeriod - INT8U
 - duration - INT8U

Definition at line 677 of file [cli.h](#).

6.23.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_GP

zcl sm gp [intervalChannel:1] [endTime:4] [numberOfPeriods:1]

- *Command description for GetProfile*

- intervalChannel - AmiIntervalChannel [ENUM8]
- endTime - UTC_TIME
- numberOfPeriods - INT8U

See also

[EmberAfAmiIntervalChannel](#)

Definition at line 687 of file [cli.h](#).

6.23.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-ADJUST

zcl tm adjust [endpoint:1]

- *Used to adjust the test meter.*
- endpoint - INT8U - The endpoint of the test meter.

Definition at line 2498 of file [cli.h](#).

6.23.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-ELECTRIC

zcl tm electric [endpoint:1]

- *Turns test meter into an electric meter*
- endpoint - INT8U - The endpoint of the test meter

Definition at line 2504 of file [cli.h](#).

6.23.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-GAS

zcl tm gas [endpoint:1]

- *Turns test meter into a gas meter*
- endpoint - INT8U - The endpoint of the test meter

Definition at line 2510 of file [cli.h](#).

**6.23.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-
OFF**

zcl tm off [endpoint:1]

- Turn off output from the test meter.
 - endpoint - INT8U - The endpoint of the test meter

Definition at line 2516 of file [cli.h](#).

**6.23.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-
PRINT**

zcl tm print

- Prints the test meters

Definition at line 2521 of file [cli.h](#).

**6.23.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-
PROFILES**

zcl tm profiles [profileType:1]

- Turn on and off profiles on the test meter server..
 - profileType - INT8U - The profile to set

Definition at line 2527 of file [cli.h](#).

**6.23.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-
_RATE**

zcl tm rate [rate:2]

- Used to change the rate argument
 - rate - INT16U - The rate at which the test meter generates test data

Definition at line 2533 of file [cli.h](#).

**6.23.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_-
_RND_ERROR**

zcl tm rnd_error [chanceIn255:1]

- Sets the random error to the value provided which is the chance in 256 of an error occurring.
 - chanceIn255 - INT8U - The chance of an error occurring in 255

Definition at line 2539 of file [cli.h](#).

6.23.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_SET_ERROR

zcl tm set_error [error:1] [endpoint:1]

- Sets the meter's status attribute id to the passed error value.

- error - INT8U - The chance of an error occurring in 255
- endpoint - INT8U - The endpoint affected

Definition at line 2546 of file [cli.h](#).

6.23.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_VARIANCE

zcl tm variance [rate:2]

- Used to change the variance in the test data created by the test meter.

- rate - INT16U

Definition at line 2552 of file [cli.h](#).

6.24 Cluster Commands: Thermostat

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_THERMOSTAT_SET

6.24.1 Detailed Description

This group describes the CLI commands for the Thermostat cluster. Listed below is a description of the cluster:

An interface for configuring and controlling the functionality of a thermostat.

6.24.2 Define Documentation

6.24.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_THERMOSTAT_SET

zcl tstat set [mode:1] [amount:1]

- *Command description for SetpointRaiseLower*
 - mode - SetpointAdjustMode [ENUM8]
 - amount - INT8S

See also

[EmberAfSetpointAdjustMode](#)

Definition at line 707 of file [cli.h](#).

6.25 Cluster Commands: Tunneling

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_CLOSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_REQUEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_TRANSFER_TO_SERVER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RANDOM_TO_CLIENT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RANDOM_TO_SERVER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_TRANSFER_TO_CLIENT

6.25.1 Detailed Description

This group describes the CLI commands for the Tunneling cluster. Listed below is a description of the cluster:

The tunneling cluster provides an interface for tunneling protocols.

6.25.2 Define Documentation

6.25.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_CLOSE

zcl tunneling close [tunneId:2]

- *Client command used to close the tunnel with the server. The parameter in the payload specifies the tunnel identifier of the tunnel that has to be closed. The server leaves the tunnel open and the assigned resources allocated until the client sends the CloseTunnel command or the CloseTunnel-Timeout fires.*

– tunneId - INT16U

Definition at line 724 of file [cli.h](#).

6.25.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_REQUEST

zcl tunneling request [protocolId:1] [manufacturerCode:2] [flowControlSupport:1] [maximumIncomingTransferSize:2]

- *RequestTunnel is the client command used to setup a tunnel association with the server. The request payload specifies the protocol identifier for the requested tunnel, a manufacturer code in case of proprietary protocols and the use of flow control for streaming protocols.*

- protocolId - INT8U
- manufacturerCode - INT16U
- flowControlSupport - BOOLEAN
- maximumIncomingTransferSize - INT16U

Definition at line 733 of file [cli.h](#).

6.25.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_TRANSFER_TO_SERVER

zcl tunneling transfer-to-server [tunnelId:2] [data:1]

- *Command that indicates (if received) that the client has sent data to the server. The data itself is contained within the payload.*

- tunnelId - INT16U
- data - INT8U

Definition at line 740 of file [cli.h](#).

6.25.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RANDOM_TO_CLIENT

zcl tunneling random-to-client [tunnel-id:2] [length:2]

- *Send a random amount of data through a tunnel to the server (used for testing)*

- tunnel-id - INT16U - The two byte tunnel id
- length - INT16U - the length of random data to send to the client

Definition at line 2570 of file [cli.h](#).

6.25.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RANDOM_TO_SERVER

zcl tunneling random-to-server [tunnel-id:2] [length:2]

- *Send a random amount of data through a tunnel to the server (used for testing)*

- tunnel-id - INT16U - The two byte tunnel id
- length - INT16U - The two byte length of the random data to send

Definition at line 2577 of file [cli.h](#).

6.25.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_TRANSFER_TO_CLIENT

zcl tunneling transfer-to-client [tunnel-id:2] [data:-1]

- *Send a random amount of data through a tunnel to the server (used for testing)*

- tunnel-id - INT16U - The two byte tunnel id
- data - OCTET_STRING - data to transfer to the client

Definition at line 2584 of file [cli.h](#).

6.26 Attribute Management

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_READ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_WRITE

6.26.1 Detailed Description

Commands related to reading and writing attributes locally on a device.

6.26.2 Define Documentation

6.26.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_READ

read [endpoint:1] [cluster:2] [attribute:2] [mask:1]

- *Read an attribute from the local attribute table. The attribute is displayed on the command line.*
 - endpoint - INT8U - endpoint of the attribute to read
 - cluster - INT16U - cluster id of the attribute to read
 - attribute - INT16U - attribute id of the attribute to read
 - mask - INT8U - direction mask of the attribute to read (client=0x40 or server=0x00)

Definition at line 758 of file [cli.h](#).

6.26.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_WRITE

write [endpoint:1] [cluster:2] [attribute:2] [mask:1] [dataType:1] [dataBytes:-1]

- *Write an attribute value into the local attribute table*
 - endpoint - INT8U - endpoint of the attribute to write
 - cluster - INT16U - cluster id of the attribute to write
 - attribute - INT16U - attribute id of the attribute to write
 - mask - INT8U - direction mask of the attribute to read (client=0x40 or server=0x00)
 - dataType - INT8U - the attribute type as listed in the generated file [attribute-type.h](#)
 - dataBytes - OCTET_STRING - string of bytes you wish to write into the attribute table.

Definition at line 769 of file [cli.h](#).

6.27 Building and Sending Messages

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_BSEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_GROUP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_LONG
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_SHORT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_RAW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND_MULTICAST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_TIMESYNC

6.27.1 Detailed Description

Commands for building and sending messages out onto the network.

6.27.2 Define Documentation

6.27.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_BSEND

bsend [srcEndpoint:1]

- *send using a binding based on the clusterId in the globalApsFrame and the srcEndpoint specified (if the src endpoint is zero it only sends based on the clusterId)*
 - srcEndpoint - INT8U - source endpoint to send a binding based message from

Definition at line 784 of file [cli.h](#).

6.27.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_GROUP

interpan group [groupId:2] [destPan:2] [destprofileID:2]

- *send an interpan message to a group id.*
 - groupId - INT16U - group id to send to
 - destPan - INT16U - destination pan id
 - destprofileID - INT16U - destination profile ID

Definition at line 792 of file [cli.h](#).

6.27.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_LONG

interpan long [longId:8] [destPAN:2] [destProfileID:2]

- Send an interpan message to a long address (8 byte eui64)

- longId - IEEE_ADDRESS - long ieee address to send the interpan message to
- destPAN - INT16U - two byte destination PA ID
- destProfileID - INT16U - two byte destination profile ID

Definition at line 800 of file [cli.h](#).

6.27.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_SHORT

interpan short [shortId:2] [destPan:2] [destprofileID:2]

- Send an interpan message to a short id. Static data used is as follows-
: interpan commands mac is : [FC 2; seq 1; dest PAN 2; dest addr 2|8;
src pan 2; src addr 8] stub nwk is: [Frame Control 2] stub APS is-
: [FC 1; groupId 0|2; clusterId 2; appProfileId 2]

MAC FC = bits 0,1,2: frame type (Data) 1 bit 3: security enabled = false (0) bit 4: frame pending = false (0) bit 5: ack required = true (1) bit 6: intra PAN = false (0) bit 7,8,9: reserved (0) bit 10,11: dest addr mode = group (1), short (2), long(3) bit 12,13: reserved (0) bit 14,15- : src addr mode = long(3) for GROUP_DEST FC is: 0xC421 for SHORT_DEST FC is: 0xC821 for LONG_DEST FC is : 0xCC21

Stub NWK FC: bits 0,1: frame type 3 (0b11) bits 2-5: protocol version 2 (0b0010) bits 6-15: reserved (0) this is always 0x000B

stub APS FC: bits 0,1: 3 (0b11) bits 2,3: delivery mode unicast(0), bcast(2), group(3) bit 4: reserved (0) bit 5: security: none (0) bit 6: ack request- : NO ack (0) bit 7: ext header present: No (0) this is 03 for unicast, 0B for bcast, 0F for group

- shortId - INT16U - group id to send to
- destPan - INT16U - destination pan id
- destprofileID - INT16U - destination profile ID

Definition at line 838 of file [cli.h](#).

6.27.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_RAW

raw [clusterId:2] [data:-1]

- Creates a message by specifying the raw bytes. Use "send" to send the message once it has been created. Ex: raw 0x000F {00 0A 00 11 22 33 44 55} sends a message to cluster 15 (0x000F) of length 8 which includes the ZCL header.

- clusterId - INT16U - two byte cluster id
- data - OCTET_STRING - two byte short id of the time server

Definition at line 845 of file [cli.h](#).

6.27.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND

send [id:2] [src-endpoint:1] [dst-endpoint:1]

- *Send a pre-buffered message from a given endpoint to an endpoint on a device with a given short address.*
 - id - INT16U - short id of the device to send the message to
 - src-endpoint - INT8U - The endpoint to send the message from
 - dst-endpoint - INT8U - The endpoint to send the message to

Definition at line 853 of file [cli.h](#).

6.27.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND_MULTICAST

send-multicast [destination:2] [src-endpoint:1] [dst-endpoint:1]

- *Send a broadcast message message to from a given endpoint to another endpoint.*
 - destination - INT16U - broadcast destination address FFFC = all routers, FFFD = all non-sleepy, FFFF = all devices, include sleepy
 - src-endpoint - INT8U - The endpoint to send the message from
 - dst-endpoint - INT8U - The endpoint to send the message to

Definition at line 861 of file [cli.h](#).

6.27.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_TIMESYNC

timesync [id:2] [srcEndpoint:1] [destEndpoint:1]

- *This sends a read attr for the time of the device specified. It sets a flag so when it gets the response it writes the time to its own time attr*
 - id - INT16U - two byte short id of the time server
 - srcEndpoint - INT8U - source endpoint to send time sync from
 - destEndpoint - INT8U - destination endpoint to expect response on

Definition at line 869 of file [cli.h](#).

6.28 General

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ATT_READ_FRAG_RESP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_CUSTOM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ECHO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON0
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON1
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_RESET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_TIME_SYNC_LOCAL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_MFG_CODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_TIME

6.28.1 Detailed Description

Ember Application Framework, Version 2 (AFV2)

Synopsis: an Application Framework that can be setup to implement ZigBee-compliant devices from various public profiles or any proprietary application profile for which XML description of clusters and devices has been provided. This framework includes an implementation of the ZigBee Cluster Library, which allows building any ZCL-based device. The AppBuilder tool within InSight Desktop is intended to serve as a graphical interface for configuration of this framework for new application targets.

Buttons Used:

Note that the button mappings are configurable through AppBuilder's HAL Configuration tab, so you should consult your AppBuilder configuration to determine which GPIO each button (first and second) are mapped to and which are enabled.

Also note that FORM and JOIN activities below are implemented by the AFV2 "Network Find" plugin by default. If this plugin is disabled in your AppBuilder configuration, these actions rely on your application code implementing some or all of the functions listed in the Implemented Callbacks list for the Network Find plugin. The BIND action described below relies on the network's Coordinator node being built with the optional End Device Bind feature. (Check "Enable End Device Bind" in the Stack Configuration tab of AppBuilder to enable this.)

- 1st Application Button: if not joined: FORM (if the device is capable of forming)
- 1st Application Button: if joined: BIND (send ZDO end device bind request)
- 2nd Application Button: if not joined: JOIN
- 2nd Application Button: if joined: PERMIT JOINING

Serial baud rates, ports used:

Default baud rate is 115200 bps on UART1 for all devices.

This can be set to other baud rates using AppBuilder's HAL Configuration tab or by redefining EMBER_AF_BAUD_RATE.

<u>Serial commands supported:</u>

NOTE: Three different serial modes can be used by AFV2 applications:

- **FULL** - Supports all the commands listed below that pertain to the device. This mode uses the most flash. This mode is enabled by defining "ZA_CLI_FULL" and not defining "ZA_TINY_SERIAL_INPUT". This is the default for new AppBuilder configurations if not changed via the HAL Configuration tab.
- **MINIMAL** - (Not supported on EZSP Host platforms.) Supports a subset of the commands listed below. It uses less flash than FULL mode and more flash than TINY mode. This mode is enabled by defining "ZA_CLI_MINIMAL" and not defining "ZA_TINY_SERIAL_INPUT"
- **TINY** - (Not supported on EZSP Host platforms.) Saves the most flash and saves RAM over the MINIMAL and FULL modes. This mode supports only single character commands and does not provide all the functionality that the FULL CLI provides. This mode is enabled by defining "ZA_TINY_SERIAL_INPUT".

Tiny Serial commands: (Available only in TINY mode)

- i = Gives information about the local node.
- f = Forms a network on channel TINY_SERIAL_CHANNEL(11) and panID TINY_SERIAL_PANID (0x00AB).
- j = Attempts to join a network on channel TINY_SERIAL_CHANNEL(11) and panID TINY_SERIAL_PANID (0x00AB).
- p = Permits join for 20 seconds.
- l = Leaves network.
- s = Prints the networking stack's statistics counters.
- t = Sends a read time cluster time attribute command to the ZC.
- b = Sends a read basic cluster version attribute command to the ZC.
- k = Prints security keys.
- c = Clears security keys.
- a = Establish a pArtner link key with the node defined by the "partnerLinkKeyEui" array in app/framework/util/main-soc.c. User must define KEY_ESTABLISHMENT_ENDPOINT.

Minimal Serial commands: the top level commands listed below and any sub commands are supported in minimal CLI mode

- bsend
- debugprint (if debug printing for Application area is enabled)
- keys
- network
- print
- raw
- send
- send_multicast

- version (if debug printing for Application area is enabled)
- counters
- help
- reset
- echo
- info
- s-update
- libs (if debug printing for Application area is enabled)
- zdo (if configuration enables serial commandns for sending ZDO messages)
- custom (executes custom command included in the emberAfCustomCommands array of type Ember-CommandEntry)

6.28.2 Define Documentation

**6.28.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ATT_READ_FRAG_-
RESP**

att-read-frag-resp

- A test command which solicits an attribute read which will force the responding node to send a response that uses fragmentation.

Definition at line 1027 of file [cli.h](#).

6.28.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_CUSTOM

custom

- Executes the associated command as defined in the emberAfCustomCommands array of type Ember-CommandEntry

Definition at line 1032 of file [cli.h](#).

6.28.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ECHO

echo [echoOn:1]

- Turns echo on the command line on or off depending on the argument
 - echoOn - INT8U - boolean indicating whether to turn echo on (1) or off (0)

Definition at line 1038 of file [cli.h](#).

**6.28.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON0
option button0**

- *Simulates a button press on the device on button 0.*

Definition at line 1043 of file [cli.h](#).

**6.28.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON1
option button1**

- *Simulates a button press on the device on button 1.*

Definition at line 1048 of file [cli.h](#).

**6.28.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_RESET
reset**

- *resets the device*

Definition at line 1053 of file [cli.h](#).

**6.28.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_TIME_SYNC_LOCAL
time-sync-local**

- *Used on a Unix based gateway or large host to sync current time known to the application with Unix time known to the host.*

Definition at line 1058 of file [cli.h](#).

**6.28.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_MFG_CODE
zcl mfg-code [mfgSpecificId:2]**

- *Sets the two byte manufacturer specific identifier to use for the next command if the command is not already built.*
 - mfgSpecificId - INT16U - Manufacturer Specific Id

Definition at line 1064 of file [cli.h](#).

6.28.2.9 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_GENERAL_ZCL_TIME
zcl time [utcTime:4]

- *Cli command to call emberAfSetTime function documented in [af.h](#)*

– utcTime - INT32U - ZigBee UTC time, number of seconds since the year 2000

Definition at line [1070](#) of file [cli.h](#).

6.29 Global ZCL

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DIRECTION
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DISCOVER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_EXPECT_REPORT_FROM_ME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_NWRITER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_READ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_REPORT_READ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_SEND_ME_A_REPORT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_UWRITER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_WRITE

6.29.1 Detailed Description

All the ZCL global commands defined in the ZigBee Cluster Library Specification. These command line commands can be used to send messages over the air to, for instance, read and write attributes to devices on the network.

6.29.2 Define Documentation

6.29.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DIRECTION

zcl global direction [direction:1]

- Sets the direction for global commands, either client to server or server to client.
 - direction - INT8U - The direction for global commands, 0 = client to server, 1 = server to client.

Definition at line 1087 of file [cli.h](#).

6.29.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DISCOVER

zcl global discover [cluster:2] [attributeId:2] [max:1]

- Creates discovery message for devices with the associated cluster and attribute specified.
 - cluster - INT16U - The cluster id of the cluster to discover.
 - attributeId - INT16U - The attribute id of the attribute to read during discovery.
 - max - INT8U - Max number of discovery responses.

Definition at line 1095 of file [cli.h](#).

**6.29.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-
EXPECT_REPORT_FROM_ME**

zcl global expect-report-from-me [cluster:2] [attributeId:2] [timeout:2]

- *Create a expect-report-from-me message with associated values.*
 - cluster - INT16U - The cluster id for the requested report.
 - attributeId - INT16U - The attribute id for the requested report.
 - timeout - INT16U - Maximum amount of time between reports.

Definition at line 1103 of file [cli.h](#).

**6.29.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-
NWRITE**

zcl global nwrite [cluster:2] [attributeId:2] [type:1]

- *Creates a global write command message to write to the cluster and attribute specified*
 - cluster - INT16U - The cluster id of the cluster to read from.
 - attributeId - INT16U - The attribute id of the attribute to read.
 - type - INT8U - The type of the attribute to write.

Definition at line 1111 of file [cli.h](#).

**6.29.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-
READ**

zcl global read [cluster:2] [attributeId:2]

- *Creates a global read command message to read from the cluster and attribute specified*
 - cluster - INT16U - The cluster id of the cluster to read from.
 - attributeId - INT16U - The attribute id of the attribute to read.

Definition at line 1118 of file [cli.h](#).

**6.29.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-
REPORT_READ**

zcl global report-read [cluster:2] [attributeId:2] [direction:1]

- *Creates a global read reporting command for the associated cluster, attribute and server/client direction.*
 - cluster - INT16U - The cluster id to read from.
 - attributeId - INT16U - The attribute id to read from.
 - direction - INT8U - 0 for client-to-server, 1 for server-to-client.

Definition at line 1126 of file [cli.h](#).

6.29.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-SEND_ME_A_REPORT

zcl global send-me-a-report [cluster:2] [attributeId:2] [dataType:1] [minReportTime:2] [maxReportTime:2] [reportableChange:-2147483648]

- *Creates a global send me a report command for the associated values.*
 - cluster - INT16U - The cluster id of the requested report.
 - attributeId - INT16U - The attribute id for requested report.
 - dataType - INT8U - The two byte ZigBee type value for the requested report.
 - minReportTime - INT16U - Minimum number of seconds between reports.
 - maxReportTime - INT16U - Maximum number of seconds between reports.
 - reportableChange - ARRAY - Amount of change to trigger a report.

Definition at line 1137 of file [cli.h](#).

6.29.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-UWRITE

zcl global uwrite [cluster:2] [attributeId:2] [type:1]

- *Creates a global write undivided command message to write to the cluster and attribute specified*
 - cluster - INT16U - The cluster id of the cluster to write to.
 - attributeId - INT16U - The attribute id of the attribute to write.
 - type - INT8U - The type of the attribute to write.

Definition at line 1145 of file [cli.h](#).

6.29.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_-WRITE

zcl global write [cluster:2] [attributeId:2] [type:4]

- *Creates a global write command message to write to the cluster and attribute specified*
 - cluster - INT16U - The cluster id of the cluster to write to.
 - attributeId - INT16U - The attribute id of the attribute to write.
 - type - INT32U - The type of the attribute to write.

Definition at line 1153 of file [cli.h](#).

6.30 Informational

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_COUNTERS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_HELP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_INFO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_LIBS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_ADDRESS_TABLE_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_BINDING_TABLE_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MSGS_DISABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MSGS_ENABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_ATTR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_C
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_D
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_GROUPS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_IDENTIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_MESSAGING
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_PRICE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_SCENES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TIME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TUNNEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_VERSION

6.30.1 Detailed Description

The Informational command set provides commands for displaying information about the device. These commands include things like printing out the attribute table.

6.30.2 Define Documentation

6.30.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_COUNTERS counters

- Prints out values for tracked stack counters

Definition at line 1169 of file [cli.h](#).

**6.30.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_OFF
debugprint all_off**

- *Turns off all debug printing*

Definition at line 1174 of file [cli.h](#).

**6.30.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_ON
debugprint all_on**

- *Turns on all compiled in debug printing*

Definition at line 1179 of file [cli.h](#).

**6.30.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_OFF
debugprint off [area:1]**

- *Turns off compiled in debug printing for a specific debug printing area. Debug print areas are defined in the generated <application>.h header file.*
 - area - INT8U - The debug area mask listed in the <application>.h file

Definition at line 1185 of file [cli.h](#).

**6.30.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ON
debugprint on [area:1]**

- *Turns on compiled in debug printing for a specific debug printing area. Debug print areas are defined in the generated <application>.h header file.*
 - area - INT8U - The debug area mask listed in the <application>.h file

Definition at line 1191 of file [cli.h](#).

**6.30.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_STATUS
debugprint status**

- *Prints out the current settings for debug printing on the device*

Definition at line 1196 of file [cli.h](#).

**6.30.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_HELP
help**

- Prints out the cli command options for the device

Definition at line 1201 of file [cli.h](#).

**6.30.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_INFO
info**

- Gives information about the local node

Definition at line 1206 of file [cli.h](#).

**6.30.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_LIBS
libs**

- Lists which optional libraries of the stack are implemented on this device

Definition at line 1211 of file [cli.h](#).

6.30.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_ADDRESS_TABLE_PRINT

option address-table print

- Prints the address table.

Definition at line 1216 of file [cli.h](#).

6.30.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_BINDING_TABLE_PRINT

option binding-table print

- Prints out the binding table to the command line.

Definition at line 1221 of file [cli.h](#).

6.30.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MESSAGES_DISABLE

option print-rx-msgs disable

- Disable the printing of received messages.

Definition at line 1226 of file [cli.h](#).

6.30.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MESSAGES_ENABLE

option print-rx-msgs enable

- *Enable the printing of received messages.*

Definition at line 1231 of file [cli.h](#).

6.30.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_ATTR

print attr

- *Print the attribute table.*

Definition at line 1236 of file [cli.h](#).

6.30.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_C

print c

- *Print the IAS ACE info*

Definition at line 1241 of file [cli.h](#).

6.30.2.16 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_D

print d

- *Print out the Demand Response Load Control Table*

Definition at line 1246 of file [cli.h](#).

6.30.2.17 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_GROUPS

print groups

- *Print out the groups table.*

Definition at line 1251 of file [cli.h](#).

6.30.2.18 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_IDENTIFY

print identify

- *Print a message indicating whether or not the node is in identify mode*

Definition at line 1256 of file [cli.h](#).

**6.30.2.19 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_MESSAGING
print messaging**

- *Print out the messaging information*

Definition at line 1261 of file [cli.h](#).

**6.30.2.20 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_PRICE
print price**

- *Print the price info*

Definition at line 1266 of file [cli.h](#).

**6.30.2.21 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_SCENES
print scenes**

- *Print the scenes command*

Definition at line 1271 of file [cli.h](#).

**6.30.2.22 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TIME
print time**

- *Print out the time information*

Definition at line 1276 of file [cli.h](#).

**6.30.2.23 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TUNNEL
print tunnel**

- *Print out the generic tunnel information*

Definition at line 1281 of file [cli.h](#).

**6.30.2.24 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_VERSION
version**

- *Shows the version of the software*

Definition at line 1286 of file [cli.h](#).

6.31 Network

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_BROAD_PJOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_CHANGE_CHANNEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_EXTPANID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_JOINABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_UNUSED
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FORM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_JOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_LEAVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_PJOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_REJOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_ADDRESS_TABLE_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_AGG
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_DEFAULT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_DISC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_EDB

6.31.1 Detailed Description

The Network command set provides commands for interacting with the network. This includes building as well as sending ZigBee commands out on to the network.

6.31.2 Define Documentation

6.31.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_BROAD_PJOIN

network broad-pjoin [seconds:1]

- *Permit joining on the network for a given number of seconds AND broadcast a ZDO Mgmt Permit Joining request to all routers.*
 - seconds - INT8U - Number of seconds during which devices will be allowed to join the network. A value of 0xff turns permit joining on permanently

Definition at line 1302 of file [cli.h](#).

6.31.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_CHANNEL

network change-channel [channel:1]

- Attempts to change device over to a different channel given in the channel argument
 - channel - INT8U - The channel to change to.

Definition at line 1308 of file [cli.h](#).

6.31.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_EXTPANID

network extpanid [extPanId:-1]

- Write the extended pan id for the device.
 - extPanId - OCTET_STRING - The bytes for the extended pan id

Definition at line 1314 of file [cli.h](#).

6.31.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_JOINABLE

network find joinable

- Begins a search for a joinable network. Will automatically attempt to join the first network that it finds.

Definition at line 1319 of file [cli.h](#).

6.31.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_UNUSED

network find unused

- Begins a search for an unused Channel and Pan Id. Will automatically form a network on the first unused Channel and Pan Id it finds.

Definition at line 1324 of file [cli.h](#).

6.31.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FORM

network form [channel:1] [power:1] [panId:2]

- Create a network on the given channel, power and panId.
 - channel - INT8U - The channel on which to form the network
 - power - INT8S - One byte signed value indicating the TX power that the radio should be set to
 - panId - INT16U - Two byte pan id for the network

Definition at line 1332 of file [cli.h](#).

6.31.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_JOIN
network join [channel:1] [power:1] [panId:2]

- *Join an existing network on the given channel, power and panId.*
 - channel - INT8U - The channel on which to form the network
 - power - INT8S - One byte signed value indicating the TX power that the radio should be set to
 - panId - INT16U - Two byte pan id for the network

Definition at line 1340 of file [cli.h](#).

6.31.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_LEAVE
network leave

- *Leave the current network.*

Definition at line 1345 of file [cli.h](#).

6.31.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_PJOIN
network pjoin [seconds:1]

- *Permit joining on the network for a given number of seconds*
 - seconds - INT8U - Number of seconds during which devices will be allowed to join the network. A value of 0xff turns permit joining on permanently

Definition at line 1351 of file [cli.h](#).

6.31.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_REJOIN
network rejoin [haveCurrentNetworkKey:1] [channelMask:4]

- *Rejoin an existing network in a secure or insecure manner.*
 - haveCurrentNetworkKey - INT8U - Boolean indicating whether the device can rejoin secure or not. 1=rejoin with encryption, 0=rejoin without encryption
 - channelMask - INT32U - 4 byte channel mask which should be used to search for the network to rejoin.

Definition at line 1358 of file [cli.h](#).

6.31.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_ADDRESS_TABLE_SET

option address-table set [addressTableIndex:1] [ieeeAddress:8] [nodeId:2]

- Set an entry in the address table according to the arguments specified

- addressTableIndex - INT8U - one byte index into the address table
- ieeeAddress - IEEE_ADDRESS - IEEE address to enter into the address table
- nodeId - INT16U - two byte node id to enter into the address table

Definition at line 1366 of file [cli.h](#).

6.31.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_AGG

option agg

- (Requires Concentrator Support to be enabled on this device.) Schedules a ZigBee PRO Many - To One Route Request (MTORR) to be sent out at next opportunity, which will cause aggregation (many-to-one) routes to be created towards this concentrator.

Definition at line 1371 of file [cli.h](#).

6.31.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_APSPRETRY_DEFAULT

option apspretry default

- Forces the AppFramework to set/clear the APS Retry option (in APS Frame options mask) for all subsequent outgoing messages; a value of "default" allows the AppFramework to use its own default logic to determine when the APS Retry option should be used.

Definition at line 1376 of file [cli.h](#).

6.31.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_APSPRETRY_OFF

option apspretry off

- Forces the AppFramework to set/clear the APS Retry option (in APS Frame options mask) for all subsequent outgoing messages; Turns APS retry off

Definition at line 1381 of file [cli.h](#).

6.31.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_APSPRETRY_ON

option apspretry on

- Forces the AppFramework to set/clear the APS Retry option (in APS Frame options mask) for all subsequent outgoing messages; Turns APS retry on.

Definition at line 1386 of file [cli.h](#).

6.31.2.16 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_CLEAR

option binding-table clear

- Clear the binding table

Definition at line 1391 of file [cli.h](#).

6.31.2.17 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_SET

option binding-table set [bindingTableIndex:1] [clusterId:2] [localEndpoint:1] [remoteEndpoint:1] [ieeeAddress:8]

- Set a binding table entry for the arguments specified.
 - bindingTableIndex - INT8U - one byte index into the binding table
 - clusterId - INT16U - cluster id to send with the discovery message
 - localEndpoint - INT8U - local endpoint to bind
 - remoteEndpoint - INT8U - remote endpoint to bind
 - ieeeAddress - IEEE_ADDRESS - 8 byte IEEE address provided big endian

Definition at line 1401 of file [cli.h](#).

6.31.2.18 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_DISC

option disc [profileId:2] [clusterId:2]

- Sends a ZDO Match Descriptor Request for the server side of the specified cluster from the specified application profile. Match Descriptor Responses received are printed to the serial output.
 - profileId - INT16U - the profile id to send with the discovery message
 - clusterId - INT16U - cluster id to send with the discovery message

Definition at line 1408 of file [cli.h](#).

6.31.2.19 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_EDB

option edb

- Sends a ZDO End Device Bind Request using the local endpoint specified by ZA_GLOBAL_SRC_ENDPOINT.

Definition at line 1413 of file [cli.h](#).

6.32 Plugin Commands: Reporting

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_REMOVE

6.32.1 Detailed Description

The reporting plugin contributes several CLI commands to the application framework to be used in creating and managing reporting table entries directly on the device.

6.32.2 Define Documentation

6.32.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_ADD

plugin reporting add [endpoint:1] [clusterId:2] [attributeId:2] [mask:1] [type:1] [minInterval:2] [maxInterval:2] [reportableChange:4]

- Add a new entry to the report table.
 - endpoint - INT8U - The local endpoint from which the attribute is reported.
 - clusterId - INT16U - The cluster where the attribute is located.
 - attributeId - INT16U - The id of the attribute being reported.
 - mask - INT8U - 0 for client-side attributes or 1 for server-side attributes.
 - type - INT8U - The type of the attribute being reported.
 - minInterval - INT16U - The minimum reporting interval, measured in seconds.
 - maxInterval - INT16U - The maximum reporting interval, measured in seconds.
 - reportableChange - INT32U - The minimum change to the attribute that will result in a report being sent.

Definition at line 1437 of file [cli.h](#).

6.32.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_CLEAR

plugin reporting clear

- Clear all entries from the report table.

Definition at line 1442 of file [cli.h](#).

6.32.2.3 `#define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_PRINT`

plugin reporting print

- *Print the report table.*

Definition at line 1447 of file [cli.h](#).

6.32.2.4 `#define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_REMOVE`

plugin reporting remove [index:1]

- *Remove an entry from the report table.*

- index - INT8U - The index of the report to be removed.

Definition at line 1453 of file [cli.h](#).

6.33 Plugin Commands: Tunneling Client

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_CLOSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_REQUEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_TRANSFER

6.33.1 Detailed Description

The Tunneling Client Plugin contributes several commands to the application framework's CLI. These commands may be used to create messages related to opening and closing a tunnel between two devices.

6.33.2 Define Documentation

6.33.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_CLOSE

plugin tunneling-client close [tunnelIndex:1]

- *Close a Tunneling cluster tunnel.*
 - tunnelIndex - INT8U - The index of the tunnel to close.

Definition at line 1470 of file [cli.h](#).

6.33.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_PRINT

plugin tunneling-client print

- *Print out the status of active tunnels.*

Definition at line 1475 of file [cli.h](#).

6.33.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_REQUEST

plugin tunneling-client request [server:2] [clientEndpoint:1] [serverEndpoint:1] [protocolId:1] [manufacturerCode:2] [flowControlSupport:1]

- *Request a Tunneling cluster tunnel with a server.*

- server - INT16U - The network address of the server to which the request will be sent.

- clientEndpoint - INT8U - The local endpoint from which the request will be sent.
- serverEndpoint - INT8U - The remote endpoint to which the request will be sent.
- protocolId - INT8U - The protocol id of the requested tunnel.
- manufacturerCode - INT16U - The manufacturer code of the requested tunnel.
- flowControlSupport - BOOLEAN - 1 if flow control support is requested or 0 if not.

Definition at line 1486 of file [cli.h](#).

6.33.2.4 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_TRANSFER

plugin tunneling-client transfer [tunnelIndex:1] [data:-2147483648]

- *Transfer data to a server through a Tunneling cluster tunnel.*
 - tunnelIndex - INT8U - The index of the tunnel through which to send the data.
 - data - ARRAY - The data to send through the tunnel.

Definition at line 1493 of file [cli.h](#).

6.34 Plugin Commands: Tunneling Server

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_BUSY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_TRANSFER

6.34.1 Detailed Description

The Tunneling Server Plugin contributes several commands to the application framework CLI. These commands are used for the transfer of data over an opened tunnel.

6.34.2 Define Documentation

6.34.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_BUSY

plugin tunneling-server busy

- *This command can be used as a test harness for testing a client's handling of a server that returns busy.*

Definition at line 1509 of file [cli.h](#).

6.34.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_PRINT

plugin tunneling-server print

- *Print out the status of active tunnels.*

Definition at line 1514 of file [cli.h](#).

6.34.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_TRANSFER

plugin tunneling-server transfer [tunnelId:2] [data:-2147483648]

- *Transfer data to a client through a Tunneling cluster tunnel.*
 - tunnelId - INT16U - The identifier of the tunnel through which to send the data.
 - data - ARRAY - The data to send through the tunnel.

Definition at line 1521 of file [cli.h](#).

6.35 Plugin Commands: ZigBee Link Light (ZLL) Commissioning

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ABORT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_CHANNEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ENDPOINTS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_FORM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_GROUPS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_INFO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_JOINABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_DEVICE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_IDENTIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_RESET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_MASK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_RESET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_TOKENS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_UNUSED

6.35.1 Detailed Description

The ZigBee Link Light (ZLL) Commissioning Plugin contributes several commands to the application framework's CLI. These commands are used for forming and managing a ZLL network.

6.35.2 Define Documentation

6.35.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ABORT

plugin zll-commissioning abort

- Abort the touch link procedure.

Definition at line 1537 of file [cli.h](#).

6.35.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_G_PLUGIN_ZLL_COMMISIONING_CHANNEL

plugin zll-commissioning channel [channel:1]

- Set the scan channel used by the ZLL Commissioning plugin.
 - channel - INT8U - The channel to be used.

Definition at line 1543 of file [cli.h](#).

6.35.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_G_PLUGIN_ZLL_COMMISIONING_ENDPOINTS

plugin zll-commissioning endpoints [destination:2] [sourceEndpoint:1] [destinationEndpoint:1] [startIndex:1]

- Send a GetEndpointListRequest to a server.
 - destination - INT16U - The network address of the device to which the request will be sent.
 - sourceEndpoint - INT8U - The source endpoint from which the request will be sent.
 - destinationEndpoint - INT8U - The destination endpoint to which the request will be sent.
 - startIndex - INT8U - The endpoint index at which to start retrieving data.

Definition at line 1552 of file [cli.h](#).

6.35.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_G_PLUGIN_ZLL_COMMISIONING_FORM

plugin zll-commissioning form [channel:1] [power:1] [panId:2]

- Form a ZLL network.
 - channel - INT8U - The channel on which to form the network.
 - power - INT8S - The power setting for network transmissions.
 - panId - INT16U - The PAN identifier for the network.

Definition at line 1560 of file [cli.h](#).

6.35.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_G_PLUGIN_ZLL_COMMISIONING_GROUPS

plugin zll-commissioning groups [destination:2] [sourceEndpoint:1] [destinationEndpoint:1] [startIndex:1]

- Send a GroupIdentifiersRequest to a server.
 - destination - INT16U - The network address of the device to which the request will be sent.
 - sourceEndpoint - INT8U - The source endpoint from which the request will be sent.
 - destinationEndpoint - INT8U - The destination endpoint to which the request will be sent.
 - startIndex - INT8U - The group table index at which to start retrieving data.

Definition at line 1569 of file [cli.h](#).

6.35.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_INFO

plugin zll-commissioning info [destination:2] [sourceEndpoint:1] [destinationEndpoint:1]

- *Send an EndpointInformationRequest to a client.*
 - destination - INT16U - The network address of the device to which the request will be sent.
 - sourceEndpoint - INT8U - The source endpoint from which the request will be sent.
 - destinationEndpoint - INT8U - The destination endpoint to which the request will be sent.

Definition at line 1577 of file [cli.h](#).

6.35.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_JOINABLE

plugin zll-commissioning joinable

- *Scan for joinable networks and attempt to join if a network is found.*

Definition at line 1582 of file [cli.h](#).

6.35.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK

plugin zll-commissioning link

- *Initiate the touch link procedure.*

Definition at line 1587 of file [cli.h](#).

6.35.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_DEVICE

plugin zll-commissioning link device

- *Initiate a touch link for the purpose of retrieving information about a target device.*

Definition at line 1592 of file [cli.h](#).

6.35.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_IDENTIFY

plugin zll-commissioning link identify

- *Initiate a touch link for the purpose of causing a target device to identify itself.*

Definition at line 1597 of file [cli.h](#).

6.35.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMMISSIONING_PLUGIN_ZLL_COMMISIONING_LINK_RESET

plugin zll-commissioning link reset

- *Initiate a touch link for the purpose of resetting a target device.*

Definition at line 1602 of file [cli.h](#).

6.35.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_PLUGIN_ZLL_COMMISIONING_MASK

plugin zll-commissioning mask [index:1]

- *Set the scan channel set used by the ZLL Commissioning plugin. An index of 0 sets the primary ZLL channel set, 1 is the +1 channel set, 2 is the +2 channel set, 3 is the +3 channel set, and 4 is all ZigBee channels.*

– index - INT8U - The index of the channel mask to be used.

Definition at line 1608 of file [cli.h](#).

6.35.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_PLUGIN_ZLL_COMMISIONING_RESET

plugin zll-commissioning reset

- *Reset the local device to factory new.*

Definition at line 1613 of file [cli.h](#).

6.35.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_PLUGIN_ZLL_COMMISIONING_STATUS

plugin zll-commissioning status

- *Print the ZLL channel set and tokens.*

Definition at line 1618 of file [cli.h](#).

6.35.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISIONING_PLUGIN_ZLL_COMMISIONING_TOKENS

plugin zll-commissioning tokens

- *Print the ZLL tokens.*

Definition at line 1623 of file [cli.h](#).

6.35.2.16 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMMISSIONING_PLUGIN_ZLL_COMMISIONING_UNUSED

plugin zll-commissioning unused

- Scan for an unused PAN identifier and form a new ZLL network.

Definition at line 1628 of file [cli.h](#).

6.36 Security

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_ALLOW_PARTNER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_INTERPAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_PARTNER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_START
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_LINK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_NETWORK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEY_UPDATE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_DELETE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_INSTALL_CODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_LINK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_REGISTER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITYAPS_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITYAPS_ON

6.36.1 Detailed Description

The Security command set includes all of the commands related to security configuration on the device.

6.36.2 Define Documentation

6.36.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_ALLOW_PARTNER

cbke allow-partner [allowPartner:1]

- Set the allow partner flag within the device for Certificate Based Key Exchange
 - allowPartner - INT8U - Boolean value to allow or disallow partner based key exchange

Definition at line 1644 of file [cli.h](#).

6.36.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_INTERPAN

cbke interpan [panId:2] [ieee:8]

- Perform Certificate Based Key Exchange over interpan
 - panId - INT16U - The 2 byte pan id of the partner with whom to start cbke
 - ieee - IEEE_ADDRESS - The ieee address (EmberEUI64) of the partner with whom to start cbke

Definition at line 1651 of file [cli.h](#).

6.36.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_PARTNER
cbke partner [nodeId:2] [endpoint:1]

- *Initiate partner link key exchange.*
 - nodeId - INT16U - The 2 byte short address of the node
 - endpoint - INT8U - The endpoint of the device with whom ot start cbke.

Definition at line 1658 of file [cli.h](#).

6.36.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_START
cbke start [partnerId:2]

- *Start the Certificate Based Key Exchange process.*
 - partnerId - INT16U - The short address of the device with which to start cbke

Definition at line 1664 of file [cli.h](#).

6.36.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_LINK
changekey link [key:-1]

- *Change the link key to the one provided in the 16 byte array argument for this command.*
 - key - OCTET_STRING - The link key provided as a 16 byte array

Definition at line 1670 of file [cli.h](#).

6.36.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_NETWORK

changekey network [key:-1]

- *Change the network key to the 16 byte array provided as an argument to this command.*
 - key - OCTET_STRING - The network key provided as a 16 byte array

Definition at line 1676 of file [cli.h](#).

6.36.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEY_UPDATE
key-update

- *Begins the process of switching the network key to a new random key (valid for Trust Center node only)*

Definition at line 1681 of file [cli.h](#).

6.36.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_CLEAR**keys clear**

- *Clear all security keys*

Definition at line 1686 of file [cli.h](#).

6.36.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_DELETE**keys delete [index:1]**

- *Delete a security key from a given index*
 - index - INT8U - index into the security key table

Definition at line 1692 of file [cli.h](#).

6.36.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_PRINT**keys print**

- *Print all security keys out to the command line.*

Definition at line 1697 of file [cli.h](#).

6.36.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_INSTALL_CODE**option install-code [keyTableIndex:1] [ieeeAddress:8] [installCode:-1]**

- *Inserts an install code into the device.*
 - keyTableIndex - INT8U - index into the code table
 - ieeeAddress - IEEE_ADDRESS - IEEE address to enter into the address table
 - installCode - OCTET_STRING - link key to enter into the table

Definition at line 1705 of file [cli.h](#).

6.36.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_LINK**option link [keyTableIndex:1] [ieeeAddress:8] [linkKey:-1]**

- *Sets a link key in the link key table. Example: option link 0x00 { 06 00 ab 41 64 30 00 0a } {aa bb cc dd ee ff aa bb cc dd ee ff aa bb cc dd}*
 - keyTableIndex - INT8U - index into the link key table
 - ieeeAddress - IEEE_ADDRESS - IEEE address to enter into the address table
 - linkKey - OCTET_STRING - link key to enter into the table

Definition at line 1713 of file [cli.h](#).

6.36.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_REGISTER

option register

- *Initiates Smart Energy Registration including Key Establishment. This command expects that the device has already joined a smart energy network.*

Definition at line 1718 of file [cli.h](#).

6.36.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITY_APSS_OFF

option security aps off

- *Turns aps security off*

Definition at line 1723 of file [cli.h](#).

6.36.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITY_APSS_ON

option security aps on

- *Turns aps security on*

Definition at line 1728 of file [cli.h](#).

6.37 Test Harness

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSAPS_SEC_FOR_CLUST_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_EST_HARNESSOTA_IMAGE_ANGLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSAPS_SEC_FOR_CLUST_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_CERT_MANAGER_CORRUPT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_CERT_MANAGER_ISSUER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_CERT_MANAGER_LENGTH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_CERT_MANAGER_SUBJECT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_DEFAULT_RESP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_DELAY_C_BKE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_NEW_KEY_POLICY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_NO_RESOURCES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_NORMAL_MODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE_TIMEOUT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEY_UPDATE_BROADCAST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEY_UPDATE_NOW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEY_UPDATE_UNICAST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_OUT_OF_SEQUENCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_PRICE_SEND_NEW_FIELDS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_SEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_START
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_ATTR_READ_FRAG_RESPONSE

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_ON

6.37.1 Detailed Description

All commands related to the testing of a device.

6.37.2 Define Documentation

6.37.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSAPS_SE-C_FOR_CLUST_ON

test-harness aps-sec-for-clust on [clusterId:2]

- *This turns on indication that the specified cluster requires APS security. This does not override the normal rules by the SE profile for security. It simply supplements the rules with one additional cluster that requires APS security.*

– clusterId - INT16U - The cluster to be turned on requiring APS security.

Definition at line 1743 of file [cli.h](#).

6.37.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_EST_HARNESS_OTA_IMAGE_MANGLE

est-harness ota image-mangle

- *This will mangle the image stored in the OTA Simple Storage RAM Driver. Only available when the OTA Simple Storage RAM driver plugin is enabled. This is really only useful in simulated testing. For testing on real hardware it is better to use a Linux box with a set of images, one of which is corrupted.*

Definition at line 1748 of file [cli.h](#).

6.37.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSAPS_SE-C_FOR_CLUST_OFF

test-harness aps-sec-for-clust off

- *This turns off indication that the specified cluster requires APS security. This does not override the normal rules by the SE profile for security. It simply supplements the rules with one additional cluster that requires APS security.*

Definition at line 1753 of file [cli.h](#).

6.37.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CONTEXT_MANGLE_CORRUPT

test-harness ke cert-mangle corrupt [index:1]

- This will rewrite the 'index' byte of the certificate field of the initiate key establishment message to corrupt the certificate. It will bit-flip the 'index' byte to change its value.
 - index - INT8U - The new index byte of the certificate field.

Definition at line 1759 of file [cli.h](#).

6.37.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CONTEXT_MANGLE_ISSUER

test-harness ke cert-mangle issuer [newIssuerValue:-1]

- This will rewrite the issuer field of the certificate with the 'new-issuer-value' when the initiate key establishment message is sent out.
 - newIssuerValue - OCTET_STRING - The new issuer value.

Definition at line 1765 of file [cli.h](#).

6.37.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CONTEXT_MANGLE_LENGTH

test-harness ke cert-mangle length [signedLength:1]

- This will modify the initiate key establishment message length by +/- 'signed-length' bytes.
 - signedLength - INT8S - The number of bytes to add or remove on the initiate ke message.

Definition at line 1771 of file [cli.h](#).

6.37.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CONTEXT_MANGLE_SUBJECT

test-harness ke cert-mangle subject [newSubjectValue:-1]

- This will rewrite the subject field (EUI64) of the certificate with the 'new-subject-value' when the initiate key establishment message is sent out.
 - newSubjectValue - OCTET_STRING - The new subject value.

Definition at line 1777 of file [cli.h](#).

6.37.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_DEFAULT_RESP

test-harness ke default-resp

- *The device will send a "Default Response (Failure)" in response to any attempt to initiate KE with it. As a client, it will send a Default Response after receiving the Initiate Key establishment response.*

Definition at line 1782 of file [cli.h](#).

6.37.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_DELAY_CBKE

test-harness ke delay-cbke [delayTimeInSeconds:2] [advertisedDelayInSeconds:2]

- *This command causes the test harness to introduce artificial delays to the ephemeral key and confirm key generation time. It will delay generation by 'delay-time-seconds' so it takes longer than normal. Thus the ephemeral data request/response message will be delayed. The 'advertised-delay-seconds' is the amount of time that the local device tells the partner it will take them (in the Initiate KE message). If the delay-time-seconds <= advertised-delay-seconds, then key establishment should complete successfully but just be delayed. If delay-time-seconds > advertised-delay-seconds then the partner device should timeout the operation as the local device will take longer than expected. However the local device will still send the ephemeral data message in an attempt to continue key establishment. It is expected that the partner will reject this attempt and send back a Terminate message.*

- delayTimeInSeconds - INT16U - The number of seconds to delay.
- advertisedDelayInSeconds - INT16U - The advertised delay time in seconds.

Definition at line 1789 of file [cli.h](#).

6.37.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_NEW_KEY_POLICY

test-harness ke new-key-policy [policyFlag:1]

- *This will change the policy of whether the TC allows new link keys into its table. Normally all devices are pre-configured in the TC with an install code and so the TC must have prior knowledge of the device in order to allow CBKE with it. However when running in the SE_TEST security mode the TC uses a global link key and so there is no prior knowledge.*

- policyFlag - INT8U - New policy boolean value.

Definition at line 1795 of file [cli.h](#).

6.37.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_NO_RESOURCES

test-harness ke no-resources

- The device will send a "Terminate Key Establishment Message (No resources)" in response to any attempt to initiate KE with it. As a client, it will send a Terminate message after receiving the Initiate Key establishment response.

Definition at line 1800 of file [cli.h](#).

6.37.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_NORMAL_MODE

test-harness ke normal-mode

- Sets normal mode for key establishment on the test harness, which suppresses any bad behavior and allows normal KE operation.

Definition at line 1805 of file [cli.h](#).

6.37.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_TIMOUT

test-harness ke timeout

- This command will induce a timeout by dropping the outgoing message instead of sending it. This will occur for every command, except when the device is a KE client sending the first message. In that case it will induce a timeout on the second message (ephemeral data request).

Definition at line 1810 of file [cli.h](#).

6.37.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KEY_UPDATE_BROADCAST

test-harness key-update broadcast

- This command will set the key-update method to use broadcast (as opposed to unicast) to update all devices at the same time with the new NWK key.

Definition at line 1815 of file [cli.h](#).

6.37.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KEY_UPDATE_NOW

test-harness key-update now

- Start the NWK key update process now.

Definition at line 1820 of file [cli.h](#).

6.37.2.16 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KEY_UPDATE_UNICAST

test-harness key-update unicast

- This command will set the key-update method to use unicast (as opposed to broadcast) to individually update devices with the new NWK key.

Definition at line 1825 of file [cli.h](#).

6.37.2.17 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_OUT_OF_SEQUENCE

test-harness out-of-sequence [commandId:2]

- This command will send an out-of-sequence message during key establishment. It will look for the local device to send the command with the passed 'ID' and will send a different command ID. So if the outgoing command is Initiate KE (ID 0) and the passed ID = 0, then it will send an Ephemeral Data Command (ID 1) instead.
 - commandId - INT16U - The command id that the test harness is looking for.

Definition at line 1831 of file [cli.h](#).

6.37.2.18 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_PRICE_SEND_NEW_FIELDS

test-harness price send-new-fields [sendPublishPriceCmd:1]

- This will tell the price server whether or not it should send publish price commands with the new SE 1.1 fields: Number of Block Threshholds and Price Control. Defaults to TRUE.
 - sendPublishPriceCmd - INT8U - New policy boolean value for the sending of publish price commands.

Definition at line 1837 of file [cli.h](#).

6.37.2.19 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_OFF

test-harness registration off

- Turns off automatic Smart Energy Registration after joining or reboot. Default is on.

Definition at line 1842 of file [cli.h](#).

6.37.2.20 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_ON

test-harness registration on

- *Turns on automatic Smart Energy Registration after joining or reboot. Default is on.*

Definition at line 1847 of file [cli.h](#).

6.37.2.21 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_STATUS

test-harness status

- *Prints the current mode of the test harness.*

Definition at line 1852 of file [cli.h](#).

6.37.2.22 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_SEND

test-harness tc-keepalive send

- *This command will cause the device to immediatley send a Trust Center Keepalive message.*

Definition at line 1857 of file [cli.h](#).

6.37.2.23 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_START

test-harness tc-keepalive start

- *Turn on the keepalive state machine so starts periodically sending keepalive messages.*

Definition at line 1862 of file [cli.h](#).

6.37.2.24 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_STOP

test-harness tc-keepalive stop

- *Turn off the keepalive state machine so it does not periodically send keepalive messages.*

Definition at line 1867 of file [cli.h](#).

6.37.2.25 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_ATTR_READ_FRAGMENTED_RESPONSE

zcl attr-read-frag-response

- *This is a command used for testing that generates an attribute read command which requests so many attributes that the returned response is fragmented.*

Definition at line 1872 of file [cli.h](#).

6.37.2.26 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_OFF

zcl test response off

- *Sets a flag so that the application framework WILL NOT respond to the next ZCL message that comes in over the air.*

Definition at line 1877 of file [cli.h](#).

6.37.2.27 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_ON

zcl test response on

- *Sets a flag so that the application framework WILL respond to the next ZCL message that comes in over the air.*

Definition at line 1882 of file [cli.h](#).

6.38 ZigBee Network Management Commands (ZDO)

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_ACTIVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_BIND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IEEE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_MATCH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_CHAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SCAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_SIMPLE

6.38.1 Detailed Description

Commands related to the management of a ZigBee network including device discovery and commissioning.

6.38.2 Define Documentation

6.38.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_ACTIVE

zdo active [nodeId:2]

- Send an active endpoint request to the device with the given short id.
 - nodeId - INT16U - Two byte short id, destination for the active endpoint request

Definition at line 1898 of file [cli.h](#).

6.38.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_BIND

zdo bind [destination:2] [localEndpoint:1] [remoteEndpoint:1] [cluster:2] [sourceIEEE:8] [destIEEE:8]

- Send a ZDO Bind command to a device specified in the command arguments.

NOTE: For simple bind requests, just put {} as the last argument. More complex requests, you can actually specify the dest EUI64 the binding, which is NOT the same as the EUI64 of the destination of the device receiving the binding. This allows for a user to set multiple bindings on the destination for different devices.

NOTE: The source/dest EUI are relative to the context. In the case of the syntax of the CLI, we take "THEIR EUI64" to mean the recipient of the binding request message. However, when sending the bind request that EUI64 used by the ZDO command is actually the source for the binding because we are telling the remote device (the destination) to create a binding with a source of itself. And the destination for that binding will be this local device. This is also not to be confused with the (short) destination of the ZDO request itself.

- destination - INT16U - Two byte destination node id
- localEndpoint - INT8U - Local endpoint to bind
- remoteEndpoint - INT8U - Remote endpoint to bind
- cluster - INT16U - Cluster on which to bind
- sourceIEEE - IEEE_ADDRESS
- destIEEE - IEEE_ADDRESS

Definition at line 1924 of file [cli.h](#).

6.38.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IEEE

zdo ieee [nodeId:2]

- *Request an ieee address based on a given node id.*
 - nodeId - INT16U - Short address of the device for which a long address is requested

Definition at line 1930 of file [cli.h](#).

6.38.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_ADD

zdo in-cl-list add [clusterIds:-1]

- *Add clusters to the known server (in) clusters on this device.*
 - clusterIds - OCTET_STRING - Array of two byte server cluster ids

Definition at line 1936 of file [cli.h](#).

6.38.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_CLEAR

zdo in-cl-list clear

- *Clear the ZDO list of server (in) clusters.*

Definition at line 1941 of file [cli.h](#).

6.38.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_MATCH

zdo match [nodeId:2] [profile:2]

- *Sends a matchDescriptorsRequest to the given destination with the given profile.*
 - nodeId - INT16U - Two byte node id indicating wher
 - profile - INT16U - Two byte profile id for the match descriptor request

Definition at line 1948 of file [cli.h](#).

6.38.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NODE**zdo node [target:2]**

- Sends a node descriptor request to a given target device
 - target - INT16U - Two byte address for the target device.

Definition at line 1954 of file [cli.h](#).

6.38.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK**zdo nwk [ieee:8]**

- Sends a network address request for the given IEEE address.
 - ieee - IEEE_ADDRESS - IEEE address for which a short address is being requested

Definition at line 1960 of file [cli.h](#).

6.38.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_CHAN**zdo nwk-upd chan [channel:1]**

- Sends an update channel request.
 - channel - INT8U - One byte channel to change to.

Definition at line 1966 of file [cli.h](#).

6.38.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SCAN**zdo nwk-upd scan [targetNodeId:2] [scanDuration:1] [scanCount:2]**

- Performs an energy scan.
 - targetNodeId - INT16U - Two byte short id of the target device
 - scanDuration - INT8U - One byte scan duration. Must be in range 0 - 5
 - scanCount - INT16U - Number of scans to perform. Must be in range 1 - 8

Definition at line 1974 of file [cli.h](#).

6.38.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SET**zdo nwk-upd set [nwkMgrId:2] [channelMask:4]**

- Sends a set network manager request for the given network manager node id and active channels provided in the 4 byte channel mask.
 - nwkMgrId - INT16U - Two byte network manager id
 - channelMask - INT32U - Four byte channel mask

Definition at line 1981 of file [cli.h](#).

**6.38.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_ADD
zdo out-cl-list add**

- Add clusters to the known client (out) clusters on this device.

Definition at line 1986 of file [cli.h](#).

6.38.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_CL-EAR

zdo out-cl-list clear

- Clear the ZDO list of client (out) clusters.

Definition at line 1991 of file [cli.h](#).

6.38.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_SIMPLE

zdo simple [dest:2] [targetEndpoint:1]

- Sends out a simple descriptor request for the short address and endpoint specified.
 - dest - INT16U - Short address of the device where the simple descriptor request should be sent
 - targetEndpoint - INT8U - The endpoint on the target device where the simple descriptor request will be sent

Definition at line 1998 of file [cli.h](#).

6.39 Cluster Commands: Over the Air Bootloading Cluster

Defines

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BLOCK_TEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BOOTLOAD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_DELETE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_INFO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PAGE_REQUEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PRINT_IMAGES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_START
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_VERIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_DELETE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_NOTIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICY_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_MISS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_SUP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYQUERY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYUPGRADE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_PRINT_IMAGES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_RELOAD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_UPGRADE

6.39.1 Detailed Description

This group describes the CLI commands for the Over the Air Bootloading Cluster cluster. Listed below is a description of the cluster:

Zigbee Over-the-air Bootloading cluster

6.39.2 Define Documentation

6.39.2.1 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BLOCK_TEST

zcl ota client block-test

- Sends an image block request for a file the server should not have. Test harness only (test case 9.5.6 - Missing File)

Definition at line 2253 of file [cli.h](#).

6.39.2.2 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BOOTLOAD

zcl ota client bootload [index:1]

- Bootloads the image at the specified index by calling the OTA bootload callback.
- index - INT8U - The index at which to begin bootloading the image

Definition at line 2259 of file [cli.h](#).

6.39.2.3 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_DELETE

zcl ota client delete [index:1]

- Deletes the image located at the index specified
- index - INT8U - The location of the image to delete

Definition at line 2265 of file [cli.h](#).

6.39.2.4 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_INFO

zcl ota client info

- Prints the manufacturer ID, Image Type ID, and Version information that are used when a query next image is sent to the server by the client

Definition at line 2270 of file [cli.h](#).

6.39.2.5 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PAGE_REQUEST

zcl ota client page-request [pageRequest:1]

- – pageRequest - INT8U - boolean value turning on (1) or off (0) the page request flag

Definition at line 2276 of file [cli.h](#).

6.39.2.6 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PRINT_IMAGES

zcl ota client printImages

- *Stops the OTA state machine*

Definition at line 2281 of file [cli.h](#).

6.39.2.7 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_START

zcl ota client start

- *Starts the ota client state machine. The state machine discovers the OTA server; queries for new images, downloads the images and waits for the server command to upgrade*

Definition at line 2286 of file [cli.h](#).

6.39.2.8 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STATUS

zcl ota client status

- *Prints information on the current state of the OTA client download.*

Definition at line 2291 of file [cli.h](#).

6.39.2.9 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STOP

zcl ota client stop

- *Stops the OTA state machine*

Definition at line 2296 of file [cli.h](#).

6.39.2.10 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_VERIFY

zcl ota client verify [index:1]

- *Perform signature verification on the image at the specified index*
 - index - INT8U - The index at which to begin verification of the image

Definition at line 2302 of file [cli.h](#).

6.39.2.11 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_DELETE

zcl ota server delete

- *Delete the ota server image.*

Definition at line [2307](#) of file [cli.h](#).

6.39.2.12 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_NOTIFY

zcl ota server notify [destination:2] [payloadType:1] [jitter:1] [manuf-id:2] [device-id:2] [version:2]

- *sends an OTA Image Notify message to the specified destination indicating a new version of an image is available for download. All fields in the CLI command must be specified. However if the payload type is less than 3, those values will be ignored and not included in the message.*
 - destination - INT16U - short address of the destination where the image notify message will be sent
 - payloadType - INT8U - 0: Include only jitter field, 1: Include jitter and manuf-id, 2: Include jitter, manuf-id, and device-id, 3: Include jitter, manuf-id, device-id, and version
 - jitter - INT8U - jitter for the command
 - manuf-id - INT16U - manufacturer id for the image
 - device-id - INT16U - device id for the image
 - version - INT16U - software version for the image

Definition at line [2318](#) of file [cli.h](#).

6.39.2.13 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICY_PRINT

zcl ota server policy print

- *Prints the policies used by the OTA Server Policy Plugin*

Definition at line [2323](#) of file [cli.h](#).

6.39.2.14 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_MISS

zcl ota server policypage-req-miss

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Definition at line [2328](#) of file [cli.h](#).

6.39.2.15 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_SUP

zcl ota server policypage-req-sup

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Definition at line [2333](#) of file [cli.h](#).

6.39.2.16 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYQUERY

zcl ota server policyquery [policyValue:1]

- *Sets the policy used by the OTA Server Policy Plugin when it receives a query request from the client.*
 - policyValue - INT8U - 0: Upgrade if server has newer (default), 1: Downgrade if server has older, 2: Reinstall if server has same, 3: No next version (no next image is available for download)

Definition at line [2339](#) of file [cli.h](#).

6.39.2.17 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYUPGRADE

zcl ota server policyupgrade [policyValue:1]

- *Sets the policy used by the OTA Server Policy Plugin when it receives an upgrade end request*
 - policyValue - INT8U - 0: Upgrade Now (default), 1: Upgrade in 2 minutes, 2: Ask me later to upgrade, 3: Abort Upgrade (send default response)

Definition at line [2345](#) of file [cli.h](#).

6.39.2.18 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_PRINT_IMAGES

zcl ota server printImages

- *Prints all images that are stored in the OTA storage module along with their index*

Definition at line [2350](#) of file [cli.h](#).

6.39.2.19 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_RELOAD

zcl ota server reload

- *Reinitialize the OTA storage device*

Definition at line [2355](#) of file [cli.h](#).

6.39.2.20 #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_UPGRADE

zcl ota server upgrade [nodeId:2] [endpoint:1]

- *Instruct a device to upgrade now.*

- nodeId - INT16U - device id for the image
- endpoint - INT8U - software version for the image

Definition at line [2362](#) of file [cli.h](#).

Chapter 7

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Files

- file [simple-metering-test.h](#)

7.42 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/smart-energy-registration/ Directory Reference

Files

- file [smart-energy-registration.h](#)

7.43 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/temperature-measurement/ Directory Reference

Files

- file [temperature-measurement.h](#)

7.44 C:/dev/perforce/software/v2/znet-4.6/app/framework/test/ Directory Reference

Directories

- directory [headers](#)

7.45 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/test-harness/ Directory Reference

Files

- file [test-harness-cli.h](#)
- file [test-harness.h](#)

7.46 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/thermostat/ Directory Reference

Files

- file [thermostat.h](#)

**7.47 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/time-client/
Directory Reference****Files**

- file [time-client.h](#)

**7.48 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/time-server/
Directory Reference****Files**

- file [time-server.h](#)

**7.49 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/trust-center-
backup/ Directory Reference****Files**

- file [trust-center-backup.h](#)

**7.50 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/trust-center-
keepalive/ Directory Reference****Files**

- file [trust-center-keepalive.h](#)

**7.51 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/trust-center-
nwk-key-update-broadcast/ Directory Reference****Files**

- file [trust-center-nwk-key-update-broadcast.h](#)

**7.52 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/trust-center-
nwk-key-update-periodic/ Directory Reference****Files**

- file [trust-center-nwk-key-update-periodic.h](#)

7.53 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/trust-center-nwk-key-update-unicast/ Directory Reference

Files

- file [trust-center-nwk-key-update-unicast.h](#)

7.54 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/tunneling-client/ Directory Reference

Files

- file [tunneling-client.h](#)

7.55 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/tunneling-server/ Directory Reference

Files

- file [tunneling-server.h](#)

7.56 C:/dev/perforce/software/v2/znet-4.6/app/framework/util/ Directory Reference

Files

- file [client-api.h](#)

7.57 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/zll-commissioning/ Directory Reference

Files

- file [zll-commissioning.h](#)

7.58 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/zll-level-control-server/ Directory Reference

Files

- file [zll-level-control-server.h](#)

7.59 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/zll-on-off-server/ Directory Reference

Files

- file [zll-on-off-server.h](#)

7.60 C:/dev/perforce/software/v2/znet-4.6/app/framework/plugin/zll-scenes- server/ Directory Reference

Files

- file [zll-scenes-server.h](#)

Chapter 8

Data Structure Documentation

8.1 _BlockThreshold Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [blockThreshold](#)
- int8u [priceControl](#)
- int32u [blockPeriodStartTime](#)
- int32u [blockPeriodDurationMinutes](#)
- int8u [fuelType](#)
- int32u [standingCharge](#)

8.1.1 Detailed Description

Definition at line [115](#) of file [af-structs.h](#).

8.1.2 Field Documentation

8.1.2.1 int8u _BlockThreshold::blockThreshold

Definition at line [116](#) of file [af-structs.h](#).

8.1.2.2 int8u _BlockThreshold::priceControl

Definition at line [117](#) of file [af-structs.h](#).

8.1.2.3 int32u _BlockThreshold::blockPeriodStartTime

Definition at line [118](#) of file [af-structs.h](#).

8.1.2.4 int32u _BlockThreshold::blockPeriodDurationMinutes

Definition at line 119 of file [af-structs.h](#).

8.1.2.5 int8u _BlockThreshold::fuelType

Definition at line 120 of file [af-structs.h](#).

8.1.2.6 int32u _BlockThreshold::standingCharge

Definition at line 121 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.2 _ChatParticipant Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [uid](#)
- int8u * [nickname](#)

8.2.1 Detailed Description

Definition at line 144 of file [af-structs.h](#).

8.2.2 Field Documentation

8.2.2.1 int16u _ChatParticipant::uid

Definition at line 145 of file [af-structs.h](#).

8.2.2.2 int8u* _ChatParticipant::nickname

Definition at line 146 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.3 _ChatRoom Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [cid](#)
- int8u * [name](#)

8.3.1 Detailed Description

Definition at line [151](#) of file [af-structs.h](#).

8.3.2 Field Documentation

8.3.2.1 int16u _ChatRoom::cid

Definition at line [152](#) of file [af-structs.h](#).

8.3.2.2 int8u* _ChatRoom::name

Definition at line [153](#) of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.4 _ConfigureReportingRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [direction](#)
- int16u [attributeId](#)
- int8u [attributeType](#)
- int16u [minimumReportingInterval](#)
- int16u [maximumReportingInterval](#)
- int8u [reportableChangeLocation](#)
- int16u [timeoutPeriod](#)

8.4.1 Detailed Description

Definition at line [45](#) of file [af-structs.h](#).

8.4.2 Field Documentation

8.4.2.1 int8u _ConfigureReportingRecord::direction

Definition at line [46](#) of file [af-structs.h](#).

8.4.2.2 int16u _ConfigureReportingRecord::attributeId

Definition at line 47 of file [af-structs.h](#).

8.4.2.3 int8u _ConfigureReportingRecord::attributeType

Definition at line 48 of file [af-structs.h](#).

8.4.2.4 int16u _ConfigureReportingRecord::minimumReportingInterval

Definition at line 49 of file [af-structs.h](#).

8.4.2.5 int16u _ConfigureReportingRecord::maximumReportingInterval

Definition at line 50 of file [af-structs.h](#).

8.4.2.6 int8u _ConfigureReportingRecord::reportableChangeLocation

Definition at line 51 of file [af-structs.h](#).

8.4.2.7 int16u _ConfigureReportingRecord::timeoutPeriod

Definition at line 52 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.5 _ConfigureReportingStatusRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [status](#)
- int8u [direction](#)
- int16u [attributeId](#)

8.5.1 Detailed Description

Definition at line 57 of file [af-structs.h](#).

8.5.2 Field Documentation**8.5.2.1 int8u _ConfigureReportingStatusRecord::status**

Definition at line 58 of file [af-structs.h](#).

8.5.2.2 int8u _ConfigureReportingStatusRecord::direction

Definition at line 59 of file [af-structs.h](#).

8.5.2.3 int16u _ConfigureReportingStatusRecord::attributeId

Definition at line 60 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.6 _DeviceInformationRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u * [ieeeAddress](#)
- int8u [endpointId](#)
- int16u [profileId](#)
- int16u [deviceId](#)
- int8u [version](#)
- int8u [groupIdCount](#)
- int8u [sort](#)

8.6.1 Detailed Description

Definition at line 213 of file [af-structs.h](#).

8.6.2 Field Documentation

8.6.2.1 int8u* _DeviceInformationRecord::ieeeAddress

Definition at line 214 of file [af-structs.h](#).

8.6.2.2 int8u _DeviceInformationRecord::endpointId

Definition at line 215 of file [af-structs.h](#).

8.6.2.3 int16u _DeviceInformationRecord::profileId

Definition at line 216 of file [af-structs.h](#).

8.6.2.4 int16u _DeviceInformationRecord::deviceId

Definition at line 217 of file [af-structs.h](#).

8.6.2.5 int8u _DeviceInformationRecord::version

Definition at line 218 of file [af-structs.h](#).

8.6.2.6 int8u _DeviceInformationRecord::groupIdCount

Definition at line 219 of file [af-structs.h](#).

8.6.2.7 int8u _DeviceInformationRecord::sort

Definition at line 220 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.7 _DiscoverAttributesInfoRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [attributeId](#)
- int8u [attributeType](#)

8.7.1 Detailed Description

Definition at line 93 of file [af-structs.h](#).

8.7.2 Field Documentation

8.7.2.1 int16u _DiscoverAttributesInfoRecord::attributeId

Definition at line 94 of file [af-structs.h](#).

8.7.2.2 int8u _DiscoverAttributesInfoRecord::attributeType

Definition at line 95 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.8 _EndpointInformationRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u `networkAddress`
- int8u `endpointId`
- int16u `profileId`
- int16u `deviceId`
- int8u `version`

8.8.1 Detailed Description

Definition at line 232 of file [af-structs.h](#).

8.8.2 Field Documentation

8.8.2.1 int16u _EndpointInformationRecord::networkAddress

Definition at line 233 of file [af-structs.h](#).

8.8.2.2 int8u _EndpointInformationRecord::endpointId

Definition at line 234 of file [af-structs.h](#).

8.8.2.3 int16u _EndpointInformationRecord::profileId

Definition at line 235 of file [af-structs.h](#).

8.8.2.4 int16u _EndpointInformationRecord::deviceId

Definition at line 236 of file [af-structs.h](#).

8.8.2.5 int8u _EndpointInformationRecord::version

Definition at line 237 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.9 _GroupInformationRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u `groupId`
- int8u `groupType`

8.9.1 Detailed Description

Definition at line 225 of file [af-structs.h](#).

8.9.2 Field Documentation

8.9.2.1 int16u _GroupInformationRecord::groupId

Definition at line 226 of file [af-structs.h](#).

8.9.2.2 int8u _GroupInformationRecord::groupType

Definition at line 227 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.10 _NeighborInfo Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u * [neighbor](#)
- int16s [x](#)
- int16s [y](#)
- int16s [z](#)
- int8s [rssi](#)
- int8u [numberRssiMeasurements](#)

8.10.1 Detailed Description

Definition at line 133 of file [af-structs.h](#).

8.10.2 Field Documentation

8.10.2.1 int8u* _NeighborInfo::neighbor

Definition at line 134 of file [af-structs.h](#).

8.10.2.2 int16s _NeighborInfo::x

Definition at line 135 of file [af-structs.h](#).

8.10.2.3 int16s _NeighborInfo::y

Definition at line 136 of file [af-structs.h](#).

8.10.2.4 int16s _NeighborInfo::z

Definition at line 137 of file [af-structs.h](#).

8.10.2.5 int8s _NeighborInfo::rssI

Definition at line 138 of file [af-structs.h](#).

8.10.2.6 int8u _NeighborInfo::numberRssiMeasurements

Definition at line 139 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.11 _NodeInformation Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [uid](#)
- int16u [address](#)
- int8u [endpoint](#)
- int8u * [nickname](#)

8.11.1 Detailed Description

Definition at line 158 of file [af-structs.h](#).

8.11.2 Field Documentation

8.11.2.1 int16u _NodeInformation::uid

Definition at line 159 of file [af-structs.h](#).

8.11.2.2 int16u _NodeInformation::address

Definition at line 160 of file [af-structs.h](#).

8.11.2.3 int8u _NodeInformation::endpoint

Definition at line 161 of file [af-structs.h](#).

8.11.2.4 int8u* _NodeInformation::nickname

Definition at line 162 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.12 _Notification Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [contentId](#)
- int8u [statusFeedback](#)

8.12.1 Detailed Description

Definition at line 126 of file [af-structs.h](#).

8.12.2 Field Documentation

8.12.2.1 int16u _Notification::contentId

Definition at line 127 of file [af-structs.h](#).

8.12.2.2 int8u _Notification::statusFeedback

Definition at line 128 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.13 _PowerProfileRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [powerProfileId](#)
- int8u [energyPhaseId](#)
- int8u [powerProfileState](#)

8.13.1 Detailed Description

Definition at line [205](#) of file [af-structs.h](#).

8.13.2 Field Documentation

8.13.2.1 int8u _PowerProfileRecord::powerProfileId

Definition at line [206](#) of file [af-structs.h](#).

8.13.2.2 int8u _PowerProfileRecord::energyPhaseId

Definition at line [207](#) of file [af-structs.h](#).

8.13.2.3 int8u _PowerProfileRecord::powerProfileState

Definition at line [208](#) of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.14 _Protocol Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [manufacturerCode](#)
- int8u [protocolId](#)

8.14.1 Detailed Description

Definition at line [14](#) of file [af-structs.h](#).

8.14.2 Field Documentation

8.14.2.1 int16u _Protocol::manufacturerCode

Definition at line [15](#) of file [af-structs.h](#).

8.14.2.2 int8u _Protocol::protocolId

Definition at line 16 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.15 _ReadAttributeStatusRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [attributeId](#)
- int8u [status](#)
- int8u [attributeType](#)
- int8u [attributeLocation](#)

8.15.1 Detailed Description

Definition at line 21 of file [af-structs.h](#).

8.15.2 Field Documentation

8.15.2.1 int16u _ReadAttributeStatusRecord::attributeId

Definition at line 22 of file [af-structs.h](#).

8.15.2.2 int8u _ReadAttributeStatusRecord::status

Definition at line 23 of file [af-structs.h](#).

8.15.2.3 int8u _ReadAttributeStatusRecord::attributeType

Definition at line 24 of file [af-structs.h](#).

8.15.2.4 int8u _ReadAttributeStatusRecord::attributeLocation

Definition at line 25 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.16 _ReadReportingConfigurationAttributeRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [direction](#)
- int16u [attributeId](#)

8.16.1 Detailed Description

Definition at line [78](#) of file [af-structs.h](#).

8.16.2 Field Documentation

8.16.2.1 int8u _ReadReportingConfigurationAttributeRecord::direction

Definition at line [79](#) of file [af-structs.h](#).

8.16.2.2 int16u _ReadReportingConfigurationAttributeRecord::attributeId

Definition at line [80](#) of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.17 _ReadReportingConfigurationRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [status](#)
- int8u [direction](#)
- int16u [attributeId](#)
- int8u [attributeType](#)
- int16u [minimumReportingInterval](#)
- int16u [maximumReportingInterval](#)
- int8u [reportableChangeLocation](#)
- int16u [timeoutPeriod](#)

8.17.1 Detailed Description

Definition at line [65](#) of file [af-structs.h](#).

8.17.2 Field Documentation

8.17.2.1 int8u _ReadReportingConfigurationRecord::status

Definition at line 66 of file [af-structs.h](#).

8.17.2.2 int8u _ReadReportingConfigurationRecord::direction

Definition at line 67 of file [af-structs.h](#).

8.17.2.3 int16u _ReadReportingConfigurationRecord::attributeId

Definition at line 68 of file [af-structs.h](#).

8.17.2.4 int8u _ReadReportingConfigurationRecord::attributeType

Definition at line 69 of file [af-structs.h](#).

8.17.2.5 int16u _ReadReportingConfigurationRecord::minimumReportingInterval

Definition at line 70 of file [af-structs.h](#).

8.17.2.6 int16u _ReadReportingConfigurationRecord::maximumReportingInterval

Definition at line 71 of file [af-structs.h](#).

8.17.2.7 int8u _ReadReportingConfigurationRecord::reportableChangeLocation

Definition at line 72 of file [af-structs.h](#).

8.17.2.8 int16u _ReadReportingConfigurationRecord::timeoutPeriod

Definition at line 73 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.18 _ReportAttributeRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [attributeId](#)
- int8u [attributeType](#)
- int8u [attributeLocation](#)

8.18.1 Detailed Description

Definition at line 85 of file [af-structs.h](#).

8.18.2 Field Documentation

8.18.2.1 int16u _ReportAttributeRecord::attributeId

Definition at line 86 of file [af-structs.h](#).

8.18.2.2 int8u _ReportAttributeRecord::attributeType

Definition at line 87 of file [af-structs.h](#).

8.18.2.3 int8u _ReportAttributeRecord::attributeLocation

Definition at line 88 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.19 _SceneExtensionAttributeInfo Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [attributeType](#)
- int8u [attributeLocation](#)

8.19.1 Detailed Description

Definition at line 100 of file [af-structs.h](#).

8.19.2 Field Documentation

8.19.2.1 int8u _SceneExtensionAttributeInfo::attributeType

Definition at line 101 of file [af-structs.h](#).

8.19.2.2 int8u _SceneExtensionAttributeInfo::attributeLocation

Definition at line 102 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.20 _SceneExtensionFieldSet Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [clusterId](#)
- int8u [length](#)
- int8u [value](#)

8.20.1 Detailed Description

Definition at line [107](#) of file [af-structs.h](#).

8.20.2 Field Documentation

8.20.2.1 int16u _SceneExtensionFieldSet::clusterId

Definition at line [108](#) of file [af-structs.h](#).

8.20.2.2 int8u _SceneExtensionFieldSet::length

Definition at line [109](#) of file [af-structs.h](#).

8.20.2.3 int8u _SceneExtensionFieldSet::value

Definition at line [110](#) of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.21 _ScheduledPhase Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [energyPhaseId](#)
- int16u [scheduledTime](#)

8.21.1 Detailed Description

Definition at line [187](#) of file [af-structs.h](#).

8.21.2 Field Documentation

8.21.2.1 int8u _ScheduledPhase::energyPhaseId

Definition at line 188 of file [af-structs.h](#).

8.21.2.2 int16u _ScheduledPhase::scheduledTime

Definition at line 189 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.22 _TransferredPhase Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [energyPhaseId](#)
- int8u [macroPhaseId](#)
- int16u [expectedDuration](#)
- int16u [peakPower](#)
- int16u [energy](#)
- int16u [maxActivationDelay](#)

8.22.1 Detailed Description

Definition at line 194 of file [af-structs.h](#).

8.22.2 Field Documentation

8.22.2.1 int8u _TransferredPhase::energyPhaseId

Definition at line 195 of file [af-structs.h](#).

8.22.2.2 int8u _TransferredPhase::macroPhaseId

Definition at line 196 of file [af-structs.h](#).

8.22.2.3 int16u _TransferredPhase::expectedDuration

Definition at line 197 of file [af-structs.h](#).

8.22.2.4 int16u _TransferredPhase::peakPower

Definition at line 198 of file [af-structs.h](#).

8.22.2.5 int16u _TransferredPhase::energy

Definition at line 199 of file [af-structs.h](#).

8.22.2.6 int16u _TransferredPhase::maxActivationDelay

Definition at line 200 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.23 _WriteAttributeRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int16u [attributeId](#)
- int8u [attributeType](#)
- int8u [attributeLocation](#)

8.23.1 Detailed Description

Definition at line 30 of file [af-structs.h](#).

8.23.2 Field Documentation

8.23.2.1 int16u _WriteAttributeRecord::attributeId

Definition at line 31 of file [af-structs.h](#).

8.23.2.2 int8u _WriteAttributeRecord::attributeType

Definition at line 32 of file [af-structs.h](#).

8.23.2.3 int8u _WriteAttributeRecord::attributeLocation

Definition at line 33 of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.24 _WriteAttributeStatusRecord Struct Reference

```
#include <af-structs.h>
```

Data Fields

- int8u [status](#)
- int16u [attributeId](#)

8.24.1 Detailed Description

Definition at line [38](#) of file [af-structs.h](#).

8.24.2 Field Documentation

8.24.2.1 int8u _WriteAttributeStatusRecord::status

Definition at line [39](#) of file [af-structs.h](#).

8.24.2.2 int16u _WriteAttributeStatusRecord::attributeId

Definition at line [40](#) of file [af-structs.h](#).

The documentation for this struct was generated from the following file:

- [af-structs.h](#)

8.25 EmAfOtaStorageLinuxConfig Struct Reference

```
#include <ota-storage-linux.h>
```

Data Fields

- boolean [memoryDebug](#)
- boolean [fileDebug](#)
- boolean [fieldDebug](#)
- boolean [ignoreFilesWithUnderscorePrefix](#)
- boolean [printFileDiscoveryOrRemoval](#)
- [EmAfOtaStorageFileAddedHandler](#) * [fileAddedHandler](#)

8.25.1 Detailed Description

Definition at line [5](#) of file [ota-storage-linux.h](#).

8.25.2 Field Documentation

8.25.2.1 boolean EmAfOtaStorageLinuxConfig::memoryDebug

Definition at line 6 of file [ota-storage-linux.h](#).

8.25.2.2 boolean EmAfOtaStorageLinuxConfig::fileDebug

Definition at line 7 of file [ota-storage-linux.h](#).

8.25.2.3 boolean EmAfOtaStorageLinuxConfig::fieldDebug

Definition at line 8 of file [ota-storage-linux.h](#).

8.25.2.4 boolean EmAfOtaStorageLinuxConfig::ignoreFilesWithUnderscorePrefix

Definition at line 9 of file [ota-storage-linux.h](#).

8.25.2.5 boolean EmAfOtaStorageLinuxConfig::printFileDiscoveryOrRemoval

Definition at line 10 of file [ota-storage-linux.h](#).

8.25.2.6 EmAfOtaStorageFileAddedHandler* EmAfOtaStorageLinuxConfig::fileAddedHandler

Definition at line 11 of file [ota-storage-linux.h](#).

The documentation for this struct was generated from the following file:

- [ota-storage-linux.h](#)

8.26 EmberAfAllowedInterPanMessage Struct Reference

```
#include <af-types.h>
```

Data Fields

- [EmberAfProfileId profileId](#)
- [EmberAfClusterId clusterId](#)
- int8u [commandId](#)
- [EmberAfAllowedInterpanOptions options](#)

8.26.1 Detailed Description

This structure is used define an interpan message that will be accepted by the interpan filters.

Definition at line 369 of file [af-types.h](#).

8.26.2 Field Documentation

8.26.2.1 EmberAfProfileId EmberAfAllowedInterPanMessage::profileId

Definition at line 370 of file [af-types.h](#).

8.26.2.2 EmberAfClusterId EmberAfAllowedInterPanMessage::clusterId

Definition at line 371 of file [af-types.h](#).

8.26.2.3 int8u EmberAfAllowedInterPanMessage::commandId

Definition at line 372 of file [af-types.h](#).

8.26.2.4 EmberAfAllowedInterpanOptions EmberAfAllowedInterPanMessage::options

Definition at line 373 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.27 EmberAfAttributeMetadata Struct Reference

```
#include <af-types.h>
```

Data Fields

- [EmberAfAttributeId attributeId](#)
- [EmberAfAttributeType attributeType](#)
- int8u [size](#)
- [EmberAfAttributeMask mask](#)
- [EmberAfDefaultOrMinMaxAttributeValue defaultValue](#)

8.27.1 Detailed Description

Each attribute has it's metadata stored in such struct.

There is only one of these per attribute across all endpoints.

Definition at line 134 of file [af-types.h](#).

8.27.2 Field Documentation

8.27.2.1 EmberAfAttributeId EmberAfAttributeMetadata::attributeId

Attribute ID, according to ZCL specs.

Definition at line 138 of file [af-types.h](#).

8.27.2.2 EmberAfAttributeType EmberAfAttributeMetadata::attributeType

Attribute type, according to ZCL specs.

Definition at line 142 of file [af-types.h](#).

8.27.2.3 int8u EmberAfAttributeMetadata::size

Size of this attribute in bytes.

Definition at line 146 of file [af-types.h](#).

8.27.2.4 EmberAfAttributeMask EmberAfAttributeMetadata::mask

Attribute mask, tagging attribute with specific functionality. See ATTRIBUTE_MASK_ macros defined in [att-storage.h](#).

Definition at line 152 of file [af-types.h](#).

8.27.2.5 EmberAfDefaultOrMinMaxAttributeValue EmberAfAttributeMetadata::defaultValue

Pointer to the default value union. Actual value stored depends on the mask.

Definition at line 157 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.28 EmberAfAttributeMinMaxValue Struct Reference

```
#include <af-types.h>
```

Data Fields

- [EmberAfDefaultAttributeValue defaultValue](#)
- [EmberAfDefaultAttributeValue minValue](#)
- [EmberAfDefaultAttributeValue maxValue](#)

8.28.1 Detailed Description

Type describing the attribute default, min and max values.

This struct is required if the attribute mask specifies that this attribute has a known min and max values.

Definition at line 92 of file [af-types.h](#).

8.28.2 Field Documentation

8.28.2.1 EmberAfDefaultAttributeValue EmberAfAttributeMinMaxValue::defaultValue

Default value of the attribute.

Definition at line 96 of file [af-types.h](#).

8.28.2.2 EmberAfDefaultAttributeValue EmberAfAttributeMinMaxValue::minValue

Minimum allowed value

Definition at line 100 of file [af-types.h](#).

8.28.2.3 EmberAfDefaultAttributeValue EmberAfAttributeMinMaxValue::maxValue

Maximum allowed value.

Definition at line 104 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.29 EmberAfAttributeSearchRecord Struct Reference

```
#include <af-types.h>
```

Data Fields

- int8u [endpoint](#)
- [EmberAfClusterId](#) [clusterId](#)
- [EmberAfClusterMask](#) [clusterMask](#)
- [EmberAfAttributeId](#) [attributeId](#)
- int16u [manufacturerCode](#)

8.29.1 Detailed Description

Struct used to find an attribute in storage. Together the elements in this search record constitute the "primary key" used to identify a unique attribute value in attribute storage.

Definition at line 200 of file [af-types.h](#).

8.29.2 Field Documentation

8.29.2.1 int8u EmberAfAttributeSearchRecord::endpoint

Endpoint that the attribute is located on

Definition at line 205 of file [af-types.h](#).

8.29.2.2 EmberAfClusterId EmberAfAttributeSearchRecord::clusterId

Cluster that the attribute is located on. If the cluster id is inside the manufacturer specific range, 0xfc00 - 0xffff, The manufacturer code should also be set to the code associated with the manufacturer specific cluster.

Definition at line 213 of file [af-types.h](#).

8.29.2.3 EmberAfClusterMask EmberAfAttributeSearchRecord::clusterMask

Cluster mask for the cluster, used to determine if it is the server or client version of the cluster. See CLUSTER_MASK_ macros defined in [att-storage.h](#)

Definition at line 220 of file [af-types.h](#).

8.29.2.4 EmberAfAttributeId EmberAfAttributeSearchRecord::attributeId

The two byte identifier for the attribute. If the cluster id is inside the manufacturer specific range 0xfc00 - 0xffff, or the manufacturer code is NOT 0, the attribute is assumed to be manufacturer specific.

Definition at line 227 of file [af-types.h](#).

8.29.2.5 int16u EmberAfAttributeSearchRecord::manufacturerCode

Manufacturer Code associated with the cluster and or attribute. If the cluster id is inside the manufacturer specific range, this value should indicate the manufacturer code for the manufacturer specific cluster. - Otherwise if this value is non zero, and the cluster id is a standard ZCL cluster, it is assumed that the attribute being sought is a manufacturer specific extension to the standard ZCL cluster indicated by the cluster id.

Definition at line 238 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.30 EmberAfCluster Struct Reference

```
#include <af-types.h>
```

Data Fields

- [EmberAfClusterId clusterId](#)
- [EmberAfAttributeMetadata * attributes](#)
- [int16u attributeCount](#)
- [int16u clusterSize](#)
- [EmberAfClusterMask mask](#)
- [const EmberAfGenericClusterFunction * functions](#)

8.30.1 Detailed Description

Struct describing cluster.

Definition at line 163 of file [af-types.h](#).

8.30.2 Field Documentation

8.30.2.1 EmberAfClusterId EmberAfCluster::clusterId

ID of cluster according to ZCL spec

Definition at line 167 of file [af-types.h](#).

8.30.2.2 EmberAfAttributeMetadata* EmberAfCluster::attributes

Pointer to attribute metadata array for this cluster.

Definition at line 171 of file [af-types.h](#).

8.30.2.3 int16u EmberAfCluster::attributeCount

Total number of attributes

Definition at line 175 of file [af-types.h](#).

8.30.2.4 int16u EmberAfCluster::clusterSize

Total size of non-external, non-singleton attribute for this cluster.

Definition at line 179 of file [af-types.h](#).

8.30.2.5 EmberAfClusterMask EmberAfCluster::mask

Mask with additional functionality for cluster. See CLUSTER_MASK macros.

Definition at line 184 of file [af-types.h](#).

8.30.2.6 const EmberAfGenericClusterFunction* EmberAfCluster::functions

An array into the cluster functions. The length of the array is determined by the function bits in mask. This may be null if this cluster has no functions.

Definition at line 191 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.31 EmberAfClusterCommand Struct Reference

```
#include <af-types.h>
```

Data Fields

- EmberApsFrame * `apsFrame`
- EmberIncomingMessageType `type`
- EmberNodeId `source`
- int8u * `buffer`
- int16u `bufLen`
- boolean `clusterSpecific`
- boolean `mfgSpecific`
- int16u `mfgCode`
- int8u `seqNum`
- int8u `commandId`
- int8u `payloadstartIndex`
- int8u `direction`
- EmberAfInterpanHeader * `interPanHeader`

8.31.1 Detailed Description

The EmberAFClusterCommand is a struct wrapper for all the data pertaining to a command which comes in over the air. This enables struct is used to encapsulate a command in a single place on the stack and pass a pointer to that location around during command processing.

Definition at line 385 of file `af-types.h`.

8.31.2 Field Documentation

8.31.2.1 EmberApsFrame* EmberAfClusterCommand::apsFrame

Aps frame for the incoming message

Definition at line 389 of file `af-types.h`.

8.31.2.2 EmberIncomingMessageType EmberAfClusterCommand::type

Definition at line 390 of file `af-types.h`.

8.31.2.3 EmberNodeId EmberAfClusterCommand::source

Definition at line 391 of file `af-types.h`.

8.31.2.4 int8u* EmberAfClusterCommand::buffer

Definition at line 392 of file `af-types.h`.

8.31.2.5 int16u EmberAfClusterCommand::bufLen

Definition at line 393 of file `af-types.h`.

8.31.2.6 boolean EmberAfClusterCommand::clusterSpecific

Definition at line 394 of file [af-types.h](#).

8.31.2.7 boolean EmberAfClusterCommand::mfgSpecific

Definition at line 395 of file [af-types.h](#).

8.31.2.8 int16u EmberAfClusterCommand::mfgCode

Definition at line 396 of file [af-types.h](#).

8.31.2.9 int8u EmberAfClusterCommand::seqNum

Definition at line 397 of file [af-types.h](#).

8.31.2.10 int8u EmberAfClusterCommand::commandId

Definition at line 398 of file [af-types.h](#).

8.31.2.11 int8u EmberAfClusterCommand::payloadstartIndex

Definition at line 399 of file [af-types.h](#).

8.31.2.12 int8u EmberAfClusterCommand::direction

Definition at line 400 of file [af-types.h](#).

8.31.2.13 EmberAfInterpanHeader* EmberAfClusterCommand::interPanHeader

Definition at line 401 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.32 EmberAfDefaultAttributeValue Union Reference

```
#include <af-types.h>
```

Data Fields

- int8u * [ptrToDefaultValue](#)
- int16u [defaultValue](#)

8.32.1 Detailed Description

Type for default values.

Default value is either a value itself, if it is 2 bytes or less, or a pointer to the value itself, if attribute type is longer than 2 bytes.

Definition at line 73 of file [af-types.h](#).

8.32.2 Field Documentation

8.32.2.1 int8u* EmberAfDefaultAttributeValue::ptrToDefaultValue

Points to data if size is more than 2 bytes. If size is more than 2 bytes, and this value is NULL, then the default value is all zeroes.

Definition at line 79 of file [af-types.h](#).

8.32.2.2 int16u EmberAfDefaultAttributeValue::defaultValue

Actual default value if the attribute size is 2 bytes or less.

Definition at line 83 of file [af-types.h](#).

The documentation for this union was generated from the following file:

- [af-types.h](#)

8.33 EmberAfDefaultOrMinMaxAttributeValue Union Reference

```
#include <af-types.h>
```

Data Fields

- [int8u * ptrToDefaultValue](#)
- [int16u defaultValue](#)
- [EmberAfAttributeMinMaxValue * ptrToMinMaxValue](#)

8.33.1 Detailed Description

Union describing the attribute default/min/max values.

Definition at line 110 of file [af-types.h](#).

8.33.2 Field Documentation

8.33.2.1 int8u* EmberAfDefaultOrMinMaxAttributeValue::ptrToDefaultValue

Points to data if size is more than 2 bytes. If size is more than 2 bytes, and this value is NULL, then the default value is all zeroes.

Definition at line 116 of file [af-types.h](#).

8.33.2.2 int16u EmberAfDefaultOrMinMaxAttributeValue::defaultValue

Actual default value if the attribute size is 2 bytes or less.

Definition at line 120 of file [af-types.h](#).

8.33.2.3 EmberAfAttributeMinMaxValue* EmberAfDefaultOrMinMaxAttributeValue::ptrToMinMaxValue

Points to the min max attribute value structure, if min/max is supported for this attribute.

Definition at line 125 of file [af-types.h](#).

The documentation for this union was generated from the following file:

- [af-types.h](#)

8.34 EmberAfDefinedEndpoint Struct Reference

```
#include <af-types.h>
```

Data Fields

- int8u [endpoint](#)
- [EmberAfProfileId](#) [profileId](#)
- int16u [deviceId](#)
- int8u [deviceVersion](#)
- [EmberAfEndpointType](#) * [endpointType](#)

8.34.1 Detailed Description

Struct that maps actual endpoint type, onto a specific endpoint.

Definition at line 426 of file [af-types.h](#).

8.34.2 Field Documentation

8.34.2.1 int8u EmberAfDefinedEndpoint::endpoint

Actual ZigBee endpoint number.

Definition at line 430 of file [af-types.h](#).

8.34.2.2 EmberAfProfileId EmberAfDefinedEndpoint::profileId

Profile ID of the device on this endpoint.

Definition at line 434 of file [af-types.h](#).

8.34.2.3 int16u EmberAfDefinedEndpoint::deviceId

Device ID of the device on this endpoint.

Definition at line 438 of file [af-types.h](#).

8.34.2.4 int8u EmberAfDefinedEndpoint::deviceVersion

Version of the device.

Definition at line 442 of file [af-types.h](#).

8.34.2.5 EmberAfEndpointType* EmberAfDefinedEndpoint::endpointType

Endpoint type for this endpoint.

Definition at line 446 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.35 EmberAfEndpointList Struct Reference

```
#include <af-types.h>
```

Data Fields

- int8u [count](#)
- const int8u * [list](#)

8.35.1 Detailed Description

A list of endpoints received during a service discovery attempt. This will be returned for a match descriptor request and a active endpoint request.

Definition at line 570 of file [af-types.h](#).

8.35.2 Field Documentation

8.35.2.1 int8u EmberAfEndpointList::count

Definition at line 571 of file [af-types.h](#).

8.35.2.2 const int8u* EmberAfEndpointList::list

Definition at line 572 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.36 EmberAfEndpointType Struct Reference

```
#include <af-types.h>
```

Data Fields

- `EmberAfCluster * cluster`
- `int8u clusterCount`
- `int16u endpointSize`

8.36.1 Detailed Description

Endpoint type struct describes clusters that are on the endpoint.

Definition at line 407 of file [af-types.h](#).

8.36.2 Field Documentation

8.36.2.1 EmberAfCluster* EmberAfEndpointType::cluster

Pointer to the cluster structs, describing clusters on this endpoint type.

Definition at line 412 of file [af-types.h](#).

8.36.2.2 int8u EmberAfEndpointType::clusterCount

Number of clusters in this endpoint type.

Definition at line 416 of file [af-types.h](#).

8.36.2.3 int16u EmberAfEndpointType::endpointSize

Size of all non-external, non-singlet attribute in this endpoint type.

Definition at line 420 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.37 EmberAfEventContext Struct Reference

```
#include <af-types.h>
```

Data Fields

- `int8u endpoint`
- `int16u clusterId`
- `boolean isClient`

- `EmberAfEventSleepControl sleepControl`
- `EmberEventControl * eventControl`

8.37.1 Detailed Description

a structure used to keep track of cluster related events and their sleep control values. The cluster code will not know at runtime all of the events that it has access to in the event table. This structure is stored by the application framework in an event context table which along with helper functions allows the cluster code to schedule and deactivate its associated events.

Definition at line [623](#) of file `af-types.h`.

8.37.2 Field Documentation

8.37.2.1 `int8u EmberAfEventContext::endpoint`

The endpoint of the associated cluster event.

Definition at line [627](#) of file `af-types.h`.

8.37.2.2 `int16u EmberAfEventContext::clusterId`

The cluster id of the associated cluster event.

Definition at line [631](#) of file `af-types.h`.

8.37.2.3 `boolean EmberAfEventContext::isClient`

The server/client identity of the associated cluster event.

Definition at line [635](#) of file `af-types.h`.

8.37.2.4 `EmberAfEventSleepControl EmberAfEventContext::sleepControl`

A sleep control value used to control the processor's sleep behavior while the event is active..

Definition at line [640](#) of file `af-types.h`.

8.37.2.5 `EmberEventControl* EmberAfEventContext::eventControl`

A pointer to the event control value which is stored in the event table and is used to actually schedule the event.

Definition at line [645](#) of file `af-types.h`.

The documentation for this struct was generated from the following file:

- `af-types.h`

8.38 EmberAflasZoneTableEntry Struct Reference

```
#include <ias-zone-table.h>
```

Data Fields

- int16u [zoneType](#)
- int8u [ieeeAdd](#) [8]

8.38.1 Detailed Description

Definition at line [26](#) of file [ias-zone-table.h](#).

8.38.2 Field Documentation

8.38.2.1 int16u EmberAfIasZoneTableEntry::zoneType

Definition at line [27](#) of file [ias-zone-table.h](#).

8.38.2.2 int8u EmberAfIasZoneTableEntry::ieeeAdd[8]

Definition at line [28](#) of file [ias-zone-table.h](#).

The documentation for this struct was generated from the following file:

- [ias-zone-table.h](#)

8.39 EmberAfIncomingMessage Struct Reference

```
#include <af-types.h>
```

Data Fields

- EmberIncomingMessageType [type](#)
- EmberApsFrame * [apsFrame](#)
- int8u * [message](#)
- int16u [msgLen](#)
- int16u [source](#)
- int8u [lastHopLqi](#)
- int8s [lastHopRssi](#)
- int8u [bindingTableIndex](#)
- int8u [addressTableIndex](#)

8.39.1 Detailed Description

a struct containing the superset of values passed to both emberIncomingMessageHandler on the SOC and ezspIncomingMessageHandler on the host.

Definition at line [255](#) of file [af-types.h](#).

8.39.2 Field Documentation

8.39.2.1 EmberIncomingMessageType EmberAfIncomingMessage::type

The type of the incoming message

Definition at line [259](#) of file [af-types.h](#).

8.39.2.2 EmberApsFrame* EmberAfIncomingMessage::apsFrame

Aps frame for the incoming message

Definition at line [263](#) of file [af-types.h](#).

8.39.2.3 int8u* EmberAfIncomingMessage::message

The message copied into a flat buffer

Definition at line [267](#) of file [af-types.h](#).

8.39.2.4 int16u EmberAfIncomingMessage::msgLen

Length of the incoming message

Definition at line [271](#) of file [af-types.h](#).

8.39.2.5 int16u EmberAfIncomingMessage::source

Two byte node id of the sending node.

Definition at line [275](#) of file [af-types.h](#).

8.39.2.6 int8u EmberAfIncomingMessage::lastHopLqi

Link quality from the node that last relayed the message.

Definition at line [280](#) of file [af-types.h](#).

8.39.2.7 int8s EmberAfIncomingMessage::lastHopRssi

The energy level (in units of dBm) observed during the reception.

Definition at line [284](#) of file [af-types.h](#).

8.39.2.8 int8u EmberAfIncomingMessage::bindingTableIndex

The index of a binding that matches the message or 0xFF if there is no matching binding.

Definition at line [289](#) of file [af-types.h](#).

8.39.2.9 int8u EmberAfIncomingMessage::addressTableIndex

The index of the entry in the address table that matches the sender of the message or 0xFF if there is no matching entry.

Definition at line 295 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.40 EmberAfInterpanHeader Struct Reference

```
#include <af-types.h>
```

Data Fields

- [EmberAfInterpanMessageType messageType](#)
- [EmberEUI64 longAddress](#)
- [EmberNodeId shortAddress](#)
- [EmberPanId panId](#)
- [EmberAfProfileId profileId](#)
- [EmberAfClusterId clusterId](#)
- [EmberMulticastId groupId](#)
- [EmberAfInterpanOptions options](#)

8.40.1 Detailed Description

Interpan header used for sending and receiving interpan messages.

Definition at line 326 of file [af-types.h](#).

8.40.2 Field Documentation

8.40.2.1 EmberAfInterpanMessageType EmberAfInterpanHeader::messageType

Definition at line 327 of file [af-types.h](#).

8.40.2.2 EmberEUI64 EmberAfInterpanHeader::longAddress

MAC addressing For outgoing messages this is the destination. For incoming messages it is the source, which always has a long address.

Definition at line 334 of file [af-types.h](#).

8.40.2.3 EmberNodeId EmberAfInterpanHeader::shortAddress

Definition at line 335 of file [af-types.h](#).

8.40.2.4 EmberPanId EmberAfInterpanHeader::panId

Definition at line 336 of file [af-types.h](#).

8.40.2.5 EmberAfProfileId EmberAfInterpanHeader::profileId

APS data

Definition at line 341 of file [af-types.h](#).

8.40.2.6 EmberAfClusterId EmberAfInterpanHeader::clusterId

Definition at line 342 of file [af-types.h](#).

8.40.2.7 EmberMulticastId EmberAfInterpanHeader::groupId

The groupId is only used for EMBER_AF_INTERPAN_MULTICAST

Definition at line 347 of file [af-types.h](#).

8.40.2.8 EmberAfInterpanOptions EmberAfInterpanHeader::options

Definition at line 348 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.41 EmberAfLinkKeyBackupData Struct Reference

```
#include <af-types.h>
```

Data Fields

- EmberEUI64 [deviceId](#)
- EmberKeyData [key](#)

8.41.1 Detailed Description

A data struct for a link key backup.

Each entry notes the EUI64 of the device it is paired to and the key data. This key may be hashed and not the actual link key currently in use.

Definition at line 1169 of file [af-types.h](#).

8.41.2 Field Documentation

8.41.2.1 EmberEUI64 EmberAfLinkKeyBackupData::deviceId

Definition at line 1170 of file [af-types.h](#).

8.41.2.2 EmberKeyData EmberAfLinkKeyBackupData::key

Definition at line 1171 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.42 EmberAfLoadControlEvent Struct Reference

```
#include <af-types.h>
```

Data Fields

- int32u [eventId](#)
- int8u [destinationEndpoint](#)
- int16u [deviceClass](#)
- int8u [utilityEnrollmentGroup](#)
- int32u [startTime](#)
- int16u [duration](#)
- int8u [criticalityLevel](#)
- int8u [coolingTempOffset](#)
- int8u [heatingTempOffset](#)
- int16s [coolingTempSetPoint](#)
- int16s [heatingTempSetPoint](#)
- int8s [avgLoadPercentage](#)
- int8u [dutyCycle](#)
- int8u [eventControl](#)
- int16u [startRand](#)
- int16u [endRand](#)
- int8u [optionControl](#)

8.42.1 Detailed Description

Struct that describes a load control event.

This is used in the load control event callback and within the demand response load control cluster code.

Definition at line 472 of file [af-types.h](#).

8.42.2 Field Documentation

8.42.2.1 int32u EmberAfLoadControlEvent::eventId

Definition at line 473 of file [af-types.h](#).

8.42.2.2 int8u EmberAfLoadControlEvent::destinationEndpoint

Definition at line 483 of file [af-types.h](#).

8.42.2.3 int16u EmberAfLoadControlEvent::deviceClass

Definition at line 484 of file [af-types.h](#).

8.42.2.4 int8u EmberAfLoadControlEvent::utilityEnrollmentGroup

Definition at line 485 of file [af-types.h](#).

8.42.2.5 int32u EmberAfLoadControlEvent::startTime

Start time in seconds

Definition at line 489 of file [af-types.h](#).

8.42.2.6 int16u EmberAfLoadControlEvent::duration

Duration in minutes

Definition at line 493 of file [af-types.h](#).

8.42.2.7 int8u EmberAfLoadControlEvent::criticalityLevel

Definition at line 494 of file [af-types.h](#).

8.42.2.8 int8u EmberAfLoadControlEvent::coolingTempOffset

Definition at line 495 of file [af-types.h](#).

8.42.2.9 int8u EmberAfLoadControlEvent::heatingTempOffset

Definition at line 496 of file [af-types.h](#).

8.42.2.10 int16s EmberAfLoadControlEvent::coolingTempSetPoint

Definition at line 497 of file [af-types.h](#).

8.42.2.11 int16s EmberAfLoadControlEvent::heatingTempSetPoint

Definition at line 498 of file [af-types.h](#).

8.42.2.12 int8s EmberAfLoadControlEvent::avgLoadPercentage

Definition at line 499 of file [af-types.h](#).

8.42.2.13 int8u EmberAfLoadControlEvent::dutyCycle

Definition at line 500 of file [af-types.h](#).

8.42.2.14 int8u EmberAfLoadControlEvent::eventControl

Definition at line 501 of file [af-types.h](#).

8.42.2.15 int16u EmberAfLoadControlEvent::startRand

Definition at line 502 of file [af-types.h](#).

8.42.2.16 int16u EmberAfLoadControlEvent::endRand

Definition at line 503 of file [af-types.h](#).

8.42.2.17 int8u EmberAfLoadControlEvent::optionControl

Definition at line 504 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.43 EmberAfManufacturerCodeEntry Struct Reference

```
#include <af-types.h>
```

Data Fields

- int16u [index](#)
- int16u [manufacturerCode](#)

8.43.1 Detailed Description

A struct used to construct a table of manufacturer codes for manufacturer specific attributes and clusters.

Definition at line 245 of file [af-types.h](#).

8.43.2 Field Documentation

8.43.2.1 int16u EmberAfManufacturerCodeEntry::index

Definition at line 246 of file [af-types.h](#).

8.43.2.2 int16u EmberAfManufacturerCodeEntry::manufacturerCode

Definition at line 247 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.44 EmberAfOtaHeader Struct Reference

```
#include <af-types.h>
```

Data Fields

- int16u [headerVersion](#)
- int16u [headerLength](#)
- int16u [fieldControl](#)
- int16u [manufacturerId](#)
- int16u [imageTypeId](#)
- int32u [firmwareVersion](#)
- int16u [zigbeeStackVersion](#)
- int8u [headerString](#) [EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH+1]
- int32u [imageSize](#)
- int8u [securityCredentials](#)
- int8u [upgradeFileDestination](#) [EUI64_SIZE]
- int16u [minimumHardwareVersion](#)
- int16u [maximumHardwareVersion](#)

8.44.1 Detailed Description

This structure is an in-memory representation of the Over-the-air header data that resides on disk. It is not a byte-for-byte copy.

Definition at line 966 of file [af-types.h](#).

8.44.2 Field Documentation

8.44.2.1 int16u EmberAfOtaHeader::headerVersion

Definition at line 968 of file [af-types.h](#).

8.44.2.2 int16u EmberAfOtaHeader::headerLength

Definition at line 969 of file [af-types.h](#).

8.44.2.3 int16u EmberAfOtaHeader::fieldControl

Definition at line 970 of file [af-types.h](#).

8.44.2.4 int16u EmberAfOtaHeader::manufacturerId

Definition at line [971](#) of file [af-types.h](#).

8.44.2.5 int16u EmberAfOtaHeader::imageTypeId

Definition at line [972](#) of file [af-types.h](#).

8.44.2.6 int32u EmberAfOtaHeader::firmwareVersion

Definition at line [973](#) of file [af-types.h](#).

8.44.2.7 int16u EmberAfOtaHeader::zigbeeStackVersion

Definition at line [974](#) of file [af-types.h](#).

8.44.2.8 int8u EmberAfOtaHeader::headerString[EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH+1]

The spec. does NOT require that the string be NULL terminated in the header stored on disk. Therefore we make sure we can support a 32-character string without a NULL terminator by adding +1 in the data structure.

Definition at line [982](#) of file [af-types.h](#).

8.44.2.9 int32u EmberAfOtaHeader::imageSize

When reading the header this will be the complete length of the file. When writing the header, this must be set to the length of the MFG image data portion including all tags.

Definition at line [989](#) of file [af-types.h](#).

8.44.2.10 int8u EmberAfOtaHeader::securityCredentials

The remaining four fields are optional. The field control should be checked to determine if their values are valid.

Definition at line [995](#) of file [af-types.h](#).

8.44.2.11 int8u EmberAfOtaHeader::upgradeFileDestination[EUI64_SIZE]

Definition at line [996](#) of file [af-types.h](#).

8.44.2.12 int16u EmberAfOtaHeader::minimumHardwareVersion

Definition at line [997](#) of file [af-types.h](#).

8.44.2.13 int16u EmberAfOtaHeader::maximumHardwareVersion

Definition at line 998 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.45 EmberAfOtaImageId Struct Reference

```
#include <af-types.h>
```

Data Fields

- int16u [manufacturerId](#)
- int16u [imageTypeId](#)
- int32u [firmwareVersion](#)
- int8u [deviceSpecificFileEui64](#) [EUI64_SIZE]

8.45.1 Detailed Description

This is a unique identifier for referencing ZigBee Over-the-air upgrade images. It is used by the OTA plugins when passing around information about an upgrade file.

Definition at line 929 of file [af-types.h](#).

8.45.2 Field Documentation

8.45.2.1 int16u EmberAfOtaImageId::manufacturerId

Definition at line 930 of file [af-types.h](#).

8.45.2.2 int16u EmberAfOtaImageId::imageTypeId

Definition at line 931 of file [af-types.h](#).

8.45.2.3 int32u EmberAfOtaImageId::firmwareVersion

Definition at line 932 of file [af-types.h](#).

8.45.2.4 int8u EmberAfOtaImageId::deviceSpecificFileEui64[EUI64_SIZE]

This is only used for device specific files. It will be set to all 0's when the image does not have an upgrade destination field in it. Little endian format.

Definition at line 940 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.46 EmberAfPluginEsiManagementEsiEntry Struct Reference

```
#include <esi-management.h>
```

Data Fields

- EmberEUI64 [eui64](#)
- EmberNodeId [nodeId](#)
- int8u [endpoint](#)
- int8u [age](#)

8.46.1 Detailed Description

Definition at line [22](#) of file [esi-management.h](#).

8.46.2 Field Documentation

8.46.2.1 EmberEUI64 EmberAfPluginEsiManagementEsiEntry::eui64

Definition at line [23](#) of file [esi-management.h](#).

8.46.2.2 EmberNodeId EmberAfPluginEsiManagementEsiEntry::nodeId

Definition at line [24](#) of file [esi-management.h](#).

8.46.2.3 int8u EmberAfPluginEsiManagementEsiEntry::endpoint

Definition at line [25](#) of file [esi-management.h](#).

8.46.2.4 int8u EmberAfPluginEsiManagementEsiEntry::age

Definition at line [26](#) of file [esi-management.h](#).

The documentation for this struct was generated from the following file:

- [esi-management.h](#)

8.47 EmberAfPluginMessagingServerMessage Struct Reference

```
#include <messaging-server.h>
```

Data Fields

- int32u [messageId](#)
- int8u [messageControl](#)
- int32u [startTime](#)

- int16u `durationInMinutes`
- int8u `message` [EMBER_AF_PLUGIN_MESSAGING_SERVER_MESSAGE_SIZE+1]

8.47.1 Detailed Description

The message and metadata used by the Messaging server plugin.

The application can get and set the message used by the plugin by calling `emberAfPluginMessagingServerGetMessage` and `emberAfPluginMessagingServerSetMessage`.

Definition at line 28 of file `messaging-server.h`.

8.47.2 Field Documentation

8.47.2.1 int32u EmberAfPluginMessagingServerMessage::messageId

The unique unsigned 32-bit number identifier for this message.

Definition at line 30 of file `messaging-server.h`.

8.47.2.2 int8u EmberAfPluginMessagingServerMessage::messageControl

The control bitmask for this message.

Definition at line 32 of file `messaging-server.h`.

8.47.2.3 int32u EmberAfPluginMessagingServerMessage::startTime

The time at which the message becomes valid.

Definition at line 34 of file `messaging-server.h`.

8.47.2.4 int16u EmberAfPluginMessagingServerMessage::durationInMinutes

The amount of time in minutes after the start time during which the message is displayed.

Definition at line 38 of file `messaging-server.h`.

8.47.2.5 int8u EmberAfPluginMessagingServerMessage::message[EMBER_AF_PLUGIN_MESSAGING_SERVER_MESSAGE_SIZE+1]

The string containing the message to be delivered.

Definition at line 40 of file `messaging-server.h`.

The documentation for this struct was generated from the following file:

- `messaging-server.h`

8.48 EmberAfSceneTableEntry Struct Reference

```
#include <af-types.h>
```

Data Fields

- int8u [endpoint](#)
- int16u [groupId](#)
- int8u [sceneId](#)
- int16u [transitionTime](#)

8.48.1 Detailed Description

A structure used to store scene table entries in RAM or in tokens, depending on a plugin setting. If endpoint field is [EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID](#), the entry is unused.

Definition at line [703](#) of file [af-types.h](#).

8.48.2 Field Documentation

8.48.2.1 int8u EmberAfSceneTableEntry::endpoint

Definition at line [704](#) of file [af-types.h](#).

8.48.2.2 int16u EmberAfSceneTableEntry::groupId

Definition at line [705](#) of file [af-types.h](#).

8.48.2.3 int8u EmberAfSceneTableEntry::sceneId

Definition at line [706](#) of file [af-types.h](#).

8.48.2.4 int16u EmberAfSceneTableEntry::transitionTime

Definition at line [710](#) of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.49 EmberAfScheduledPrice Struct Reference

```
#include <price-server.h>
```

Data Fields

- int32u [providerId](#)
- int8u [rateLabel](#) [[ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH+1](#)]
- int32u [issuerEventID](#)
- int8u [unitOfMeasure](#)
- int16u [currency](#)
- int8u [priceTrailingDigitAndTier](#)

- int8u [numberOfPriceTiersAndTier](#)
- int32u [startTime](#)
- int16u [duration](#)
- int32u [price](#)
- int8u [priceRatio](#)
- int32u [generationPrice](#)
- int8u [generationPriceRatio](#)
- int32u [alternateCostDelivered](#)
- int8u [alternateCostUnit](#)
- int8u [alternateCostTrailingDigit](#)
- int8u [numberOfBlockThresholds](#)
- int8u [priceControl](#)

8.49.1 Detailed Description

The price and metadata used by the Price server plugin.

The application can get and set the prices used by the plugin by calling [emberAfPriceGetPriceTableEntry](#) and [emberAfPriceSetPriceTableEntry](#).

Definition at line [27](#) of file [price-server.h](#).

8.49.2 Field Documentation

8.49.2.1 int32u EmberAfScheduledPrice::providerId

Definition at line [28](#) of file [price-server.h](#).

8.49.2.2 int8u EmberAfScheduledPrice::rateLabel[ZCL_PRICE_CLUSTER_MAXIMUM_RATE-_LABEL_LENGTH+1]

Definition at line [29](#) of file [price-server.h](#).

8.49.2.3 int32u EmberAfScheduledPrice::issuerEventID

Definition at line [30](#) of file [price-server.h](#).

8.49.2.4 int8u EmberAfScheduledPrice::unitOfMeasure

Definition at line [31](#) of file [price-server.h](#).

8.49.2.5 int16u EmberAfScheduledPrice::currency

Definition at line [32](#) of file [price-server.h](#).

8.49.2.6 int8u EmberAfScheduledPrice::priceTrailingDigitAndTier

Definition at line [33](#) of file [price-server.h](#).

8.49.2.7 int8u EmberAfScheduledPrice::numberOfPriceTiersAndTier

Definition at line [34](#) of file [price-server.h](#).

8.49.2.8 int32u EmberAfScheduledPrice::startTime

Definition at line [35](#) of file [price-server.h](#).

8.49.2.9 int16u EmberAfScheduledPrice::duration

Definition at line [36](#) of file [price-server.h](#).

8.49.2.10 int32u EmberAfScheduledPrice::price

Definition at line [37](#) of file [price-server.h](#).

8.49.2.11 int8u EmberAfScheduledPrice::priceRatio

Definition at line [38](#) of file [price-server.h](#).

8.49.2.12 int32u EmberAfScheduledPrice::generationPrice

Definition at line [39](#) of file [price-server.h](#).

8.49.2.13 int8u EmberAfScheduledPrice::generationPriceRatio

Definition at line [40](#) of file [price-server.h](#).

8.49.2.14 int32u EmberAfScheduledPrice::alternateCostDelivered

Definition at line [41](#) of file [price-server.h](#).

8.49.2.15 int8u EmberAfScheduledPrice::alternateCostUnit

Definition at line [42](#) of file [price-server.h](#).

8.49.2.16 int8u EmberAfScheduledPrice::alternateCostTrailingDigit

Definition at line [43](#) of file [price-server.h](#).

8.49.2.17 int8u EmberAfScheduledPrice::numberOfBlockThresholds

Definition at line [44](#) of file [price-server.h](#).

8.49.2.18 int8u EmberAfScheduledPrice::priceControl

Definition at line 45 of file [price-server.h](#).

The documentation for this struct was generated from the following file:

- [price-server.h](#)

8.50 EmberAfServiceDiscoveryResult Struct Reference

```
#include <af-types.h>
```

Data Fields

- [EmberAfServiceDiscoveryStatus status](#)
- int16u [zdoRequestClusterId](#)
- EmberNodeId [matchAddress](#)
- const void * [responseData](#)

8.50.1 Detailed Description

A structure containing general information about the service discovery.

Definition at line 531 of file [af-types.h](#).

8.50.2 Field Documentation

8.50.2.1 EmberAfServiceDiscoveryStatus EmberAfServiceDiscoveryResult::status

The status indicates both the type of request (broadcast or unicast) and whether a response has been received.

Definition at line 536 of file [af-types.h](#).

8.50.2.2 int16u EmberAfServiceDiscoveryResult::zdoRequestClusterId

This indicates what ZDO request cluster was associated with the request. It is helpful for a callback that may be used for multiple ZDO request types to determine the type of data returned. This will be based on the ZDO cluster values defined in ember-types.h.

Definition at line 544 of file [af-types.h](#).

8.50.2.3 EmberNodeId EmberAfServiceDiscoveryResult::matchAddress

This is the address of the device that matched the request, which may be different than the device that **actually** is responding. This occurs when parents respond on behalf of their children.

Definition at line 551 of file [af-types.h](#).

8.50.2.4 `const void* EmberAfServiceDiscoveryResult::responseData`

Only if the status code indicates a response will this data be non-NULL. When there is data, the type is according to the ZDO cluster ID sent out. For NETWORK_ADDRESS_REQUEST or IEEE_ADDRESS_REQUEST, the long ID will be contained in the responseData, so it will be a value of type ::EmberEUI64. The short ID will be in the matchAddress parameter field. For the MATCH_DESCRIPTOR_REQUEST the responseData will point to an [EmberAfEndpointList](#) structure.

Definition at line [562](#) of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.51 EmberAfTagData Struct Reference

```
#include <af-types.h>
```

Data Fields

- int16u [id](#)
- int32u [length](#)

8.51.1 Detailed Description

This structure contains information about a tag that resides within an Over-the-air bootload file.

Definition at line [1005](#) of file [af-types.h](#).

8.51.2 Field Documentation

8.51.2.1 int16u EmberAfTagData::id

Definition at line [1006](#) of file [af-types.h](#).

8.51.2.2 int32u EmberAfTagData::length

Definition at line [1007](#) of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.52 EmberAfTrustCenterBackupData Struct Reference

```
#include <af-types.h>
```

Data Fields

- EmberEUI64 extendedPanId
- int8u keyListLength
- int8u maxKeyListLength
- EmberAfLinkKeyBackupData * keyList

8.52.1 Detailed Description

A data struct for all the trust center backup data.

The 'keyList' pointer must point to an array and 'maxKeyListLength' must be populated with the maximum number of entries the array can hold.

Functions that modify this data structure will populate 'keyListLength' indicating how many keys were actually written into 'keyList'.

Definition at line 1184 of file [af-types.h](#).

8.52.2 Field Documentation

8.52.2.1 EmberEUI64 EmberAfTrustCenterBackupData::extendedPanId

Definition at line 1185 of file [af-types.h](#).

8.52.2.2 int8u EmberAfTrustCenterBackupData::keyListLength

Definition at line 1186 of file [af-types.h](#).

8.52.2.3 int8u EmberAfTrustCenterBackupData::maxKeyListLength

Definition at line 1187 of file [af-types.h](#).

8.52.2.4 EmberAfLinkKeyBackupData* EmberAfTrustCenterBackupData::keyList

Definition at line 1188 of file [af-types.h](#).

The documentation for this struct was generated from the following file:

- [af-types.h](#)

8.53 rxFragmentedPacket Struct Reference

```
#include <fragmentation.h>
```

Data Fields

- rxPacketStatus status
- int8u buffer [EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE]

- EmberNodeId [fragmentSource](#)
- int8u [fragmentSequenceNumber](#)
- int8u [fragmentBase](#)
- int16u [windowFinger](#)
- int8u [fragmentsExpected](#)
- int8u [fragmentsReceived](#)
- int8u [fragmentMask](#)
- int8u [lastfragmentLen](#)
- int8u [fragmentLen](#)
- EmberEventControl * [fragmentEventControl](#)

8.53.1 Detailed Description

Definition at line [92](#) of file [fragmentation.h](#).

8.53.2 Field Documentation

8.53.2.1 rxPacketStatus rxFragmentedPacket::status

Definition at line [93](#) of file [fragmentation.h](#).

8.53.2.2 int8u rxFragmentedPacket::buffer[EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE]

Definition at line [94](#) of file [fragmentation.h](#).

8.53.2.3 EmberNodeId rxFragmentedPacket::fragmentSource

Definition at line [95](#) of file [fragmentation.h](#).

8.53.2.4 int8u rxFragmentedPacket::fragmentSequenceNumber

Definition at line [96](#) of file [fragmentation.h](#).

8.53.2.5 int8u rxFragmentedPacket::fragmentBase

Definition at line [97](#) of file [fragmentation.h](#).

8.53.2.6 int16u rxFragmentedPacket::windowFinger

Definition at line [98](#) of file [fragmentation.h](#).

8.53.2.7 int8u rxFragmentedPacket::fragmentsExpected

Definition at line [99](#) of file [fragmentation.h](#).

8.53.2.8 int8u rxFragmentedPacket::fragmentsReceived

Definition at line 100 of file [fragmentation.h](#).

8.53.2.9 int8u rxFragmentedPacket::fragmentMask

Definition at line 101 of file [fragmentation.h](#).

8.53.2.10 int8u rxFragmentedPacket::lastfragmentLen

Definition at line 102 of file [fragmentation.h](#).

8.53.2.11 int8u rxFragmentedPacket::fragmentLen

Definition at line 103 of file [fragmentation.h](#).

8.53.2.12 EmberEventControl* rxFragmentedPacket::fragmentEventControl

Definition at line 106 of file [fragmentation.h](#).

The documentation for this struct was generated from the following file:

- [fragmentation.h](#)

8.54 txFragmentedPacket Struct Reference

```
#include <fragmentation.h>
```

Data Fields

- EmberOutgoingMessageType [messageType](#)
- int16u [indexOrDestination](#)
- int8u [sequence](#)
- EmberApsFrame [apsFrame](#)
- int8u [buffer](#) [EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE]
- int16u [bufLen](#)
- int8u [fragmentLen](#)
- int8u [fragmentCount](#)
- int8u [fragmentBase](#)
- int8u [fragmentsInTransit](#)

8.54.1 Detailed Description

Definition at line 49 of file [fragmentation.h](#).

8.54.2 Field Documentation

8.54.2.1 EmberOutgoingMessageType txFragmentedPacket::messageType

Definition at line 50 of file [fragmentation.h](#).

8.54.2.2 int16u txFragmentedPacket::indexOrDestination

Definition at line 51 of file [fragmentation.h](#).

8.54.2.3 int8u txFragmentedPacket::sequence

Definition at line 52 of file [fragmentation.h](#).

8.54.2.4 EmberApsFrame txFragmentedPacket::apsFrame

Definition at line 53 of file [fragmentation.h](#).

8.54.2.5 int8u txFragmentedPacket::buffer[EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE]

Definition at line 59 of file [fragmentation.h](#).

8.54.2.6 int16u txFragmentedPacket::bufLen

Definition at line 60 of file [fragmentation.h](#).

8.54.2.7 int8u txFragmentedPacket::fragmentLen

Definition at line 61 of file [fragmentation.h](#).

8.54.2.8 int8u txFragmentedPacket::fragmentCount

Definition at line 62 of file [fragmentation.h](#).

8.54.2.9 int8u txFragmentedPacket::fragmentBase

Definition at line 63 of file [fragmentation.h](#).

8.54.2.10 int8u txFragmentedPacket::fragmentsInTransit

Definition at line 64 of file [fragmentation.h](#).

The documentation for this struct was generated from the following file:

- [fragmentation.h](#)

Chapter 9

File Documentation

9.1 _AF_API.top File Reference

9.2 _AF_API.top

00001

9.3 af-structs.h File Reference

Data Structures

- struct [_Protocol](#)
- struct [_ReadAttributeStatusRecord](#)
- struct [_WriteAttributeRecord](#)
- struct [_WriteAttributeStatusRecord](#)
- struct [_ConfigureReportingRecord](#)
- struct [_ConfigureReportingStatusRecord](#)
- struct [_ReadReportingConfigurationRecord](#)
- struct [_ReadReportingConfigurationAttributeRecord](#)
- struct [_ReportAttributeRecord](#)
- struct [_DiscoverAttributesInfoRecord](#)
- struct [_SceneExtensionAttributeInfo](#)
- struct [_SceneExtensionFieldSet](#)
- struct [_BlockThreshold](#)
- struct [_Notification](#)
- struct [_NeighborInfo](#)
- struct [_ChatParticipant](#)
- struct [_ChatRoom](#)
- struct [_NodeInformation](#)
- struct [_ScheduledPhase](#)
- struct [_TransferredPhase](#)
- struct [_PowerProfileRecord](#)
- struct [_DeviceInformationRecord](#)
- struct [_GroupInformationRecord](#)
- struct [_EndpointInformationRecord](#)

Typedefs

- `typedef struct _Protocol Protocol`
- `typedef struct _ReadAttributeStatusRecord ReadAttributeStatusRecord`
- `typedef struct _WriteAttributeRecord WriteAttributeRecord`
- `typedef struct _WriteAttributeStatusRecord WriteAttributeStatusRecord`
- `typedef struct _ConfigureReportingRecord ConfigureReportingRecord`
- `typedef struct _ConfigureReportingStatusRecord ConfigureReportingStatusRecord`
- `typedef struct _ReadReportingConfigurationRecord ReadReportingConfigurationRecord`
- `typedef struct _ReadReportingConfigurationAttributeRecord ReadReportingConfigurationAttributeRecord`
- `typedef struct _ReportAttributeRecord ReportAttributeRecord`
- `typedef struct _DiscoverAttributesInfoRecord DiscoverAttributesInfoRecord`
- `typedef struct _SceneExtensionAttributeInfo SceneExtensionAttributeInfo`
- `typedef struct _SceneExtensionFieldSet SceneExtensionFieldSet`
- `typedef struct _BlockThreshold BlockThreshold`
- `typedef struct _Notification Notification`
- `typedef struct _NeighborInfo NeighborInfo`
- `typedef struct _ChatParticipant ChatParticipant`
- `typedef struct _ChatRoom ChatRoom`
- `typedef struct _NodeInformation NodeInformation`
- `typedef int8u Identity`
- `typedef int8u EphemeralData`
- `typedef int8u Smac`
- `typedef int8u Signature`
- `typedef struct _ScheduledPhase ScheduledPhase`
- `typedef struct _TransferredPhase TransferredPhase`
- `typedef struct _PowerProfileRecord PowerProfileRecord`
- `typedef struct _DeviceInformationRecord DeviceInformationRecord`
- `typedef struct _GroupInformationRecord GroupInformationRecord`
- `typedef struct _EndpointInformationRecord EndpointInformationRecord`

9.3.1 Typedef Documentation

9.3.1.1 `typedef struct _Protocol Protocol`

9.3.1.2 `typedef struct _ReadAttributeStatusRecord ReadAttributeStatusRecord`

9.3.1.3 `typedef struct _WriteAttributeRecord WriteAttributeRecord`

9.3.1.4 `typedef struct _WriteAttributeStatusRecord WriteAttributeStatusRecord`

9.3.1.5 `typedef struct _ConfigureReportingRecord ConfigureReportingRecord`

9.3.1.6 `typedef struct _ConfigureReportingStatusRecord ConfigureReportingStatusRecord`

9.3.1.7 `typedef struct _ReadReportingConfigurationRecord ReadReportingConfigurationRecord`

9.3.1.8 `typedef struct _ReadReportingConfigurationAttributeRecord ReadReportingConfigurationAttributeRecord`

- 9.3.1.9 **typedef struct _ReportAttributeRecord ReportAttributeRecord**
- 9.3.1.10 **typedef struct _DiscoverAttributesInfoRecord DiscoverAttributesInfoRecord**
- 9.3.1.11 **typedef struct _SceneExtensionAttributeInfo SceneExtensionAttributeInfo**
- 9.3.1.12 **typedef struct _SceneExtensionFieldSet SceneExtensionFieldSet**
- 9.3.1.13 **typedef struct _BlockThreshold BlockThreshold**
- 9.3.1.14 **typedef struct _Notification Notification**
- 9.3.1.15 **typedef struct _NeighborInfo NeighborInfo**
- 9.3.1.16 **typedef struct _ChatParticipant ChatParticipant**
- 9.3.1.17 **typedef struct _ChatRoom ChatRoom**
- 9.3.1.18 **typedef struct _NodeInformation NodeInformation**
- 9.3.1.19 **typedef int8u Identity**

Definition at line 168 of file [af-structs.h](#).

- 9.3.1.20 **typedef int8u EphemeralData**

Definition at line 173 of file [af-structs.h](#).

- 9.3.1.21 **typedef int8u Smac**

Definition at line 178 of file [af-structs.h](#).

- 9.3.1.22 **typedef int8u Signature**

Definition at line 183 of file [af-structs.h](#).

- 9.3.1.23 **typedef struct _ScheduledPhase ScheduledPhase**

- 9.3.1.24 **typedef struct _TransferredPhase TransferredPhase**

- 9.3.1.25 **typedef struct _PowerProfileRecord PowerProfileRecord**

- 9.3.1.26 **typedef struct _DeviceInformationRecord DeviceInformationRecord**

- 9.3.1.27 **typedef struct _GroupInformationRecord GroupInformationRecord**

- 9.3.1.28 **typedef struct _EndpointInformationRecord EndpointInformationRecord**

9.4 af-structs.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_STRUCTS__
00009 #define __EMBER_AF_STRUCTS__
0010
0011
0012 // Generated structs from the metadata
0013 // Struct for Protocol
0014 typedef struct _Protocol {
0015     int16u manufacturerCode;
0016     int8u protocolId;
0017 } Protocol;
0018
0019
0020 // Struct for ReadAttributeStatusRecord
0021 typedef struct _ReadAttributeStatusRecord {
0022     int16u attributeId;
0023     int8u status;
0024     int8u attributeType;
0025     int8u attributeLocation;
0026 } ReadAttributeStatusRecord;
0027
0028
0029 // Struct for WriteAttributeRecord
0030 typedef struct _WriteAttributeRecord {
0031     int16u attributeId;
0032     int8u attributeType;
0033     int8u attributeLocation;
0034 } WriteAttributeRecord;
0035
0036
0037 // Struct for WriteAttributeStatusRecord
0038 typedef struct _WriteAttributeStatusRecord {
0039     int8u status;
0040     int16u attributeId;
0041 } WriteAttributeStatusRecord;
0042
0043
0044 // Struct for ConfigureReportingRecord
0045 typedef struct _ConfigureReportingRecord {
0046     int8u direction;
0047     int16u attributeId;
0048     int8u attributeType;
0049     int16u minimumReportingInterval;
0050     int16u maximumReportingInterval;
0051     int8u reportableChangeLocation;
0052     int16u timeoutPeriod;
0053 } ConfigureReportingRecord;
0054
0055
0056 // Struct for ConfigureReportingStatusRecord
0057 typedef struct _ConfigureReportingStatusRecord {
0058     int8u status;
0059     int8u direction;
0060     int16u attributeId;
0061 } ConfigureReportingStatusRecord;
0062
0063
0064 // Struct for ReadReportingConfigurationRecord
0065 typedef struct _ReadReportingConfigurationRecord {
0066     int8u status;
0067     int8u direction;
0068     int16u attributeId;
0069     int8u attributeType;
0070     int16u minimumReportingInterval;
0071     int16u maximumReportingInterval;
0072     int8u reportableChangeLocation;
0073     int16u timeoutPeriod;
0074 } ReadReportingConfigurationRecord;
0075
0076
0077 // Struct for ReadReportingConfigurationAttributeRecord

```

```

00078 typedef struct _ReadReportingConfigurationAttributeRecord {
00079     int8u direction;
00080     int16u attributeId;
00081 } ReadReportingConfigurationAttributeRecord;
00082
00083
00084 // Struct for ReportAttributeRecord
00085 typedef struct _ReportAttributeRecord {
00086     int16u attributeId;
00087     int8u attributeType;
00088     int8u attributeLocation;
00089 } ReportAttributeRecord;
00090
00091
00092 // Struct for DiscoverAttributesInfoRecord
00093 typedef struct _DiscoverAttributesInfoRecord {
00094     int16u attributeId;
00095     int8u attributeType;
00096 } DiscoverAttributesInfoRecord;
00097
00098
00099 // Struct for SceneExtensionAttributeInfo
00100 typedef struct _SceneExtensionAttributeInfo {
00101     int8u attributeType;
00102     int8u attributeLocation;
00103 } SceneExtensionAttributeInfo;
00104
00105
00106 // Struct for SceneExtensionFieldSet
00107 typedef struct _SceneExtensionFieldSet {
00108     int16u clusterId;
00109     int8u length;
00110     int8u value;
00111 } SceneExtensionFieldSet;
00112
00113
00114 // Struct for BlockThreshold
00115 typedef struct _BlockThreshold {
00116     int8u blockThreshold;
00117     int8u priceControl;
00118     int32u blockPeriodStartTime;
00119     int32u blockPeriodDurationMinutes;
00120     int8u fuelType;
00121     int32u standingCharge;
00122 } BlockThreshold;
00123
00124
00125 // Struct for Notification
00126 typedef struct _Notification {
00127     int16u contentId;
00128     int8u statusFeedback;
00129 } Notification;
00130
00131
00132 // Struct for NeighborInfo
00133 typedef struct _NeighborInfo {
00134     int8u* neighbor;
00135     int16s x;
00136     int16s y;
00137     int16s z;
00138     int8s rssi;
00139     int8u numberRssiMeasurements;
00140 } NeighborInfo;
00141
00142
00143 // Struct for ChatParticipant
00144 typedef struct _ChatParticipant {
00145     int16u uid;
00146     int8u* nickname;
00147 } ChatParticipant;
00148
00149
00150 // Struct for ChatRoom
00151 typedef struct _ChatRoom {
00152     int16u cid;
00153     int8u* name;
00154 } ChatRoom;
00155
00156
00157 // Struct for NodeInformation

```

```

00158 typedef struct _NodeInformation {
00159     int16u uid;
00160     int16u address;
00161     int8u endpoint;
00162     int8u* nickname;
00163 } NodeInformation;
00164
00165
00166 // Void typedef for Identity which is empty.
00167 // this will result in all the references to the data being as int8u*
00168 typedef int8u Identity;
00169
00170
00171 // Void typedef for EphemeralData which is empty.
00172 // this will result in all the references to the data being as int8u*
00173 typedef int8u EphemeralData;
00174
00175
00176 // Void typedef for Smac which is empty.
00177 // this will result in all the references to the data being as int8u*
00178 typedef int8u Smac;
00179
00180
00181 // Void typedef for Signature which is empty.
00182 // this will result in all the references to the data being as int8u*
00183 typedef int8u Signature;
00184
00185
00186 // Struct for ScheduledPhase
00187 typedef struct _ScheduledPhase {
00188     int8u energyPhaseId;
00189     int16u scheduledTime;
00190 } ScheduledPhase;
00191
00192
00193 // Struct for TransferredPhase
00194 typedef struct _TransferredPhase {
00195     int8u energyPhaseId;
00196     int8u macroPhaseId;
00197     int16u expectedDuration;
00198     int16u peakPower;
00199     int16u energy;
00200     int16u maxActivationDelay;
00201 } TransferredPhase;
00202
00203
00204 // Struct for PowerProfileRecord
00205 typedef struct _PowerProfileRecord {
00206     int8u powerProfileId;
00207     int8u energyPhaseId;
00208     int8u powerProfileState;
00209 } PowerProfileRecord;
00210
00211
00212 // Struct for DeviceInformationRecord
00213 typedef struct _DeviceInformationRecord {
00214     int8u* ieeeAddress;
00215     int8u endpointId;
00216     int16u profileId;
00217     int16u deviceId;
00218     int8u version;
00219     int8u groupIdCount;
00220     int8u sort;
00221 } DeviceInformationRecord;
00222
00223
00224 // Struct for GroupInformationRecord
00225 typedef struct _GroupInformationRecord {
00226     int16u groupId;
00227     int8u groupType;
00228 } GroupInformationRecord;
00229
00230
00231 // Struct for EndpointInformationRecord
00232 typedef struct _EndpointInformationRecord {
00233     int16u networkAddress;
00234     int8u endpointId;
00235     int16u profileId;
00236     int16u deviceId;
00237     int8u version;

```

```

00238 } EndpointInformationRecord;
00239
00240
00241 #endif // __EMBER_AF_STRUCTS__

```

9.5 af-types.h File Reference

```
#include "enums.h"
```

Data Structures

- union [EmberAfDefaultAttributeValue](#)
Type for default values.
- struct [EmberAfAttributeMinMaxValue](#)
Type describing the attribute default, min and max values.
- union [EmberAfDefaultOrMinMaxAttributeValue](#)
Union describing the attribute default/min/max values.
- struct [EmberAfAttributeMetadata](#)
Each attribute has it's metadata stored in such struct.
- struct [EmberAfCluster](#)
Struct describing cluster.
- struct [EmberAfAttributeSearchRecord](#)
Struct used to find an attribute in storage. Together the elements in this search record constitute the "primary key" used to identify a unique attribute value in attribute storage.
- struct [EmberAfManufacturerCodeEntry](#)
- struct [EmberAfIncomingMessage](#)
a struct containing the superset of values passed to both emberIncomingMessageHandler on the SOC and ezspIncomingMessageHandler on the host.
- struct [EmberAfInterpanHeader](#)
Interpan header used for sending and receiving interpan messages.
- struct [EmberAfAllowedInterPanMessage](#)
This structure is used define an interpan message that will be accepted by the interpan filters.
- struct [EmberAfClusterCommand](#)
The EmberAFClusterCommand is a struct wrapper for all the data pertaining to a command which comes in over the air. This enables struct is used to encapsulate a command in a single place on the stack and pass a pointer to that location around during command processing.
- struct [EmberAfEndpointType](#)
Endpoint type struct describes clusters that are on the endpoint.
- struct [EmberAfDefinedEndpoint](#)
Struct that maps actual endpoint type, onto a specific endpoint.
- struct [EmberAfLoadControlEvent](#)
Struct that describes a load control event.
- struct [EmberAfServiceDiscoveryResult](#)
A structure containing general information about the service discovery.
- struct [EmberAfEndpointList](#)
A list of endpoints received during a service discovery attempt. This will be returned for a match descriptor request and a active endpoint request.
- struct [EmberAfEventContext](#)

a structure used to keep track of cluster related events and their sleep control values. The cluster code will not know at runtime all of the events that it has access to in the event table. This structure is stored by the application framework in an event context table which along with helper functions allows the cluster code to schedule and deactivate its associated events.

- struct [EmberAfSceneTableEntry](#)
A structure used to store scene table entries in RAM or in tokens, depending on a plugin setting. If endpoint field is `EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID`, the entry is unused.
- struct [EmberAfOtaImageId](#)
This is a unique identifier for referencing ZigBee Over-the-air upgrade images. It is used by the OTA plugins when passing around information about an upgrade file.
- struct [EmberAfOtaHeader](#)
This structure is an in-memory representation of the Over-the-air header data that resides on disk. It is not a byte-for-byte copy.
- struct [EmberAfTagData](#)
This structure contains information about a tag that resides within an Over-the-air bootload file.
- struct [EmberAfLinkKeyBackupData](#)
A data struct for a link key backup.
- struct [EmberAfTrustCenterBackupData](#)
A data struct for all the trust center backup data.

Defines

- #define [EMBER_AF_NULL_MANUFACTURER_CODE](#)
- #define [EMBER_AF_INTER_PAN_UNICAST](#)
- #define [EMBER_AF_INTER_PAN_BROADCAST](#)
- #define [EMBER_AF_INTER_PAN_MULTICAST](#)
- #define [INTER_PAN_UNICAST](#)
- #define [INTER_PAN_BROADCAST](#)
- #define [INTER_PAN_MULTICAST](#)
- #define [EMBER_AF_INTERPAN_OPTION_NONE](#)
- #define [EMBER_AF_INTERPAN_OPTION_APS_ENCRYPT](#)
- #define [EMBER_AF_INTERPAN_OPTION_MAC_HAS_LONG_ADDRESS](#)
- #define [InterPanHeader](#)
- #define [EMBER_AF_INTERPAN_DIRECTION_CLIENT_TO_SERVER](#)
- #define [EMBER_AF_INTERPAN_DIRECTION_SERVER_TO_CLIENT](#)
- #define [EMBER_AF_INTERPAN_DIRECTION_BOTH](#)
- #define [EMBER_AF_INTERPAN_GLOBAL_COMMAND](#)
- #define [EMBER_AF_INTERPAN_MANUFACTURER_SPECIFIC](#)
- #define [EM_AF_DISCOVERY_RESPONSE_MASK](#)
- #define [emberAfHaveDiscoveryResponseStatus\(status\)](#)
- #define [EMBER_AF_SCENE_TABLE_NULL_INDEX](#)
- #define [EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID](#)
- #define [ZCL_SCENES_CLUSTER_MAXIMUM_NAME_LENGTH](#)
- #define [ZCL_SCENES_GLOBAL_SCENE_GROUP_ID](#)
- #define [ZCL_SCENES_GLOBAL_SCENE_SCENE_ID](#)
- #define [ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH](#)
- #define [EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH](#)
- #define [APP_NOTIFY_ERROR_CODE_START](#)
- #define [APP_NOTIFY_MESSAGE_TEXT](#)

Typedefs

- `typedef int16u EmberAfProfileId`
- `typedef int16u EmberAfAttributeId`
- `typedef int16u EmberAfClusterId`
- `typedef int8u EmberAfAttributeType`
- `typedef int8u EmberAfClusterMask`
- `typedef int8u EmberAfAttributeMask`
- `typedef void(* EmberAfGenericClusterFunction)(void)`
- `typedef int8u EmberAfInterpanMessageType`
- `typedef int16u EmberAfInterpanOptions`
- `typedef int8u EmberAfAllowedInterpanOptions`
- `typedef int8u EmberAfPluginEsiManagementBitmask`
- `typedef void(EmberAfServiceDiscoveryCallback)(const EmberAfServiceDiscoveryResult *result)`
- `typedef void(EmberAfPartnerLinkKeyExchangeCallback)(boolean success)`
- `typedef void(* EmberAfTickFunction)(int8u endpoint)`
- `typedef void(* EmberAfInitFunction)(int8u endpoint)`
- `typedef void(* EmberAfClusterAttributeChangedCallback)(int8u endpoint, EmberAfAttributeId attributeId)`
- `typedef void(* EmberAfManufacturerSpecificClusterAttributeChangedCallback)(int8u endpoint, - EmberAfAttributeId attributeId, int16u manufacturerCode)`
- `typedef void(* EmberAfDefaultResponseFunction)(int8u endpoint, int8u commandId, EmberAfStatus status)`
- `typedef void(* EmberAfMessageSentFunction)(EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)`

Enumerations

- `enum EmberAfServiceDiscoveryStatus { EMBER_AF_BROADCAST_SERVICE_DISCOVERY_COMPLETE, EMBER_AF_BROADCAST_SERVICE_DISCOVERY_RESPONSE RECEIVED, EMBER_AF_UNICAST_SERVICE_DISCOVERY_TIMEOUT, EMBER_AF_UNICAST_SERVICE_DISCOVERY_COMPLETE_WITH_RESPONSE }`
- `enum EmberAfEventSleepControl { EMBER_AF_OK_TO_HIBERNATE, EMBER_AF_OK_TO_NAP, EMBER_AF_STAY_AWAKE }`
- `enum EmberAfOtaStorageStatus { EMBER_AF_OTA_STORAGE_SUCCESS, EMBER_AF_OTA_STORAGE_ERROR, EMBER_AF_OTA_STORAGE_RETURN_DATA_TOO_LONG, EMBER_AF_OTA_STORAGE_PARTIAL_FILE_FOUND, EMBER_AF_OTA_STORAGE_OPERATION_IN_PROGRESS }`
- `enum EmberAfKeyEstablishmentNotifyMessage { NO_APP_MESSAGE, RECEIVED_PARTNER_CERTIFICATE, GENERATING_EPHEMERAL_KEYS, GENERATING_SHARED_SECRET, KEY_GENERATION_DONE, GENERATE_SHARED_SECRET_DONE, LINK_KEY_ESTABLISHED, NO_LOCAL_RESOURCES, PARTNER_NO_RESOURCES, TIMEOUT_OCCURRED, INVALID_APP_COMMAND, MESSAGE_SEND_FAILURE, PARTNER_SENT_TERMINATE, INVALID_PARTNER_MESSAGE, PARTNER_SENT_DEFAULT_RESPONSE_ERROR, BAD_CERTIFICATE_ISSUER, KEY_CONFIRM_FAILURE, BAD_KEY_ESTABLISHMENT_SUITE, KEY_TABLE_FULL, NO_ESTABLISHMENT_ALLOWED }`
- `enum EmberAfImageVerifyStatus { EMBER_AF_IMAGE_GOOD, EMBER_AF_IMAGE_BAD, - EMBER_AF_IMAGE_VERIFY_IN_PROGRESS }`

9.5.1 Detailed Description

The include file for all the types for Ember ApplicationFramework.

Definition in file [af-types.h](#).

9.6 af-types.h

```

00001
00017 #ifndef __AF_API_TYPES__
00018 #define __AF_API_TYPES__
00019
00020 #include "enums.h"
00021
00025 typedef int16u EmberAfProfileId;
00026
00030 typedef int16u EmberAfAttributeId;
00031
00035 typedef int16u EmberAfClusterId;
00036
00040 typedef int8u EmberAfAttributeType;
00041
00045 typedef int8u EmberAfClusterMask;
00046
00050 typedef int8u EmberAfAttributeMask;
00051
00058 typedef void (*EmberAfGenericClusterFunction) (void);
00059
00064 #define EMBER_AF_NULL_MANUFACTURER_CODE 0x0000
00065
00073 typedef union {
00079     int8u *ptrToDefaultValue;
00083     int16u defaultValue;
00084 } EmberAfDefaultAttributeValue;
00085
00092 typedef struct {
00096     EmberAfDefaultAttributeValue defaultValue;
00100     EmberAfDefaultAttributeValue minValue;
00104     EmberAfDefaultAttributeValue maxValue;
00105 } EmberAfAttributeMinMaxValue;
00106
00110 typedef union {
00116     int8u *ptrToDefaultValue;
00120     int16u defaultValue;
00125     EmberAfAttributeMinMaxValue *ptrToMinMaxValue;
00126 } EmberAfDefaultOrMinMaxAttributeValue;
00127
00128
00134 typedef struct {
00138     EmberAfAttributeId attributeId;
00142     EmberAfAttributeType attributeType;
00146     int8u size;
00152     EmberAfAttributeMask mask;
00157     EmberAfDefaultOrMinMaxAttributeValue defaultValue;
00158 } EmberAfAttributeMetadata;
00159
00163 typedef struct {
00167     EmberAfClusterId clusterId;
00171     EmberAfAttributeMetadata *attributes;
00175     int16u attributeCount;
00179     int16u clusterSize;
00184     EmberAfClusterMask mask;
00185
00191     const EmberAfGenericClusterFunction *functions;
00192
00193 } EmberAfCluster;
00194
00200 typedef struct {
00201
00205     int8u endpoint;
00206
00213     EmberAfClusterId clusterId;
00214
00220     EmberAfClusterMask clusterMask;
00221

```

```

00227     EmberAfAttributeId attributeId;
00228
00238     int16u manufacturerCode;
00239 } EmberAfAttributeSearchRecord;
00240
00245 typedef struct {
00246     int16u index;
00247     int16u manufacturerCode;
00248 } EmberAfManufacturerCodeEntry;
00249
00255 typedef struct {
00259     EmberIncomingMessageType type;
00263     EmberApsFrame* apsFrame;
00267     int8u* message;
00271     int16u msgLen;
00275     int16u source;
00280     int8u lastHopLqi;
00284     int8s lastHopRssi;
00289     int8u bindingTableIndex;
00295     int8u addressTableIndex;
00296 } EmberAfIncomingMessage;
00297
00298
00302 typedef int8u EmberAfInterpanMessageType;
00303 #define EMBER_AF_INTER_PAN_UNICAST 0x00
00304 #define EMBER_AF_INTER_PAN_BROADCAST 0x08
00305 #define EMBER_AF_INTER_PAN_MULTICAST 0x0C
00306
00307 // Legacy names
00308 #define INTER_PAN_UNICAST EMBER_AF_INTER_PAN_UNICAST
00309 #define INTER_PAN_BROADCAST EMBER_AF_INTER_PAN_BROADCAST
00310 #define INTER_PAN_MULTICAST EMBER_AF_INTER_PAN_MULTICAST
00311
00312
00313 #define EMBER_AF_INTERPAN_OPTION_NONE 0x0000
00314 #define EMBER_AF_INTERPAN_OPTION_APS_ENCRYPT 0x0001
00315 #define EMBER_AF_INTERPAN_OPTION_MAC_HAS_LONG_ADDRESS 0x0002
00316
00320 typedef int16u EmberAfInterpanOptions;
00321
00326 typedef struct {
00327     EmberAfInterpanMessageType messageType;
00328
00334     EmberEUI64 longAddress;
00335     EmberNodeId shortAddress;
00336     EmberPanId panId;
00337
00341     EmberAfProfileId profileId;
00342     EmberAfClusterId clusterId;
00347     EmberMulticastId groupId;
00348     EmberAfInterpanOptions options;
00349 } EmberAfInterpanHeader;
00350
00351 // Legacy Name
00352 #define InterPanHeader EmberAfInterpanHeader
00353
00357 typedef int8u EmberAfAllowedInterpanOptions;
00358
00359 #define EMBER_AF_INTERPAN_DIRECTION_CLIENT_TO_SERVER 0x01
00360 #define EMBER_AF_INTERPAN_DIRECTION_SERVER_TO_CLIENT 0x02
00361 #define EMBER_AF_INTERPAN_DIRECTION_BOTH 0x03
00362 #define EMBER_AF_INTERPAN_GLOBAL_COMMAND 0x04
00363 #define EMBER_AF_INTERPAN_MANUFACTURER_SPECIFIC 0x08
00364
00369 typedef struct {
00370     EmberAfProfileId profileId;
00371     EmberAfClusterId clusterId;
00372     int8u commandId;
00373     EmberAfAllowedInterpanOptions options;
00374 } EmberAfAllowedInterPanMessage;
00375
00376
00385 typedef struct {
00389     EmberApsFrame *apsFrame;
00390     EmberIncomingMessageType type;
00391     EmberNodeId source;
00392     int8u *buffer;
00393     int16u bufLen;
00394     boolean clusterSpecific;
00395     boolean mfgSpecific;

```

```

00396     int16u          mfgCode;
00397     int8u           seqNum;
00398     int8u           commandId;
00399     int8u           payloadstartIndex;
00400     int8u           direction;
00401     EmberAfInterpanHeader *interPanHeader;
00402 } EmberAfClusterCommand;
00403
00407 typedef struct {
00412     EmberAfCluster *cluster;
00416     int8u clusterCount;
00420     int16u endpointSize;
00421 } EmberAfEndpointType;
00422
00426 typedef struct {
00430     int8u endpoint;
00434     EmberAfProfileId profileId;
00438     int16u deviceId;
00442     int8u deviceVersion;
00446     EmberAfEndpointType *endpointType;
00447 } EmberAfDefinedEndpoint;
00448
00449
00450 // Cluster specific types
00451
00456 #if (EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE <= 8)
00457     typedef int8u EmberAfPluginEsiManagementBitmask;
00458 #elif (EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE <= 16)
00459     typedef int16u EmberAfPluginEsiManagementBitmask;
00460 #elif (EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE <= 32)
00461     typedef int32u EmberAfPluginEsiManagementBitmask;
00462 #else
00463     #error "EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE cannot exceed 32"
00464 #endif
00465
00472 typedef struct {
00473     int32u eventId;
00474 #ifdef EMBER_AF_PLUGIN_DRLC_SERVER
00475     EmberEUI64 source;
00476     int8u sourceEndpoint;
00477 #endif //EMBER_AF_PLUGIN_DRLC_SERVER
00478
00479 #ifdef EMBER_AF_PLUGIN_DRLC
00480     EmberAfPluginEsiManagementBitmask esiBitmask;
00481 #endif //EMBER_AF_PLUGIN_DRLC
00482
00483     int8u destinationEndpoint;
00484     int16u deviceClass;
00485     int8u utilityEnrollmentGroup;
00486     int32u startTime;
00493     int16u duration;
00494     int8u criticalityLevel;
00495     int8u coolingTempOffset;
00496     int8u heatingTempOffset;
00497     int16s coolingTempSetPoint;
00498     int16s heatingTempSetPoint;
00499     int8s avgLoadPercentage;
00500     int8u dutyCycle;
00501     int8u eventControl;
00502     int16u startRand;
00503     int16u endRand;
00504     int8u optionControl;
00505 } EmberAfLoadControlEvent;
00506
00513 typedef enum {
00514     EMBER_AF_BROADCAST_SERVICE_DISCOVERY_COMPLETE      = 0x00,
00515     EMBER_AF_BROADCAST_SERVICE_DISCOVERY_RESPONSE_RECEIVED = 0x01,
00516     EMBER_AF_UNICAST_SERVICE_DISCOVERY_TIMEOUT          = 0x02,
00517     EMBER_AF_UNICAST_SERVICE_DISCOVERY_COMPLETE_WITH_RESPONSE = 0x03,
00518 } EmberAfServiceDiscoveryStatus;
00519
00520 #define EM_AF_DISCOVERY_RESPONSE_MASK (0x01)
00521
00526 #define emberAfHaveDiscoveryResponseStatus(status) ((status) &
00527     EM_AF_DISCOVERY_RESPONSE_MASK)
00531 typedef struct {
00536     EmberAfServiceDiscoveryStatus status;
00537
00544     int16u zdoRequestClusterId;

```

```

00545
00551     EmberNodeId matchAddress;
00552
00562     const void* responseData;
00563 } EmberAfServiceDiscoveryResult;
00564
00570     typedef struct {
00571         int8u count;
00572         const int8u* list;
00573 } EmberAfEndpointList;
00574
00586     typedef void (EmberAfServiceDiscoveryCallback) (const
00587     EmberAfServiceDiscoveryResult* result);
00587
00594     typedef void (EmberAfPartnerLinkKeyExchangeCallback) (boolean success);
00595
00609     typedef enum {
00610         EMBER_AF_OK_TO_HIBERNATE,
00611         EMBER_AF_OK_TO_NAP,
00612         EMBER_AF_STAY_AWAKE
00613 } EmberAfEventSleepControl;
00614
00623     typedef struct {
00627         int8u endpoint;
00631         int16u clusterId;
00635         boolean isClient;
00640         EmberAfEventSleepControl sleepControl;
00645         EmberEventControl *eventControl;
00646 } EmberAfEventContext;
00647
00648 #ifdef EMBER_AF_PLUGIN_GROUPS_SERVER
00649
00652 #define EMBER_AF_GROUP_TABLE_NULL_INDEX 0xFF
00653
00657 #define EMBER_AF_GROUP_TABLE_UNUSED_ENDPOINT_ID 0x00
00658
00661 #define ZCL_GROUPS_CLUSTER_MAXIMUM_NAME_LENGTH 16
00662
00667     typedef struct {
00668         int8u endpoint; // 0x00 when not in use
00669         int16u groupId;
00670         int8u bindingIndex;
00671 #ifdef EMBER_AF_PLUGIN_GROUPS_SERVER_NAME_SUPPORT
00672         int8u name[ZCL_GROUPS_CLUSTER_MAXIMUM_NAME_LENGTH + 1];
00673 #endif
00674 } EmberAfGroupTableEntry;
00675 #endif //EMBER_AF_PLUGIN_GROUPS_SERVER
00676
00680 #define EMBER_AF_SCENE_TABLE_NULL_INDEX 0xFF
00681
00685 #define EMBER_AF_SCENE_TABLE_UNUSED_ENDPOINT_ID 0x00
00686
00689 #define ZCL_SCENES_CLUSTER_MAXIMUM_NAME_LENGTH 16
00690
00693 #define ZCL_SCENES_GLOBAL_SCENE_GROUP_ID 0x0000
00694
00697 #define ZCL_SCENES_GLOBAL_SCENE_SCENE_ID 0x00
00698
00703     typedef struct {
00704         int8u endpoint; // 0x00 when this record is not in use
00705         int16u groupId; // 0x0000 if not associated with a group
00706         int8u sceneId;
00707 #ifdef EMBER_AF_PLUGIN_SCENES_NAME_SUPPORT
00708         int8u name[ZCL_SCENES_CLUSTER_MAXIMUM_NAME_LENGTH + 1];
00709 #endif
00710         int16u transitionTime; // in seconds
00711 #ifdef EMBER_ZLL_STACK
00712         int8u transitionTime100ms; // in tenths of a seconds
00713 #endif
00714 #ifdef ZCL_USING_ON_OFF_CLUSTER_SERVER
00715         boolean hasOnOffValue;
00716         boolean onOffValue;
00717 #endif
00718 #ifdef ZCL_USING_LEVEL_CONTROL_CLUSTER_SERVER
00719         boolean hasCurrentLevelValue;
00720         int8u currentLevelValue;
00721 #endif
00722 #ifdef ZCL_USING_THERMOSTAT_CLUSTER_SERVER
00723         boolean hasOccupiedCoolingSetpointValue;
00724         int16s occupiedCoolingSetpointValue;

```

```

00725     boolean hasOccupiedHeatingSetpointValue;
00726     int16s occupiedHeatingSetpointValue;
00727     boolean hasSystemModeValue;
00728     int8u systemModeValue;
00729 #endif
00730 #ifdef ZCL_USING_COLOR_CONTROL_CLUSTER_SERVER
00731     boolean hasCurrentXValue;
00732     int16u currentXValue;
00733     boolean hasCurrentYValue;
00734     int16u currentYValue;
00735 #ifndef EMBER_ZLL_STACK
00736     boolean hasEnhancedCurrentHueValue;
00737     int16u enhancedCurrentHueValue;
00738     boolean hasCurrentSaturationValue;
00739     int8u currentSaturationValue;
00740     boolean hasColorLoopActiveValue;
00741     int8u colorLoopActiveValue;
00742     boolean hasColorLoopDirectionValue;
00743     int8u colorLoopDirectionValue;
00744     boolean hasColorLoopTimeValue;
00745     int16u colorLoopTimeValue;
00746 #endif //EMBER_ZLL_STACK
00747 #endif //ZCL_USING_COLOR_CONTROL_CLUSTER_SERVER
00748 #ifdef ZCL_USING_DOOR_LOCK_CLUSTER_SERVER
00749     boolean hasLockStateValue;
00750     int8u lockStateValue;
00751 #endif
00752 #ifndef ZCL_USING_WINDOW_COVERING_CLUSTER_SERVER
00753     boolean hasCurrentPositionLiftPercentageValue;
00754     int8u currentPositionLiftPercentageValue;
00755     boolean hasCurrentPositionTiltPercentageValue;
00756     int8u currentPositionTiltPercentageValue;
00757 #endif
00758 } EmberAfSceneTableEntry;
00759
00760 #ifdef EMBER_AF_PLUGIN_MESSAGING_CLIENT
00761     typedef struct {
00762         boolean valid;
00763         boolean active;
00764         EmberAfPluginEsiManagementBitmask esiBitmask;
00765         int8u clientEndpoint;
00766         int32u messageId;
00767         int8u messageControl;
00768         int32u startTime;
00769         int32u endTime;
00770         int16u durationInMinutes;
00771         int8u message[EMBER_AF_PLUGIN_MESSAGING_CLIENT_MESSAGE_SIZE + 1];
00772     } EmberAfPluginMessagingClientMessage;
00773 #endif //EMBER_AF_PLUGIN_MESSAGING_CLIENT
00774
00775 #define ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH 11
00776 #ifdef EMBER_AF_PLUGIN_PRICE_CLIENT
00777     typedef struct {
00778         boolean valid;
00779         boolean active;
00780         int32u providerId;
00781         int8u rateLabel[ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH + 1];
00782         int32u issuerEventId;
00783         int32u currentTime;
00784         int8u unitOfMeasure;
00785         int16u currency;
00786         int8u priceTrailingDigitAndPriceTier;
00787         int8u numberOfPriceTiersAndRegisterTier;
00788         int32u startTime;
00789         int32u endTime;
00790         int16u durationInMinutes;
00791         int32u price;
00792         int8u priceRatio;
00793         int32u generationPrice;
00794         int8u generationPriceRatio;
00795         int32u alternateCostDelivered;
00796         int8u alternateCostUnit;
00797         int8u alternateCostTrailingDigit;
00798         int8u numberOfBlockThresholds;
00799         int8u priceControl;
00800     } EmberAfPluginPriceClientPrice;
00801 #endif //EMBER_AF_PLUGIN_PRICE_CLIENT
00802
00803 #ifdef EMBER_AF_PLUGIN_REPORTING
00804

```

```

00808 #define EMBER_AF_PLUGIN_REPORTING_UNUSED_ENDPOINT_ID 0x00
00809
00814 typedef struct {
00819     EmberAfReportingDirection direction;
00824     int8u endpoint;
00826     EmberAfClusterId clusterId;
00828     EmberAfAttributeId attributeId;
00832     int8u mask;
00839     int16u manufacturerCode;
00840     union {
00841         struct {
00843             int16u minInterval;
00845             int16u maxInterval;
00849             int32u reportableChange;
00850         } reported;
00851         struct {
00853             EmberNodeId source;
00855             int8u endpoint;
00857             int16u timeout;
00858         } received;
00859     } data;
00860 } EmberAfPluginReportingEntry;
00861 #endif //EMBER_AF_PLUGIN_REPORTING
00862
00863 #ifdef EMBER_AF_PLUGIN_TUNNELING_CLIENT
00864 typedef enum {
00865     EMBER_AF_PLUGIN_TUNNELING_CLIENT_SUCCESS = 0x00,
00866     EMBER_AF_PLUGIN_TUNNELING_CLIENT_BUSY = 0x01,
00867     EMBER_AF_PLUGIN_TUNNELING_CLIENT_NO_MORE_TUNNEL_IDS = 0x02,
00868     EMBER_AF_PLUGIN_TUNNELING_CLIENT_PROTOCOL_NOT_SUPPORTED = 0x03,
00869     EMBER_AF_PLUGIN_TUNNELING_CLIENT_FLOW_CONTROL_NOT_SUPPORTED = 0x04,
00870     EMBER_AF_PLUGIN_TUNNELING_CLIENT_IEEE_ADDRESS_REQUEST_FAILED = 0xF9,
00871     EMBER_AF_PLUGIN_TUNNELING_CLIENT_IEEE_ADDRESS_NOT_FOUND = 0xFA,
00872     EMBER_AF_PLUGIN_TUNNELING_CLIENT_ADDRESS_TABLE_FULL = 0xFB,
00873     EMBER_AF_PLUGIN_TUNNELING_CLIENT_LINK_KEY_EXCHANGE_REQUEST_FAILED = 0xFC,
00874     EMBER_AF_PLUGIN_TUNNELING_CLIENT_LINK_KEY_EXCHANGE_FAILED = 0xFD,
00875     EMBER_AF_PLUGIN_TUNNELING_CLIENT_REQUEST_TUNNEL_FAILED = 0xFE,
00876     EMBER_AF_PLUGIN_TUNNELING_CLIENT_REQUEST_TUNNEL_TIMEOUT = 0xFF,
00877 } EmberAfPluginTunnelingClientStatus;
00878 #endif
00879
00880 #ifdef EMBER_AF_PLUGIN_ZLL_COMMISSIONING
00881
00884 #ifdef DOXYGEN_SHOULD_SKIP_THIS
00885 enum EmberAfZllCommissioningStatus
00886 #else
00887 typedef int8u EmberAfZllCommissioningStatus;
00888 enum
00889 #endif
00890 {
00891     EMBER_AF_ZLL_ABORTED_BY_APPLICATION = 0x00,
00892     EMBER_AF_ZLL_CHANNEL_CHANGE_FAILED = 0x01,
00893     EMBER_AF_ZLL_JOINING_FAILED = 0x02,
00894     EMBER_AF_ZLL_NO_NETWORKS_FOUND = 0x03,
00895     EMBER_AF_ZLL_PREEMPTED_BY_STACK = 0x04,
00896     EMBER_AF_ZLL_SENDING_START_JOIN_FAILED = 0x05,
00897     EMBER_AF_ZLL_SENDING_DEVICE_INFORMATION_REQUEST_FAILED = 0x06,
00898     EMBER_AF_ZLL_SENDING_IDENTIFY_REQUEST_FAILED = 0x07,
00899     EMBER_AF_ZLL_SENDING_RESET_TO_FACTORY_NEW_REQUEST_FAILED = 0x08,
00900 };
00901
00906 typedef struct {
00907     EmberMulticastId groupId;
00908     int8u groupType;
00909 } EmberAfPluginZllCommissioningGroupInformationRecord;
00910
00915 typedef struct {
00916     EmberNodeId networkAddress;
00917     int8u endpointId;
00918     int16u profileId;
00919     int16u deviceId;
00920     int8u version;
00921 } EmberAfPluginZllCommissioningEndpointInformationRecord;
00922 #endif
00923
00929 typedef struct {
00930     int16u manufacturerId;
00931     int16u imageTypeId;
00932     int32u firmwareVersion;
00933 }
```

```

00940     int8u deviceSpecificFileEui64[EUI64_SIZE];
00941 } EmberAfOtaImageId;
00942
00943 typedef enum {
00944     EMBER_AF_OTA_STORAGE_SUCCESS = 0,
00945     EMBER_AF_OTA_STORAGE_ERROR = 1,
00946     EMBER_AF_OTA_STORAGE_RETURN_DATA_TOO_LONG = 2,
00947     EMBER_AF_OTA_STORAGE_PARTIAL_FILE_FOUND = 3,
00948     EMBER_AF_OTA_STORAGE_OPERATION_IN_PROGRESS = 4,
00949 } EmberAfOtaStorageStatus;
00950
00951 #define EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH 32
00952
00953 typedef struct {
00954     // Magic Number omitted since it is always the same.
00955     int16u headerVersion;
00956     int16u headerLength;
00957     int16u fieldControl;
00958     int16u manufacturerId;
00959     int16u imageTypeId;           // a.k.a. Device ID
00960     int32u firmwareVersion;
00961     int16u zigbeeStackVersion;
00962
00963     int8u headerString[EMBER_AF_OTA_MAX_HEADER_STRING_LENGTH + 1];
00964
00965     int32u imageSize;
00966
00967     int8u securityCredentials;
00968     int8u upgradeFileDestination[EUI64_SIZE];
00969     int16u minimumHardwareVersion;
00970     int16u maximumHardwareVersion;
00971 } EmberAfOtaHeader;
00972
00973 typedef struct {
00974     int16u id;
00975     int32u length;
00976 } EmberAfTagData;
00977
00978 typedef enum {
00979     NO_APP_MESSAGE = 0,
00980     RECEIVED_PARTNER_CERTIFICATE = 1,
00981     GENERATING_EPHEMERAL_KEYS = 2,
00982     GENERATING_SHARED_SECRET = 3,
00983     KEY_GENERATION_DONE = 4,
00984     GENERATE_SHARED_SECRET_DONE = 5,
00985     LINK_KEY_ESTABLISHED = 6,
00986
00987     NO_LOCAL_RESOURCES = 7,
00988     PARTNER_NO_RESOURCES = 8,
00989     TIMEOUT_OCCURRED = 9,
00990     INVALID_APP_COMMAND = 10,
00991     MESSAGE_SEND_FAILURE = 11,
00992     PARTNER_SENT_TERMINATE = 12,
00993     INVALID_PARTNER_MESSAGE = 13,
00994     PARTNER_SENT_DEFAULT_RESPONSE_ERROR = 14,
00995
00996     BAD_CERTIFICATE_ISSUER = 15,
00997     KEY_CONFIRM_FAILURE = 16,
00998     BAD_KEY_ESTABLISHMENT_SUITE = 17,
00999
01000     KEY_TABLE_FULL = 18,
01001
01002     NO_ESTABLISHMENT_ALLOWED = 19,
01003 } EmberAfKeyEstablishmentNotifyMessage;
01004
01005 #define APP_NOTIFY_ERROR_CODE_START NO_LOCAL_RESOURCES
01006 #define APP_NOTIFY_MESSAGE_TEXT { \
01007     "None", \
01008     "Received Cert", \
01009     "Generate keys", \
01010     "Generate secret", \
01011     "Key generate done", \
01012     "Generate secret done", \
01013     "Link key verified", \
01014
01015     /* Transient Error codes */ \
01016     "No local resources", \
01017     "Partner no resources", \
01018     "Timeout", \
01019 }
```

```

01070 "Invalid app. command",
01071 "Message send failure",
01072 "Partner sent terminate",
01073 "Bad message",
01074 "Partner sent Default Rsp",
01075
01076 /* Fatal errors */
01077 "Bad cert issuer",
01078 "Key confirm failure",
01079 "Bad key est. suite",
01080 "Key table full",
01081 "Not allowed",
01082 }
01083
01089 typedef enum {
01090     EMBER_AF_IMAGE_GOOD = 0,
01091     EMBER_AF_IMAGE_BAD = 1,
01092     EMBER_AF_IMAGE_VERIFY_IN_PROGRESS = 2,
01093
01094 #ifndef DOXYGEN_SHOULD_SKIP_THIS
01095 // Internal use only.
01096     EMBER_AF_IMAGE_VERIFY_WAIT = 3,
01097     EMBER_AF_IMAGE_VERIFY_ERROR = 4,
01098     EMBER_AF_IMAGE_UNKNOWN = 5,
01099     EMBER_AF_NO_IMAGE_VERIFY_SUPPORT = 6,
01100 #endif
01101 } EmberAfImageVerifyStatus;
01102
01110 typedef void (*EmberAfTickFunction)(int8u endpoint);
01111
01112
01119 typedef void (*EmberAfInitFunction)(int8u endpoint);
01120
01126 typedef void (*EmberAfClusterAttributeChangedCallback)(int8u endpoint,
01127                                         EmberAfAttributeId
01128                                         attributeId);
01129
01135 typedef void (*EmberAfManufacturerSpecificClusterAttributeChangedCallback)(
01136                                         int8u endpoint,
01137                                         EmberAfAttributeId
01138                                         attributeId,
01139                                         int16u manufacturerCode)
01140 ;
01141
01146 typedef void (*EmberAfDefaultResponseFunction)(int8u endpoint,
01147                                         int8u commandId,
01148                                         EmberAfStatus status);
01149
01155 typedef void (*EmberAfMessageSentFunction)(EmberOutgoingMessageType type,
01156                                         int16u indexOrDestination,
01157                                         EmberApsFrame *apsFrame,
01158                                         int16u msgLen,
01159                                         int8u *message,
01160                                         EmberStatus status);
01161
01169 typedef struct {
01170     EmberEUI64 deviceId;
01171     EmberKeyData key;
01172 } EmberAfLinkKeyBackupData;
01173
01184 typedef struct {
01185     EmberEUI64 extendedPanId;
01186     int8u keyListLength;
01187     int8u maxKeyListLength;
01188     EmberAfLinkKeyBackupData* keyList;
01189 } EmberAfTrustCenterBackupData;
01190
01193 #endif // __AF_API_TYPES__

```

9.7 af.h File Reference

```
#include "app/framework/util/config.h" #include <PLATFORM_HEADER> #include
"stack/include/ember.h" #include "hal/hal.h" #include "app/util/serial/serial.h" #include
"stack/include/event.h" #include "stack/include/error.h" #include
```

```
"af-types.h" #include "app/framework/util/print.h" #include "af-structs.-  
h" #include "attribute-id.h" #include "att-storage.h" #include "attribute-type.-  
h" #include "call-command-handler.h" #include "callback.h" #include "client-command-macro  
h" #include "cluster-id.h" #include "command-id.h" #include "debug-printing.-  
h" #include "enums.h" #include "print-cluster.h" #include "stack-handlers.-  
h" #include "app/framework/util/client-api.h"
```

Defines

- `#define CONFIGURATION_HEADER`

Attribute Storage

- `#define emberAfClusterIsManufacturerSpecific(cluster)`
- `#define emberAfAttributeIsReadOnly(metadata)`
- `#define emberAfAttributeIsClient(metadata)`
- `#define emberAfAttributeIsTokenized(metadata)`
- `#define emberAfAttributeIsSingleton(metadata)`
- `#define emberAfAttributeIsManufacturerSpecific(metadata)`
- `#define emberAfAttributeSize(metadata)`
- `#define emberAfEndpointFromIndex(index)`
- `#define emberAfProfileIdFromIndex(index)`
- `#define emberAfDeviceIdFromIndex(index)`
- `#define emberAfDeviceVersionFromIndex(index)`
- `#define emberAfPrimaryProfileId()`
- `#define emberAfPrimaryEndpoint()`
- `#define emberAfGetInt8u(message, currentIndex, msgLen)`
- `#define emberAfCopyInt8u(data, index, x)`
- `enum { EMBER_AF_DATA_TYPE_ANALOG, EMBER_AF_DATA_TYPE_DISCRETE, EMB-
ER_AF_DATA_TYPE_NONE }`
- `EmberAfDefinedEndpoint endpoints []`
- `EmberAfAttributeMetadata * emberAfLocateAttributeMetadata (int8u endpoint, EmberAfClusterId
cluster, EmberAfAttributeId attribute, int8u mask, int16u manufacturerCode)`
- `boolean emberAfContainsCluster (int8u endpoint, EmberAfClusterId clusterId)`
- `boolean emberAfContainsServer (int8u endpoint, EmberAfClusterId clusterId)`
- `boolean emberAfContainsClient (int8u endpoint, EmberAfClusterId clusterId)`
- `boolean emberAfReadOrUpdateAttribute (EmberAfAttributeSearchRecord *attRecord, EmberAf-
AttributeMetadata **metadata, int8u *buffer, boolean write)`
- `EmberAfStatus emberAfWriteAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAfAttribute-
Id attributeID, int8u mask, int8u *dataPtr, int8u dataType)`
- `EmberAfStatus emberAfWriteServerAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAf-
AttributeId attributeID, int8u *dataPtr, int8u dataType)`
- `EmberAfStatus emberAfWriteClientAttribute (int8u endpoint, EmberAfClusterId cluster, EmberAf-
AttributeId attributeID, int8u *dataPtr, int8u dataType)`
- `EmberAfStatus emberAfWriteManufacturerSpecificServerAttribute (int8u endpoint, EmberAfCluster-
Id cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u *dataPtr, int8u data-
Type)`
- `EmberAfStatus emberAfWriteManufacturerSpecificClientAttribute (int8u endpoint, EmberAfCluster-
Id cluster, EmberAfAttributeId attributeID, int16u manufacturerCode, int8u *dataPtr, int8u data-
Type)`

- `EmberAfStatus emberAfVerifyAttributeWrite` (int8u endpoint, `EmberAfClusterId` cluster, `EmberAfAttributeId` attributeID, int8u mask, int16u manufacturerCode, int8u *buffer, int8u dataType)
- `EmberAfStatus emberAfReadAttribute` (int8u endpoint, `EmberAfClusterId` cluster, `EmberAfAttributeId` attributeID, int8u mask, int8u *dataPtr, int8u maxLength, int8u *dataType)
- `EmberAfStatus emberAfReadServerAttribute` (int8u endpoint, `EmberAfClusterId` cluster, `EmberAfAttributeId` attributeID, int8u *dataPtr, int8u maxLength)
- `EmberAfStatus emberAfReadClientAttribute` (int8u endpoint, `EmberAfClusterId` cluster, `EmberAfAttributeId` attributeID, int8u *dataPtr, int8u maxLength)
- `EmberAfStatus emberAfReadManufacturerSpecificServerAttribute` (int8u endpoint, `EmberAfClusterId` cluster, `EmberAfAttributeId` attributeID, int16u manufacturerCode, int8u *dataPtr, int8u maxLength)
- `EmberAfStatus emberAfReadManufacturerSpecificClientAttribute` (int8u endpoint, `EmberAfClusterId` cluster, `EmberAfAttributeId` attributeID, int16u manufacturerCode, int8u *dataPtr, int8u maxLength)
- `int8u emberAfGetDataSize` (int8u dataType)
- `int8u emberAfIndexFromEndpoint` (int8u endpoint)
- `int8u emberAfEndpointCount` (void)
- `int8u emberAfGetAttributeAnalogOrDiscreteType` (int8u dataType)
- `boolean emberAfIsTypeSigned` (int8u dataType)
- `int32u emberAfGetInt32u` (const int8u *message, int16u currentIndex, int16u msgLen)
- `int32u emberAfGetInt24u` (const int8u *message, int16u currentIndex, int16u msgLen)
- `int16u emberAfGetInt16u` (const int8u *message, int16u currentIndex, int16u msgLen)
- `int8u * emberAfGetString` (int8u *message, int16u currentIndex, int16u msgLen)
- `int8u * emberAfGetLongString` (int8u *message, int16u currentIndex, int16u msgLen)
- `void emberAfCopyInt16u` (int8u *data, int16u index, int16u x)
- `void emberAfCopyInt24u` (int8u *data, int16u index, int32u x)
- `void emberAfCopyInt32u` (int8u *data, int16u index, int32u x)
- `void emberAfCopyString` (int8u *dest, int8u *src, int8u size)
- `void emberAfCopyLongString` (int8u *dest, int8u *src, int16u size)
- `int8u emberAfStringLength` (const int8u *buffer)
- `int16u emberAfLongStringLength` (const int8u *buffer)

Device Control

- `boolean emberAfIsDeviceEnabled` (int8u endpoint)
- `void emberAfSetDeviceEnabled` (int8u endpoint, boolean enabled)

Miscellaneous

- `#define EMBER_AF_NEW_IMAGE_VERIFICATION`
- `#define EMBER_AF_CONTINUE_IMAGE_VERIFY`
- `PGM EmberAfOtaImageId emberAfInvalidImageId`
- `boolean emberAfIsThisDataTypeAStringType` (int8u dataType)
- `int8u emberAfNextSequence` (void)
- `int8s emberAfCompareValues` (int8u *val1, int8u *val2, int8u len)
- `void emberAfGetEui64` (EmberEUI64 returnEui64)
- `EmberNodeId emberAfGetNodeId` (void)
- `EmberPanId emberAfGetPanId` (void)
- `int8u emberAfGetBindingIndex` (void)
- `int8u emberAfGetAddressIndex` (void)

Printing

- #define `emberAfGuaranteedPrint(...)`
- #define `emberAfGuaranteedPrintln(...)`
- #define `emberAfGuaranteedPrintBuffer(buffer, len, withSpace)`
- #define `emberAfGuaranteedPrintString(buffer)`
- #define `emberAfGuaranteedFlush()`
- boolean `emberAfPrintEnabled` (int16u functionality)
- void `emberAfPrintBuffer` (int16u area, const int8u *buffer, int16u bufferLen, boolean withSpaces)
- void `emberAfPrintString` (int16u area, const int8u *buffer)
- void `emberAfPrint` (int16u functionality, PGM_P formatString,...)
- void `emberAfPrintln` (int16u functionality, PGM_P formatString,...)
- void `emberAfFlush` (int16u functionality)
- void `emberAfPrintOn` (int16u functionality)
- void `emberAfPrintOff` (int16u functionality)
- void `emberAfPrintAllOn` (void)
- void `emberAfPrintAllOff` (void)
- void `emberAfPrintStatus` (void)
- void `emberAfPrintLittleEndianEui64` (const EmberEUI64 eui64)
- void `emberAfPrintBigEndianEui64` (const EmberEUI64 eui64)
- void `emberAfPrintMessageData` (int8u *data, int16u length)

Hibernation

- #define `MILLISECOND_TICKS_PER_QUARTERSECOND`
- #define `MILLISECOND_TICKS_PER_MINUTE`
- #define `MILLISECOND_TICKS_PER_HOUR`
- #define `EMBER_AF_SET_HIBERNATE_DURATION`(newValue)
- #define `EMBER_AF_SET_NAP_DURATION`(newValue)
- #define `EMBER_AF_WAKE_TIMEOUT`
- #define `EMBER_AF_WAKE_TIMEOUT_MASK`
- #define `emberAfOkToNap()`
- #define `emberAfCurrentAppTasks()`
- #define `EMBER_AF_CLIENT_CLUSTER_TICK`
- #define `EMBER_AF_SERVER_CLUSTER_TICK`
- #define `emberAfQSToNextEvent`(maxQS)
- #define `emberAfGetDefaultSleepControl()`
- enum { `EMBER_AF_WAITING_FOR_DATA_ACK`, `EMBER_AF_LAST_POLL_GOT_DATA`,
`EMBER_AF_WAITING_FOR_SERVICE_DISCOVERY`, `EMBER_AF_WAITING_FOR_ZDO_RESPONSE`, `EMBER_AF_WAITING_FOR_ZCL_RESPONSE`, `EMBER_AF_WAITING_FOR_REGISTRATION`, `EMBER_AF_WAITING_FOR_PARTNER_LINK_KEY_EXCHANGE` }
- int32u `emberAfHibernateDuration`
- int32u `emberAfNapDuration`
- int32u `emAfCurrentAppTasks`
- `EmberAfEventSleepControl emAfDefaultSleepControl`
- void `emberAfAddToCurrentAppTasks` (int32u mask)
- void `emberAfRemoveFromCurrentAppTasks` (int32u mask)
- boolean `emberAfOkToHibernate` (void)
- void `emberAfRunEvents` (void)
- boolean `emberAfStartMove` (void)

- EmberStatus `emberAfScheduleClusterTick` (int8u endpoint, int16u clusterId, boolean isClient, int32u timeMs, `EmberAfEventSleepControl` sleepControl)
- EmberStatus `emberAfDeactivateClusterTick` (int8u endpoint, int16u clusterId, boolean isClient)
- EmberStatus `emberAfEventControlSetDelay` (`EmberEventControl` *eventControl, int32u timeMs)
- int32u `emberAfMsToNextEvent` (int32u maxMs)
- `EmberAfEventSleepControl` `emberAfGetCurrentSleepControl` (void)
- void `emberAfSetDefaultSleepControl` (`EmberAfEventSleepControl` control)

Time

- int32u `emberAfGetCurrentTime` (void)
- void `emberAfSetTime` (int32u utcTime)
- void `emberAfPrintTime` (int32u utcTime)

Messaging

- #define `emberAfSetResponseWaiting()`
- #define `emberAfSendInterpanUnicast`(destinationShortAddress,destinationPanId,destinationAppProfileId,destinationClusterId,multicastIdOrZero,longAddressOrNull,messageLength,messageBytes)
- #define `emberAfSendCommandInterpanUnicast`(eui64,nodeId,panId,multicastId, profileId)
- #define `EMBER_AF_CLIENT_CLUSTER_DISCOVERY`
- #define `EMBER_AF_SERVER_CLUSTER_DISCOVERY`
- #define `emberAfCurrentCommand()`
- #define `emberAfCurrentEndpoint()`
- boolean `emberAfResponseWaitingFlag`
- `EmberAfClusterCommand` * `emAfCurrentCommand`
- EmberStatus `emberAfSendResponse` (void)
- EmberStatus `emberAfSendRequest` (void)
- EmberStatus `emberAfSendMulticast` (EmberMulticastId multicastId, EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendBroadcast` (EmberNodeId destination, EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendUnicast` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendUnicastToBindings` (EmberApsFrame *apsFrame, int16u messageLength, int8u *message)
- EmberStatus `emberAfSendInterPan` (EmberPanId panId, const EmberEUI64 destinationLongId, - EmberNodeId destinationShortId, EmberMulticastId multicastId, `EmberAfClusterId` clusterId, `EmberAfProfileId` profileId, int16u messageLength, int8u *messageBytes)
- EmberStatus `emberAfSendEndDeviceBind` (int8u endpoint)
- EmberStatus `emberAfSendCommandUnicastToBindings` (void)
- EmberStatus `emberAfSendCommandMulticast` (EmberMulticastId multicastId)
- EmberStatus `emberAfSendCommandUnicast` (EmberOutgoingMessageType type, int16u indexOrDestination)
- EmberStatus `emberAfSendCommandBroadcast` (EmberNodeId destination)
- EmberStatus `emberAfSendCommandInterPan` (EmberPanId panId, const EmberEUI64 destinationLongId, EmberNodeId destinationShortId, EmberMulticastId multicastId, `EmberAfProfileId` profileId)
- EmberStatus `emberAfSendDefaultResponse` (const `EmberAfClusterCommand` *cmd, `EmberAfStatus` status)

- int8u `emberAfMaximumApsPayloadLength` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame)
- EmberApsFrame * `emberAfGetCommandApsFrame` (void)
- EmberStatus `emberAfFindDevicesSupportingCluster` (EmberNodeId target, EmberAfClusterId clusterId, boolean serverCluster, EmberAfServiceDiscoveryCallback *callback)
- EmberStatus `emberAfFindDevicesByProfileAndCluster` (EmberNodeId target, EmberAfProfileId profileId, EmberAfClusterId clusterId, boolean serverCluster, EmberAfServiceDiscoveryCallback *callback)
- EmberStatus `emberAfFindIeeeAddress` (EmberNodeId shortAddress, EmberAfServiceDiscoveryCallback *callback)
- EmberStatus `emberAfFindNodeId` (EmberEUI64 longAddress, EmberAfServiceDiscoveryCallback *callback)
- int8u `emberAfAddAddressTableEntry` (EmberEUI64 longId, EmberNodeId shortId)
- EmberStatus `emberAfSetAddressTableEntry` (int8u index, EmberEUI64 longId, EmberNodeId shortId)
- EmberStatus `emberAfRemoveAddressTableEntry` (int8u index)
- EmberStatus `emberAfInitiateKeyEstablishment` (EmberNodeId nodeId, int8u endpoint)
- EmberStatus `emberAfInitiateInterPanKeyEstablishment` (EmberPanId panId, const EmberEUI64 eui64)
- boolean `emberAfPerformingKeyEstablishment` (void)
- EmberStatus `emberAfInitiatePartnerLinkKeyExchange` (EmberNodeId target, int8u endpoint, EmberAfPartnerLinkKeyExchangeCallback *callback)

ZCL macros

- #define `ZCL_FRAME_CONTROL_FRAME_TYPE_MASK`
- #define `ZCL_CLUSTER_SPECIFIC_COMMAND`
- #define `ZCL_PROFILE_WIDE_COMMAND`
- #define `ZCL_MANUFACTURER_SPECIFIC_MASK`
- #define `ZCL_FRAME_CONTROL_DIRECTION_MASK`
- #define `ZCL_FRAME_CONTROL_SERVER_TO_CLIENT`
- #define `ZCL_FRAME_CONTROL_CLIENT_TO_SERVER`
- #define `ZCL_DISABLE_DEFAULT_RESPONSE_MASK`
- #define `EMBER_AF_ZCL_OVERHEAD`
- #define `EMBER_AF_ZCL_MANUFACTURER_SPECIFIC_OVERHEAD`

Stack handler utility functions

- void `emberAfPollCompleteHandler` (EmberStatus status)
- void `emberAfEzspPollCompleteHandler` (EmberStatus status)

Network utility functions

- EmberStatus `emberAfFormNetwork` (EmberNetworkParameters *parameters)
- EmberStatus `emberAfJoinNetwork` (EmberNetworkParameters *parameters)
- EmberStatus `emberAfFindUnusedPanIdAndForm` (void)
- EmberStatus `emberAfStartSearchForJoinableNetwork` (void)

9.7.1 Detailed Description

The master include file for the Ember ApplicationFramework API.

Definition in file `af.h`.

9.8 af.h

```

00001
00020 #ifndef __AF_API__
00021 #define __AF_API__
00022
00023 #ifndef CONFIGURATION_HEADER
00024     #define CONFIGURATION_HEADER "app/framework/util/config.h"
00025 #endif
00026 #include CONFIGURATION_HEADER
00027
00028 // Micro and compiler specific typedefs and macros
00029 #include PLATFORM_HEADER
00030
00031 #ifdef EZSP_HOST
00032     // Includes needed for ember related functions for the EZSP host
00033     #include "stack/include/error.h"
00034     #include "stack/include/ember-types.h"
00035     #include "app/util/ezsp/ezsp-protocol.h"
00036     #include "app/util/ezsp/ezsp.h"
00037     #include "app/util/ezsp/ezsp-utils.h"
00038     #include "app/util/ezsp/serial-interface.h"
00039 #else
00040     // Includes needed for ember related functions for the EM250
00041     #include "stack/include/ember.h"
00042 #endif // EZSP_HOST
00043
00044 // HAL - hardware abstraction layer
00045 #include "hal/hal.h"
00046 #include "app/util/serial/serial.h" // Serial utility APIs
00047
00048 #include "stack/include/event.h"
00049 #include "stack/include/error.h"
00050 #include "af-types.h"
00051 #include "app/framework/util/print.h"
00052 #include "af-structs.h"
00053 #include "attribute-id.h"
00054 #include "att-storage.h"
00055 #include "attribute-type.h"
00056 #include "call-command-handler.h"
00057 #include "callback.h"
00058 #include "client-command-macro.h"
00059 #include "cluster-id.h"
00060 #include "command-id.h"
00061 #include "debug-printing.h"
00062 #include "enums.h"
00063 #include "print-cluster.h"
00064 #include "stack-handlers.h"
00065 #include "app/framework/util/client-api.h"
00066
00068 // @{
00069
00083 EmberAfAttributeMetadata *emberAfLocateAttributeMetadata(int8u endpoint,
00084                                         EmberAfClusterId
00085                                         cluster,
00086                                         EmberAfAttributeId
00087                                         attribute,
00088                                         int8u mask,
00089                                         int16u
00090                                         manufacturerCode);
00095 boolean emberAfContainsCluster(int8u endpoint, EmberAfClusterId clusterId);
00096
00103 boolean emberAfContainsServer(int8u endpoint, EmberAfClusterId clusterId);
00104
00111 boolean emberAfContainsClient(int8u endpoint, EmberAfClusterId clusterId);
00112
00113
00143 boolean emberAfReadOrUpdateAttribute(EmberAfAttributeSearchRecord *attRecord,
00144                                         EmberAfAttributeMetadata **metadata,
00145                                         int8u *buffer,
00146                                         boolean write);
00147
00148
00149
00169 EmberAfStatus emberAfWriteAttribute(int8u endpoint,
00170                                         EmberAfClusterId cluster,
00171                                         EmberAfAttributeId attributeID,
00172                                         int8u mask,

```

```

00173                     int8u* dataPtr,
00174                     int8u dataType);
00175
00188 EmberAfStatus emberAfWriteServerAttribute(int8u endpoint,
00189                         EmberAfClusterId cluster,
00190                         EmberAfAttributeId attributeID,
00191                         int8u* dataPtr,
00192                         int8u dataType);
00193
00206 EmberAfStatus emberAfWriteClientAttribute(int8u endpoint,
00207                         EmberAfClusterId cluster,
00208                         EmberAfAttributeId attributeID,
00209                         int8u* dataPtr,
00210                         int8u dataType);
00211
00223 EmberAfStatus emberAfWriteManufacturerSpecificServerAttribute(int8u endpoint,
00224                         EmberAfClusterId
00225                         cluster,
00226                         EmberAfAttributeId
00227                         attributeID,
00228                         int16u
00229                         manufacturerCode,
00230                         int8u* dataPtr,
00231                         int8u dataType);
00241 EmberAfStatus emberAfWriteManufacturerSpecificClientAttribute(int8u endpoint,
00242                         EmberAfClusterId
00243                         cluster,
00244                         EmberAfAttributeId
00245                         attributeID,
00246                         int16u
00247                         manufacturerCode,
00248                         int8u* dataPtr,
00249                         int8u dataType);
00263 EmberAfStatus emberAfVerifyAttributeWrite(int8u endpoint,
00264                         EmberAfClusterId cluster,
00265                         EmberAfAttributeId attributeID,
00266                         int8u mask,
00267                         int16u manufacturerCode,
00268                         int8u* buffer,
00269                         int8u dataType);
00270
00283 EmberAfStatus emberAfReadAttribute(int8u endpoint,
00284                         EmberAfClusterId cluster,
00285                         EmberAfAttributeId attributeID,
00286                         int8u mask,
00287                         int8u* dataPtr,
00288                         int8u maxLength,
00289                         int8u* dataType);
00290
00303 EmberAfStatus emberAfReadServerAttribute(int8u endpoint,
00304                         EmberAfClusterId cluster,
00305                         EmberAfAttributeId attributeID,
00306                         int8u* dataPtr,
00307                         int8u maxLength);
00308
00321 EmberAfStatus emberAfReadClientAttribute(int8u endpoint,
00322                         EmberAfClusterId cluster,
00323                         EmberAfAttributeId attributeID,
00324                         int8u* dataPtr,
00325                         int8u maxLength);
00326
00338 EmberAfStatus emberAfReadManufacturerSpecificServerAttribute(int8u endpoint,
00339                         EmberAfClusterId
00340                         cluster,
00341                         EmberAfAttributeId
00342                         attributeID,
00343                         int16u
00344                         manufacturerCode,
00345                         int8u* dataPtr,
00346                         int8u maxLength);
00356 EmberAfStatus emberAfReadManufacturerSpecificClientAttribute(int8u endpoint,
00357                         EmberAfClusterId
00358                         cluster,
00359                         EmberAfAttributeId
00360                         attributeID,
00361                         int16u

```

```

    manufacturerCode,
00360                               int8u* dataPtr,
00361                               int8u maxLength);
00362
00363
00370 int8u emberAfGetDataSize(int8u dataType);
00371
00377 #define emberAfClusterIsManufacturerSpecific(cluster) ((cluster)->clusterId >=
0xFC00)
00378
00379
00385 #define emberAfAttributeIsReadOnly(metadata) (((metadata)->mask &
00386     ATTRIBUTE_MASK_WRITABLE) == 0)
00387
00392 #define emberAfAttributeIsClient(metadata) (((metadata)->mask &
00393     ATTRIBUTE_MASK_CLIENT) != 0)
00394
00399 #define emberAfAttributeIsTokenized(metadata) (((metadata)->mask &
00400     ATTRIBUTE_MASK_TOKENIZE) != 0)
00401
00406 #define emberAfAttributeIsSingleton(metadata) (((metadata)->mask &
00407     ATTRIBUTE_MASK_SINGLETON) != 0)
00408
00413 #define emberAfAttributeIsManufacturerSpecific(metadata) (((metadata)->mask &
00414     ATTRIBUTE_MASK_MANUFACTURER_SPECIFIC) != 0)
00415
00421 #define emberAfAttributeSize(metadata) ((metadata)->size)
00422
00423 // master array of all defined endpoints
00424 extern EmberAfDefinedEndpoint endpoints[];
00425
00429 #define emberAfEndpointFromIndex(index) (endpoints[(index)].endpoint)
00430
00434 int8u emberAfIndexFromEndpoint(int8u endpoint);
00435
00439 #define emberAfProfileIdFromIndex(index) (endpoints[(index)].profileId)
00440
00444 #define emberAfDeviceIdFromIndex(index) (endpoints[(index)].deviceId)
00445
00449 #define emberAfDeviceVersionFromIndex(index) (endpoints[(index)].deviceVersion)
00450
00457 #define emberAfPrimaryProfileId()          emberAfProfileIdFromIndex(0)
00458
00462 #define emberAfPrimaryEndpoint() (endpoints[0].endpoint)
00463
00464
00468 int8u emberAfEndpointCount(void);
00469
00474 enum {
00475     EMBER_AF_DATA_TYPE_ANALOG      = 0,
00476     EMBER_AF_DATA_TYPE_DISCRETE   = 1,
00477     EMBER_AF_DATA_TYPE_NONE       = 2
00478 };
00482 int8u emberAfGetAttributeAnalogOrDiscreteType(int8u dataType);
00483
00487 boolean emberAfIsTypeSigned(int8u dataType);
00488
00492 int32u emberAfGetInt32u(const int8u* message, int16u currentIndex, int16u
msgLen);
00493
00497 int32u emberAfGetInt24u(const int8u* message, int16u currentIndex, int16u
msgLen);
00498
00502 int16u emberAfGetInt16u(const int8u* message, int16u currentIndex, int16u
msgLen);
00506 int8u* emberAfGetString(int8u* message, int16u currentIndex, int16u msgLen);
00510 int8u* emberAfGetLongString(int8u* message, int16u currentIndex, int16u msgLen)
;
00511
00515 #define emberAfGetInt8u(message, currentIndex, msgLen) message[currentIndex]
00516
00520 #define emberAfCopyInt8u(data,index,x) (data[index] = (x))
00521
00524 void emberAfCopyInt16u(int8u *data, int16u index, int16u x);
00528 void emberAfCopyInt24u(int8u *data, int16u index, int32u x);
00532 void emberAfCopyInt32u(int8u *data, int16u index, int32u x);
00533 /*
00534 * @brief Function that copies a ZigBee string into a buffer. The size
00535 * parameter should indicate the maximum number of characters to copy to the

```

```

00536 * destination buffer not including the length byte.
00537 */
00538 void emberAfCopyString(int8u *dest, int8u *src, int8u size);
00539 /*
00540 * @brief Function that copies a ZigBee long string into a buffer. The size
00541 * parameter should indicate the maximum number of characters to copy to the
00542 * destination buffer not including the length byte.
00543 */
00544 void emberAfCopyLongString(int8u *dest, int8u *src, int16u size);
00545 /*
00546 * @brief Function that determines the length of a ZigBee string.
00547 */
00548 int8u emberAfStringLength(const int8u *buffer);
00549 /*
00550 * @brief Function that determines the length of a ZigBee long string.
00551 */
00552 int16u emberAfLongStringLength(const int8u *buffer);
00553
00557 // @{
00558
00567 boolean emberAfIsDeviceEnabled(int8u endpoint);
00568
00577 void emberAfSetDeviceEnabled(int8u endpoint, boolean enabled);
00578
00582 // @{
00583
00584
00588 #define EMBER_AF_NEW_IMAGE_VERIFICATION TRUE
00589
00594 #define EMBER_AF_CONTINUE_IMAGE_VERIFY FALSE
00595
00596
00603 extern PGM EmberAfOtaImageId emberAfInvalidImageId;
00604
00605
00616 boolean emberAfIsThisDataTypeAStringType(int8u dataType);
00617
00625 int8u emberAfNextSequence(void);
00626
00634 int8s emberAfCompareValues(int8u* val1, int8u* val2, int8u len);
00635
00639 void emberAfGetEui64(EmberEUI64 returnEui64);
00640
00644 EmberNodeId emberAfGetNodeId(void);
00645
00649 EmberPanId emberAfGetPanId(void);
00650
00651 /*
00652 * @brief Returns a binding index that matches the current incoming message, if
00653 * known.
00654 */
00655 int8u emberAfGetBindingIndex(void);
00656
00657 /*
00658 * @brief Returns an address index that matches the current incoming message,
00659 * if known.
00660 */
00661 int8u emberAfGetAddressIndex(void);
00662
00666 // @@
00667
00668 // Guaranteed print
00673 #define emberAfGuaranteedPrint(...) emberAfPrint(0xFFFF, __VA_ARGS__)
00674
00678 #define emberAfGuaranteedPrintln(...) emberAfPrintln(0xFFFF, __VA_ARGS__)
00679
00683 #define emberAfGuaranteedPrintBuffer(buffer,len,withSpace)
    emberAfPrintBuffer(0xFFFF,(buffer),(len),(withSpace))
00684
00688 #define emberAfGuaranteedPrintString(buffer)
    emberAfPrintString(0xFFFF,(buffer))
00689
00694 #define emberAfGuaranteedFlush() emberAfFlush(0xFFFF)
00695
00699 boolean emberAfPrintEnabled(int16u functionality);
00700
00704 void emberAfPrintBuffer(int16u area, const int8u *buffer, int16u bufferLen,
    boolean withSpaces);
00705
00710 void emberAfPrintString(int16u area, const int8u *buffer);

```

```

00711
00717 void emberAfPrint(int16u functionality, PGM_P formatString, ...);
00718
00725 void emberAfPrintln(int16u functionality, PGM_P formatString, ...);
00726
00730 void emberAfFlush(int16u functionality);
00731
00735 void emberAfPrintOn(int16u functionality);
00736
00740 void emberAfPrintOff(int16u functionality);
00741
00744 void emberAfPrintAllOn(void);
00745
00749 void emberAfPrintAllOff(void);
00750
00754 void emberAfPrintStatus(void);
00755
00759 void emberAfPrintLittleEndianEui64(const EmberEUI64 eui64);
00760
00761
00765 void emberAfPrintBigEndianEui64(const EmberEUI64 eui64);
00766
00770 void emberAfPrintMessageData(int8u* data, int16u length);
00771
00772
00779 #define MILLISECOND_TICKS_PER_QUARTERSECOND (MILLISECOND_TICKS_PER_SECOND >> 2)
00780 #define MILLISECOND_TICKS_PER_MINUTE (60UL * MILLISECOND_TICKS_PER_SECOND)
00781 #define MILLISECOND_TICKS_PER_HOUR (60UL * MILLISECOND_TICKS_PER_MINUTE)
00782
00783 extern int32u emberAfHibernateDuration;
00784 extern int32u emberAfNapDuration;
00785
00790 #define EMBER_AF_SET_HIBERNATE_DURATION(newValue) \
00791     emberAfHibernateDuration = newValue \
00792
00797 #define EMBER_AF_SET_NAP_DURATION(newValue) \
00798     emberAfNapDuration = newValue \
00799
00826 enum {
00827     // we may be able to remove these top two since they are
00828     // handled by the stack on the SOC.
00829     EMBER_AF_WAITING_FOR_DATA_ACK          = 0x01, //not needed?
00830     EMBER_AF_LAST_POLL_GOT_DATA           = 0x02, //not needed?
00831     EMBER_AF_WAITING_FOR_SERVICE_DISCOVERY = 0x04,
00832     EMBER_AF_WAITING_FOR_ZDO_RESPONSE      = 0x08,
00833     EMBER_AF_WAITING_FOR_ZCL_RESPONSE      = 0x10,
00834     EMBER_AF_WAITING_FOR_REGISTRATION      = 0x20,
00835     EMBER_AF_WAITING_FOR_PARTNER_LINK_KEY_EXCHANGE = 0x40,
00836 };
00837
00843 #ifndef EMBER_AF_WAKE_TIMEOUT
00844 #define EMBER_AF_WAKE_TIMEOUT 4 // 1 second
00845 #endif
00846
00854 #ifndef EMBER_AF_WAKE_TIMEOUT_MASK
00855 #define EMBER_AF_WAKE_TIMEOUT_MASK (EMBER_AF_WAITING_FOR_ZDO_RESPONSE \
00856             | EMBER_AF_WAITING_FOR_ZCL_RESPONSE)
00857 #endif
00858
00863 extern int32u emAfCurrentAppTasks;
00864
00868 void emberAfAddToCurrentAppTasks(int32u mask);
00869
00873 void emberAfRemoveFromCurrentAppTasks(int32u mask);
00874
00885 boolean emberAfOkToHibernate(void);
00886
00894 #define emberAfOkToNap() (emberAfGetCurrentSleepControl() <
00895     EMBER_AF_STAY_AWAKE)
00895
00901 #ifdef ZA_DEVICE_IS_SLEEPY
00902 #define emberAfCurrentAppTasks() (emAfCurrentAppTasks)
00903 #else
00904 #define emberAfCurrentAppTasks()
00905 #endif //ZA_DEVICE_IS_SLEEPY
00906
00913 void emberAfRunEvents(void);
00914
00927 boolean emberAfStartMove(void);
00928

```

```

00933 #define EMBER_AF_CLIENT_CLUSTER_TICK TRUE
00934
00939 #define EMBER_AF_SERVER_CLUSTER_TICK FALSE
00940
00968 EmberStatus emberAfScheduleClusterTick(int8u endpoint,
00969                               int16u clusterId,
00970                               boolean isClient,
00971                               int32u timeMs,
00972                               EmberAfEventSleepControl sleepControl);
00973
00991 EmberStatus emberAfDeactivateClusterTick(int8u endpoint,
00992                               int16u clusterId,
00993                               boolean isClient);
00994
01017 EmberStatus emberAfEventControlSetDelay(EmberEventControl *eventControl, int32u
timeMs);
01018
01019
01029 int32u emberAfMsToNextEvent(int32u maxMs);
01030
01041 #define emberAfQSToNextEvent(maxQS) \
01042     (emberAfMsToNextEvent(maxQS * MILLISECOND TICKS_PER_QUARTERSECOND) \
01043     / MILLISECOND TICKS_PER_QUARTERSECOND)
01044
01059 EmberAfEventSleepControl emberAfGetCurrentSleepControl(void);
01060
01070 void emberAfSetDefaultSleepControl(EmberAfEventSleepControl control);
01071
01080 extern EmberAfEventSleepControl emAfDefaultSleepControl;
01081 #define emberAfGetDefaultSleepControl() (emAfDefaultSleepControl)
01082
01087 // @@
01088
01101 int32u emberAfGetCurrentTime(void);
01102
01114 void emberAfSetTime(int32u utcTime);
01115
01116
01130 void emberAfPrintTime(int32u utcTime);
01131
01136 // @@
01137
01149 extern boolean emberAfResponseWaitingFlag;
01150
01156 #define emberAfSetResponseWaiting() emberAfResponseWaitingFlag = TRUE
01157
01170 EmberStatus emberAfSendResponse(void);
01171
01186 EmberStatus emberAfSendRequest(void);
01187
01191 EmberStatus emberAfSendMulticast(EmberMulticastId multicastId,
01192                               EmberApsFrame *apsFrame,
01193                               int16u messageLength,
01194                               int8u* message);
01195
01199 EmberStatus emberAfSendBroadcast(EmberNodeId destination,
01200                               EmberApsFrame *apsFrame,
01201                               int16u messageLength,
01202                               int8u* message);
01203
01207 EmberStatus emberAfSendUnicast(EmberOutgoingMessageType type,
01208                               int16u indexOrDestination,
01209                               EmberApsFrame *apsFrame,
01210                               int16u messageLength,
01211                               int8u* message);
01212
01219 EmberStatus emberAfSendUnicastToBindings(EmberApsFrame *apsFrame,
01220                               int16u messageLength,
01221                               int8u* message);
01222
01226 EmberStatus emberAfSendInterPan(EmberPanId panId,
01227                               const EmberEUI64 destinationLongId,
01228                               EmberNodeId destinationShortId,
01229                               EmberMulticastId multicastId,
01230                               EmberAfClusterId clusterId,
01231                               EmberAfProfileId profileId,
01232                               int16u messageLength,
01233                               int8u* messageBytes);
01234
01235 // DEPRECATED.

```

```

01236 #define emberAfSendInterpanUnicast(destinationShortAddress, \
01237                                     destinationPanId, \
01238                                     destinationAppProfileId, \
01239                                     destinationClusterId, \
01240                                     multicastIdOrZero, \
01241                                     longAddressOrNull, \
01242                                     messageLength, \
01243                                     messageBytes) \
01244     emberAfSendInterPan(destinationPanId, \
01245                             longAddressOrNull, \
01246                             destinationShortAddress, \
01247                             multicastIdOrZero, \
01248                             destinationClusterId, \
01249                             destinationAppProfileId, \
01250                             messageLength, \
01251                             messageBytes)
01252
01256 EmberStatus emberAfSendEndDeviceBind(int8u endpoint);
01257
01268 EmberStatus emberAfSendCommandUnicastToBindings(void);
01269
01277 EmberStatus emberAfSendCommandMulticast(EmberMulticastId multicastId);
01278
01286 EmberStatus emberAfSendCommandUnicast(EmberOutgoingMessageType type,
01287                               int16u indexOrDestination);
01288
01295 EmberStatus emberAfSendCommandBroadcast(EmberNodeId destination);
01296
01307 EmberStatus emberAfSendCommandInterPan(EmberPanId panId,
01308                               const EmberEUI64 destinationLongId,
01309                               EmberNodeId destinationShortId,
01310                               EmberMulticastId multicastId,
01311                               EmberAfProfileId profileId);
01312
01313 // DEPRECATED.
01314 #define emberAfSendCommandInterpanUnicast(eui64, \
01315                               nodeId, \
01316                               panId, \
01317                               multicastId, \
01318                               profileId) \
01319     emberAfSendCommandInterPan(panId, \
01320         eui64, \
01321         nodeId, \
01322         multicastId, \
01323         profileId)
01324
01336 EmberStatus emberAfSendDefaultResponse(const EmberAfClusterCommand *cmd,
01337                                         EmberAfStatus status);
01338
01355 int8u emberAfMaximumApsPayloadLength(EmberOutgoingMessageType type,
01356                                         int16u indexOrDestination,
01357                                         EmberApsFrame *apsFrame);
01358
01362 EmberApsFrame *emberAfGetCommandApsFrame(void);
01363
01369 #define EMBER_AF_CLIENT_CLUSTER_DISCOVERY FALSE
01370
01376 #define EMBER_AF_SERVER_CLUSTER_DISCOVERY TRUE
01377
01378 #ifdef DOXYGEN_SHOULD_SKIP_THIS
01379
01412 EmberStatus emberAfFindDevicesSupportingCluster(EmberNodeId target,
01413                               EmberAfClusterId clusterId,
01414                               boolean serverCluster,
01415                               EmberAfServiceDiscoveryCallback
01416                               *callback);
01416 #else // doxygen
01417 #define emberAfFindDevicesSupportingCluster( target, clusterId, serverCluster,
01418                               callback) \
01418     ( emberAfFindDevicesByProfileAndCluster( target, \
01419         emberAfPrimaryProfileId(), \
01420         clusterId, \
01421         serverCluster, \
01422         callback) )
01423 #endif // doxygen
01424
01425
01451 EmberStatus emberAfFindDevicesByProfileAndCluster(EmberNodeId target,
01452                               EmberAfProfileId profileId,
01453                               EmberAfClusterId clusterId,

```

```

01454                               boolean serverCluster,
01455
01456     EmberAfServiceDiscoveryCallback *callback);
01457
01463 EmberStatus emberAfFindIeeeAddress(EmberNodeId shortAddress,
01464                                     EmberAfServiceDiscoveryCallback *callback);
01465
01471 EmberStatus emberAfFindNodeId(EmberEUI64 longAddress,
01472                                     EmberAfServiceDiscoveryCallback *callback);
01473
01492 int8u emberAfAddAddressTableEntry(EmberEUI64 longId, EmberNodeId shortId);
01493
01514 EmberStatus emberAfSetAddressTableEntry(int8u index,
01515                                     EmberEUI64 longId,
01516                                     EmberNodeId shortId);
01517
01530 EmberStatus emberAfRemoveAddressTableEntry(int8u index);
01531
01539 #define emberAfCurrentCommand() (emAfCurrentCommand)
01540 extern EmberAfClusterCommand *emAfCurrentCommand;
01541
01548 #define emberAfCurrentEndpoint()
        (emberAfCurrentCommand()->apsFrame->destinationEndpoint)
01549
01550 #ifdef DOXYGEN_SHOULD_SKIP_THIS
01551
01559 EmberStatus emberAfInitiateKeyEstablishment(EmberNodeId nodeId, int8u endpoint)
        ;
01560
01569 EmberStatus emberAfInitiateInterPanKeyEstablishment(EmberPanId panId,
01570                                     const EmberEUI64 eui64);
01571
01577 boolean emberAfPerformingKeyEstablishment(void);
01578
01589 EmberStatus emberAfInitiatePartnerLinkKeyExchange(EmberNodeId target,
01590                                     int8u endpoint,
01591
01592         EmberAfPartnerLinkKeyExchangeCallback *callback);
01593 #else
01594     #define emberAfInitiateKeyEstablishment(nodeId, endpoint) \
01595         emberAfInitiateKeyEstablishmentCallback(nodeId, endpoint)
01596     #define emberAfInitiateInterPanKeyEstablishment(panId, eui64) \
01597         emberAfInitiateInterPanKeyEstablishmentCallback(panId, eui64)
01598     #define emberAfPerformingKeyEstablishment() \
01599         emberAfPerformingKeyEstablishmentCallback()
01600     #define emberAfInitiatePartnerLinkKeyExchange(target, endpoint, callback) \
01601         emberAfInitiatePartnerLinkKeyExchangeCallback(target, endpoint, callback)
01601 #endif
01602
01607 // @{
01608 // Frame control fields (8 bits total)
01609 // Bits 0 and 1 are Frame Type Sub-field
01610 #define ZCL_FRAME_CONTROL_FRAME_TYPE_MASK      (BIT(0)|BIT(1))
01611 #define ZCL_CLUSTER_SPECIFIC_COMMAND           BIT(0)
01612 #define ZCL_PROFILE_WIDE_COMMAND                0
01613 // Bit 2 is Manufacturer Specific Sub-field
01614 #define ZCL_MANUFACTURER_SPECIFIC_MASK        BIT(2)
01615 // Bit 3 is Direction Sub-field
01616 #define ZCL_FRAME_CONTROL_DIRECTION_MASK       BIT(3)
01617 #define ZCL_FRAME_CONTROL_SERVER_TO_CLIENT    BIT(3)
01618 #define ZCL_FRAME_CONTROL_CLIENT_TO_SERVER    0
01619 // Bit 4 is Disable Default Response Sub-field
01620 #define ZCL_DISABLE_DEFAULT_RESPONSE_MASK     BIT(4)
01621 // Bits 5 to 7 are reserved
01622
01623 // Packet must be at least 3 bytes for ZCL overhead.
01624 //     Frame Control (1-byte)
01625 //     Sequence Number (1-byte)
01626 //     Command Id (1-byte)
01627 #define EMBER_AF_ZCL_OVERHEAD                 3
01628 #define EMBER_AF_ZCL_MANUFACTURER_SPECIFIC_OVERHEAD 5
01629
01634 // ${
01640 void emberAfPollCompleteHandler(EmberStatus status);
01641
01642
01648 void emberAfEzspPollCompleteHandler(EmberStatus status);
01652 // ${
01653

```

```

01661 EmberStatus emberAfFormNetwork(EmberNetworkParameters *parameters);
01662
01671 EmberStatus emberAfJoinNetwork(EmberNetworkParameters *parameters);
01672
01673 #ifdef DOXYGEN_SHOULD_SKIP_THIS
01674
01679 EmberStatus emberAfFindUnusedPanIdAndForm(void);
01685 EmberStatus emberAfStartSearchForJoinableNetwork(void);
01686 #else
01687     #define emberAfFindUnusedPanIdAndForm()
01688         emberAfFindUnusedPanIdAndFormCallback()
01689     #define emberAfStartSearchForJoinableNetwork()
01690         emberAfStartSearchForJoinableNetworkCallback()
01691 #endif
01692
01695 #if !defined(DOXYGEN_SHOULD_SKIP_THIS)
01696     #if defined(EMBER_TEST)
01697         #define EMBER_TEST_ASSERT(x) assert(x)
01698     #else
01699         #define EMBER_TEST_ASSERT(x)
01700     #endif
01701 #endif
01702
01703
01704 #endif // __AF_API__

```

9.9 att-storage.h File Reference

Defines

- #define ATTRIBUTE_MASK_WRITABLE
- #define ATTRIBUTE_MASK_TOKENIZE
- #define ATTRIBUTE_MASK_MIN_MAX
- #define ATTRIBUTE_MASK_MANUFACTURER_SPECIFIC
- #define ATTRIBUTE_MASK_EXTERNAL_STORAGE
- #define ATTRIBUTE_MASK_SINGLETON
- #define ATTRIBUTE_MASK_CLIENT
- #define CLUSTER_MASK_INIT_FUNCTION
- #define CLUSTER_MASK_ATTRIBUTE_CHANGED_FUNCTION
- #define CLUSTER_MASK_DEFAULT_RESPONSE_FUNCTION
- #define CLUSTER_MASK_MESSAGE_SENT_FUNCTION
- #define CLUSTER_MASK_MANUFACTURER_SPECIFIC_ATTRIBUTE_CHANGED_FUNCTION
- #define CLUSTER_MASK_SERVER
- #define CLUSTER_MASK_CLIENT

9.9.1 Define Documentation

9.9.1.1 #define ATTRIBUTE_MASK_WRITABLE

Definition at line 15 of file [att-storage.h](#).

9.9.1.2 #define ATTRIBUTE_MASK_TOKENIZE

Definition at line 17 of file [att-storage.h](#).

9.9.1.3 #define ATTRIBUTE_MASK_MIN_MAX

Definition at line 19 of file [att-storage.h](#).

9.9.1.4 #define ATTRIBUTE_MASK_MANUFACTURER_SPECIFIC

Definition at line 21 of file [att-storage.h](#).

9.9.1.5 #define ATTRIBUTE_MASK_EXTERNAL_STORAGE

Definition at line 23 of file [att-storage.h](#).

9.9.1.6 #define ATTRIBUTE_MASK_SINGLETON

Definition at line 25 of file [att-storage.h](#).

9.9.1.7 #define ATTRIBUTE_MASK_CLIENT

Definition at line 27 of file [att-storage.h](#).

9.9.1.8 #define CLUSTER_MASK_INIT_FUNCTION

Definition at line 32 of file [att-storage.h](#).

9.9.1.9 #define CLUSTER_MASK_ATTRIBUTE_CHANGED_FUNCTION

Definition at line 34 of file [att-storage.h](#).

9.9.1.10 #define CLUSTER_MASK_DEFAULT_RESPONSE_FUNCTION

Definition at line 36 of file [att-storage.h](#).

9.9.1.11 #define CLUSTER_MASK_MESSAGE_SENT_FUNCTION

Definition at line 38 of file [att-storage.h](#).

9.9.1.12 #define CLUSTER_MASK_MANUFACTURER_SPECIFIC_ATTRIBUTE_CHANGED_FUNCTION

Definition at line 40 of file [att-storage.h](#).

9.9.1.13 #define CLUSTER_MASK_SERVER

Definition at line 42 of file [att-storage.h](#).

9.9.1.14 #define CLUSTER_MASK_CLIENT

Definition at line 44 of file [att-storage.h](#).

9.10 att-storage.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __ATTRIBUTE_STORAGE_GEN__
00009 #define __ATTRIBUTE_STORAGE_GEN__
00010
00011
00012
00013 // Attribute masks modify how attributes are used by the framework
00014 // Attribute that has this mask is NOT read-only
00015 #define ATTRIBUTE_MASK_WRITABLE (0x01)
00016 // Attribute that has this mask is saved to a token
00017 #define ATTRIBUTE_MASK_TOKENIZE (0x02)
00018 // Attribute that has this mask has a min/max values
00019 #define ATTRIBUTE_MASK_MIN_MAX (0x04)
00020 // Manufacturer specific attribute
00021 #define ATTRIBUTE_MASK_MANUFACTURER_SPECIFIC (0x08)
00022 // Attribute deferred to external storage
00023 #define ATTRIBUTE_MASK_EXTERNAL_STORAGE (0x10)
00024 // Attribute is singleton
00025 #define ATTRIBUTE_MASK_SINGLETON (0x20)
00026 // Attribute is a client attribute
00027 #define ATTRIBUTE_MASK_CLIENT (0x40)
00028
00029
00030 // Cluster masks modify how clusters are used by the framework
00031 // Does this cluster have init function?
00032 #define CLUSTER_MASK_INIT_FUNCTION (0x01)
00033 // Does this cluster have attribute changed function?
00034 #define CLUSTER_MASK_ATTRIBUTE_CHANGED_FUNCTION (0x02)
00035 // Does this cluster have default response function?
00036 #define CLUSTER_MASK_DEFAULT_RESPONSE_FUNCTION (0x04)
00037 // Does this cluster have message sent function?
00038 #define CLUSTER_MASK_MESSAGE_SENT_FUNCTION (0x08)
00039 // Does this cluster have manufacturer specific attribute changed funciton?
00040 #define CLUSTER_MASK_MANUFACTURER_SPECIFIC_ATTRIBUTE_CHANGED_FUNCTION (0x10)
00041 // Cluster is a server
00042 #define CLUSTER_MASK_SERVER (0x40)
00043 // Cluster is a client
00044 #define CLUSTER_MASK_CLIENT (0x80)
00045
00046
00047 #endif // __ATTRIBUTE_STORAGE_GEN__

```

9.11 attribute-id.h File Reference

Defines

- [#define ZCL_VERSION_ATTRIBUTE_ID](#)
- [#define ZCL_APPLICATION_VERSION_ATTRIBUTE_ID](#)
- [#define ZCL_STACK_VERSION_ATTRIBUTE_ID](#)
- [#define ZCL_HW_VERSION_ATTRIBUTE_ID](#)
- [#define ZCL_MANUFACTURER_NAME_ATTRIBUTE_ID](#)
- [#define ZCL_MODEL_IDENTIFIER_ATTRIBUTE_ID](#)
- [#define ZCL_DATE_CODE_ATTRIBUTE_ID](#)
- [#define ZCL_POWER_SOURCE_ATTRIBUTE_ID](#)

- #define ZCL_LOCATION_DESCRIPTION_ATTRIBUTE_ID
- #define ZCL_PHYSICAL_ENVIRONMENT_ATTRIBUTE_ID
- #define ZCL_DEVICE_ENABLED_ATTRIBUTE_ID
- #define ZCL_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_DISABLE_LOCAL_CONFIG_ATTRIBUTE_ID
- #define ZCL_SW_BUILD_ID_ATTRIBUTE_ID
- #define ZCL_MAINS_VOLTAGE_ATTRIBUTE_ID
- #define ZCL_MAINS_FREQUENCY_ATTRIBUTE_ID
- #define ZCL_MAINS_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_MAINS_VOLTAGE_MIN_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_MAINS_VOLTAGE_MAX_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_MAINS_VOLTAGE_DWELL_TRIP_POINT_ATTRIBUTE_ID
- #define ZCL_BATTERY_VOLTAGE_ATTRIBUTE_ID
- #define ZCL_BATTERY_MANUFACTURER_ATTRIBUTE_ID
- #define ZCL_BATTERY_SIZE_ATTRIBUTE_ID
- #define ZCL_BATTERY_AHR_RATING_ATTRIBUTE_ID
- #define ZCL_BATTERY_QUANTITY_ATTRIBUTE_ID
- #define ZCL_BATTERY_RATED_VOLTAGE_ATTRIBUTE_ID
- #define ZCL_BATTERY_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_BATTERY_VOLTAGE_MIN_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_CURRENT_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_MIN_TEMP_EXPERIENCED_ATTRIBUTE_ID
- #define ZCL_MAX_TEMP_EXPERIENCED_ATTRIBUTE_ID
- #define ZCL_OVER_TEMP_TOTAL_DWELL_ATTRIBUTE_ID
- #define ZCL_DEVICE_TEMP_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_LOW_TEMP_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_HIGH_TEMP_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_LOW_TEMP_DWELL_TRIP_POINT_ATTRIBUTE_ID
- #define ZCL_HIGH_TEMP_DWELL_TRIP_POINT_ATTRIBUTE_ID
- #define ZCL_IDENTIFY_TIME_ATTRIBUTE_ID
- #define ZCL_GROUP_NAME_SUPPORT_ATTRIBUTE_ID
- #define ZCL_SCENE_COUNT_ATTRIBUTE_ID
- #define ZCL_CURRENT_SCENE_ATTRIBUTE_ID
- #define ZCL_CURRENT_GROUP_ATTRIBUTE_ID
- #define ZCL_SCENE_VALID_ATTRIBUTE_ID
- #define ZCL_SCENE_NAME_SUPPORT_ATTRIBUTE_ID
- #define ZCL_LAST_CONFIGURED_BY_ATTRIBUTE_ID
- #define ZCL_ON_OFF_ATTRIBUTE_ID
- #define ZCL_GLOBAL_SCENE_CONTROL_ATTRIBUTE_ID
- #define ZCL_ON_TIME_ATTRIBUTE_ID
- #define ZCL_OFF_WAIT_TIME_ATTRIBUTE_ID
- #define ZCL_SAMPLE_MFG_SPECIFIC_TRANSITION_TIME_ATTRIBUTE_ID
- #define ZCL_SWITCH_TYPE_ATTRIBUTE_ID
- #define ZCL_SWITCH_ACTIONS_ATTRIBUTE_ID
- #define ZCL_CURRENT_LEVEL_ATTRIBUTE_ID
- #define ZCL_LEVEL_CONTROL_REMAINING_TIME_ATTRIBUTE_ID
- #define ZCL_ON_OFF_TRANSITION_TIME_ATTRIBUTE_ID
- #define ZCL_ON_LEVEL_ATTRIBUTE_ID
- #define ZCL_ON_TRANSITION_TIME_ATTRIBUTE_ID
- #define ZCL_OFF_TRANSITION_TIME_ATTRIBUTE_ID

- #define ZCL_DEFAULT_MOVE_RATE_ATTRIBUTE_ID
- #define ZCL_ALARM_COUNT_ATTRIBUTE_ID
- #define ZCL_TIME_ATTRIBUTE_ID
- #define ZCL_TIME_STATUS_ATTRIBUTE_ID
- #define ZCL_TIME_ZONE_ATTRIBUTE_ID
- #define ZCL_DST_START_ATTRIBUTE_ID
- #define ZCL_DST_END_ATTRIBUTE_ID
- #define ZCL_DST_SHIFT_ATTRIBUTE_ID
- #define ZCL_STANDARD_TIME_ATTRIBUTE_ID
- #define ZCL_LOCAL_TIME_ATTRIBUTE_ID
- #define ZCL_LAST_SET_TIME_ATTRIBUTE_ID
- #define ZCL_VALID_UNTIL_TIME_ATTRIBUTE_ID
- #define ZCL_LOCATION_TYPE_ATTRIBUTE_ID
- #define ZCL_LOCATION_METHOD_ATTRIBUTE_ID
- #define ZCL_LOCATION_AGE_ATTRIBUTE_ID
- #define ZCL_QUALITY_MEASURE_ATTRIBUTE_ID
- #define ZCL_NUMBER_OF_DEVICES_ATTRIBUTE_ID
- #define ZCL_COORDINATE1_ATTRIBUTE_ID
- #define ZCL_COORDINATE2_ATTRIBUTE_ID
- #define ZCL_COORDINATE3_ATTRIBUTE_ID
- #define ZCL_POWER_ATTRIBUTE_ID
- #define ZCL_PATH_LOSS_EXPONENT_ATTRIBUTE_ID
- #define ZCL_REPORTING_PERIOD_ATTRIBUTE_ID
- #define ZCL_CALCULATION_PERIOD_ATTRIBUTE_ID
- #define ZCL_NUMBER_RSSI_MEASUREMENTS_ATTRIBUTE_ID
- #define ZCL_ACTIVE_TEXT_ATTRIBUTE_ID
- #define ZCL_DESCRIPTION_ATTRIBUTE_ID
- #define ZCL_INACTIVE_TEXT_ATTRIBUTE_ID
- #define ZCL_OUT_OF_SERVICE_ATTRIBUTE_ID
- #define ZCL_POLARITY_ATTRIBUTE_ID
- #define ZCL_PRESENT_VALUE_ATTRIBUTE_ID
- #define ZCL_RELIABILITY_ATTRIBUTE_ID
- #define ZCL_STATUS_FLAGS_ATTRIBUTE_ID
- #define ZCL_APPLICATION_TYPE_ATTRIBUTE_ID
- #define ZCL_SHORT_ADDRESS_ATTRIBUTE_ID
- #define ZCL_EXTENDED_PAN_ID_ATTRIBUTE_ID
- #define ZCL_PAN_ID_ATTRIBUTE_ID
- #define ZCL_CHANNEL_MASK_ATTRIBUTE_ID
- #define ZCL_PROTOCOL_VERSION_ATTRIBUTE_ID
- #define ZCL_STACK_PROFILE_ATTRIBUTE_ID
- #define ZCL_STARTUP_CONTROL_ATTRIBUTE_ID
- #define ZCL_TRUST_CENTER_ADDRESS_ATTRIBUTE_ID
- #define ZCL_TRUST_CENTER_MASTER_KEY_ATTRIBUTE_ID
- #define ZCL_NETWORK_KEY_ATTRIBUTE_ID
- #define ZCL_USE_INSECURE_JOIN_ATTRIBUTE_ID
- #define ZCL_PRECONFIGURED_LINK_KEY_ATTRIBUTE_ID
- #define ZCL_NETWORK_KEY_SEQUENCE_NUMBER_ATTRIBUTE_ID
- #define ZCL_NETWORK_KEY_TYPE_ATTRIBUTE_ID
- #define ZCL_NETWORK_MANAGER_ADDRESS_ATTRIBUTE_ID
- #define ZCL_SCAN_ATTEMPTS_ATTRIBUTE_ID

- #define ZCL_TIME_BETWEEN_SCANS_ATTRIBUTE_ID
- #define ZCL_REJOIN_INTERVAL_ATTRIBUTE_ID
- #define ZCL_MAX_REJOIN_INTERVAL_ATTRIBUTE_ID
- #define ZCL_INDIRECT_POLL_RATE_ATTRIBUTE_ID
- #define ZCL_PARENT_RETRY_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_CONCENTRATOR_FLAG_ATTRIBUTE_ID
- #define ZCL_CONCENTRATOR_RADIUS_ATTRIBUTE_ID
- #define ZCL_CONCENTRATOR_DISCOVERY_TIME_ATTRIBUTE_ID
- #define ZCL_SHADE_CONFIG_PHYSICAL_CLOSED_LIMIT_ATTRIBUTE_ID
- #define ZCL_SHADE_CONFIG_MOTOR_STEP_SIZE_ATTRIBUTE_ID
- #define ZCL_SHADE_CONFIG_STATUS_ATTRIBUTE_ID
- #define ZCL_SHADE_CONFIG_CLOSED_LIMIT_ATTRIBUTE_ID
- #define ZCL_SHADE_CONFIG_MODE_ATTRIBUTE_ID
- #define ZCL_MAX_PRESSURE_ATTRIBUTE_ID
- #define ZCL_MAX_SPEED_ATTRIBUTE_ID
- #define ZCL_MAX_FLOW_ATTRIBUTE_ID
- #define ZCL_MIN_CONST_PRESSURE_ATTRIBUTE_ID
- #define ZCL_MAX_CONST_PRESSURE_ATTRIBUTE_ID
- #define ZCL_MIN_COMP_PRESSURE_ATTRIBUTE_ID
- #define ZCL_MAX_COMP_PRESSURE_ATTRIBUTE_ID
- #define ZCL_MIN_CONST_SPEED_ATTRIBUTE_ID
- #define ZCL_MAX_CONST_SPEED_ATTRIBUTE_ID
- #define ZCL_MIN_CONST_FLOW_ATTRIBUTE_ID
- #define ZCL_MAX_CONST_FLOW_ATTRIBUTE_ID
- #define ZCL_MIN_CONST_TEMP_ATTRIBUTE_ID
- #define ZCL_MAX_CONST_TEMP_ATTRIBUTE_ID
- #define ZCL_PUMP_STATUS_ATTRIBUTE_ID
- #define ZCL_EFFECTIVE_OPERATION_MODE_ATTRIBUTE_ID
- #define ZCL_EFFECTIVE_CONTROL_MODE_ATTRIBUTE_ID
- #define ZCL_CAPACITY_ATTRIBUTE_ID
- #define ZCL_SPEED_ATTRIBUTE_ID
- #define ZCL_LIFETIME_RUNNING_HOURS_ATTRIBUTE_ID
- #define ZCL_PUMP_POWER_ATTRIBUTE_ID
- #define ZCL_LIFETIME_ENERGY_CONSUMED_ATTRIBUTE_ID
- #define ZCL_OPERATION_MODE_ATTRIBUTE_ID
- #define ZCL_CONTROL_MODE_ATTRIBUTE_ID
- #define ZCL_PUMP_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_LOCAL_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_OUTDOOR_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_THERMOSTAT_OCCUPANCY_ATTRIBUTE_ID
- #define ZCL_ABS_MIN_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_ABS_MAX_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_ABS_MIN_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_ABS_MAX_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_PI_COOLING_DEMAND_ATTRIBUTE_ID
- #define ZCL_PI_HEATING_DEMAND_ATTRIBUTE_ID
- #define ZCL_LOCAL_TEMPERATURE_CALIBRATION_ATTRIBUTE_ID
- #define ZCL_OCCUPIED_COOLING_SETPOINT_ATTRIBUTE_ID
- #define ZCL_OCCUPIED_HEATING_SETPOINT_ATTRIBUTE_ID
- #define ZCL_UNOCCUPIED_COOLING_SETPOINT_ATTRIBUTE_ID

- #define ZCL_UNOCCUPIED_HEATING_SETPOINT_ATTRIBUTE_ID
- #define ZCL_MIN_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_MAX_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_MIN_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_MAX_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID
- #define ZCL_MIN_SETPOINT_DEAD_BAND_ATTRIBUTE_ID
- #define ZCL_REMOTE_SENSING_ATTRIBUTE_ID
- #define ZCL_CONTROL_SEQUENCE_OF_OPERATION_ATTRIBUTE_ID
- #define ZCL_SYSTEM_MODE_ATTRIBUTE_ID
- #define ZCL_THERMOSTAT_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_THERMOSTAT_RUNNING_MODE_ATTRIBUTE_ID
- #define ZCL_START_OF_WEEK_ATTRIBUTE_ID
- #define ZCL_NUMBER_OF_WEEKLY_TRANSITIONS_ATTRIBUTE_ID
- #define ZCL_NUMBER_OF_DAILY_TRANSITIONS_ATTRIBUTE_ID
- #define ZCL_TEMPERATURE_SETPOINT_HOLD_ATTRIBUTE_ID
- #define ZCL_TEMPERATURE_SETPOINT_HOLD_DURATION_ATTRIBUTE_ID
- #define ZCL_THERMOSTAT_RUNNING_STATE_ATTRIBUTE_ID
- #define ZCL_FAN_CONTROL_FAN_MODE_ATTRIBUTE_ID
- #define ZCL_FAN_CONTROL_FAN_MODE_SEQUENCE_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_ATTRIBUTE_ID
- #define ZCL_DEHUMIDIFICATION_COOLING_ATTRIBUTE_ID
- #define ZCL_RH_DEHUMIDIFICATION_SETPOINT_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_MODE_ATTRIBUTE_ID
- #define ZCL_DEHUMIDIFICATION_LOCKOUT_ATTRIBUTE_ID
- #define ZCL_DEHUMIDIFICATION_HYSTeresis_ATTRIBUTE_ID
- #define ZCL_DEHUMIDIFICATION_MAX_COOL_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_DISPLAY_ATTRIBUTE_ID
- #define ZCL_TEMPERATURE_DISPLAY_MODE_ATTRIBUTE_ID
- #define ZCL_KEYPAD_LOCKOUT_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_CURRENT_HUE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_CURRENT_SATURATION_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_REMAINING_TIME_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_CURRENT_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_CURRENT_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_DRIFT_COMPENSATION_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COMPENSATION_TEXT_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_MODE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_NUMBER_OF_PRIMARIES_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_1_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_1_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_1_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_2_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_2_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_2_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_3_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_3_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_3_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_4_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_4_Y_ATTRIBUTE_ID

- #define ZCL_COLOR_CONTROL_PRIMARY_4_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_5_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_5_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_5_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_6_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_6_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_PRIMARY_6_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_WHITE_POINT_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_WHITE_POINT_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_R_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_R_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_R_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_G_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_G_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_G_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_B_X_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_B_Y_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_POINT_B_INTENSITY_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_ENHANCED_CURRENT_HUE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_ENHANCED_COLOR_MODE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_LOOP_ACTIVE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_LOOP_DIRECTION_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_LOOP_TIME_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_LOOP_START_ENHANCED_HUE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_LOOP_STORED_ENHANCED_HUE_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_CAPABILITIES_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_TEMP_PHYSICAL_MIN_ATTRIBUTE_ID
- #define ZCL_COLOR_CONTROL_COLOR_TEMP_PHYSICAL_MAX_ATTRIBUTE_ID
- #define ZCL_PHYSICAL_MIN_LEVEL_ATTRIBUTE_ID
- #define ZCL_PHYSICAL_MAX_LEVEL_ATTRIBUTE_ID
- #define ZCL_BALAST_STATUS_ATTRIBUTE_ID
- #define ZCL_MIN_LEVEL_ATTRIBUTE_ID
- #define ZCL_MAX_LEVEL_ATTRIBUTE_ID
- #define ZCL_POWER_ON_LEVEL_ATTRIBUTE_ID
- #define ZCL_POWER_ON_FADE_TIME_ATTRIBUTE_ID
- #define ZCL_INTRINSIC_BALAST_FACTOR_ATTRIBUTE_ID
- #define ZCL_BALAST_FACTOR_ADJUSTMENT_ATTRIBUTE_ID
- #define ZCL_LAMP_QUALITY_ATTRIBUTE_ID
- #define ZCL_LAMP_TYPE_ATTRIBUTE_ID
- #define ZCL_LAMP_MANUFACTURER_ATTRIBUTE_ID
- #define ZCL_LAMP_RATED_HOURS_ATTRIBUTE_ID
- #define ZCL_LAMP_BURN_HOURS_ATTRIBUTE_ID
- #define ZCL_LAMP_ALARM_MODE_ATTRIBUTE_ID
- #define ZCL_LAMP_BURN_HOURS_TRIP_POINT_ATTRIBUTE_ID
- #define ZCL_ILLUM_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_ILLUM_MIN_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_ILLUM_MAX_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_ILLUM_TOLERANCE_ATTRIBUTE_ID

- #define ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_ATTRIBUTE_ID
- #define ZCL_LEVEL_STATUS_ATTRIBUTE_ID
- #define ZCL_SENSING_LIGHT_SENSOR_TYPE_ATTRIBUTE_ID
- #define ZCL_ILLUMINANCE_TARGET_LEVEL_ATTRIBUTE_ID
- #define ZCL_TEMP_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_TEMP_MIN_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_TEMP_MAX_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_TEMP_TOLERANCE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_MIN_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_MAX_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_TOLERANCE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_SCALED_VALUE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_MIN_SCALED_VALUE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_MAX_SCALED_VALUE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_SCALED_TOLERANCE_ATTRIBUTE_ID
- #define ZCL_PRESSURE_SCALE_ATTRIBUTE_ID
- #define ZCL_FLOW_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_FLOW_MIN_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_FLOW_MAX_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_FLOW_TOLERANCE_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_MIN_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_MAX_MEASURED_VALUE_ATTRIBUTE_ID
- #define ZCL_RELATIVE_HUMIDITY_TOLERANCE_ATTRIBUTE_ID
- #define ZCL_OCCUPANCY_ATTRIBUTE_ID
- #define ZCL_OCCUPANCY_SENSOR_TYPE_ATTRIBUTE_ID
- #define ZCL_PIR_OCCUPIED_TO_UNOCCUPIED_DELAY_ATTRIBUTE_ID
- #define ZCL_PIR_UNOCCUPIED_TO_OCCUPIED_DELAY_ATTRIBUTE_ID
- #define ZCL_PIR_UNOCCUPIED_TO_OCCUPIED_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_ULTRASONIC_OCCUPIED_TO_UNOCCUPIED_DELAY_ATTRIBUTE_ID
- #define ZCL_ULTRASONIC_UNOCCUPIED_TO_OCCUPIED_DELAY_ATTRIBUTE_ID
- #define ZCL_ULTRASONIC_UNOCCUPIED_TO_OCCUPIED_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_ZONE_STATE_ATTRIBUTE_ID
- #define ZCL_ZONE_TYPE_ATTRIBUTE_ID
- #define ZCL_ZONE_STATUS_ATTRIBUTE_ID
- #define ZCL_IAS_CIE_ADDRESS_ATTRIBUTE_ID
- #define ZCL_MAX_DURATION_ATTRIBUTE_ID
- #define ZCL_LOCK_STATE_ATTRIBUTE_ID
- #define ZCL_LOCK_TYPE_ATTRIBUTE_ID
- #define ZCL_ACTUATOR_ENABLED_ATTRIBUTE_ID
- #define ZCL_DOOR_STATE_ATTRIBUTE_ID
- #define ZCL_DOOR_OPEN_EVENTS_ATTRIBUTE_ID
- #define ZCL_DOOR_CLOSED_EVENTS_ATTRIBUTE_ID
- #define ZCL_OPEN_PERIOD_ATTRIBUTE_ID
- #define ZCL_AUTO_RELOCK_TIMEOUT_ATTRIBUTE_ID
- #define ZCL_WRONG_CODE_ENTRY_LIMIT_ATTRIBUTE_ID
- #define ZCL_SHUT_DOWN_TIME_ATTRIBUTE_ID
- #define ZCL_BATTERY_LEVEL_ATTRIBUTE_ID

- #define ZCL_SILENT_MODE_ATTRIBUTE_ID
- #define ZCL_OPERATING_MODE_ATTRIBUTE_ID
- #define ZCL_LANGUAGE_ATTRIBUTE_ID
- #define ZCL_ALL_CODES_LOCKOUT_ATTRIBUTE_ID
- #define ZCL_ENABLE_LOGGING_ATTRIBUTE_ID
- #define ZCL_NUM_LOG_RECORDS_SUPPORTED_ATTRIBUTE_ID
- #define ZCL_NUM_USER_CODES_SUPPORTED_ATTRIBUTE_ID
- #define ZCL_NUM_SCHEDULE_SLOTS_PER_USER_ATTRIBUTE_ID
- #define ZCL_DOOR_LOCK_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_COVERING_TYPE_ATTRIBUTE_ID
- #define ZCL_LIMIT_LIFT_ATTRIBUTE_ID
- #define ZCL_LIMIT_TILT_ATTRIBUTE_ID
- #define ZCL_CURRENT_LIFT_ATTRIBUTE_ID
- #define ZCL_CURRENT_TILT_ATTRIBUTE_ID
- #define ZCL_NUMBER_LIFT_ATTRIBUTE_ID
- #define ZCL_NUMBER_TILT_ATTRIBUTE_ID
- #define ZCL_CONFIG_STATUS_ATTRIBUTE_ID
- #define ZCL_CURRENT_LIFT_PERCENTAGE_ATTRIBUTE_ID
- #define ZCL_CURRENT_TILT_PERCENTAGE_ATTRIBUTE_ID
- #define ZCL_OPEN_LIMIT_LIFT_ATTRIBUTE_ID
- #define ZCL_CLOSED_LIMIT_LIFT_ATTRIBUTE_ID
- #define ZCL_OPEN_LIMIT_TILT_ATTRIBUTE_ID
- #define ZCL_CLOSED_LIMIT_TILT_ATTRIBUTE_ID
- #define ZCL_VELOCITY_LIFT_ATTRIBUTE_ID
- #define ZCL_ACCELERATION_LIFT_ATTRIBUTE_ID
- #define ZCL_DECELERATION_LIFT_ATTRIBUTE_ID
- #define ZCL_MODE_ATTRIBUTE_ID
- #define ZCL_SETPOINTS_LIFT_ATTRIBUTE_ID
- #define ZCL_SETPOINTS_TILT_ATTRIBUTE_ID
- #define ZCL_TOTAL_PROFILE_NUM_ATTRIBUTE_ID
- #define ZCL_MULTIPLE_SCHEDULING_ATTRIBUTE_ID
- #define ZCL_ENERGY_FORMATTING_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_STATUS_ATTRIBUTE_ID
- #define ZCL_REMOTE_ENABLE_FLAGS_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_STATUS_2_ATTRIBUTE_ID
- #define ZCL_START_TIME_ATTRIBUTE_ID
- #define ZCL_FINISH_TIME_ATTRIBUTE_ID
- #define ZCL_REMAINING_TIME_ATTRIBUTE_ID
- #define ZCL_CHECK_IN_INTERVAL_ATTRIBUTE_ID
- #define ZCL_LONG_POLL_INTERVAL_ATTRIBUTE_ID
- #define ZCL_SHORT_POLL_INTERVAL_ATTRIBUTE_ID
- #define ZCL_FAST_POLL_TIMEOUT_ATTRIBUTE_ID
- #define ZCL_CHECK_IN_INTERVAL_MIN_ATTRIBUTE_ID
- #define ZCL_LONG_POLL_INTERVAL_MIN_ATTRIBUTE_ID
- #define ZCL_FAST_POLL_TIMEOUT_MAX_ATTRIBUTE_ID
- #define ZCL_BASIC_IDENTIFICATION_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_COMPANY_NAME_ATTRIBUTE_ID
- #define ZCL_COMPANY_ID_ATTRIBUTE_ID
- #define ZCL_BRAND_NAME_ATTRIBUTE_ID
- #define ZCL_BRAND_ID_ATTRIBUTE_ID

- #define ZCL_APPLIANCE_MODEL_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_PART_NUMBER_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_PRODUCT_REVISION_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_SOFTWARE_REVISION_ATTRIBUTE_ID
- #define ZCL_PRODUCT_TYPE_NAME_ATTRIBUTE_ID
- #define ZCL_PRODUCT_TYPE_ID_ATTRIBUTE_ID
- #define ZCL_CECEDE_SPECIFICATION_VERSION_ATTRIBUTE_ID
- #define ZCL_METER_COMPANY_NAME_ATTRIBUTE_ID
- #define ZCL_METER_TYPE_ID_ATTRIBUTE_ID
- #define ZCL_DATA_QUALITY_ID_ATTRIBUTE_ID
- #define ZCL_CUSTOMER_NAME_ATTRIBUTE_ID
- #define ZCL_METER_MODEL_ATTRIBUTE_ID
- #define ZCL_METER_PART_NUMBER_ATTRIBUTE_ID
- #define ZCL_METER_PRODUCT_REVISION_ATTRIBUTE_ID
- #define ZCL_METER_SOFTWARE_REVISION_ATTRIBUTE_ID
- #define ZCL.UtilityName_ATTRIBUTE_ID
- #define ZCL_POD_ATTRIBUTE_ID
- #define ZCL_AVAILABLE_POWER_ATTRIBUTE_ID
- #define ZCL_POWER_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_APPLIANCE_EVENT_LIST_ATTRIBUTE_ID
- #define ZCL_MAXIMUM_INCOMING_TRANSFER_SIZE_ATTRIBUTE_ID
- #define ZCL_MAXIMUM_OUTGOING_TRANSFER_SIZE_ATTRIBUTE_ID
- #define ZCL_PROTOCOL_ADDRESS_ATTRIBUTE_ID
- #define ZCL_UPGRADE_SERVER_ID_ATTRIBUTE_ID
- #define ZCL_FILE_OFFSET_ATTRIBUTE_ID
- #define ZCL_CURRENT_FILE_VERSION_ATTRIBUTE_ID
- #define ZCL_CURRENT_ZIGBEE_STACK_VERSION_ATTRIBUTE_ID
- #define ZCL_DOWNLOADED_FILE_VERSION_ATTRIBUTE_ID
- #define ZCL_DOWNLOADED_ZIGBEE_STACK_VERSION_ATTRIBUTE_ID
- #define ZCL_IMAGE_UPGRADE_STATUS_ATTRIBUTE_ID
- #define ZCL_MANUFACTURER_ID_ATTRIBUTE_ID
- #define ZCL_IMAGE_TYPE_ID_ATTRIBUTE_ID
- #define ZCL.UtilityEnrollmentGroup_ATTRIBUTE_ID
- #define ZCL_START_RANDOMIZE_MINUTES_ATTRIBUTE_ID
- #define ZCL_STOP_RANDOMIZE_MINUTES_ATTRIBUTE_ID
- #define ZCL_DEVICE_CLASS_VALUE_ATTRIBUTE_ID
- #define ZCL_CURRENT_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_MAX_DEMAND_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_MAX_DEMAND_RECEIVED_ATTRIBUTE_ID
- #define ZCL_DFT_SUMMATION_ATTRIBUTE_ID
- #define ZCL_DAILY_FREEZE_TIME_ATTRIBUTE_ID
- #define ZCL_POWER_FACTOR_ATTRIBUTE_ID
- #define ZCL_READING_SNAP_SHOT_TIME_ATTRIBUTE_ID
- #define ZCL_CURRENT_MAX_DEMAND_DELIVERED_TIME_ATTRIBUTE_ID
- #define ZCL_CURRENT_MAX_DEMAND_RECEIVED_TIME_ATTRIBUTE_ID
- #define ZCL_DEFAULT_UPDATE_PERIOD_ATTRIBUTE_ID
- #define ZCL_FAST_POLL_UPDATE_PERIOD_ATTRIBUTE_ID
- #define ZCL_CURRENT_BLOCK_PERIOD_CONSUMPTION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_DAILY_CONSUMPTION_TARGET_ATTRIBUTE_ID

- #define ZCL_CURRENT_BLOCK_ATTRIBUTE_ID
- #define ZCL_PROFILE_INTERVAL_PERIOD_ATTRIBUTE_ID
- #define ZCL_INTERVAL_READ_REPORTING_PERIOD_ATTRIBUTE_ID
- #define ZCL_PRESET_READING_TIME_ATTRIBUTE_ID
- #define ZCL_VOLUME_PER_REPORT_ATTRIBUTE_ID
- #define ZCL_FLOW_RESTRICTION_ATTRIBUTE_ID
- #define ZCL_SUPPLY_STATUS_ATTRIBUTE_ID
- #define ZCL_CURRENT_INLET_ENERGY_CARRIER_SUMMATION_ATTRIBUTE_ID
- #define ZCL_CURRENT_OUTLET_ENERGY_CARRIER_SUMMATION_ATTRIBUTE_ID
- #define ZCL_INLET_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_OUTLET_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_CONTROL_TEMPERATURE_ATTRIBUTE_ID
- #define ZCL_CURRENT_INLET_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_OUTLET_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER1_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER1_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER2_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER3_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER4_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER4_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER5_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER5_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER6_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER6_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER7_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER7_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER8_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER8_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER9_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER9_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER10_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER11_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER12_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER13_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER14_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_SUMMATION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_STATUS_ATTRIBUTE_ID
- #define ZCL_REMAINING_BATTERY_LIFE_ATTRIBUTE_ID
- #define ZCL_HOURS_IN_OPERATION_ATTRIBUTE_ID
- #define ZCL_HOURS_IN_FAULT_ATTRIBUTE_ID
- #define ZCL_UNIT_OF_MEASURE_ATTRIBUTE_ID
- #define ZCL_MULTIPLIER_ATTRIBUTE_ID

- #define ZCL_DIVISOR_ATTRIBUTE_ID
- #define ZCL_SUMMATION_FORMATTING_ATTRIBUTE_ID
- #define ZCL_DEMAND_FORMATTING_ATTRIBUTE_ID
- #define ZCL_HISTORICAL_CONSUMPTION_FORMATTING_ATTRIBUTE_ID
- #define ZCL_METERING_DEVICE_TYPE_ATTRIBUTE_ID
- #define ZCL_SITE_ID_ATTRIBUTE_ID
- #define ZCL_METER_SERIAL_NUMBER_ATTRIBUTE_ID
- #define ZCL_ENERGY_CARRIER_UNIT_OF_MEASURE_ATTRIBUTE_ID
- #define ZCL_ENERGY_CARRIER_SUMMATION_FORMATTING_ATTRIBUTE_ID
- #define ZCL_ENERGY_CARRIER_DEMAND_FORMATTING_ATTRIBUTE_ID
- #define ZCL_TEMPERATURE_UNIT_OF_MEASURE_ATTRIBUTE_ID
- #define ZCL_TEMPERATURE_FORMATTING_ATTRIBUTE_ID
- #define ZCL_INSTANTANEOUS_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_DAY_CONSUMPTION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_DAY_CONSUMPTION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_PREVIOUS_DAY_CONSUMPTION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_PREVIOUS_DAY_CONSUMPTION_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_START_TIME_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_START_TIME_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_VALUE_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_VALUE_RECEIVED_ATTRIBUTE_ID
- #define ZCL_CURRENT_DAY_MAX_PRESSURE_ATTRIBUTE_ID
- #define ZCL_CURRENT_DAY_MIN_PRESSURE_ATTRIBUTE_ID
- #define ZCL_PREVIOUS_DAY_MAX_PRESSURE_ATTRIBUTE_ID
- #define ZCL_PREVIOUS_DAY_MIN_PRESSURE_ATTRIBUTE_ID
- #define ZCL_CURRENT_DAY_MAX_DEMAND_ATTRIBUTE_ID
- #define ZCL_PREVIOUS_DAY_MAX_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_MONTH_MAX_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_YEAR_MAX_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_DAY_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_PREVIOUS_DAY_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_MONTH_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_MONTH_MIN_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_YEAR_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_CURRENT_YEAR_MIN_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID
- #define ZCL_MAX_NUMBER_OF_PERIODS_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_DEMAND_DELIVERED_ATTRIBUTE_ID
- #define ZCL_DEMAND_LIMIT_ATTRIBUTE_ID
- #define ZCL_DEMAND_INTEGRATION_PERIOD_ATTRIBUTE_ID
- #define ZCL_NUMBER_OF_DEMAND_SUBINTERVALS_ATTRIBUTE_ID
- #define ZCL_CURRENT_NO_TIER_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_NO_TIER_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_NO_TIER_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_NO_TIER_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_NO_TIER_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_NO_TIER_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

- #define ZCL_CURRENT_TIER15_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_CURRENT_TIER15_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID
- #define ZCL_GENERIC_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_ELECTRICITY_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_GENERIC_FLOW_PRESSURE_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_WATER_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_HEAT_AND_COOLING_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_GAS_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID
- #define ZCL_MIRROR_IEEE_ADDRESS_ATTRIBUTE_ID
- #define ZCL_MIRROR_SYNC_PERIOD_ATTRIBUTE_ID
- #define ZCL_MIRROR_LAST_SYNC_TIME_ATTRIBUTE_ID
- #define ZCL_PRICE_INCREASE_RANDOMIZE_MINUTES_ATTRIBUTE_ID
- #define ZCL_PRICE_DECREASE_RANDOMIZE_MINUTES_ATTRIBUTE_ID
- #define ZCL_COMMODITY_TYPE_CLIENT_ATTRIBUTE_ID
- #define ZCL_TIER1_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER2_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER3_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER4_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER5_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER6_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER7_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER8_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER9_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER10_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER11_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER12_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER13_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER14_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_TIER15_PRICE_LABEL_ATTRIBUTE_ID
- #define ZCL_BLOCK1_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK2_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK3_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK4_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK5_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK6_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK7_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK8_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK9_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK10_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK11_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK12_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK13_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK14_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_BLOCK15_THRESHOLD_ATTRIBUTE_ID
- #define ZCL_START_OF_BLOCK_PERIOD_ATTRIBUTE_ID
- #define ZCL_BLOCK_PERIOD_DURATION_MINUTES_ATTRIBUTE_ID

- #define ZCL_THRESHOLD_MULTIPLIER_ATTRIBUTE_ID
- #define ZCL_THRESHOLD_DIVISOR_ATTRIBUTE_ID
- #define ZCL_COMMODITY_TYPE_SERVER_ATTRIBUTE_ID
- #define ZCL_STANDING_CHARGE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_NO_TIER_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER1_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK14_PRICE_ATTRIBUTE_ID

- #define ZCL_TIER2_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER2_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER3_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER4_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK6_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER5_BLOCK12_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER5_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER5_BLOCK16_PRICE_ATTRIBUTE_ID

- #define ZCL_TIER6_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER6_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER6_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER6_BLOCK4_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER6_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER6_BLOCK13_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER6_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER6_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER7_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER7_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER7_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER7_BLOCK4_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER7_BLOCK8_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER7_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER8_BLOCK1_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER8_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER8_BLOCK10_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER8_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER8_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK2_PRICE_ATTRIBUTE_ID

- #define ZCL_TIER9_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK6_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER9_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK12_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER9_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER9_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK5_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER10_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER10_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK6_PRICE_ATTRIBUTE_ID
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- #define ZCL_TIER11_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER11_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK4_PRICE_ATTRIBUTE_ID

- #define ZCL_TIER12_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER12_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER13_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK6_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER14_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK1_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK2_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK3_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK4_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK5_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK6_PRICE_ATTRIBUTE_ID

- #define ZCL_TIER15_BLOCK7_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK8_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK9_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK10_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK11_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK12_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK13_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK14_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK15_PRICE_ATTRIBUTE_ID
- #define ZCL_TIER15_BLOCK16_PRICE_ATTRIBUTE_ID
- #define ZCL_CLOSE_TUNNEL_TIMEOUT_ATTRIBUTE_ID
- #define ZCL_PAYMENT_CONTROL_ATTRIBUTE_ID
- #define ZCL_CREDIT_REMAINING_ATTRIBUTE_ID
- #define ZCL_EMERGENCY_CREDIT_REMAINING_ATTRIBUTE_ID
- #define ZCL_CREDIT_STATUS_ATTRIBUTE_ID
- #define ZCL_TOP_UP_DATE_TIME_1_ATTRIBUTE_ID
- #define ZCL_TOP_UP_AMOUNT_1_ATTRIBUTE_ID
- #define ZCL_ORIGINATING_DEVICE_1_ATTRIBUTE_ID
- #define ZCL_TOP_UP_DATE_TIME_2_ATTRIBUTE_ID
- #define ZCL_TOP_UP_AMOUNT_2_ATTRIBUTE_ID
- #define ZCL_ORIGINATING_DEVICE_2_ATTRIBUTE_ID
- #define ZCL_TOP_UP_DATE_TIME_3_ATTRIBUTE_ID
- #define ZCL_TOP_UP_AMOUNT_3_ATTRIBUTE_ID
- #define ZCL_ORIGINATING_DEVICE_3_ATTRIBUTE_ID
- #define ZCL_TOP_UP_DATE_TIME_4_ATTRIBUTE_ID
- #define ZCL_TOP_UP_AMOUNT_4_ATTRIBUTE_ID
- #define ZCL_ORIGINATING_DEVICE_4_ATTRIBUTE_ID
- #define ZCL_TOP_UP_DATE_TIME_5_ATTRIBUTE_ID
- #define ZCL_TOP_UP_AMOUNT_5_ATTRIBUTE_ID
- #define ZCL_ORIGINATING_DEVICE_5_ATTRIBUTE_ID
- #define ZCL_FUEL_DEBT_REMAINING_ATTRIBUTE_ID
- #define ZCL_FUEL_DEBT_RECOVERY_RATE_ATTRIBUTE_ID
- #define ZCL_FUEL_DEBT_RECOVERY_PERIOD_ATTRIBUTE_ID
- #define ZCL_NON_FUEL_DEBT_REMAINING_ATTRIBUTE_ID
- #define ZCL_NON_FUEL_DEBT_RECOVERY_RATE_ATTRIBUTE_ID
- #define ZCL_NON_FUEL_DEBT_RECOVERY_PERIOD_ATTRIBUTE_ID
- #define ZCL_PROPOSED_CHANGE_PROVIDER_ID_ATTRIBUTE_ID
- #define ZCL_PROPOSED_CHANGE_IMPLEMENTATION_TIME_ATTRIBUTE_ID
- #define ZCL_PROPOSED_CHANGE_SUPPLY_STATUS_ATTRIBUTE_ID
- #define ZCL_DELAYED_SUPPLY_INTERRUPT_VALUE_REMAINING_ATTRIBUTE_ID
- #define ZCL_DELAYED_SUPPLY_INTERRUPT_VALUE_TYPE_ATTRIBUTE_ID
- #define ZCL_KEY_ESTABLISHMENT_SUITE_CLIENT_ATTRIBUTE_ID
- #define ZCL_KEY_ESTABLISHMENT_SUITE_SERVER_ATTRIBUTE_ID
- #define ZCL_ATTRIBUTE_ONE_ATTRIBUTE_ID

9.11.1 Define Documentation

9.11.1.1 #define ZCL_VERSION_ATTRIBUTE_ID

Definition at line 16 of file attribute-id.h.

9.11.1.2 #define ZCL_APPLICATION_VERSION_ATTRIBUTE_ID

Definition at line 17 of file [attribute-id.h](#).

9.11.1.3 #define ZCL_STACK_VERSION_ATTRIBUTE_ID

Definition at line 18 of file [attribute-id.h](#).

9.11.1.4 #define ZCL_HW_VERSION_ATTRIBUTE_ID

Definition at line 19 of file [attribute-id.h](#).

9.11.1.5 #define ZCL_MANUFACTURER_NAME_ATTRIBUTE_ID

Definition at line 20 of file [attribute-id.h](#).

9.11.1.6 #define ZCL_MODEL_IDENTIFIER_ATTRIBUTE_ID

Definition at line 21 of file [attribute-id.h](#).

9.11.1.7 #define ZCL_DATE_CODE_ATTRIBUTE_ID

Definition at line 22 of file [attribute-id.h](#).

9.11.1.8 #define ZCL_POWER_SOURCE_ATTRIBUTE_ID

Definition at line 23 of file [attribute-id.h](#).

9.11.1.9 #define ZCL_LOCATION_DESCRIPTION_ATTRIBUTE_ID

Definition at line 24 of file [attribute-id.h](#).

9.11.1.10 #define ZCL_PHYSICAL_ENVIRONMENT_ATTRIBUTE_ID

Definition at line 25 of file [attribute-id.h](#).

9.11.1.11 #define ZCL_DEVICE_ENABLED_ATTRIBUTE_ID

Definition at line 26 of file [attribute-id.h](#).

9.11.1.12 #define ZCL_ALARM_MASK_ATTRIBUTE_ID

Definition at line 27 of file [attribute-id.h](#).

9.11.1.13 #define ZCL_DISABLE_LOCAL_CONFIG_ATTRIBUTE_ID

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9.11.1.14 #define ZCL_SW_BUILD_ID_ATTRIBUTE_ID

Definition at line 29 of file [attribute-id.h](#).

9.11.1.15 #define ZCL_MAINS_VOLTAGE_ATTRIBUTE_ID

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9.11.1.16 #define ZCL_MAINS_FREQUENCY_ATTRIBUTE_ID

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9.11.1.17 #define ZCL_MAINS_ALARM_MASK_ATTRIBUTE_ID

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9.11.1.18 #define ZCL_MAINS_VOLTAGE_MIN_THRESHOLD_ATTRIBUTE_ID

Definition at line 39 of file [attribute-id.h](#).

9.11.1.19 #define ZCL_MAINS_VOLTAGE_MAX_THRESHOLD_ATTRIBUTE_ID

Definition at line 40 of file [attribute-id.h](#).

9.11.1.20 #define ZCL_MAINS_VOLTAGE_DWELL_TRIP_POINT_ATTRIBUTE_ID

Definition at line 41 of file [attribute-id.h](#).

9.11.1.21 #define ZCL_BATTERY_VOLTAGE_ATTRIBUTE_ID

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9.11.1.22 #define ZCL_BATTERY_MANUFACTURER_ATTRIBUTE_ID

Definition at line 43 of file [attribute-id.h](#).

9.11.1.23 #define ZCL_BATTERY_SIZE_ATTRIBUTE_ID

Definition at line 44 of file [attribute-id.h](#).

9.11.1.24 #define ZCL_BATTERY_AHR_RATING_ATTRIBUTE_ID

Definition at line 45 of file [attribute-id.h](#).

9.11.1.25 #define ZCL_BATTERY_QUANTITY_ATTRIBUTE_ID

Definition at line 46 of file [attribute-id.h](#).

9.11.1.26 #define ZCL_BATTERY_RATED_VOLTAGE_ATTRIBUTE_ID

Definition at line 47 of file [attribute-id.h](#).

9.11.1.27 #define ZCL_BATTERY_ALARM_MASK_ATTRIBUTE_ID

Definition at line 48 of file [attribute-id.h](#).

9.11.1.28 #define ZCL_BATTERY_VOLTAGE_MIN_THRESHOLD_ATTRIBUTE_ID

Definition at line 49 of file [attribute-id.h](#).

9.11.1.29 #define ZCL_CURRENT_TEMPERATURE_ATTRIBUTE_ID

Definition at line 56 of file [attribute-id.h](#).

9.11.1.30 #define ZCL_MIN_TEMP_EXPERIENCED_ATTRIBUTE_ID

Definition at line 57 of file [attribute-id.h](#).

9.11.1.31 #define ZCL_MAX_TEMP_EXPERIENCED_ATTRIBUTE_ID

Definition at line 58 of file [attribute-id.h](#).

9.11.1.32 #define ZCL_OVER_TEMP_TOTAL_DWELL_ATTRIBUTE_ID

Definition at line 59 of file [attribute-id.h](#).

9.11.1.33 #define ZCL_DEVICE_TEMP_ALARM_MASK_ATTRIBUTE_ID

Definition at line 60 of file [attribute-id.h](#).

9.11.1.34 #define ZCL_LOW_TEMP_THRESHOLD_ATTRIBUTE_ID

Definition at line 61 of file [attribute-id.h](#).

9.11.1.35 #define ZCL_HIGH_TEMP_THRESHOLD_ATTRIBUTE_ID

Definition at line 62 of file [attribute-id.h](#).

9.11.1.36 #define ZCL_LOW_TEMP_DWELL_TRIP_POINT_ATTRIBUTE_ID

Definition at line 63 of file [attribute-id.h](#).

9.11.1.37 #define ZCL_HIGH_TEMP_DWELL_TRIP_POINT_ATTRIBUTE_ID

Definition at line 64 of file [attribute-id.h](#).

9.11.1.38 #define ZCL_IDENTIFY_TIME_ATTRIBUTE_ID

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9.11.1.39 #define ZCL_GROUP_NAME_SUPPORT_ATTRIBUTE_ID

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9.11.1.40 #define ZCL_SCENE_COUNT_ATTRIBUTE_ID

Definition at line 85 of file [attribute-id.h](#).

9.11.1.41 #define ZCL_CURRENT_SCENE_ATTRIBUTE_ID

Definition at line 86 of file [attribute-id.h](#).

9.11.1.42 #define ZCL_CURRENT_GROUP_ATTRIBUTE_ID

Definition at line 87 of file [attribute-id.h](#).

9.11.1.43 #define ZCL_SCENE_VALID_ATTRIBUTE_ID

Definition at line 88 of file [attribute-id.h](#).

9.11.1.44 #define ZCL_SCENE_NAME_SUPPORT_ATTRIBUTE_ID

Definition at line 89 of file [attribute-id.h](#).

9.11.1.45 #define ZCL_LAST_CONFIGURED_BY_ATTRIBUTE_ID

Definition at line 90 of file [attribute-id.h](#).

9.11.1.46 #define ZCL_ON_OFF_ATTRIBUTE_ID

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9.11.1.47 #define ZCL_GLOBAL_SCENE_CONTROL_ATTRIBUTE_ID

Definition at line 98 of file [attribute-id.h](#).

9.11.1.48 #define ZCL_ON_TIME_ATTRIBUTE_ID

Definition at line 99 of file [attribute-id.h](#).

9.11.1.49 #define ZCL_OFF_WAIT_TIME_ATTRIBUTE_ID

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9.11.1.50 #define ZCL_SAMPLE_MFG_SPECIFIC_TRANSITION_TIME_ATTRIBUTE_ID

Definition at line 101 of file [attribute-id.h](#).

9.11.1.51 #define ZCL_SWITCH_TYPE_ATTRIBUTE_ID

Definition at line 108 of file [attribute-id.h](#).

9.11.1.52 #define ZCL_SWITCH_ACTIONS_ATTRIBUTE_ID

Definition at line 109 of file [attribute-id.h](#).

9.11.1.53 #define ZCL_CURRENT_LEVEL_ATTRIBUTE_ID

Definition at line 116 of file [attribute-id.h](#).

9.11.1.54 #define ZCL_LEVEL_CONTROL_REMAINING_TIME_ATTRIBUTE_ID

Definition at line 117 of file [attribute-id.h](#).

9.11.1.55 #define ZCL_ON_OFF_TRANSITION_TIME_ATTRIBUTE_ID

Definition at line 118 of file [attribute-id.h](#).

9.11.1.56 #define ZCL_ON_LEVEL_ATTRIBUTE_ID

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9.11.1.57 #define ZCL_ON_TRANSITION_TIME_ATTRIBUTE_ID

Definition at line 120 of file [attribute-id.h](#).

9.11.1.58 #define ZCL_OFF_TRANSITION_TIME_ATTRIBUTE_ID

Definition at line 121 of file [attribute-id.h](#).

9.11.1.59 #define ZCL_DEFAULT_MOVE_RATE_ATTRIBUTE_ID

Definition at line 122 of file [attribute-id.h](#).

9.11.1.60 #define ZCL_ALARM_COUNT_ATTRIBUTE_ID

Definition at line 129 of file [attribute-id.h](#).

9.11.1.61 #define ZCL_TIME_ATTRIBUTE_ID

Definition at line 136 of file [attribute-id.h](#).

9.11.1.62 #define ZCL_TIME_STATUS_ATTRIBUTE_ID

Definition at line 137 of file [attribute-id.h](#).

9.11.1.63 #define ZCL_TIME_ZONE_ATTRIBUTE_ID

Definition at line 138 of file [attribute-id.h](#).

9.11.1.64 #define ZCL_DST_START_ATTRIBUTE_ID

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9.11.1.65 #define ZCL_DST_END_ATTRIBUTE_ID

Definition at line 140 of file [attribute-id.h](#).

9.11.1.66 #define ZCL_DST_SHIFT_ATTRIBUTE_ID

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9.11.1.421 #define ZCL_CURRENT_TIER1_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [688](#) of file [attribute-id.h](#).

9.11.1.422 #define ZCL_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [689](#) of file [attribute-id.h](#).

9.11.1.423 #define ZCL_CURRENT_TIER2_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [690](#) of file [attribute-id.h](#).

9.11.1.424 #define ZCL_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [691](#) of file [attribute-id.h](#).

9.11.1.425 #define ZCL_CURRENT_TIER3_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [692](#) of file [attribute-id.h](#).

9.11.1.426 #define ZCL_CURRENT_TIER4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [693](#) of file [attribute-id.h](#).

9.11.1.427 #define ZCL_CURRENT_TIER4_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [694](#) of file [attribute-id.h](#).

9.11.1.428 #define ZCL_CURRENT_TIER5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [695](#) of file [attribute-id.h](#).

9.11.1.429 #define ZCL_CURRENT_TIER5_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [696](#) of file [attribute-id.h](#).

9.11.1.430 #define ZCL_CURRENT_TIER6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [697](#) of file [attribute-id.h](#).

9.11.1.431 #define ZCL_CURRENT_TIER6_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [698](#) of file [attribute-id.h](#).

9.11.1.432 #define ZCL_CURRENT_TIER7_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [699](#) of file [attribute-id.h](#).

9.11.1.433 #define ZCL_CURRENT_TIER7_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [700](#) of file [attribute-id.h](#).

9.11.1.434 #define ZCL_CURRENT_TIER8_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [701](#) of file [attribute-id.h](#).

9.11.1.435 #define ZCL_CURRENT_TIER8_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [702](#) of file [attribute-id.h](#).

9.11.1.436 #define ZCL_CURRENT_TIER9_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [703](#) of file [attribute-id.h](#).

9.11.1.437 #define ZCL_CURRENT_TIER9_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [704](#) of file [attribute-id.h](#).

9.11.1.438 #define ZCL_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [705](#) of file [attribute-id.h](#).

9.11.1.439 #define ZCL_CURRENT_TIER10_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [706](#) of file [attribute-id.h](#).

9.11.1.440 #define ZCL_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [707](#) of file [attribute-id.h](#).

9.11.1.441 #define ZCL_CURRENT_TIER11_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [708](#) of file [attribute-id.h](#).

9.11.1.442 #define ZCL_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line [709](#) of file [attribute-id.h](#).

9.11.1.443 #define ZCL_CURRENT_TIER12_SUMMATION_RECEIVED_ATTRIBUTE_ID

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9.11.1.444 #define ZCL_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.445 #define ZCL_CURRENT_TIER13_SUMMATION_RECEIVED_ATTRIBUTE_ID

Definition at line [712](#) of file [attribute-id.h](#).

9.11.1.446 #define ZCL_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.447 #define ZCL_CURRENT_TIER14_SUMMATION_RECEIVED_ATTRIBUTE_ID

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9.11.1.448 #define ZCL_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.449 #define ZCL_CURRENT_TIER15_SUMMATION_RECEIVED_ATTRIBUTE_ID

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9.11.1.450 #define ZCL_STATUS_ATTRIBUTE_ID

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9.11.1.451 #define ZCL_REMAINING_BATTERY_LIFE_ATTRIBUTE_ID

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9.11.1.452 #define ZCL_HOURS_IN_OPERATION_ATTRIBUTE_ID

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9.11.1.453 #define ZCL_HOURS_IN_FAULT_ATTRIBUTE_ID

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9.11.1.454 #define ZCL_UNIT_OF_MEASURE_ATTRIBUTE_ID

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9.11.1.455 #define ZCL_MULTIPLIER_ATTRIBUTE_ID

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9.11.1.456 #define ZCL_DIVISOR_ATTRIBUTE_ID

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9.11.1.457 #define ZCL_SUMMATION_FORMATTING_ATTRIBUTE_ID

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9.11.1.458 #define ZCL_DEMAND_FORMATTING_ATTRIBUTE_ID

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9.11.1.459 #define ZCL_HISTORICAL_CONSUMPTION_FORMATTING_ATTRIBUTE_ID

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9.11.1.460 #define ZCL_METERING_DEVICE_TYPE_ATTRIBUTE_ID

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9.11.1.461 #define ZCL_SITE_ID_ATTRIBUTE_ID

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9.11.1.462 #define ZCL_METER_SERIAL_NUMBER_ATTRIBUTE_ID

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9.11.1.463 #define ZCL_ENERGY_CARRIER_UNIT_OF_MEASURE_ATTRIBUTE_ID

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9.11.1.464 #define ZCL_ENERGY_CARRIER_SUMMATION_FORMATTING_ATTRIBUTE_ID

Definition at line [731](#) of file [attribute-id.h](#).

9.11.1.465 #define ZCL_ENERGY_CARRIER_DEMAND_FORMATTING_ATTRIBUTE_ID

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9.11.1.466 #define ZCL_TEMPERATURE_UNIT_OF_MEASURE_ATTRIBUTE_ID

Definition at line [733](#) of file [attribute-id.h](#).

9.11.1.467 #define ZCL_TEMPERATURE_FORMATTING_ATTRIBUTE_ID

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9.11.1.468 #define ZCL_INSTANTANEOUS_DEMAND_ATTRIBUTE_ID

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9.11.1.469 #define ZCL_CURRENT_DAY_CONSUMPTION_DELIVERED_ATTRIBUTE_ID

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9.11.1.470 #define ZCL_CURRENT_DAY_CONSUMPTION_RECEIVED_ATTRIBUTE_ID

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9.11.1.471 #define ZCL_PREVIOUS_DAY_CONSUMPTION_DELIVERED_ATTRIBUTE_ID

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9.11.1.472 #define ZCL_PREVIOUS_DAY_CONSUMPTION_RECEIVED_ATTRIBUTE_ID

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9.11.1.473 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_START_TIME_DELIVERED_ATTRIBUTE_ID

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9.11.1.474 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_START_TIME_RECEIVED_ATTRIBUTE_ID

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9.11.1.475 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_VALUE_DELIVERED_ATTRIBUTE_ID

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9.11.1.476 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_VALUE_RECEIVED_ATTRIBUTE_ID

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9.11.1.477 #define ZCL_CURRENT_DAY_MAX_PRESSURE_ATTRIBUTE_ID

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9.11.1.478 #define ZCL_CURRENT_DAY_MIN_PRESSURE_ATTRIBUTE_ID

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9.11.1.479 #define ZCL_PREVIOUS_DAY_MAX_PRESSURE_ATTRIBUTE_ID

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9.11.1.480 #define ZCL_PREVIOUS_DAY_MIN_PRESSURE_ATTRIBUTE_ID

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9.11.1.481 #define ZCL_CURRENT_DAY_MAX_DEMAND_ATTRIBUTE_ID

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9.11.1.482 #define ZCL_PREVIOUS_DAY_MAX_DEMAND_ATTRIBUTE_ID

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9.11.1.483 #define ZCL_CURRENT_MONTH_MAX_DEMAND_ATTRIBUTE_ID

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9.11.1.484 #define ZCL_CURRENT_YEAR_MAX_DEMAND_ATTRIBUTE_ID

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9.11.1.485 #define ZCL_CURRENT_DAY_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID

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9.11.1.486 #define ZCL_PREVIOUS_DAY_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID

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9.11.1.487 #define ZCL_CURRENT_MONTH_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID

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9.11.1.488 #define ZCL_CURRENT_MONTH_MIN_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID

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9.11.1.489 #define ZCL_CURRENT_YEAR_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID

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9.11.1.490 #define ZCL_CURRENT_YEAR_MIN_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID

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9.11.1.491 #define ZCL_MAX_NUMBER_OF_PERIODS_DELIVERED_ATTRIBUTE_ID

Definition at line [758](#) of file [attribute-id.h](#).

9.11.1.492 #define ZCL_CURRENT_DEMAND_DELIVERED_ATTRIBUTE_ID

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9.11.1.493 #define ZCL_DEMAND_LIMIT_ATTRIBUTE_ID

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9.11.1.494 #define ZCL_DEMAND_INTEGRATION_PERIOD_ATTRIBUTE_ID

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9.11.1.495 #define ZCL_NUMBER_OF_DEMAND_SUBINTERVALS_ATTRIBUTE_ID

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9.11.1.496 **#define ZCL_CURRENT_NO_TIER_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.497 **#define ZCL_CURRENT_NO_TIER_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.498 **#define ZCL_CURRENT_NO_TIER_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.499 **#define ZCL_CURRENT_NO_TIER_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [766](#) of file [attribute-id.h](#).

9.11.1.500 **#define ZCL_CURRENT_NO_TIER_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [767](#) of file [attribute-id.h](#).

9.11.1.501 **#define ZCL_CURRENT_NO_TIER_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [768](#) of file [attribute-id.h](#).

9.11.1.502 **#define ZCL_CURRENT_NO_TIER_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.503 **#define ZCL_CURRENT_NO_TIER_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.504 **#define ZCL_CURRENT_NO_TIER_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.505 **#define ZCL_CURRENT_NO_TIER_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.506 **#define ZCL_CURRENT_NO_TIER_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.507 **#define ZCL_CURRENT_NO_TIER_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.508 **#define ZCL_CURRENT_NO_TIER_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [775](#) of file [attribute-id.h](#).

9.11.1.509 **#define ZCL_CURRENT_NO_TIER_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [776](#) of file [attribute-id.h](#).

9.11.1.510 **#define ZCL_CURRENT_NO_TIER_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [777](#) of file [attribute-id.h](#).

9.11.1.511 **#define ZCL_CURRENT_NO_TIER_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line [778](#) of file [attribute-id.h](#).

9.11.1.512 **#define ZCL_CURRENT_TIER1_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.513 **#define ZCL_CURRENT_TIER1_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID**

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9.11.1.514 #define ZCL_CURRENT_TIER1_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.515 #define ZCL_CURRENT_TIER1_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.516 #define ZCL_CURRENT_TIER1_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.517 #define ZCL_CURRENT_TIER1_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.518 #define ZCL_CURRENT_TIER1_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.519 #define ZCL_CURRENT_TIER1_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.520 #define ZCL_CURRENT_TIER1_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.521 #define ZCL_CURRENT_TIER1_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.522 #define ZCL_CURRENT_TIER1_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.523 #define ZCL_CURRENT_TIER1_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.524 #define ZCL_CURRENT_TIER1_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.525 #define ZCL_CURRENT_TIER1_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.526 #define ZCL_CURRENT_TIER1_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.527 #define ZCL_CURRENT_TIER1_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.528 #define ZCL_CURRENT_TIER2_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.529 #define ZCL_CURRENT_TIER2_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.530 #define ZCL_CURRENT_TIER2_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.531 #define ZCL_CURRENT_TIER2_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.532 #define ZCL_CURRENT_TIER2_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.533 #define ZCL_CURRENT_TIER2_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.534 #define ZCL_CURRENT_TIER2_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.535 #define ZCL_CURRENT_TIER2_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.536 #define ZCL_CURRENT_TIER2_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.537 #define ZCL_CURRENT_TIER2_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.538 #define ZCL_CURRENT_TIER2_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.539 #define ZCL_CURRENT_TIER2_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.540 #define ZCL_CURRENT_TIER2_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.541 #define ZCL_CURRENT_TIER2_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.542 #define ZCL_CURRENT_TIER2_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.543 #define ZCL_CURRENT_TIER2_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.544 #define ZCL_CURRENT_TIER3_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.545 #define ZCL_CURRENT_TIER3_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.546 #define ZCL_CURRENT_TIER3_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.547 #define ZCL_CURRENT_TIER3_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.548 #define ZCL_CURRENT_TIER3_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.549 #define ZCL_CURRENT_TIER3_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

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```
9.11.1.550 #define ZCL_CURRENT_TIER3_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID
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Definition at line 817 of file [attribute-id.h](#).

```
9.11.1.551 #define ZCL_CURRENT_TIER3_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 818 of file [attribute-id.h](#).

```
9.11.1.552 #define ZCL_CURRENT_TIER3_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 819 of file [attribute-id.h](#).

```
9.11.1.553 #define ZCL_CURRENT_TIER3_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 820 of file [attribute-id.h](#).

```
9.11.1.554 #define ZCL_CURRENT_TIER3_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 821 of file [attribute-id.h](#).

```
9.11.1.555 #define ZCL_CURRENT_TIER3_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 822 of file [attribute-id.h](#).

```
9.11.1.556 #define ZCL_CURRENT_TIER3_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 823 of file [attribute-id.h](#).

```
9.11.1.557 #define ZCL_CURRENT_TIER3_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 824 of file [attribute-id.h](#).

```
9.11.1.558 #define ZCL_CURRENT_TIER3_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 825 of file [attribute-id.h](#).

9.11.1.559 #define ZCL_CURRENT_TIER3_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.560 #define ZCL_CURRENT_TIER4_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.561 #define ZCL_CURRENT_TIER4_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.562 #define ZCL_CURRENT_TIER4_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.563 #define ZCL_CURRENT_TIER4_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.564 #define ZCL_CURRENT_TIER4_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.565 #define ZCL_CURRENT_TIER4_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.566 #define ZCL_CURRENT_TIER4_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

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9.11.1.567 #define ZCL_CURRENT_TIER4_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

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```
9.11.1.568 #define ZCL_CURRENT_TIER4_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [835](#) of file [attribute-id.h](#).

```
9.11.1.569 #define ZCL_CURRENT_TIER4_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [836](#) of file [attribute-id.h](#).

```
9.11.1.570 #define ZCL_CURRENT_TIER4_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [837](#) of file [attribute-id.h](#).

```
9.11.1.571 #define ZCL_CURRENT_TIER4_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [838](#) of file [attribute-id.h](#).

```
9.11.1.572 #define ZCL_CURRENT_TIER4_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [839](#) of file [attribute-id.h](#).

```
9.11.1.573 #define ZCL_CURRENT_TIER4_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [840](#) of file [attribute-id.h](#).

```
9.11.1.574 #define ZCL_CURRENT_TIER4_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [841](#) of file [attribute-id.h](#).

```
9.11.1.575 #define ZCL_CURRENT_TIER4_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [842](#) of file [attribute-id.h](#).

```
9.11.1.576 #define ZCL_CURRENT_TIER5_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [843](#) of file [attribute-id.h](#).

9.11.1.577 **#define ZCL_CURRENT_TIER5_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 844 of file [attribute-id.h](#).

9.11.1.578 **#define ZCL_CURRENT_TIER5_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 845 of file [attribute-id.h](#).

9.11.1.579 **#define ZCL_CURRENT_TIER5_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 846 of file [attribute-id.h](#).

9.11.1.580 **#define ZCL_CURRENT_TIER5_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 847 of file [attribute-id.h](#).

9.11.1.581 **#define ZCL_CURRENT_TIER5_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 848 of file [attribute-id.h](#).

9.11.1.582 **#define ZCL_CURRENT_TIER5_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 849 of file [attribute-id.h](#).

9.11.1.583 **#define ZCL_CURRENT_TIER5_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 850 of file [attribute-id.h](#).

9.11.1.584 **#define ZCL_CURRENT_TIER5_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 851 of file [attribute-id.h](#).

9.11.1.585 **#define ZCL_CURRENT_TIER5_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 852 of file [attribute-id.h](#).

9.11.1.586 #define ZCL_CURRENT_TIER5_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 853 of file [attribute-id.h](#).

9.11.1.587 #define ZCL_CURRENT_TIER5_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 854 of file [attribute-id.h](#).

9.11.1.588 #define ZCL_CURRENT_TIER5_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 855 of file [attribute-id.h](#).

9.11.1.589 #define ZCL_CURRENT_TIER5_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 856 of file [attribute-id.h](#).

9.11.1.590 #define ZCL_CURRENT_TIER5_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 857 of file [attribute-id.h](#).

9.11.1.591 #define ZCL_CURRENT_TIER5_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 858 of file [attribute-id.h](#).

9.11.1.592 #define ZCL_CURRENT_TIER6_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 859 of file [attribute-id.h](#).

9.11.1.593 #define ZCL_CURRENT_TIER6_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 860 of file [attribute-id.h](#).

9.11.1.594 #define ZCL_CURRENT_TIER6_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 861 of file [attribute-id.h](#).

```
9.11.1.595 #define ZCL_CURRENT_TIER6_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 862 of file [attribute-id.h](#).

```
9.11.1.596 #define ZCL_CURRENT_TIER6_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 863 of file [attribute-id.h](#).

```
9.11.1.597 #define ZCL_CURRENT_TIER6_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 864 of file [attribute-id.h](#).

```
9.11.1.598 #define ZCL_CURRENT_TIER6_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 865 of file [attribute-id.h](#).

```
9.11.1.599 #define ZCL_CURRENT_TIER6_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 866 of file [attribute-id.h](#).

```
9.11.1.600 #define ZCL_CURRENT_TIER6_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 867 of file [attribute-id.h](#).

```
9.11.1.601 #define ZCL_CURRENT_TIER6_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 868 of file [attribute-id.h](#).

```
9.11.1.602 #define ZCL_CURRENT_TIER6_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 869 of file [attribute-id.h](#).

```
9.11.1.603 #define ZCL_CURRENT_TIER6_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 870 of file [attribute-id.h](#).

9.11.1.604 #define ZCL_CURRENT_TIER6_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 871 of file [attribute-id.h](#).

9.11.1.605 #define ZCL_CURRENT_TIER6_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 872 of file [attribute-id.h](#).

9.11.1.606 #define ZCL_CURRENT_TIER6_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 873 of file [attribute-id.h](#).

9.11.1.607 #define ZCL_CURRENT_TIER6_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 874 of file [attribute-id.h](#).

9.11.1.608 #define ZCL_CURRENT_TIER7_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 875 of file [attribute-id.h](#).

9.11.1.609 #define ZCL_CURRENT_TIER7_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 876 of file [attribute-id.h](#).

9.11.1.610 #define ZCL_CURRENT_TIER7_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 877 of file [attribute-id.h](#).

9.11.1.611 #define ZCL_CURRENT_TIER7_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 878 of file [attribute-id.h](#).

9.11.1.612 #define ZCL_CURRENT_TIER7_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 879 of file [attribute-id.h](#).

9.11.1.613 #define ZCL_CURRENT_TIER7_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 880 of file [attribute-id.h](#).

9.11.1.614 #define ZCL_CURRENT_TIER7_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 881 of file [attribute-id.h](#).

9.11.1.615 #define ZCL_CURRENT_TIER7_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 882 of file [attribute-id.h](#).

9.11.1.616 #define ZCL_CURRENT_TIER7_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 883 of file [attribute-id.h](#).

9.11.1.617 #define ZCL_CURRENT_TIER7_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 884 of file [attribute-id.h](#).

9.11.1.618 #define ZCL_CURRENT_TIER7_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 885 of file [attribute-id.h](#).

9.11.1.619 #define ZCL_CURRENT_TIER7_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 886 of file [attribute-id.h](#).

9.11.1.620 #define ZCL_CURRENT_TIER7_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 887 of file [attribute-id.h](#).

9.11.1.621 #define ZCL_CURRENT_TIER7_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 888 of file [attribute-id.h](#).

```
9.11.1.622 #define ZCL_CURRENT_TIER7_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 889 of file [attribute-id.h](#).

```
9.11.1.623 #define ZCL_CURRENT_TIER7_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 890 of file [attribute-id.h](#).

```
9.11.1.624 #define ZCL_CURRENT_TIER8_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 891 of file [attribute-id.h](#).

```
9.11.1.625 #define ZCL_CURRENT_TIER8_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 892 of file [attribute-id.h](#).

```
9.11.1.626 #define ZCL_CURRENT_TIER8_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 893 of file [attribute-id.h](#).

```
9.11.1.627 #define ZCL_CURRENT_TIER8_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 894 of file [attribute-id.h](#).

```
9.11.1.628 #define ZCL_CURRENT_TIER8_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 895 of file [attribute-id.h](#).

```
9.11.1.629 #define ZCL_CURRENT_TIER8_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 896 of file [attribute-id.h](#).

```
9.11.1.630 #define ZCL_CURRENT_TIER8_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 897 of file [attribute-id.h](#).

```
9.11.1.631 #define ZCL_CURRENT_TIER8_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 898 of file [attribute-id.h](#).

```
9.11.1.632 #define ZCL_CURRENT_TIER8_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 899 of file [attribute-id.h](#).

```
9.11.1.633 #define ZCL_CURRENT_TIER8_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 900 of file [attribute-id.h](#).

```
9.11.1.634 #define ZCL_CURRENT_TIER8_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 901 of file [attribute-id.h](#).

```
9.11.1.635 #define ZCL_CURRENT_TIER8_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 902 of file [attribute-id.h](#).

```
9.11.1.636 #define ZCL_CURRENT_TIER8_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 903 of file [attribute-id.h](#).

```
9.11.1.637 #define ZCL_CURRENT_TIER8_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 904 of file [attribute-id.h](#).

```
9.11.1.638 #define ZCL_CURRENT_TIER8_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 905 of file [attribute-id.h](#).

```
9.11.1.639 #define ZCL_CURRENT_TIER8_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line 906 of file [attribute-id.h](#).

9.11.1.640 #define ZCL_CURRENT_TIER9_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 907 of file [attribute-id.h](#).

9.11.1.641 #define ZCL_CURRENT_TIER9_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 908 of file [attribute-id.h](#).

9.11.1.642 #define ZCL_CURRENT_TIER9_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 909 of file [attribute-id.h](#).

9.11.1.643 #define ZCL_CURRENT_TIER9_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 910 of file [attribute-id.h](#).

9.11.1.644 #define ZCL_CURRENT_TIER9_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 911 of file [attribute-id.h](#).

9.11.1.645 #define ZCL_CURRENT_TIER9_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 912 of file [attribute-id.h](#).

9.11.1.646 #define ZCL_CURRENT_TIER9_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 913 of file [attribute-id.h](#).

9.11.1.647 #define ZCL_CURRENT_TIER9_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 914 of file [attribute-id.h](#).

9.11.1.648 #define ZCL_CURRENT_TIER9_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 915 of file [attribute-id.h](#).

```
9.11.1.649 #define ZCL_CURRENT_TIER9_BLOCK10_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 916 of file [attribute-id.h](#).

```
9.11.1.650 #define ZCL_CURRENT_TIER9_BLOCK11_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 917 of file [attribute-id.h](#).

```
9.11.1.651 #define ZCL_CURRENT_TIER9_BLOCK12_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 918 of file [attribute-id.h](#).

```
9.11.1.652 #define ZCL_CURRENT_TIER9_BLOCK13_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 919 of file [attribute-id.h](#).

```
9.11.1.653 #define ZCL_CURRENT_TIER9_BLOCK14_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 920 of file [attribute-id.h](#).

```
9.11.1.654 #define ZCL_CURRENT_TIER9_BLOCK15_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 921 of file [attribute-id.h](#).

```
9.11.1.655 #define ZCL_CURRENT_TIER9_BLOCK16_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 922 of file [attribute-id.h](#).

```
9.11.1.656 #define ZCL_CURRENT_TIER10_BLOCK1_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 923 of file [attribute-id.h](#).

```
9.11.1.657 #define ZCL_CURRENT_TIER10_BLOCK2_SUMMATION_DELIVERED_ATTRIB-  
UTE_ID
```

Definition at line 924 of file [attribute-id.h](#).

9.11.1.658 #define ZCL_CURRENT_TIER10_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 925 of file [attribute-id.h](#).

9.11.1.659 #define ZCL_CURRENT_TIER10_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 926 of file [attribute-id.h](#).

9.11.1.660 #define ZCL_CURRENT_TIER10_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 927 of file [attribute-id.h](#).

9.11.1.661 #define ZCL_CURRENT_TIER10_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 928 of file [attribute-id.h](#).

9.11.1.662 #define ZCL_CURRENT_TIER10_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 929 of file [attribute-id.h](#).

9.11.1.663 #define ZCL_CURRENT_TIER10_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 930 of file [attribute-id.h](#).

9.11.1.664 #define ZCL_CURRENT_TIER10_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 931 of file [attribute-id.h](#).

9.11.1.665 #define ZCL_CURRENT_TIER10_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 932 of file [attribute-id.h](#).

9.11.1.666 #define ZCL_CURRENT_TIER10_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 933 of file [attribute-id.h](#).

```
9.11.1.667 #define ZCL_CURRENT_TIER10_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [934](#) of file [attribute-id.h](#).

```
9.11.1.668 #define ZCL_CURRENT_TIER10_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [935](#) of file [attribute-id.h](#).

```
9.11.1.669 #define ZCL_CURRENT_TIER10_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [936](#) of file [attribute-id.h](#).

```
9.11.1.670 #define ZCL_CURRENT_TIER10_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [937](#) of file [attribute-id.h](#).

```
9.11.1.671 #define ZCL_CURRENT_TIER10_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [938](#) of file [attribute-id.h](#).

```
9.11.1.672 #define ZCL_CURRENT_TIER11_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [939](#) of file [attribute-id.h](#).

```
9.11.1.673 #define ZCL_CURRENT_TIER11_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [940](#) of file [attribute-id.h](#).

```
9.11.1.674 #define ZCL_CURRENT_TIER11_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [941](#) of file [attribute-id.h](#).

```
9.11.1.675 #define ZCL_CURRENT_TIER11_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID
```

Definition at line [942](#) of file [attribute-id.h](#).

9.11.1.676 **#define ZCL_CURRENT_TIER11_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 943 of file [attribute-id.h](#).

9.11.1.677 **#define ZCL_CURRENT_TIER11_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 944 of file [attribute-id.h](#).

9.11.1.678 **#define ZCL_CURRENT_TIER11_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 945 of file [attribute-id.h](#).

9.11.1.679 **#define ZCL_CURRENT_TIER11_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 946 of file [attribute-id.h](#).

9.11.1.680 **#define ZCL_CURRENT_TIER11_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 947 of file [attribute-id.h](#).

9.11.1.681 **#define ZCL_CURRENT_TIER11_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 948 of file [attribute-id.h](#).

9.11.1.682 **#define ZCL_CURRENT_TIER11_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 949 of file [attribute-id.h](#).

9.11.1.683 **#define ZCL_CURRENT_TIER11_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 950 of file [attribute-id.h](#).

9.11.1.684 **#define ZCL_CURRENT_TIER11_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 951 of file [attribute-id.h](#).

9.11.1.685 #define ZCL_CURRENT_TIER11_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 952 of file [attribute-id.h](#).

9.11.1.686 #define ZCL_CURRENT_TIER11_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 953 of file [attribute-id.h](#).

9.11.1.687 #define ZCL_CURRENT_TIER11_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 954 of file [attribute-id.h](#).

9.11.1.688 #define ZCL_CURRENT_TIER12_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 955 of file [attribute-id.h](#).

9.11.1.689 #define ZCL_CURRENT_TIER12_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 956 of file [attribute-id.h](#).

9.11.1.690 #define ZCL_CURRENT_TIER12_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 957 of file [attribute-id.h](#).

9.11.1.691 #define ZCL_CURRENT_TIER12_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 958 of file [attribute-id.h](#).

9.11.1.692 #define ZCL_CURRENT_TIER12_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 959 of file [attribute-id.h](#).

9.11.1.693 #define ZCL_CURRENT_TIER12_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 960 of file [attribute-id.h](#).

9.11.1.694 **#define ZCL_CURRENT_TIER12_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 961 of file [attribute-id.h](#).

9.11.1.695 **#define ZCL_CURRENT_TIER12_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 962 of file [attribute-id.h](#).

9.11.1.696 **#define ZCL_CURRENT_TIER12_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 963 of file [attribute-id.h](#).

9.11.1.697 **#define ZCL_CURRENT_TIER12_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 964 of file [attribute-id.h](#).

9.11.1.698 **#define ZCL_CURRENT_TIER12_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 965 of file [attribute-id.h](#).

9.11.1.699 **#define ZCL_CURRENT_TIER12_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 966 of file [attribute-id.h](#).

9.11.1.700 **#define ZCL_CURRENT_TIER12_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 967 of file [attribute-id.h](#).

9.11.1.701 **#define ZCL_CURRENT_TIER12_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 968 of file [attribute-id.h](#).

9.11.1.702 **#define ZCL_CURRENT_TIER12_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 969 of file [attribute-id.h](#).

9.11.1.703 #define ZCL_CURRENT_TIER12_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 970 of file [attribute-id.h](#).

9.11.1.704 #define ZCL_CURRENT_TIER13_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 971 of file [attribute-id.h](#).

9.11.1.705 #define ZCL_CURRENT_TIER13_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 972 of file [attribute-id.h](#).

9.11.1.706 #define ZCL_CURRENT_TIER13_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 973 of file [attribute-id.h](#).

9.11.1.707 #define ZCL_CURRENT_TIER13_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 974 of file [attribute-id.h](#).

9.11.1.708 #define ZCL_CURRENT_TIER13_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 975 of file [attribute-id.h](#).

9.11.1.709 #define ZCL_CURRENT_TIER13_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 976 of file [attribute-id.h](#).

9.11.1.710 #define ZCL_CURRENT_TIER13_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 977 of file [attribute-id.h](#).

9.11.1.711 #define ZCL_CURRENT_TIER13_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 978 of file [attribute-id.h](#).

9.11.1.712 **#define ZCL_CURRENT_TIER13_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 979 of file [attribute-id.h](#).

9.11.1.713 **#define ZCL_CURRENT_TIER13_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 980 of file [attribute-id.h](#).

9.11.1.714 **#define ZCL_CURRENT_TIER13_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 981 of file [attribute-id.h](#).

9.11.1.715 **#define ZCL_CURRENT_TIER13_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 982 of file [attribute-id.h](#).

9.11.1.716 **#define ZCL_CURRENT_TIER13_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 983 of file [attribute-id.h](#).

9.11.1.717 **#define ZCL_CURRENT_TIER13_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 984 of file [attribute-id.h](#).

9.11.1.718 **#define ZCL_CURRENT_TIER13_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 985 of file [attribute-id.h](#).

9.11.1.719 **#define ZCL_CURRENT_TIER13_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 986 of file [attribute-id.h](#).

9.11.1.720 **#define ZCL_CURRENT_TIER14_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 987 of file [attribute-id.h](#).

9.11.1.721 #define ZCL_CURRENT_TIER14_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 988 of file [attribute-id.h](#).

9.11.1.722 #define ZCL_CURRENT_TIER14_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 989 of file [attribute-id.h](#).

9.11.1.723 #define ZCL_CURRENT_TIER14_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 990 of file [attribute-id.h](#).

9.11.1.724 #define ZCL_CURRENT_TIER14_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 991 of file [attribute-id.h](#).

9.11.1.725 #define ZCL_CURRENT_TIER14_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 992 of file [attribute-id.h](#).

9.11.1.726 #define ZCL_CURRENT_TIER14_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 993 of file [attribute-id.h](#).

9.11.1.727 #define ZCL_CURRENT_TIER14_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 994 of file [attribute-id.h](#).

9.11.1.728 #define ZCL_CURRENT_TIER14_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 995 of file [attribute-id.h](#).

9.11.1.729 #define ZCL_CURRENT_TIER14_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 996 of file [attribute-id.h](#).

9.11.1.730 #define ZCL_CURRENT_TIER14_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 997 of file [attribute-id.h](#).

9.11.1.731 #define ZCL_CURRENT_TIER14_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 998 of file [attribute-id.h](#).

9.11.1.732 #define ZCL_CURRENT_TIER14_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 999 of file [attribute-id.h](#).

9.11.1.733 #define ZCL_CURRENT_TIER14_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1000 of file [attribute-id.h](#).

9.11.1.734 #define ZCL_CURRENT_TIER14_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1001 of file [attribute-id.h](#).

9.11.1.735 #define ZCL_CURRENT_TIER14_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1002 of file [attribute-id.h](#).

9.11.1.736 #define ZCL_CURRENT_TIER15_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1003 of file [attribute-id.h](#).

9.11.1.737 #define ZCL_CURRENT_TIER15_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1004 of file [attribute-id.h](#).

9.11.1.738 #define ZCL_CURRENT_TIER15_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1005 of file [attribute-id.h](#).

9.11.1.739 **#define ZCL_CURRENT_TIER15_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1006 of file [attribute-id.h](#).

9.11.1.740 **#define ZCL_CURRENT_TIER15_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1007 of file [attribute-id.h](#).

9.11.1.741 **#define ZCL_CURRENT_TIER15_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1008 of file [attribute-id.h](#).

9.11.1.742 **#define ZCL_CURRENT_TIER15_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1009 of file [attribute-id.h](#).

9.11.1.743 **#define ZCL_CURRENT_TIER15_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1010 of file [attribute-id.h](#).

9.11.1.744 **#define ZCL_CURRENT_TIER15_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1011 of file [attribute-id.h](#).

9.11.1.745 **#define ZCL_CURRENT_TIER15_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1012 of file [attribute-id.h](#).

9.11.1.746 **#define ZCL_CURRENT_TIER15_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1013 of file [attribute-id.h](#).

9.11.1.747 **#define ZCL_CURRENT_TIER15_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID**

Definition at line 1014 of file [attribute-id.h](#).

9.11.1.748 #define ZCL_CURRENT_TIER15_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1015 of file [attribute-id.h](#).

9.11.1.749 #define ZCL_CURRENT_TIER15_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1016 of file [attribute-id.h](#).

9.11.1.750 #define ZCL_CURRENT_TIER15_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1017 of file [attribute-id.h](#).

9.11.1.751 #define ZCL_CURRENT_TIER15_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID

Definition at line 1018 of file [attribute-id.h](#).

9.11.1.752 #define ZCL_GENERIC_ALARM_MASK_ATTRIBUTE_ID

Definition at line 1019 of file [attribute-id.h](#).

9.11.1.753 #define ZCL_ELECTRICITY_ALARM_MASK_ATTRIBUTE_ID

Definition at line 1020 of file [attribute-id.h](#).

9.11.1.754 #define ZCL_GENERIC_FLOW_PRESSURE_ALARM_MASK_ATTRIBUTE_ID

Definition at line 1021 of file [attribute-id.h](#).

9.11.1.755 #define ZCL_WATER_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID

Definition at line 1022 of file [attribute-id.h](#).

9.11.1.756 #define ZCL_HEAT_AND_COOLING_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID

Definition at line 1023 of file [attribute-id.h](#).

9.11.1.757 #define ZCL_GAS_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID

Definition at line 1024 of file [attribute-id.h](#).

9.11.1.758 #define ZCL_MIRROR_IEEE_ADDRESS_ATTRIBUTE_ID

Definition at line 1025 of file [attribute-id.h](#).

9.11.1.759 #define ZCL_MIRROR_SYNC_PERIOD_ATTRIBUTE_ID

Definition at line 1026 of file [attribute-id.h](#).

9.11.1.760 #define ZCL_MIRROR_LAST_SYNC_TIME_ATTRIBUTE_ID

Definition at line 1027 of file [attribute-id.h](#).

9.11.1.761 #define ZCL_PRICE_INCREASE_RANDOMIZE_MINUTES_ATTRIBUTE_ID

Definition at line 1034 of file [attribute-id.h](#).

9.11.1.762 #define ZCL_PRICE_DECREASE_RANDOMIZE_MINUTES_ATTRIBUTE_ID

Definition at line 1035 of file [attribute-id.h](#).

9.11.1.763 #define ZCL_COMMODITY_TYPE_CLIENT_ATTRIBUTE_ID

Definition at line 1036 of file [attribute-id.h](#).

9.11.1.764 #define ZCL_TIER1_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1039 of file [attribute-id.h](#).

9.11.1.765 #define ZCL_TIER2_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1040 of file [attribute-id.h](#).

9.11.1.766 #define ZCL_TIER3_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1041 of file [attribute-id.h](#).

9.11.1.767 #define ZCL_TIER4_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1042 of file [attribute-id.h](#).

9.11.1.768 #define ZCL_TIER5_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1043 of file [attribute-id.h](#).

9.11.1.769 #define ZCL_TIER6_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1044 of file [attribute-id.h](#).

9.11.1.770 #define ZCL_TIER7_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1045 of file [attribute-id.h](#).

9.11.1.771 #define ZCL_TIER8_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1046 of file [attribute-id.h](#).

9.11.1.772 #define ZCL_TIER9_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1047 of file [attribute-id.h](#).

9.11.1.773 #define ZCL_TIER10_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1048 of file [attribute-id.h](#).

9.11.1.774 #define ZCL_TIER11_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1049 of file [attribute-id.h](#).

9.11.1.775 #define ZCL_TIER12_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1050 of file [attribute-id.h](#).

9.11.1.776 #define ZCL_TIER13_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1051 of file [attribute-id.h](#).

9.11.1.777 #define ZCL_TIER14_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1052 of file [attribute-id.h](#).

9.11.1.778 #define ZCL_TIER15_PRICE_LABEL_ATTRIBUTE_ID

Definition at line 1053 of file [attribute-id.h](#).

9.11.1.779 #define ZCL_BLOCK1_THRESHOLD_ATTRIBUTE_ID

Definition at line 1054 of file [attribute-id.h](#).

9.11.1.780 #define ZCL_BLOCK2_THRESHOLD_ATTRIBUTE_ID

Definition at line 1055 of file [attribute-id.h](#).

9.11.1.781 #define ZCL_BLOCK3_THRESHOLD_ATTRIBUTE_ID

Definition at line 1056 of file [attribute-id.h](#).

9.11.1.782 #define ZCL_BLOCK4_THRESHOLD_ATTRIBUTE_ID

Definition at line 1057 of file [attribute-id.h](#).

9.11.1.783 #define ZCL_BLOCK5_THRESHOLD_ATTRIBUTE_ID

Definition at line 1058 of file [attribute-id.h](#).

9.11.1.784 #define ZCL_BLOCK6_THRESHOLD_ATTRIBUTE_ID

Definition at line 1059 of file [attribute-id.h](#).

9.11.1.785 #define ZCL_BLOCK7_THRESHOLD_ATTRIBUTE_ID

Definition at line 1060 of file [attribute-id.h](#).

9.11.1.786 #define ZCL_BLOCK8_THRESHOLD_ATTRIBUTE_ID

Definition at line 1061 of file [attribute-id.h](#).

9.11.1.787 #define ZCL_BLOCK9_THRESHOLD_ATTRIBUTE_ID

Definition at line 1062 of file [attribute-id.h](#).

9.11.1.788 #define ZCL_BLOCK10_THRESHOLD_ATTRIBUTE_ID

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9.11.1.789 #define ZCL_BLOCK11_THRESHOLD_ATTRIBUTE_ID

Definition at line 1064 of file [attribute-id.h](#).

9.11.1.790 #define ZCL_BLOCK12_THRESHOLD_ATTRIBUTE_ID

Definition at line 1065 of file [attribute-id.h](#).

9.11.1.791 #define ZCL_BLOCK13_THRESHOLD_ATTRIBUTE_ID

Definition at line 1066 of file [attribute-id.h](#).

9.11.1.792 #define ZCL_BLOCK14_THRESHOLD_ATTRIBUTE_ID

Definition at line 1067 of file [attribute-id.h](#).

9.11.1.793 #define ZCL_BLOCK15_THRESHOLD_ATTRIBUTE_ID

Definition at line 1068 of file [attribute-id.h](#).

9.11.1.794 #define ZCL_START_OF_BLOCK_PERIOD_ATTRIBUTE_ID

Definition at line 1069 of file [attribute-id.h](#).

9.11.1.795 #define ZCL_BLOCK_PERIOD_DURATION_MINUTES_ATTRIBUTE_ID

Definition at line 1070 of file [attribute-id.h](#).

9.11.1.796 #define ZCL_THRESHOLD_MULTIPLIER_ATTRIBUTE_ID

Definition at line 1071 of file [attribute-id.h](#).

9.11.1.797 #define ZCL_THRESHOLD_DIVISOR_ATTRIBUTE_ID

Definition at line 1072 of file [attribute-id.h](#).

9.11.1.798 #define ZCL_COMMODITY_TYPE_SERVER_ATTRIBUTE_ID

Definition at line 1073 of file [attribute-id.h](#).

9.11.1.799 #define ZCL_STANDING_CHARGE_ATTRIBUTE_ID

Definition at line 1074 of file [attribute-id.h](#).

9.11.1.800 #define ZCL_NO_TIER_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line 1075 of file [attribute-id.h](#).

9.11.1.801 #define ZCL_NO_TIER_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line 1076 of file [attribute-id.h](#).

9.11.1.802 #define ZCL_NO_TIER_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line 1077 of file [attribute-id.h](#).

9.11.1.803 #define ZCL_NO_TIER_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line 1078 of file [attribute-id.h](#).

9.11.1.804 #define ZCL_NO_TIER_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line 1079 of file [attribute-id.h](#).

9.11.1.805 #define ZCL_NO_TIER_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line 1080 of file [attribute-id.h](#).

9.11.1.806 #define ZCL_NO_TIER_BLOCK7_PRICE_ATTRIBUTE_ID

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9.11.1.807 #define ZCL_NO_TIER_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line 1082 of file [attribute-id.h](#).

9.11.1.808 #define ZCL_NO_TIER_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line 1083 of file [attribute-id.h](#).

9.11.1.809 #define ZCL_NO_TIER_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line 1084 of file [attribute-id.h](#).

9.11.1.810 #define ZCL_NO_TIER_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line 1085 of file [attribute-id.h](#).

9.11.1.811 #define ZCL_NO_TIER_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line 1086 of file [attribute-id.h](#).

9.11.1.812 #define ZCL_NO_TIER_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line 1087 of file [attribute-id.h](#).

9.11.1.813 #define ZCL_NO_TIER_BLOCK14_PRICE_ATTRIBUTE_ID

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9.11.1.814 #define ZCL_NO_TIER_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line 1089 of file [attribute-id.h](#).

9.11.1.815 #define ZCL_NO_TIER_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line 1090 of file [attribute-id.h](#).

9.11.1.816 #define ZCL_TIER1_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line 1091 of file [attribute-id.h](#).

9.11.1.817 #define ZCL_TIER1_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line 1092 of file [attribute-id.h](#).

9.11.1.818 #define ZCL_TIER1_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line 1093 of file [attribute-id.h](#).

9.11.1.819 #define ZCL_TIER1_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line 1094 of file [attribute-id.h](#).

9.11.1.820 #define ZCL_TIER1_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line 1095 of file [attribute-id.h](#).

9.11.1.821 #define ZCL_TIER1_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line 1096 of file [attribute-id.h](#).

9.11.1.822 #define ZCL_TIER1_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line 1097 of file [attribute-id.h](#).

9.11.1.823 #define ZCL_TIER1_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line 1098 of file [attribute-id.h](#).

9.11.1.824 #define ZCL_TIER1_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line 1099 of file [attribute-id.h](#).

9.11.1.825 #define ZCL_TIER1_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line 1100 of file [attribute-id.h](#).

9.11.1.826 #define ZCL_TIER1_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line 1101 of file [attribute-id.h](#).

9.11.1.827 #define ZCL_TIER1_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line 1102 of file [attribute-id.h](#).

9.11.1.828 #define ZCL_TIER1_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line 1103 of file [attribute-id.h](#).

9.11.1.829 #define ZCL_TIER1_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line 1104 of file [attribute-id.h](#).

9.11.1.830 #define ZCL_TIER1_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line 1105 of file [attribute-id.h](#).

9.11.1.831 #define ZCL_TIER1_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line 1106 of file [attribute-id.h](#).

9.11.1.832 #define ZCL_TIER2_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line 1107 of file [attribute-id.h](#).

9.11.1.833 #define ZCL_TIER2_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line 1108 of file [attribute-id.h](#).

9.11.1.834 #define ZCL_TIER2_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line 1109 of file [attribute-id.h](#).

9.11.1.835 #define ZCL_TIER2_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line 1110 of file [attribute-id.h](#).

9.11.1.836 #define ZCL_TIER2_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line 1111 of file [attribute-id.h](#).

9.11.1.837 #define ZCL_TIER2_BLOCK6_PRICE_ATTRIBUTE_ID

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9.11.1.838 #define ZCL_TIER2_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line 1113 of file [attribute-id.h](#).

9.11.1.839 #define ZCL_TIER2_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line 1114 of file [attribute-id.h](#).

9.11.1.840 #define ZCL_TIER2_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line 1115 of file [attribute-id.h](#).

9.11.1.841 #define ZCL_TIER2_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line 1116 of file [attribute-id.h](#).

9.11.1.842 #define ZCL_TIER2_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line 1117 of file [attribute-id.h](#).

9.11.1.843 #define ZCL_TIER2_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line 1118 of file [attribute-id.h](#).

9.11.1.844 #define ZCL_TIER2_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line 1119 of file [attribute-id.h](#).

9.11.1.845 #define ZCL_TIER2_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line 1120 of file [attribute-id.h](#).

9.11.1.846 #define ZCL_TIER2_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line 1121 of file [attribute-id.h](#).

9.11.1.847 #define ZCL_TIER2_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1122](#) of file [attribute-id.h](#).

9.11.1.848 #define ZCL_TIER3_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1123](#) of file [attribute-id.h](#).

9.11.1.849 #define ZCL_TIER3_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line [1124](#) of file [attribute-id.h](#).

9.11.1.850 #define ZCL_TIER3_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1125](#) of file [attribute-id.h](#).

9.11.1.851 #define ZCL_TIER3_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1126](#) of file [attribute-id.h](#).

9.11.1.852 #define ZCL_TIER3_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1127](#) of file [attribute-id.h](#).

9.11.1.853 #define ZCL_TIER3_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1128](#) of file [attribute-id.h](#).

9.11.1.854 #define ZCL_TIER3_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1129](#) of file [attribute-id.h](#).

9.11.1.855 #define ZCL_TIER3_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1130](#) of file [attribute-id.h](#).

9.11.1.856 #define ZCL_TIER3_BLOCK9_PRICE_ATTRIBUTE_ID

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9.11.1.857 #define ZCL_TIER3_BLOCK10_PRICE_ATTRIBUTE_ID

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9.11.1.858 #define ZCL_TIER3_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1133](#) of file [attribute-id.h](#).

9.11.1.859 #define ZCL_TIER3_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line [1134](#) of file [attribute-id.h](#).

9.11.1.860 #define ZCL_TIER3_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line [1135](#) of file [attribute-id.h](#).

9.11.1.861 #define ZCL_TIER3_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1136](#) of file [attribute-id.h](#).

9.11.1.862 #define ZCL_TIER3_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1137](#) of file [attribute-id.h](#).

9.11.1.863 #define ZCL_TIER3_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1138](#) of file [attribute-id.h](#).

9.11.1.864 #define ZCL_TIER4_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1139](#) of file [attribute-id.h](#).

9.11.1.865 #define ZCL_TIER4_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line [1140](#) of file [attribute-id.h](#).

9.11.1.866 #define ZCL_TIER4_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1141](#) of file [attribute-id.h](#).

9.11.1.867 #define ZCL_TIER4_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1142](#) of file [attribute-id.h](#).

9.11.1.868 #define ZCL_TIER4_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1143](#) of file [attribute-id.h](#).

9.11.1.869 #define ZCL_TIER4_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1144](#) of file [attribute-id.h](#).

9.11.1.870 #define ZCL_TIER4_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1145](#) of file [attribute-id.h](#).

9.11.1.871 #define ZCL_TIER4_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1146](#) of file [attribute-id.h](#).

9.11.1.872 #define ZCL_TIER4_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1147](#) of file [attribute-id.h](#).

9.11.1.873 #define ZCL_TIER4_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1148](#) of file [attribute-id.h](#).

9.11.1.874 #define ZCL_TIER4_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1149](#) of file [attribute-id.h](#).

9.11.1.875 #define ZCL_TIER4_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line [1150](#) of file [attribute-id.h](#).

9.11.1.876 #define ZCL_TIER4_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line [1151](#) of file [attribute-id.h](#).

9.11.1.877 #define ZCL_TIER4_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1152](#) of file [attribute-id.h](#).

9.11.1.878 #define ZCL_TIER4_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1153](#) of file [attribute-id.h](#).

9.11.1.879 #define ZCL_TIER4_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1154](#) of file [attribute-id.h](#).

9.11.1.880 #define ZCL_TIER5_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1155](#) of file [attribute-id.h](#).

9.11.1.881 #define ZCL_TIER5_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line [1156](#) of file [attribute-id.h](#).

9.11.1.882 #define ZCL_TIER5_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1157](#) of file [attribute-id.h](#).

9.11.1.883 #define ZCL_TIER5_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1158](#) of file [attribute-id.h](#).

9.11.1.884 #define ZCL_TIER5_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1159](#) of file [attribute-id.h](#).

9.11.1.885 #define ZCL_TIER5_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1160](#) of file [attribute-id.h](#).

9.11.1.886 #define ZCL_TIER5_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1161](#) of file [attribute-id.h](#).

9.11.1.887 #define ZCL_TIER5_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1162](#) of file [attribute-id.h](#).

9.11.1.888 #define ZCL_TIER5_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1163](#) of file [attribute-id.h](#).

9.11.1.889 #define ZCL_TIER5_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1164](#) of file [attribute-id.h](#).

9.11.1.890 #define ZCL_TIER5_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1165](#) of file [attribute-id.h](#).

9.11.1.891 #define ZCL_TIER5_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line 1166 of file [attribute-id.h](#).

9.11.1.892 #define ZCL_TIER5_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line 1167 of file [attribute-id.h](#).

9.11.1.893 #define ZCL_TIER5_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line 1168 of file [attribute-id.h](#).

9.11.1.894 #define ZCL_TIER5_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line 1169 of file [attribute-id.h](#).

9.11.1.895 #define ZCL_TIER5_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line 1170 of file [attribute-id.h](#).

9.11.1.896 #define ZCL_TIER6_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line 1171 of file [attribute-id.h](#).

9.11.1.897 #define ZCL_TIER6_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line 1172 of file [attribute-id.h](#).

9.11.1.898 #define ZCL_TIER6_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line 1173 of file [attribute-id.h](#).

9.11.1.899 #define ZCL_TIER6_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line 1174 of file [attribute-id.h](#).

9.11.1.900 #define ZCL_TIER6_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line 1175 of file [attribute-id.h](#).

9.11.1.901 #define ZCL_TIER6_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line 1176 of file [attribute-id.h](#).

9.11.1.902 #define ZCL_TIER6_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line 1177 of file [attribute-id.h](#).

9.11.1.903 #define ZCL_TIER6_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line 1178 of file [attribute-id.h](#).

9.11.1.904 #define ZCL_TIER6_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line 1179 of file [attribute-id.h](#).

9.11.1.905 #define ZCL_TIER6_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line 1180 of file [attribute-id.h](#).

9.11.1.906 #define ZCL_TIER6_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line 1181 of file [attribute-id.h](#).

9.11.1.907 #define ZCL_TIER6_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line 1182 of file [attribute-id.h](#).

9.11.1.908 #define ZCL_TIER6_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line 1183 of file [attribute-id.h](#).

9.11.1.909 #define ZCL_TIER6_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line 1184 of file [attribute-id.h](#).

9.11.1.910 #define ZCL_TIER6_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line 1185 of file [attribute-id.h](#).

9.11.1.911 #define ZCL_TIER6_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line 1186 of file [attribute-id.h](#).

9.11.1.912 #define ZCL_TIER7_BLOCK1_PRICE_ATTRIBUTE_ID

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9.11.1.913 #define ZCL_TIER7_BLOCK2_PRICE_ATTRIBUTE_ID

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9.11.1.914 #define ZCL_TIER7_BLOCK3_PRICE_ATTRIBUTE_ID

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9.11.1.915 #define ZCL_TIER7_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1190](#) of file [attribute-id.h](#).

9.11.1.916 #define ZCL_TIER7_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1191](#) of file [attribute-id.h](#).

9.11.1.917 #define ZCL_TIER7_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1192](#) of file [attribute-id.h](#).

9.11.1.918 #define ZCL_TIER7_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1193](#) of file [attribute-id.h](#).

9.11.1.919 #define ZCL_TIER7_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1194](#) of file [attribute-id.h](#).

9.11.1.920 #define ZCL_TIER7_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1195](#) of file [attribute-id.h](#).

9.11.1.921 #define ZCL_TIER7_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1196](#) of file [attribute-id.h](#).

9.11.1.922 #define ZCL_TIER7_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1197](#) of file [attribute-id.h](#).

9.11.1.923 #define ZCL_TIER7_BLOCK12_PRICE_ATTRIBUTE_ID

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9.11.1.924 #define ZCL_TIER7_BLOCK13_PRICE_ATTRIBUTE_ID

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9.11.1.925 #define ZCL_TIER7_BLOCK14_PRICE_ATTRIBUTE_ID

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9.11.1.926 #define ZCL_TIER7_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1201](#) of file [attribute-id.h](#).

9.11.1.927 #define ZCL_TIER7_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1202](#) of file [attribute-id.h](#).

9.11.1.928 #define ZCL_TIER8_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1203](#) of file [attribute-id.h](#).

9.11.1.929 #define ZCL_TIER8_BLOCK2_PRICE_ATTRIBUTE_ID

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9.11.1.930 #define ZCL_TIER8_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1205](#) of file [attribute-id.h](#).

9.11.1.931 #define ZCL_TIER8_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1206](#) of file [attribute-id.h](#).

9.11.1.932 #define ZCL_TIER8_BLOCK5_PRICE_ATTRIBUTE_ID

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9.11.1.933 #define ZCL_TIER8_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1208](#) of file [attribute-id.h](#).

9.11.1.934 #define ZCL_TIER8_BLOCK7_PRICE_ATTRIBUTE_ID

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9.11.1.935 #define ZCL_TIER8_BLOCK8_PRICE_ATTRIBUTE_ID

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9.11.1.936 #define ZCL_TIER8_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1211](#) of file [attribute-id.h](#).

9.11.1.937 #define ZCL_TIER8_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1212](#) of file [attribute-id.h](#).

9.11.1.938 #define ZCL_TIER8_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1213](#) of file [attribute-id.h](#).

9.11.1.939 #define ZCL_TIER8_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line [1214](#) of file [attribute-id.h](#).

9.11.1.940 #define ZCL_TIER8_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line [1215](#) of file [attribute-id.h](#).

9.11.1.941 #define ZCL_TIER8_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1216](#) of file [attribute-id.h](#).

9.11.1.942 #define ZCL_TIER8_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1217](#) of file [attribute-id.h](#).

9.11.1.943 #define ZCL_TIER8_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1218](#) of file [attribute-id.h](#).

9.11.1.944 #define ZCL_TIER9_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1219](#) of file [attribute-id.h](#).

9.11.1.945 #define ZCL_TIER9_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line [1220](#) of file [attribute-id.h](#).

9.11.1.946 #define ZCL_TIER9_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1221](#) of file [attribute-id.h](#).

9.11.1.947 #define ZCL_TIER9_BLOCK4_PRICE_ATTRIBUTE_ID

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9.11.1.948 #define ZCL_TIER9_BLOCK5_PRICE_ATTRIBUTE_ID

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9.11.1.949 #define ZCL_TIER9_BLOCK6_PRICE_ATTRIBUTE_ID

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9.11.1.950 #define ZCL_TIER9_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1225](#) of file [attribute-id.h](#).

9.11.1.951 #define ZCL_TIER9_BLOCK8_PRICE_ATTRIBUTE_ID

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9.11.1.952 #define ZCL_TIER9_BLOCK9_PRICE_ATTRIBUTE_ID

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9.11.1.953 #define ZCL_TIER9_BLOCK10_PRICE_ATTRIBUTE_ID

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9.11.1.954 #define ZCL_TIER9_BLOCK11_PRICE_ATTRIBUTE_ID

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9.11.1.955 #define ZCL_TIER9_BLOCK12_PRICE_ATTRIBUTE_ID

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9.11.1.956 #define ZCL_TIER9_BLOCK13_PRICE_ATTRIBUTE_ID

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9.11.1.957 #define ZCL_TIER9_BLOCK14_PRICE_ATTRIBUTE_ID

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9.11.1.958 #define ZCL_TIER9_BLOCK15_PRICE_ATTRIBUTE_ID

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9.11.1.959 #define ZCL_TIER9_BLOCK16_PRICE_ATTRIBUTE_ID

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9.11.1.960 #define ZCL_TIER10_BLOCK1_PRICE_ATTRIBUTE_ID

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9.11.1.961 #define ZCL_TIER10_BLOCK2_PRICE_ATTRIBUTE_ID

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9.11.1.962 #define ZCL_TIER10_BLOCK3_PRICE_ATTRIBUTE_ID

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9.11.1.963 #define ZCL_TIER10_BLOCK4_PRICE_ATTRIBUTE_ID

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9.11.1.964 #define ZCL_TIER10_BLOCK5_PRICE_ATTRIBUTE_ID

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9.11.1.965 #define ZCL_TIER10_BLOCK6_PRICE_ATTRIBUTE_ID

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9.11.1.966 #define ZCL_TIER10_BLOCK7_PRICE_ATTRIBUTE_ID

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9.11.1.967 #define ZCL_TIER10_BLOCK8_PRICE_ATTRIBUTE_ID

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9.11.1.968 #define ZCL_TIER10_BLOCK9_PRICE_ATTRIBUTE_ID

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9.11.1.969 #define ZCL_TIER10_BLOCK10_PRICE_ATTRIBUTE_ID

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9.11.1.970 #define ZCL_TIER10_BLOCK11_PRICE_ATTRIBUTE_ID

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9.11.1.971 #define ZCL_TIER10_BLOCK12_PRICE_ATTRIBUTE_ID

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9.11.1.972 #define ZCL_TIER10_BLOCK13_PRICE_ATTRIBUTE_ID

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9.11.1.973 #define ZCL_TIER10_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1248](#) of file [attribute-id.h](#).

9.11.1.974 #define ZCL_TIER10_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1249](#) of file [attribute-id.h](#).

9.11.1.975 #define ZCL_TIER10_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1250](#) of file [attribute-id.h](#).

9.11.1.976 #define ZCL_TIER11_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1251](#) of file [attribute-id.h](#).

9.11.1.977 #define ZCL_TIER11_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line [1252](#) of file [attribute-id.h](#).

9.11.1.978 #define ZCL_TIER11_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1253](#) of file [attribute-id.h](#).

9.11.1.979 #define ZCL_TIER11_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1254](#) of file [attribute-id.h](#).

9.11.1.980 #define ZCL_TIER11_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1255](#) of file [attribute-id.h](#).

9.11.1.981 #define ZCL_TIER11_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1256](#) of file [attribute-id.h](#).

9.11.1.982 #define ZCL_TIER11_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1257](#) of file [attribute-id.h](#).

9.11.1.983 #define ZCL_TIER11_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1258](#) of file [attribute-id.h](#).

9.11.1.984 #define ZCL_TIER11_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1259](#) of file [attribute-id.h](#).

9.11.1.985 #define ZCL_TIER11_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1260](#) of file [attribute-id.h](#).

9.11.1.986 #define ZCL_TIER11_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1261](#) of file [attribute-id.h](#).

9.11.1.987 #define ZCL_TIER11_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line [1262](#) of file [attribute-id.h](#).

9.11.1.988 #define ZCL_TIER11_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line [1263](#) of file [attribute-id.h](#).

9.11.1.989 #define ZCL_TIER11_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1264](#) of file [attribute-id.h](#).

9.11.1.990 #define ZCL_TIER11_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1265](#) of file [attribute-id.h](#).

9.11.1.991 #define ZCL_TIER11_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1266](#) of file [attribute-id.h](#).

9.11.1.992 #define ZCL_TIER12_BLOCK1_PRICE_ATTRIBUTE_ID

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9.11.1.993 #define ZCL_TIER12_BLOCK2_PRICE_ATTRIBUTE_ID

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9.11.1.994 #define ZCL_TIER12_BLOCK3_PRICE_ATTRIBUTE_ID

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9.11.1.995 #define ZCL_TIER12_BLOCK4_PRICE_ATTRIBUTE_ID

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9.11.1.996 #define ZCL_TIER12_BLOCK5_PRICE_ATTRIBUTE_ID

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9.11.1.997 #define ZCL_TIER12_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1272](#) of file [attribute-id.h](#).

9.11.1.998 #define ZCL_TIER12_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1273](#) of file [attribute-id.h](#).

9.11.1.999 #define ZCL_TIER12_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1274](#) of file [attribute-id.h](#).

9.11.1.1000 #define ZCL_TIER12_BLOCK9_PRICE_ATTRIBUTE_ID

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9.11.1.1001 #define ZCL_TIER12_BLOCK10_PRICE_ATTRIBUTE_ID

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9.11.1.1002 #define ZCL_TIER12_BLOCK11_PRICE_ATTRIBUTE_ID

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9.11.1.1003 #define ZCL_TIER12_BLOCK12_PRICE_ATTRIBUTE_ID

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9.11.1.1004 #define ZCL_TIER12_BLOCK13_PRICE_ATTRIBUTE_ID

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9.11.1.1005 #define ZCL_TIER12_BLOCK14_PRICE_ATTRIBUTE_ID

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9.11.1.1006 #define ZCL_TIER12_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1281](#) of file [attribute-id.h](#).

9.11.1.1007 #define ZCL_TIER12_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1282](#) of file [attribute-id.h](#).

9.11.1.1008 #define ZCL_TIER13_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1283](#) of file [attribute-id.h](#).

9.11.1.1009 #define ZCL_TIER13_BLOCK2_PRICE_ATTRIBUTE_ID

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9.11.1.1010 #define ZCL_TIER13_BLOCK3_PRICE_ATTRIBUTE_ID

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9.11.1.1011 #define ZCL_TIER13_BLOCK4_PRICE_ATTRIBUTE_ID

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9.11.1.1012 #define ZCL_TIER13_BLOCK5_PRICE_ATTRIBUTE_ID

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9.11.1.1013 #define ZCL_TIER13_BLOCK6_PRICE_ATTRIBUTE_ID

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9.11.1.1014 #define ZCL_TIER13_BLOCK7_PRICE_ATTRIBUTE_ID

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9.11.1.1015 #define ZCL_TIER13_BLOCK8_PRICE_ATTRIBUTE_ID

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9.11.1.1016 #define ZCL_TIER13_BLOCK9_PRICE_ATTRIBUTE_ID

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9.11.1.1017 #define ZCL_TIER13_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1292](#) of file [attribute-id.h](#).

9.11.1.1018 #define ZCL_TIER13_BLOCK11_PRICE_ATTRIBUTE_ID

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9.11.1.1019 #define ZCL_TIER13_BLOCK12_PRICE_ATTRIBUTE_ID

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9.11.1.1020 #define ZCL_TIER13_BLOCK13_PRICE_ATTRIBUTE_ID

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9.11.1.1021 #define ZCL_TIER13_BLOCK14_PRICE_ATTRIBUTE_ID

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9.11.1.1022 #define ZCL_TIER13_BLOCK15_PRICE_ATTRIBUTE_ID

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9.11.1.1023 #define ZCL_TIER13_BLOCK16_PRICE_ATTRIBUTE_ID

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9.11.1.1024 #define ZCL_TIER14_BLOCK1_PRICE_ATTRIBUTE_ID

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9.11.1.1025 #define ZCL_TIER14_BLOCK2_PRICE_ATTRIBUTE_ID

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9.11.1.1026 #define ZCL_TIER14_BLOCK3_PRICE_ATTRIBUTE_ID

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9.11.1.1027 #define ZCL_TIER14_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1302](#) of file [attribute-id.h](#).

9.11.1.1028 #define ZCL_TIER14_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1303](#) of file [attribute-id.h](#).

9.11.1.1029 #define ZCL_TIER14_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1304](#) of file [attribute-id.h](#).

9.11.1.1030 #define ZCL_TIER14_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1305](#) of file [attribute-id.h](#).

9.11.1.1031 #define ZCL_TIER14_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1306](#) of file [attribute-id.h](#).

9.11.1.1032 #define ZCL_TIER14_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1307](#) of file [attribute-id.h](#).

9.11.1.1033 #define ZCL_TIER14_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1308](#) of file [attribute-id.h](#).

9.11.1.1034 #define ZCL_TIER14_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1309](#) of file [attribute-id.h](#).

9.11.1.1035 #define ZCL_TIER14_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line [1310](#) of file [attribute-id.h](#).

9.11.1.1036 #define ZCL_TIER14_BLOCK13_PRICE_ATTRIBUTE_ID

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9.11.1.1037 #define ZCL_TIER14_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1312](#) of file [attribute-id.h](#).

9.11.1.1038 #define ZCL_TIER14_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1313](#) of file [attribute-id.h](#).

9.11.1.1039 #define ZCL_TIER14_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1314](#) of file [attribute-id.h](#).

9.11.1.1040 #define ZCL_TIER15_BLOCK1_PRICE_ATTRIBUTE_ID

Definition at line [1315](#) of file [attribute-id.h](#).

9.11.1.1041 #define ZCL_TIER15_BLOCK2_PRICE_ATTRIBUTE_ID

Definition at line [1316](#) of file [attribute-id.h](#).

9.11.1.1042 #define ZCL_TIER15_BLOCK3_PRICE_ATTRIBUTE_ID

Definition at line [1317](#) of file [attribute-id.h](#).

9.11.1.1043 #define ZCL_TIER15_BLOCK4_PRICE_ATTRIBUTE_ID

Definition at line [1318](#) of file [attribute-id.h](#).

9.11.1.1044 #define ZCL_TIER15_BLOCK5_PRICE_ATTRIBUTE_ID

Definition at line [1319](#) of file [attribute-id.h](#).

9.11.1.1045 #define ZCL_TIER15_BLOCK6_PRICE_ATTRIBUTE_ID

Definition at line [1320](#) of file [attribute-id.h](#).

9.11.1.1046 #define ZCL_TIER15_BLOCK7_PRICE_ATTRIBUTE_ID

Definition at line [1321](#) of file [attribute-id.h](#).

9.11.1.1047 #define ZCL_TIER15_BLOCK8_PRICE_ATTRIBUTE_ID

Definition at line [1322](#) of file [attribute-id.h](#).

9.11.1.1048 #define ZCL_TIER15_BLOCK9_PRICE_ATTRIBUTE_ID

Definition at line [1323](#) of file [attribute-id.h](#).

9.11.1.1049 #define ZCL_TIER15_BLOCK10_PRICE_ATTRIBUTE_ID

Definition at line [1324](#) of file [attribute-id.h](#).

9.11.1.1050 #define ZCL_TIER15_BLOCK11_PRICE_ATTRIBUTE_ID

Definition at line [1325](#) of file [attribute-id.h](#).

9.11.1.1051 #define ZCL_TIER15_BLOCK12_PRICE_ATTRIBUTE_ID

Definition at line [1326](#) of file [attribute-id.h](#).

9.11.1.1052 #define ZCL_TIER15_BLOCK13_PRICE_ATTRIBUTE_ID

Definition at line [1327](#) of file [attribute-id.h](#).

9.11.1.1053 #define ZCL_TIER15_BLOCK14_PRICE_ATTRIBUTE_ID

Definition at line [1328](#) of file [attribute-id.h](#).

9.11.1.1054 #define ZCL_TIER15_BLOCK15_PRICE_ATTRIBUTE_ID

Definition at line [1329](#) of file [attribute-id.h](#).

9.11.1.1055 #define ZCL_TIER15_BLOCK16_PRICE_ATTRIBUTE_ID

Definition at line [1330](#) of file [attribute-id.h](#).

9.11.1.1056 #define ZCL_CLOSE_TUNNEL_TIMEOUT_ATTRIBUTE_ID

Definition at line [1337](#) of file [attribute-id.h](#).

9.11.1.1057 #define ZCL_PAYMENT_CONTROL_ATTRIBUTE_ID

Definition at line [1344](#) of file [attribute-id.h](#).

9.11.1.1058 #define ZCL_CREDIT_REMAINING_ATTRIBUTE_ID

Definition at line [1345](#) of file [attribute-id.h](#).

9.11.1.1059 #define ZCL_EMERGENCY_CREDIT_REMAINING_ATTRIBUTE_ID

Definition at line [1346](#) of file [attribute-id.h](#).

9.11.1.1060 #define ZCL_CREDIT_STATUS_ATTRIBUTE_ID

Definition at line [1347](#) of file [attribute-id.h](#).

9.11.1.1061 #define ZCL_TOP_UP_DATE_TIME_1_ATTRIBUTE_ID

Definition at line [1348](#) of file [attribute-id.h](#).

9.11.1.1062 #define ZCL_TOP_UP_AMOUNT_1_ATTRIBUTE_ID

Definition at line [1349](#) of file [attribute-id.h](#).

9.11.1.1063 #define ZCL_ORIGINATING_DEVICE_1_ATTRIBUTE_ID

Definition at line [1350](#) of file [attribute-id.h](#).

9.11.1.1064 #define ZCL_TOP_UP_DATE_TIME_2_ATTRIBUTE_ID

Definition at line [1351](#) of file [attribute-id.h](#).

9.11.1.1065 #define ZCL_TOP_UP_AMOUNT_2_ATTRIBUTE_ID

Definition at line [1352](#) of file [attribute-id.h](#).

9.11.1.1066 #define ZCL_ORIGINATING_DEVICE_2_ATTRIBUTE_ID

Definition at line [1353](#) of file [attribute-id.h](#).

9.11.1.1067 #define ZCL_TOP_UP_DATE_TIME_3_ATTRIBUTE_ID

Definition at line [1354](#) of file [attribute-id.h](#).

9.11.1.1068 #define ZCL_TOP_UP_AMOUNT_3_ATTRIBUTE_ID

Definition at line [1355](#) of file [attribute-id.h](#).

9.11.1.1069 #define ZCL_ORIGINATING_DEVICE_3_ATTRIBUTE_ID

Definition at line [1356](#) of file [attribute-id.h](#).

9.11.1.1070 #define ZCL_TOP_UP_DATE_TIME_4_ATTRIBUTE_ID

Definition at line [1357](#) of file [attribute-id.h](#).

9.11.1.1071 #define ZCL_TOP_UP_AMOUNT_4_ATTRIBUTE_ID

Definition at line [1358](#) of file [attribute-id.h](#).

9.11.1.1072 #define ZCL_ORIGINATING_DEVICE_4_ATTRIBUTE_ID

Definition at line [1359](#) of file [attribute-id.h](#).

9.11.1.1073 #define ZCL_TOP_UP_DATE_TIME_5_ATTRIBUTE_ID

Definition at line [1360](#) of file [attribute-id.h](#).

9.11.1.1074 #define ZCL_TOP_UP_AMOUNT_5_ATTRIBUTE_ID

Definition at line [1361](#) of file [attribute-id.h](#).

9.11.1.1075 #define ZCL_ORIGINATING_DEVICE_5_ATTRIBUTE_ID

Definition at line [1362](#) of file [attribute-id.h](#).

9.11.1.1076 #define ZCL_FUEL_DEBT_REMAINING_ATTRIBUTE_ID

Definition at line [1363](#) of file [attribute-id.h](#).

9.11.1.1077 #define ZCL_FUEL_DEBT_RECOVERY_RATE_ATTRIBUTE_ID

Definition at line [1364](#) of file [attribute-id.h](#).

9.11.1.1078 #define ZCL_FUEL_DEBT_RECOVERY_PERIOD_ATTRIBUTE_ID

Definition at line [1365](#) of file [attribute-id.h](#).

9.11.1.1079 #define ZCL_NON_FUEL_DEBT_REMAINING_ATTRIBUTE_ID

Definition at line [1366](#) of file [attribute-id.h](#).

9.11.1.1080 #define ZCL_NON_FUEL_DEBT_RECOVERY_RATE_ATTRIBUTE_ID

Definition at line [1367](#) of file [attribute-id.h](#).

9.11.1.1081 #define ZCL_NON_FUEL_DEBT_RECOVERY_PERIOD_ATTRIBUTE_ID

Definition at line [1368](#) of file [attribute-id.h](#).

9.11.1.1082 #define ZCL_PROPOSED_CHANGE_PROVIDER_ID_ATTRIBUTE_ID

Definition at line [1369](#) of file [attribute-id.h](#).

9.11.1.1083 #define ZCL_PROPOSED_CHANGE_IMPLEMENTATION_TIME_ATTRIBUTE_ID

Definition at line [1370](#) of file [attribute-id.h](#).

9.11.1.1084 #define ZCL_PROPOSED_CHANGE_SUPPLY_STATUS_ATTRIBUTE_ID

Definition at line [1371](#) of file [attribute-id.h](#).

9.11.1.1085 #define ZCL_DELAYED_SUPPLY_INTERRUPT_VALUE_REMAINING_ATTRIBUTE_ID

Definition at line [1372](#) of file [attribute-id.h](#).

9.11.1.1086 #define ZCL_DELAYED_SUPPLY_INTERRUPT_VALUE_TYPE_ATTRIBUTE_ID

Definition at line [1373](#) of file [attribute-id.h](#).

9.11.1.1087 #define ZCL_KEY_ESTABLISHMENT_SUITE_CLIENT_ATTRIBUTE_ID

Definition at line [1380](#) of file [attribute-id.h](#).

9.11.1.1088 #define ZCL_KEY_ESTABLISHMENT_SUITE_SERVER_ATTRIBUTE_ID

Definition at line [1383](#) of file [attribute-id.h](#).

9.11.1.1089 #define ZCL_ATTRIBUTE_ONE_ATTRIBUTE_ID

Definition at line 1390 of file [attribute-id.h](#).

9.12 attribute-id.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_ATTRIBUTE_ID__
00009 #define __EMBER_AF_ATTRIBUTE_ID__
00010
00011
00012 // Attribute types for cluster: Basic
00013 // Cluster specification level: zcl-1.0-07-5123-03
00014
00015 // Server attributes
00016 #define ZCL_VERSION_ATTRIBUTE_ID 0x0000    // Ver.: always
00017 #define ZCL_APPLICATION_VERSION_ATTRIBUTE_ID 0x0001    // Ver.: always
00018 #define ZCL_STACK_VERSION_ATTRIBUTE_ID 0x0002    // Ver.: always
00019 #define ZCL_HW_VERSION_ATTRIBUTE_ID 0x0003    // Ver.: always
00020 #define ZCL_MANUFACTURER_NAME_ATTRIBUTE_ID 0x0004    // Ver.: always
00021 #define ZCL_MODEL_IDENTIFIER_ATTRIBUTE_ID 0x0005    // Ver.: always
00022 #define ZCL_DATE_CODE_ATTRIBUTE_ID 0x0006    // Ver.: always
00023 #define ZCL_POWER_SOURCE_ATTRIBUTE_ID 0x0007    // Ver.: always
00024 #define ZCL_LOCATION_DESCRIPTION_ATTRIBUTE_ID 0x0010    // Ver.: always
00025 #define ZCL_PHYSICAL_ENVIRONMENT_ATTRIBUTE_ID 0x0011    // Ver.: always
00026 #define ZCL_DEVICE_ENABLED_ATTRIBUTE_ID 0x0012    // Ver.: always
00027 #define ZCL_ALARM_MASK_ATTRIBUTE_ID 0x0013    // Ver.: always
00028 #define ZCL_DISABLE_LOCAL_CONFIG_ATTRIBUTE_ID 0x0014    // Ver.: always
00029 #define ZCL_SW_BUILD_ID_ATTRIBUTE_ID 0x4000    // Ver.: since
00030           zll-1.0-11-0037-10
00031
00032 // Attribute types for cluster: Power Configuration
00033 // Cluster specification level: zcl-1.0-07-5123-03
00034
00035 // Server attributes
00036 #define ZCL_MAINS_VOLTAGE_ATTRIBUTE_ID 0x0000    // Ver.: always
00037 #define ZCL_MAINS_FREQUENCY_ATTRIBUTE_ID 0x0001    // Ver.: always
00038 #define ZCL_MAINS_ALARM_MASK_ATTRIBUTE_ID 0x0010    // Ver.: always
00039 #define ZCL_MAINS_VOLTAGE_MIN_THRESHOLD_ATTRIBUTE_ID 0x0011    // Ver.: always
00040 #define ZCL_MAINS_VOLTAGE_MAX_THRESHOLD_ATTRIBUTE_ID 0x0012    // Ver.: always
00041 #define ZCL_MAINS_VOLTAGE_DWELL_TRIP_POINT_ATTRIBUTE_ID 0x0013    // Ver.:
           always
00042 #define ZCL_BATTERY_VOLTAGE_ATTRIBUTE_ID 0x0020    // Ver.: always
00043 #define ZCL_BATTERY_MANUFACTURER_ATTRIBUTE_ID 0x0030    // Ver.: always
00044 #define ZCL_BATTERY_SIZE_ATTRIBUTE_ID 0x0031    // Ver.: always
00045 #define ZCL_BATTERY_AHR_RATING_ATTRIBUTE_ID 0x0032    // Ver.: always
00046 #define ZCL_BATTERY_QUANTITY_ATTRIBUTE_ID 0x0033    // Ver.: always
00047 #define ZCL_BATTERY_RATED_VOLTAGE_ATTRIBUTE_ID 0x0034    // Ver.: always
00048 #define ZCL_BATTERY_ALARM_MASK_ATTRIBUTE_ID 0x0035    // Ver.: always
00049 #define ZCL_BATTERY_VOLTAGE_MIN_THRESHOLD_ATTRIBUTE_ID 0x0036    // Ver.:
           always
00050
00051
00052 // Attribute types for cluster: Device Temperature Configuration
00053 // Cluster specification level: zcl-1.0-07-5123-03
00054
00055 // Server attributes
00056 #define ZCL_CURRENT_TEMPERATURE_ATTRIBUTE_ID 0x0000    // Ver.: always
00057 #define ZCL_MIN_TEMP_EXPERIENCED_ATTRIBUTE_ID 0x0001    // Ver.: always
00058 #define ZCL_MAX_TEMP_EXPERIENCED_ATTRIBUTE_ID 0x0002    // Ver.: always
00059 #define ZCL_OVER_TEMP_TOTAL_DWELL_ATTRIBUTE_ID 0x0003    // Ver.: always
00060 #define ZCL_DEVICE_TEMP_ALARM_MASK_ATTRIBUTE_ID 0x0010    // Ver.: always
00061 #define ZCL_LOW_TEMP_THRESHOLD_ATTRIBUTE_ID 0x0011    // Ver.: always
00062 #define ZCL_HIGH_TEMP_THRESHOLD_ATTRIBUTE_ID 0x0012    // Ver.: always
00063 #define ZCL_LOW_TEMP_DWELL_TRIP_POINT_ATTRIBUTE_ID 0x0013    // Ver.: always
00064 #define ZCL_HIGH_TEMP_DWELL_TRIP_POINT_ATTRIBUTE_ID 0x0014    // Ver.: always
00065
00066

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00067 // Attribute types for cluster: Identify
00068 // Cluster specification level: zcl-1.0-07-5123-03
00069
00070 // Server attributes
00071 #define ZCL_IDENTIFY_TIME_ATTRIBUTE_ID 0x0000      // Ver.: always
00072
00073
00074 // Attribute types for cluster: Groups
00075 // Cluster specification level: zcl-1.0-07-5123-03
00076
00077 // Server attributes
00078 #define ZCL_GROUP_NAME_SUPPORT_ATTRIBUTE_ID 0x0000      // Ver.: always
00079
00080
00081 // Attribute types for cluster: Scenes
00082 // Cluster specification level: zcl-1.0-07-5123-03
00083
00084 // Server attributes
00085 #define ZCL_SCENE_COUNT_ATTRIBUTE_ID 0x0000      // Ver.: always
00086 #define ZCL_CURRENT_SCENE_ATTRIBUTE_ID 0x0001      // Ver.: always
00087 #define ZCL_CURRENT_GROUP_ATTRIBUTE_ID 0x0002      // Ver.: always
00088 #define ZCL_SCENE_VALID_ATTRIBUTE_ID 0x0003      // Ver.: always
00089 #define ZCL_SCENE_NAME_SUPPORT_ATTRIBUTE_ID 0x0004      // Ver.: always
00090 #define ZCL_LAST_CONFIGURED_BY_ATTRIBUTE_ID 0x0005      // Ver.: always
00091
00092
00093 // Attribute types for cluster: On/off
00094 // Cluster specification level: zcl-1.0-07-5123-03
00095
00096 // Server attributes
00097 #define ZCL_ON_OFF_ATTRIBUTE_ID 0x0000      // Ver.: always
00098 #define ZCL_GLOBAL_SCENE_CONTROL_ATTRIBUTE_ID 0x4000      // Ver.: since
    zll-1.0-11-0037-10
00099 #define ZCL_ON_TIME_ATTRIBUTE_ID 0x4001      // Ver.: since zll-1.0-11-0037-10
00100 #define ZCL_OFF_WAIT_TIME_ATTRIBUTE_ID 0x4002      // Ver.: since
    zll-1.0-11-0037-10
00101 #define ZCL_SAMPLE_MFG_SPECIFIC_TRANSITION_TIME_ATTRIBUTE_ID 0x0000      // Ver.:
    always
00102
00103
00104 // Attribute types for cluster: On/off Switch Configuration
00105 // Cluster specification level: zcl-1.0-07-5123-03
00106
00107 // Server attributes
00108 #define ZCL_SWITCH_TYPE_ATTRIBUTE_ID 0x0000      // Ver.: always
00109 #define ZCL_SWITCH_ACTIONS_ATTRIBUTE_ID 0x0010      // Ver.: always
00110
00111
00112 // Attribute types for cluster: Level Control
00113 // Cluster specification level: zcl-1.0-07-5123-03
00114
00115 // Server attributes
00116 #define ZCL_CURRENT_LEVEL_ATTRIBUTE_ID 0x0000      // Ver.: always
00117 #define ZCL_LEVEL_CONTROL_REMAINING_TIME_ATTRIBUTE_ID 0x0001      // Ver.: always
00118 #define ZCL_ON_OFF_TRANSITION_TIME_ATTRIBUTE_ID 0x0010      // Ver.: always
00119 #define ZCL_ON_LEVEL_ATTRIBUTE_ID 0x0011      // Ver.: always
00120 #define ZCL_ON_TRANSITION_TIME_ATTRIBUTE_ID 0x0012      // Ver.: since
    ha-1.2-11-5474-15
00121 #define ZCL_OFF_TRANSITION_TIME_ATTRIBUTE_ID 0x0013      // Ver.: since
    ha-1.2-11-5474-15
00122 #define ZCL_DEFAULT_MOVE_RATE_ATTRIBUTE_ID 0x0014      // Ver.: since
    ha-1.2-11-5474-15
00123
00124
00125 // Attribute types for cluster: Alarms
00126 // Cluster specification level: zcl-1.0-07-5123-03
00127
00128 // Server attributes
00129 #define ZCL_ALARM_COUNT_ATTRIBUTE_ID 0x0000      // Ver.: always
00130
00131
00132 // Attribute types for cluster: Time
00133 // Cluster specification level: zcl-1.0-07-5123-03
00134
00135 // Server attributes
00136 #define ZCL_TIME_ATTRIBUTE_ID 0x0000      // Ver.: always
00137 #define ZCL_TIME_STATUS_ATTRIBUTE_ID 0x0001      // Ver.: always
00138 #define ZCL_TIME_ZONE_ATTRIBUTE_ID 0x0002      // Ver.: always
00139 #define ZCL_DST_START_ATTRIBUTE_ID 0x0003      // Ver.: always
00140 #define ZCL_DST_END_ATTRIBUTE_ID 0x0004      // Ver.: always

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00141 #define ZCL_DST_SHIFT_ATTRIBUTE_ID 0x0005    // Ver.: always
00142 #define ZCL_STANDARD_TIME_ATTRIBUTE_ID 0x0006    // Ver.: always
00143 #define ZCL_LOCAL_TIME_ATTRIBUTE_ID 0x0007    // Ver.: always
00144 #define ZCL_LAST_SET_TIME_ATTRIBUTE_ID 0x0008    // Ver.: always
00145 #define ZCL_VALID_UNTIL_TIME_ATTRIBUTE_ID 0x0009    // Ver.: always
00146
00147
00148 // Attribute types for cluster: RSSI Location
00149 // Cluster specification level: zcl-1.0-07-5123-03
00150
00151 // Server attributes
00152 #define ZCL_LOCATION_TYPE_ATTRIBUTE_ID 0x0000    // Ver.: always
00153 #define ZCL_LOCATION_METHOD_ATTRIBUTE_ID 0x0001    // Ver.: always
00154 #define ZCL_LOCATION_ATTRIBUTES_ATTRIBUTE_ID 0x0002    // Ver.: always
00155 #define ZCL_QUALITY_MEASURE_ATTRIBUTE_ID 0x0003    // Ver.: always
00156 #define ZCL_NUMBER_OF_DEVICES_ATTRIBUTE_ID 0x0004    // Ver.: always
00157 #define ZCL_COORDINATE1_ATTRIBUTE_ID 0x0010    // Ver.: always
00158 #define ZCL_COORDINATE2_ATTRIBUTE_ID 0x0011    // Ver.: always
00159 #define ZCL_COORDINATE3_ATTRIBUTE_ID 0x0012    // Ver.: always
00160 #define ZCL_POWER_ATTRIBUTE_ID 0x0013    // Ver.: always
00161 #define ZCL_PATH_LOSS_EXPONENT_ATTRIBUTE_ID 0x0014    // Ver.: always
00162 #define ZCL_REPORTING_PERIOD_ATTRIBUTE_ID 0x0015    // Ver.: always
00163 #define ZCL_CALCULATION_PERIOD_ATTRIBUTE_ID 0x0016    // Ver.: always
00164 #define ZCL_NUMBER_RSSI_MEASUREMENTS_ATTRIBUTE_ID 0x0017    // Ver.: always
00165
00166
00167 // Attribute types for cluster: Binary Input (Basic)
00168 // Cluster specification level: zcl-1.0-07-5123-03
00169
00170 // Server attributes
00171 #define ZCL_ACTIVE_TEXT_ATTRIBUTE_ID 0x0004    // Ver.: always
00172 #define ZCL_DESCRIPTION_ATTRIBUTE_ID 0x001C    // Ver.: always
00173 #define ZCL_INACTIVE_TEXT_ATTRIBUTE_ID 0x002E    // Ver.: always
00174 #define ZCL_OUT_OF_SERVICE_ATTRIBUTE_ID 0x0051    // Ver.: always
00175 #define ZCL_POLARITY_ATTRIBUTE_ID 0x0054    // Ver.: always
00176 #define ZCL_PRESENT_VALUE_ATTRIBUTE_ID 0x0055    // Ver.: always
00177 #define ZCL_RELIABILITY_ATTRIBUTE_ID 0x0067    // Ver.: always
00178 #define ZCL_STATUS_FLAGS_ATTRIBUTE_ID 0x006F    // Ver.: always
00179 #define ZCL_APPLICATION_TYPE_ATTRIBUTE_ID 0x0100    // Ver.: always
00180
00181
00182 // Attribute types for cluster: Commissioning
00183 // Cluster specification level: zcl-1.0-07-5123-03
00184
00185 // Server attributes
00186 #define ZCL_SHORT_ADDRESS_ATTRIBUTE_ID 0x0000    // Ver.: always
00187 #define ZCL_EXTENDED_PAN_ID_ATTRIBUTE_ID 0x0001    // Ver.: always
00188 #define ZCL_PAN_ID_ATTRIBUTE_ID 0x0002    // Ver.: always
00189 #define ZCL_CHANNEL_MASK_ATTRIBUTE_ID 0x0003    // Ver.: always
00190 #define ZCL_PROTOCOL_VERSION_ATTRIBUTE_ID 0x0004    // Ver.: always
00191 #define ZCL_STACK_PROFILE_ATTRIBUTE_ID 0x0005    // Ver.: always
00192 #define ZCL_STARTUP_CONTROL_ATTRIBUTE_ID 0x0006    // Ver.: always
00193 #define ZCL_TRUST_CENTER_ADDRESS_ATTRIBUTE_ID 0x0010    // Ver.: always
00194 #define ZCL_TRUST_CENTER_MASTER_KEY_ATTRIBUTE_ID 0x0011    // Ver.: always
00195 #define ZCL_NETWORK_KEY_ATTRIBUTE_ID 0x0012    // Ver.: always
00196 #define ZCL_USE_INSECURE_JOIN_ATTRIBUTE_ID 0x0013    // Ver.: always
00197 #define ZCL_PRECONFIGURED_LINK_KEY_ATTRIBUTE_ID 0x0014    // Ver.: always
00198 #define ZCL_NETWORK_KEY_SEQUENCE_NUMBER_ATTRIBUTE_ID 0x0015    // Ver.: always
00199 #define ZCL_NETWORK_KEY_TYPE_ATTRIBUTE_ID 0x0016    // Ver.: always
00200 #define ZCL_NETWORK_MANAGER_ADDRESS_ATTRIBUTE_ID 0x0017    // Ver.: always
00201 #define ZCL_SCAN_ATTEMPTS_ATTRIBUTE_ID 0x0020    // Ver.: always
00202 #define ZCL_TIME_BETWEEN_SCANS_ATTRIBUTE_ID 0x0021    // Ver.: always
00203 #define ZCL_REJOIN_INTERVAL_ATTRIBUTE_ID 0x0022    // Ver.: always
00204 #define ZCL_MAX_REJOIN_INTERVAL_ATTRIBUTE_ID 0x0023    // Ver.: always
00205 #define ZCL_INDIRECT_POLL_RATE_ATTRIBUTE_ID 0x0030    // Ver.: always
00206 #define ZCL_PARENT_RETRY_THRESHOLD_ATTRIBUTE_ID 0x0031    // Ver.: always
00207 #define ZCL_CONCENTRATOR_FLAG_ATTRIBUTE_ID 0x0040    // Ver.: always
00208 #define ZCL_CONCENTRATOR_RADIUS_ATTRIBUTE_ID 0x0041    // Ver.: always
00209 #define ZCL_CONCENTRATOR_DISCOVERY_TIME_ATTRIBUTE_ID 0x0042    // Ver.: always
00210
00211
00212 // Attribute types for cluster: Shade Configuration
00213 // Cluster specification level: zcl-1.0-07-5123-03
00214
00215 // Server attributes
00216 #define ZCL_SHADE_CONFIG_PHYSICAL_CLOSED_LIMIT_ATTRIBUTE_ID 0x0000    // Ver.:
    always
00217 #define ZCL_SHADE_CONFIG_MOTOR_STEP_SIZE_ATTRIBUTE_ID 0x0001    // Ver.: always
00218 #define ZCL_SHADE_CONFIG_STATUS_ATTRIBUTE_ID 0x0002    // Ver.: always
00219 #define ZCL_SHADE_CONFIG_CLOSED_LIMIT_ATTRIBUTE_ID 0x0010    // Ver.: always

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00220 #define ZCL_SHADE_CONFIG_MODE_ATTRIBUTE_ID 0x0011      // Ver.: always
00221
00222
00223 // Attribute types for cluster: Pump Configuration and Control
00224 // Cluster specification level: zcl-1.0-07-5123-03
00225
00226 // Server attributes
00227 #define ZCL_MAX_PRESSURE_ATTRIBUTE_ID 0x0000      // Ver.: always
00228 #define ZCL_MAX_SPEED_ATTRIBUTE_ID 0x0001      // Ver.: always
00229 #define ZCL_MAX_FLOW_ATTRIBUTE_ID 0x0002      // Ver.: always
00230 #define ZCL_MIN_CONST_PRESSURE_ATTRIBUTE_ID 0x0003      // Ver.: always
00231 #define ZCL_MAX_CONST_PRESSURE_ATTRIBUTE_ID 0x0004      // Ver.: always
00232 #define ZCL_MIN_COMP_PRESSURE_ATTRIBUTE_ID 0x0005      // Ver.: always
00233 #define ZCL_MAX_COMP_PRESSURE_ATTRIBUTE_ID 0x0006      // Ver.: always
00234 #define ZCL_MIN_CONST_SPEED_ATTRIBUTE_ID 0x0007      // Ver.: always
00235 #define ZCL_MAX_CONST_SPEED_ATTRIBUTE_ID 0x0008      // Ver.: always
00236 #define ZCL_MIN_CONST_FLOW_ATTRIBUTE_ID 0x0009      // Ver.: always
00237 #define ZCL_MAX_CONST_FLOW_ATTRIBUTE_ID 0x000A      // Ver.: always
00238 #define ZCL_MIN_CONST_TEMP_ATTRIBUTE_ID 0x000B      // Ver.: always
00239 #define ZCL_MAX_CONST_TEMP_ATTRIBUTE_ID 0x000C      // Ver.: always
00240 #define ZCL_PUMP_STATUS_ATTRIBUTE_ID 0x0010      // Ver.: always
00241 #define ZCL_EFFECTIVE_OPERATION_MODE_ATTRIBUTE_ID 0x0011      // Ver.: always
00242 #define ZCL_EFFECTIVE_CONTROL_MODE_ATTRIBUTE_ID 0x0012      // Ver.: always
00243 #define ZCL_CAPACITY_ATTRIBUTE_ID 0x0013      // Ver.: always
00244 #define ZCL_SPEED_ATTRIBUTE_ID 0x0014      // Ver.: always
00245 #define ZCL_LIFETIME_RUNNING_HOURS_ATTRIBUTE_ID 0x0015      // Ver.: always
00246 #define ZCL_PUMP_POWER_ATTRIBUTE_ID 0x0016      // Ver.: always
00247 #define ZCL_LIFETIME_ENERGY_CONSUMED_ATTRIBUTE_ID 0x0017      // Ver.: always
00248 #define ZCL_OPERATION_MODE_ATTRIBUTE_ID 0x0020      // Ver.: always
00249 #define ZCL_CONTROL_MODE_ATTRIBUTE_ID 0x0021      // Ver.: always
00250 #define ZCL_PUMP_ALARM_MASK_ATTRIBUTE_ID 0x0022      // Ver.: always
00251
00252
00253 // Attribute types for cluster: Thermostat
00254 // Cluster specification level: zcl-1.0-07-5123-03
00255
00256 // Server attributes
00257 #define ZCL_LOCAL_TEMPERATURE_ATTRIBUTE_ID 0x0000      // Ver.: always
00258 #define ZCL_OUTDOOR_TEMPERATURE_ATTRIBUTE_ID 0x0001      // Ver.: always
00259 #define ZCL_THERMOSTAT_OCCUPANCY_ATTRIBUTE_ID 0x0002      // Ver.: always
00260 #define ZCL_ABS_MIN_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0003      // Ver.: always
00261 #define ZCL_ABS_MAX_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0004      // Ver.: always
00262 #define ZCL_ABS_MIN_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0005      // Ver.: always
00263 #define ZCL_ABS_MAX_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0006      // Ver.: always
00264 #define ZCL_PI_COOLING_DEMAND_ATTRIBUTE_ID 0x0007      // Ver.: always
00265 #define ZCL_PI_HEATING_DEMAND_ATTRIBUTE_ID 0x0008      // Ver.: always
00266 #define ZCL_LOCAL_TEMPERATURE_CALIBRATION_ATTRIBUTE_ID 0x0010      // Ver.:
    always
00267 #define ZCL_OCCUPIED_COOLING_SETPOINT_ATTRIBUTE_ID 0x0011      // Ver.: always
00268 #define ZCL_OCCUPIED_HEATING_SETPOINT_ATTRIBUTE_ID 0x0012      // Ver.: always
00269 #define ZCL_UNOCCUPIED_COOLING_SETPOINT_ATTRIBUTE_ID 0x0013      // Ver.: always
00270 #define ZCL_UNOCCUPIED_HEATING_SETPOINT_ATTRIBUTE_ID 0x0014      // Ver.: always
00271 #define ZCL_MIN_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0015      // Ver.: always
00272 #define ZCL_MAX_HEAT_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0016      // Ver.: always
00273 #define ZCL_MIN_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0017      // Ver.: always
00274 #define ZCL_MAX_COOL_SETPOINT_LIMIT_ATTRIBUTE_ID 0x0018      // Ver.: always
00275 #define ZCL_MIN_SETPOINT_DEAD_BAND_ATTRIBUTE_ID 0x0019      // Ver.: always
00276 #define ZCL_REMOTE_SENSING_ATTRIBUTE_ID 0x001A      // Ver.: always
00277 #define ZCL_CONTROL_SEQUENCE_OF_OPERATION_ATTRIBUTE_ID 0x001B      // Ver.:
    always
00278 #define ZCL_SYSTEM_MODE_ATTRIBUTE_ID 0x001C      // Ver.: always
00279 #define ZCL_THERMOSTAT_ALARM_MASK_ATTRIBUTE_ID 0x001D      // Ver.: always
00280 #define ZCL_THERMOSTAT_RUNNING_MODE_ATTRIBUTE_ID 0x001E      // Ver.: since
    ha-1.2-11-5474-15
00281 #define ZCL_START_OF_WEEK_ATTRIBUTE_ID 0x0020      // Ver.: since
    ha-1.2-11-5474-15
00282 #define ZCL_NUMBER_OF_WEEKLY_TRANSITIONS_ATTRIBUTE_ID 0x0021      // Ver.: since
    ha-1.2-11-5474-15
00283 #define ZCL_NUMBER_OF_DAILY_TRANSITIONS_ATTRIBUTE_ID 0x0022      // Ver.: since
    ha-1.2-11-5474-15
00284 #define ZCL_TEMPERATURE_SETPOINT_HOLD_ATTRIBUTE_ID 0x0023      // Ver.: since
    ha-1.2-11-5474-15
00285 #define ZCL_TEMPERATURE_SETPOINT_HOLD_DURATION_ATTRIBUTE_ID 0x0024      // Ver.:
    since ha-1.2-11-5474-15
00286 #define ZCL_THERMOSTAT_RUNNING_STATE_ATTRIBUTE_ID 0x0029      // Ver.: since
    ha-1.2-11-5474-15
00287
00288
00289 // Attribute types for cluster: Fan Control
00290 // Cluster specification level: zcl-1.0-07-5123-03

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00291
00292 // Server attributes
00293 #define ZCL_FAN_CONTROL_FAN_MODE_ATTRIBUTE_ID 0x0000      // Ver.: always
00294 #define ZCL_FAN_CONTROL_FAN_MODE_SEQUENCE_ATTRIBUTE_ID 0x0001      // Ver.:
    always
00295
00296
00297 // Attribute types for cluster: Dehumidification Control
00298 // Cluster specification level: zcl-1.0-07-5123-03
00299
00300 // Server attributes
00301 #define ZCL_RELATIVE_HUMIDITY_ATTRIBUTE_ID 0x0000      // Ver.: always
00302 #define ZCL_DEHUMIDIFICATION_COOLING_ATTRIBUTE_ID 0x0001      // Ver.: always
00303 #define ZCL_RH_DEHUMIDIFICATION_SETPOINT_ATTRIBUTE_ID 0x0010      // Ver.: always
00304 #define ZCL_RELATIVE_HUMIDITY_MODE_ATTRIBUTE_ID 0x0011      // Ver.: always
00305 #define ZCL_DEHUMIDIFICATION_LOCKOUT_ATTRIBUTE_ID 0x0012      // Ver.: always
00306 #define ZCL_DEHUMIDIFICATION_HYSTeresis_ATTRIBUTE_ID 0x0013      // Ver.: always
00307 #define ZCL_DEHUMIDIFICATION_MAX_COOL_ATTRIBUTE_ID 0x0014      // Ver.: always
00308 #define ZCL_RELATIVE_HUMIDITY_DISPLAY_ATTRIBUTE_ID 0x0015      // Ver.: always
00309
00310
00311 // Attribute types for cluster: Thermostat User Interface Configuration
00312 // Cluster specification level: zcl-1.0-07-5123-03
00313
00314 // Server attributes
00315 #define ZCL_TEMPERATURE_DISPLAY_MODE_ATTRIBUTE_ID 0x0000      // Ver.: always
00316 #define ZCL_KEYPAD_LOCKOUT_ATTRIBUTE_ID 0x0001      // Ver.: always
00317
00318
00319 // Attribute types for cluster: Color Control
00320 // Cluster specification level: zcl-1.0-07-5123-03
00321
00322 // Server attributes
00323 #define ZCL_COLOR_CONTROL_CURRENT_HUE_ATTRIBUTE_ID 0x0000      // Ver.: always
00324 #define ZCL_COLOR_CONTROL_CURRENT_SATURATION_ATTRIBUTE_ID 0x0001      // Ver.:
    always
00325 #define ZCL_COLOR_CONTROL_REMAINING_TIME_ATTRIBUTE_ID 0x0002      // Ver.: always
00326 #define ZCL_COLOR_CONTROL_CURRENT_X_ATTRIBUTE_ID 0x0003      // Ver.: always
00327 #define ZCL_COLOR_CONTROL_CURRENT_Y_ATTRIBUTE_ID 0x0004      // Ver.: always
00328 #define ZCL_COLOR_CONTROL_DRIFT_COMPENSATION_ATTRIBUTE_ID 0x0005      // Ver.:
    always
00329 #define ZCL_COLOR_CONTROL_COMPENSATION_TEXT_ATTRIBUTE_ID 0x0006      // Ver.:
    always
00330 #define ZCL_COLOR_CONTROL_COLOR_TEMPERATURE_ATTRIBUTE_ID 0x0007      // Ver.:
    always
00331 #define ZCL_COLOR_CONTROL_COLOR_MODE_ATTRIBUTE_ID 0x0008      // Ver.: always
00332 #define ZCL_COLOR_CONTROL_NUMBER_OF_PRIMARIES_ATTRIBUTE_ID 0x0010      // Ver.:
    always
00333 #define ZCL_COLOR_CONTROL_PRIMARY_1_X_ATTRIBUTE_ID 0x0011      // Ver.: always
00334 #define ZCL_COLOR_CONTROL_PRIMARY_1_Y_ATTRIBUTE_ID 0x0012      // Ver.: always
00335 #define ZCL_COLOR_CONTROL_PRIMARY_1_INTENSITY_ATTRIBUTE_ID 0x0013      // Ver.:
    always
00336 #define ZCL_COLOR_CONTROL_PRIMARY_2_X_ATTRIBUTE_ID 0x0015      // Ver.: always
00337 #define ZCL_COLOR_CONTROL_PRIMARY_2_Y_ATTRIBUTE_ID 0x0016      // Ver.: always
00338 #define ZCL_COLOR_CONTROL_PRIMARY_2_INTENSITY_ATTRIBUTE_ID 0x0017      // Ver.:
    always
00339 #define ZCL_COLOR_CONTROL_PRIMARY_3_X_ATTRIBUTE_ID 0x0019      // Ver.: always
00340 #define ZCL_COLOR_CONTROL_PRIMARY_3_Y_ATTRIBUTE_ID 0x001A      // Ver.: always
00341 #define ZCL_COLOR_CONTROL_PRIMARY_3_INTENSITY_ATTRIBUTE_ID 0x001B      // Ver.:
    always
00342 #define ZCL_COLOR_CONTROL_PRIMARY_4_X_ATTRIBUTE_ID 0x0020      // Ver.: always
00343 #define ZCL_COLOR_CONTROL_PRIMARY_4_Y_ATTRIBUTE_ID 0x0021      // Ver.: always
00344 #define ZCL_COLOR_CONTROL_PRIMARY_4_INTENSITY_ATTRIBUTE_ID 0x0022      // Ver.:
    always
00345 #define ZCL_COLOR_CONTROL_PRIMARY_5_X_ATTRIBUTE_ID 0x0024      // Ver.: always
00346 #define ZCL_COLOR_CONTROL_PRIMARY_5_Y_ATTRIBUTE_ID 0x0025      // Ver.: always
00347 #define ZCL_COLOR_CONTROL_PRIMARY_5_INTENSITY_ATTRIBUTE_ID 0x0026      // Ver.:
    always
00348 #define ZCL_COLOR_CONTROL_PRIMARY_6_X_ATTRIBUTE_ID 0x0028      // Ver.: always
00349 #define ZCL_COLOR_CONTROL_PRIMARY_6_Y_ATTRIBUTE_ID 0x0029      // Ver.: always
00350 #define ZCL_COLOR_CONTROL_PRIMARY_6_INTENSITY_ATTRIBUTE_ID 0x002A      // Ver.:
    always
00351 #define ZCL_COLOR_CONTROL_WHITE_POINT_X_ATTRIBUTE_ID 0x0030      // Ver.: always
00352 #define ZCL_COLOR_CONTROL_WHITE_POINT_Y_ATTRIBUTE_ID 0x0031      // Ver.: always
00353 #define ZCL_COLOR_CONTROL_COLOR_POINT_R_X_ATTRIBUTE_ID 0x0032      // Ver.:
    always
00354 #define ZCL_COLOR_CONTROL_COLOR_POINT_R_Y_ATTRIBUTE_ID 0x0033      // Ver.:
    always
00355 #define ZCL_COLOR_CONTROL_COLOR_POINT_R_INTENSITY_ATTRIBUTE_ID 0x0034      //
    Ver.: always

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00356 #define ZCL_COLOR_CONTROL_COLOR_POINT_G_X_ATTRIBUTE_ID 0x0036      // Ver.:
        always
00357 #define ZCL_COLOR_CONTROL_COLOR_POINT_G_Y_ATTRIBUTE_ID 0x0037      // Ver.:
        always
00358 #define ZCL_COLOR_CONTROL_COLOR_POINT_G_INTENSITY_ATTRIBUTE_ID 0x0038    //
        Ver.: always
00359 #define ZCL_COLOR_CONTROL_COLOR_POINT_B_X_ATTRIBUTE_ID 0x003A      // Ver.:
        always
00360 #define ZCL_COLOR_CONTROL_COLOR_POINT_B_Y_ATTRIBUTE_ID 0x003B      // Ver.:
        always
00361 #define ZCL_COLOR_CONTROL_COLOR_POINT_B_INTENSITY_ATTRIBUTE_ID 0x003C    //
        Ver.: always
00362 #define ZCL_COLOR_CONTROL_ENHANCED_CURRENT_HUE_ATTRIBUTE_ID 0x4000      // Ver.:
        since zll-1.0-11-0037-10
00363 #define ZCL_COLOR_CONTROL_ENHANCED_COLOR_MODE_ATTRIBUTE_ID 0x4001      // Ver.:
        since zll-1.0-11-0037-10
00364 #define ZCL_COLOR_CONTROL_COLOR_LOOP_ACTIVE_ATTRIBUTE_ID 0x4002      // Ver.:
        since zll-1.0-11-0037-10
00365 #define ZCL_COLOR_CONTROL_COLOR_LOOP_DIRECTION_ATTRIBUTE_ID 0x4003      // Ver.:
        since zll-1.0-11-0037-10
00366 #define ZCL_COLOR_CONTROL_COLOR_LOOP_TIME_ATTRIBUTE_ID 0x4004      // Ver.: since
        zll-1.0-11-0037-10
00367 #define ZCL_COLOR_CONTROL_COLOR_LOOP_START_ENHANCED_HUE_ATTRIBUTE_ID 0x4005
        // Ver.: since zll-1.0-11-0037-10
00368 #define ZCL_COLOR_CONTROL_COLOR_LOOP_STORED_ENHANCED_HUE_ATTRIBUTE_ID 0x4006
        // Ver.: since zll-1.0-11-0037-10
00369 #define ZCL_COLOR_CONTROL_COLOR_CAPABILITIES_ATTRIBUTE_ID 0x400A      // Ver.:
        since zll-1.0-11-0037-10
00370 #define ZCL_COLOR_CONTROL_COLOR_TEMP_PHYSICAL_MIN_ATTRIBUTE_ID 0x400B    //
        Ver.: since zll-1.0-11-0037-10
00371 #define ZCL_COLOR_CONTROL_COLOR_TEMP_PHYSICAL_MAX_ATTRIBUTE_ID 0x400C    //
        Ver.: since zll-1.0-11-0037-10
00372
00373
00374 // Attribute types for cluster: Ballast Configuration
00375 // Cluster specification level: zcl-1.0-07-5123-03
00376
00377 // Server attributes
00378 #define ZCL_PHYSICAL_MIN_LEVEL_ATTRIBUTE_ID 0x0000      // Ver.: always
00379 #define ZCL_PHYSICAL_MAX_LEVEL_ATTRIBUTE_ID 0x0001      // Ver.: always
00380 #define ZCL_BALLAST_STATUS_ATTRIBUTE_ID 0x0002      // Ver.: always
00381 #define ZCL_MIN_LEVEL_ATTRIBUTE_ID 0x0010      // Ver.: always
00382 #define ZCL_MAX_LEVEL_ATTRIBUTE_ID 0x0011      // Ver.: always
00383 #define ZCL_POWER_ON_LEVEL_ATTRIBUTE_ID 0x0012      // Ver.: always
00384 #define ZCL_POWER_ON_FADE_TIME_ATTRIBUTE_ID 0x0013      // Ver.: always
00385 #define ZCL_INTRINSIC_BALLAST_FACTOR_ATTRIBUTE_ID 0x0014      // Ver.: always
00386 #define ZCL_BALLAST_FACTOR_ADJUSTMENT_ATTRIBUTE_ID 0x0015      // Ver.: always
00387 #define ZCL_LAMP_QUALITY_ATTRIBUTE_ID 0x0020      // Ver.: always
00388 #define ZCL_LAMP_TYPE_ATTRIBUTE_ID 0x0030      // Ver.: always
00389 #define ZCL_LAMP_MANUFACTURER_ATTRIBUTE_ID 0x0031      // Ver.: always
00390 #define ZCL_LAMP_RATED_HOURS_ATTRIBUTE_ID 0x0032      // Ver.: always
00391 #define ZCL_LAMP_BURN_HOURS_ATTRIBUTE_ID 0x0033      // Ver.: always
00392 #define ZCL_LAMP_ALARM_MODE_ATTRIBUTE_ID 0x0034      // Ver.: always
00393 #define ZCL_LAMP_BURN_HOURS_TRIP_POINT_ATTRIBUTE_ID 0x0035      // Ver.: always
00394
00395
00396 // Attribute types for cluster: Illuminance Measurement
00397 // Cluster specification level: zcl-1.0-07-5123-03
00398
00399 // Server attributes
00400 #define ZCL_ILLUM_MEASURED_VALUE_ATTRIBUTE_ID 0x0000      // Ver.: always
00401 #define ZCL_ILLUM_MIN_MEASURED_VALUE_ATTRIBUTE_ID 0x0001      // Ver.: always
00402 #define ZCL_ILLUM_MAX_MEASURED_VALUE_ATTRIBUTE_ID 0x0002      // Ver.: always
00403 #define ZCL_ILLUM_TOLERANCE_ATTRIBUTE_ID 0x0003      // Ver.: always
00404 #define ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_ATTRIBUTE_ID 0x0004      // Ver.:
        always
00405
00406
00407 // Attribute types for cluster: Illuminance Level Sensing
00408 // Cluster specification level: zcl-1.0-07-5123-03
00409
00410 // Server attributes
00411 #define ZCL_LEVEL_STATUS_ATTRIBUTE_ID 0x0000      // Ver.: always
00412 #define ZCL_SENSING_LIGHT_SENSOR_TYPE_ATTRIBUTE_ID 0x0001      // Ver.: always
00413 #define ZCL_ILLUMINANCE_TARGET_LEVEL_ATTRIBUTE_ID 0x0010      // Ver.: always
00414
00415
00416 // Attribute types for cluster: Temperature Measurement
00417 // Cluster specification level: zcl-1.0-07-5123-03
00418

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00419 // Server attributes
00420 #define ZCL_TEMP_MEASURED_VALUE_ATTRIBUTE_ID 0x0000    // Ver.: always
00421 #define ZCL_TEMP_MIN_MEASURED_VALUE_ATTRIBUTE_ID 0x0001    // Ver.: always
00422 #define ZCL_TEMP_MAX_MEASURED_VALUE_ATTRIBUTE_ID 0x0002    // Ver.: always
00423 #define ZCL_TEMP_TOLERANCE_ATTRIBUTE_ID 0x0003    // Ver.: always
00424
00425
00426 // Attribute types for cluster: Pressure Measurement
00427 // Cluster specification level: zcl-1.0-07-5123-03
00428
00429 // Server attributes
00430 #define ZCL_PRESSURE_MEASURED_VALUE_ATTRIBUTE_ID 0x0000    // Ver.: always
00431 #define ZCL_PRESSURE_MIN_MEASURED_VALUE_ATTRIBUTE_ID 0x0001    // Ver.: always
00432 #define ZCL_PRESSURE_MAX_MEASURED_VALUE_ATTRIBUTE_ID 0x0002    // Ver.: always
00433 #define ZCL_PRESSURE_TOLERANCE_ATTRIBUTE_ID 0x0003    // Ver.: always
00434 #define ZCL_PRESSURE_SCALED_VALUE_ATTRIBUTE_ID 0x0010    // Ver.: always
00435 #define ZCL_PRESSURE_MIN_SCALED_VALUE_ATTRIBUTE_ID 0x0011    // Ver.: always
00436 #define ZCL_PRESSURE_MAX_SCALED_VALUE_ATTRIBUTE_ID 0x0012    // Ver.: always
00437 #define ZCL_PRESSURE_SCALED_TOLERANCE_ATTRIBUTE_ID 0x0013    // Ver.: always
00438 #define ZCL_PRESSURE_SCALE_ATTRIBUTE_ID 0x0014    // Ver.: always
00439
00440
00441 // Attribute types for cluster: Flow Measurement
00442 // Cluster specification level: zcl-1.0-07-5123-03
00443
00444 // Server attributes
00445 #define ZCL_FLOW_MEASURED_VALUE_ATTRIBUTE_ID 0x0000    // Ver.: always
00446 #define ZCL_FLOW_MIN_MEASURED_VALUE_ATTRIBUTE_ID 0x0001    // Ver.: always
00447 #define ZCL_FLOW_MAX_MEASURED_VALUE_ATTRIBUTE_ID 0x0002    // Ver.: always
00448 #define ZCL_FLOW_TOLERANCE_ATTRIBUTE_ID 0x0003    // Ver.: always
00449
00450
00451 // Attribute types for cluster: Relative Humidity Measurement
00452 // Cluster specification level: zcl-1.0-07-5123-03
00453
00454 // Server attributes
00455 #define ZCL_RELATIVE_HUMIDITY_MEASURED_VALUE_ATTRIBUTE_ID 0x0000    // Ver.:
always
00456 #define ZCL_RELATIVE_HUMIDITY_MIN_MEASURED_VALUE_ATTRIBUTE_ID 0x0001    //
Ver.: always
00457 #define ZCL_RELATIVE_HUMIDITY_MAX_MEASURED_VALUE_ATTRIBUTE_ID 0x0002    //
Ver.: always
00458 #define ZCL_RELATIVE_HUMIDITY_TOLERANCE_ATTRIBUTE_ID 0x0003    // Ver.: always
00459
00460
00461 // Attribute types for cluster: Occupancy Sensing
00462 // Cluster specification level: zcl-1.0-07-5123-03
00463
00464 // Server attributes
00465 #define ZCL_OCCUPANCY_ATTRIBUTE_ID 0x0000    // Ver.: always
00466 #define ZCL_OCCUPANCY_SENSOR_TYPE_ATTRIBUTE_ID 0x0001    // Ver.: always
00467 #define ZCL_PIR_OCCUPIED_TO_UNOCCUPIED_DELAY_ATTRIBUTE_ID 0x0010    // Ver.:
always
00468 #define ZCL_PIR_UNOCCUPIED_TO_OCCUPIED_DELAY_ATTRIBUTE_ID 0x0011    // Ver.:
always
00469 #define ZCL_PIR_UNOCCUPIED_TO_OCCUPIED_THRESHOLD_ATTRIBUTE_ID 0x0012    //
Ver.: always
00470 #define ZCL_ULTRASONIC_OCCUPIED_TO_UNOCCUPIED_DELAY_ATTRIBUTE_ID 0x0020    //
Ver.: always
00471 #define ZCL_ULTRASONIC_UNOCCUPIED_TO_OCCUPIED_DELAY_ATTRIBUTE_ID 0x0021    //
Ver.: always
00472 #define ZCL_ULTRASONIC_UNOCCUPIED_TO_OCCUPIED_THRESHOLD_ATTRIBUTE_ID 0x0022
// Ver.: always
00473
00474
00475 // Attribute types for cluster: IAS Zone
00476 // Cluster specification level: zcl-1.0-07-5123-03
00477
00478 // Server attributes
00479 #define ZCL_ZONE_STATE_ATTRIBUTE_ID 0x0000    // Ver.: always
00480 #define ZCL_ZONE_TYPE_ATTRIBUTE_ID 0x0001    // Ver.: always
00481 #define ZCL_ZONE_STATUS_ATTRIBUTE_ID 0x0002    // Ver.: always
00482 #define ZCL_IAS_CIE_ADDRESS_ATTRIBUTE_ID 0x0010    // Ver.: always
00483
00484
00485 // Attribute types for cluster: IAS WD
00486 // Cluster specification level: zcl-1.0-07-5123-03
00487
00488 // Server attributes
00489 #define ZCL_MAX_DURATION_ATTRIBUTE_ID 0x0000    // Ver.: always

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00490
00491
00492 // Attribute types for cluster: Door Lock
00493 // Cluster specification level: zcl-1.0-07-5123-03
00494
00495 // Server attributes
00496 #define ZCL_LOCK_STATE_ATTRIBUTE_ID 0x0000    // Ver.: always
00497 #define ZCL_LOCK_TYPE_ATTRIBUTE_ID 0x0001    // Ver.: always
00498 #define ZCL_ACTUATOR_ENABLED_ATTRIBUTE_ID 0x0002    // Ver.: always
00499 #define ZCL_DOOR_STATE_ATTRIBUTE_ID 0x0003    // Ver.: always
00500 #define ZCL_DOOR_OPEN_EVENTS_ATTRIBUTE_ID 0x0004    // Ver.: always
00501 #define ZCL_DOOR_CLOSED_EVENTS_ATTRIBUTE_ID 0x0005    // Ver.: always
00502 #define ZCL_OPEN_PERIOD_ATTRIBUTE_ID 0x0006    // Ver.: always
00503 #define ZCL_AUTO_RELOCK_TIMEOUT_ATTRIBUTE_ID 0x0012    // Ver.: since
ha-1.2-11-5474-15
00504 #define ZCL_WRONG_CODE_ENTRY_LIMIT_ATTRIBUTE_ID 0x0013    // Ver.: since
ha-1.2-11-5474-15
00505 #define ZCL_SHUT_DOWN_TIME_ATTRIBUTE_ID 0x0014    // Ver.: since
ha-1.2-11-5474-15
00506 #define ZCL_BATTERY_LEVEL_ATTRIBUTE_ID 0x0015    // Ver.: since
ha-1.2-11-5474-15
00507 #define ZCL_SILENT_MODE_ATTRIBUTE_ID 0x0017    // Ver.: since ha-1.2-11-5474-15
00508 #define ZCL_OPERATING_MODE_ATTRIBUTE_ID 0x0018    // Ver.: since
ha-1.2-11-5474-15
00509 #define ZCL_LANGUAGE_ATTRIBUTE_ID 0x0019    // Ver.: since ha-1.2-11-5474-15
00510 #define ZCL_ALL_CODES_LOCKOUT_ATTRIBUTE_ID 0x001A    // Ver.: since
ha-1.2-11-5474-15
00511 #define ZCL_ENABLE_LOGGING_ATTRIBUTE_ID 0x0020    // Ver.: since
ha-1.2-11-5474-15
00512 #define ZCL_NUM_LOG_RECORDS_SUPPORTED_ATTRIBUTE_ID 0x0021    // Ver.: since
ha-1.2-11-5474-15
00513 #define ZCL_NUM_USER_CODES_SUPPORTED_ATTRIBUTE_ID 0x0030    // Ver.: since
ha-1.2-11-5474-15
00514 #define ZCL_NUM_SCHEDULE_SLOTS_PER_USER_ATTRIBUTE_ID 0x0040    // Ver.: since
ha-1.2-11-5474-15
00515 #define ZCL_DOOR_LOCK_ALARM_MASK_ATTRIBUTE_ID 0x0050    // Ver.: since
ha-1.2-11-5474-15
00516
00517
00518 // Attribute types for cluster: Window Covering
00519 // Cluster specification level: zcl-1.0-07-5123-03
00520
00521 // Server attributes
00522 #define ZCL_COVERING_TYPE_ATTRIBUTE_ID 0x0000    // Ver.: always
00523 #define ZCL_LIMIT_LIFT_ATTRIBUTE_ID 0x0001    // Ver.: always
00524 #define ZCL_LIMIT_TILT_ATTRIBUTE_ID 0x0002    // Ver.: always
00525 #define ZCL_CURRENT_LIFT_ATTRIBUTE_ID 0x0003    // Ver.: always
00526 #define ZCL_CURRENT_TILT_ATTRIBUTE_ID 0x0004    // Ver.: always
00527 #define ZCL_NUMBER_LIFT_ATTRIBUTE_ID 0x0005    // Ver.: always
00528 #define ZCL_NUMBER_TILT_ATTRIBUTE_ID 0x0006    // Ver.: always
00529 #define ZCL_CONFIG_STATUS_ATTRIBUTE_ID 0x0007    // Ver.: always
00530 #define ZCL_CURRENT_LIFT_PERCENTAGE_ATTRIBUTE_ID 0x0008    // Ver.: always
00531 #define ZCL_CURRENT_TILT_PERCENTAGE_ATTRIBUTE_ID 0x0009    // Ver.: always
00532 #define ZCL_OPEN_LIMIT_LIFT_ATTRIBUTE_ID 0x0010    // Ver.: always
00533 #define ZCL_CLOSED_LIMIT_LIFT_ATTRIBUTE_ID 0x0011    // Ver.: always
00534 #define ZCL_OPEN_LIMIT_TILT_ATTRIBUTE_ID 0x0012    // Ver.: always
00535 #define ZCL_CLOSED_LIMIT_TILT_ATTRIBUTE_ID 0x0013    // Ver.: always
00536 #define ZCL_VELOCITY_LIFT_ATTRIBUTE_ID 0x0014    // Ver.: always
00537 #define ZCL_ACCELERATION_LIFT_ATTRIBUTE_ID 0x0015    // Ver.: always
00538 #define ZCL_DECELERATION_LIFT_ATTRIBUTE_ID 0x0016    // Ver.: always
00539 #define ZCL_MODE_ATTRIBUTE_ID 0x0017    // Ver.: always
00540 #define ZCL_SETPOINTS_LIFT_ATTRIBUTE_ID 0x0018    // Ver.: always
00541 #define ZCL_SETPOINTS_TILT_ATTRIBUTE_ID 0x0019    // Ver.: always
00542
00543
00544 // Attribute types for cluster: Power Profile
00545 // Cluster specification level: zcl-1.0-07-5123-03
00546
00547 // Server attributes
00548 #define ZCL_TOTAL_PROFILE_NUM_ATTRIBUTE_ID 0x0000    // Ver.: always
00549 #define ZCL_MULTIPLE_SCHEDULING_ATTRIBUTE_ID 0x0001    // Ver.: always
00550 #define ZCL_ENERGY_FORMATTING_ATTRIBUTE_ID 0x0002    // Ver.: always
00551
00552
00553 // Attribute types for cluster: Appliance Control
00554 // Cluster specification level: zcl-1.0-07-5123-03
00555
00556 // Server attributes
00557 #define ZCL_APPLIANCE_STATUS_ATTRIBUTE_ID 0x0000    // Ver.: always
00558 #define ZCL_REMOTE_ENABLE_FLAGS_ATTRIBUTE_ID 0x0001    // Ver.: always

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00559 #define ZCL_APPLIANCE_STATUS_2_ATTRIBUTE_ID 0x0002    // Ver.: always
00560 #define ZCL_START_TIME_ATTRIBUTE_ID 0x0100    // Ver.: always
00561 #define ZCL_FINISH_TIME_ATTRIBUTE_ID 0x0101    // Ver.: always
00562 #define ZCL_REMAINING_TIME_ATTRIBUTE_ID 0x0102    // Ver.: always
00563
00564
00565 // Attribute types for cluster: Poll Control
00566 // Cluster specification level: zcl-1.0-07-5123-03
00567
00568 // Server attributes
00569 #define ZCL_CHECK_IN_INTERVAL_ATTRIBUTE_ID 0x0000    // Ver.: always
00570 #define ZCL_LONG_POLL_INTERVAL_ATTRIBUTE_ID 0x0001    // Ver.: always
00571 #define ZCL_SHORT_POLL_INTERVAL_ATTRIBUTE_ID 0x0002    // Ver.: always
00572 #define ZCL_FAST_POLL_TIMEOUT_ATTRIBUTE_ID 0x0003    // Ver.: always
00573 #define ZCL_CHECK_IN_INTERVAL_MIN_ATTRIBUTE_ID 0x0004    // Ver.: always
00574 #define ZCL_LONG_POLL_INTERVAL_MIN_ATTRIBUTE_ID 0x0005    // Ver.: always
00575 #define ZCL_FAST_POLL_TIMEOUT_MAX_ATTRIBUTE_ID 0x0006    // Ver.: always
00576
00577
00578 // Attribute types for cluster: Appliance Identification
00579 // Cluster specification level: UNKNOWN
00580
00581 // Server attributes
00582 #define ZCL_BASIC_IDENTIFICATION_ATTRIBUTE_ID 0x0000    // Ver.: always
00583 #define ZCL_APPLIANCE_COMPANY_NAME_ATTRIBUTE_ID 0x0010    // Ver.: always
00584 #define ZCL_COMPANY_ID_ATTRIBUTE_ID 0x0011    // Ver.: always
00585 #define ZCL_BRAND_NAME_ATTRIBUTE_ID 0x0012    // Ver.: always
00586 #define ZCL_BRAND_ID_ATTRIBUTE_ID 0x0013    // Ver.: always
00587 #define ZCL_APPLIANCE_MODEL_ATTRIBUTE_ID 0x0014    // Ver.: always
00588 #define ZCL_APPLIANCE_PART_NUMBER_ATTRIBUTE_ID 0x0015    // Ver.: always
00589 #define ZCL_APPLIANCE_PRODUCT_REVISION_ATTRIBUTE_ID 0x0016    // Ver.: always
00590 #define ZCL_APPLIANCE_SOFTWARE_REVISION_ATTRIBUTE_ID 0x0017    // Ver.: always
00591 #define ZCL_PRODUCT_TYPE_NAME_ATTRIBUTE_ID 0x0018    // Ver.: always
00592 #define ZCL_PRODUCT_TYPE_ID_ATTRIBUTE_ID 0x0019    // Ver.: always
00593 #define ZCL_CECED_SPECIFICATION_VERSION_ATTRIBUTE_ID 0x001A    // Ver.: always
00594
00595
00596 // Attribute types for cluster: Meter Identification
00597 // Cluster specification level: UNKNOWN
00598
00599 // Server attributes
00600 #define ZCL_METER_COMPANY_NAME_ATTRIBUTE_ID 0x0000    // Ver.: always
00601 #define ZCL_METER_TYPE_ID_ATTRIBUTE_ID 0x0001    // Ver.: always
00602 #define ZCL_DATA_QUALITY_ID_ATTRIBUTE_ID 0x0004    // Ver.: always
00603 #define ZCL_CUSTOMER_NAME_ATTRIBUTE_ID 0x0005    // Ver.: always
00604 #define ZCL_METER_MODEL_ATTRIBUTE_ID 0x0006    // Ver.: always
00605 #define ZCL_METER_PART_NUMBER_ATTRIBUTE_ID 0x0007    // Ver.: always
00606 #define ZCL_METER_PRODUCT_REVISION_ATTRIBUTE_ID 0x0008    // Ver.: always
00607 #define ZCL_METER_SOFTWARE_REVISION_ATTRIBUTE_ID 0x000A    // Ver.: always
00608 #define ZCL.Utility_NAME_ATTRIBUTE_ID 0x000B    // Ver.: always
00609 #define ZCL_POD_ATTRIBUTE_ID 0x000C    // Ver.: always
00610 #define ZCL_AVAILABLE_POWER_ATTRIBUTE_ID 0x000D    // Ver.: always
00611 #define ZCL_POWER_THRESHOLD_ATTRIBUTE_ID 0x000E    // Ver.: always
00612
00613
00614 // Attribute types for cluster: Appliance Events and Alert
00615 // Cluster specification level: UNKNOWN
00616
00617 // Server attributes
00618 #define ZCL_APPLIANCE_EVENT_LIST_ATTRIBUTE_ID 0x0000    // Ver.: always
00619
00620
00621 // Attribute types for cluster: Generic Tunnel
00622 // Cluster specification level: cba-1.0-05-3516-12
00623
00624 // Server attributes
00625 #define ZCL_MAXIMUM_INCOMING_TRANSFER_SIZE_ATTRIBUTE_ID 0x0001    // Ver.:
always
00626 #define ZCL_MAXIMUM_OUTGOING_TRANSFER_SIZE_ATTRIBUTE_ID 0x0002    // Ver.:
always
00627 #define ZCL_PROTOCOL_ADDRESS_ATTRIBUTE_ID 0x0003    // Ver.: always
00628
00629
00630 // Attribute types for cluster: Over the Air Bootloading Cluster
00631 // Cluster specification level: zcl-1.0-07-5123-03
00632
00633 // Client attributes
00634 #define ZCL_UPGRADE_SERVER_ID_ATTRIBUTE_ID 0x0000    // Ver.: always
00635 #define ZCL_FILE_OFFSET_ATTRIBUTE_ID 0x0001    // Ver.: always
00636 #define ZCL_CURRENT_FILE_VERSION_ATTRIBUTE_ID 0x0002    // Ver.: always

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00637 #define ZCL_CURRENT_ZIGBEE_STACK_VERSION_ATTRIBUTE_ID 0x0003    // Ver.: always
00638 #define ZCL_DOWNLOADED_FILE_VERSION_ATTRIBUTE_ID 0x0004    // Ver.: always
00639 #define ZCL_DOWNLOADED_ZIGBEE_STACK_VERSION_ATTRIBUTE_ID 0x0005    // Ver.:
00640     always
00640 #define ZCL_IMAGE_UPGRADE_STATUS_ATTRIBUTE_ID 0x0006    // Ver.: always
00641 #define ZCL_MANUFACTURER_ID_ATTRIBUTE_ID 0x0007    // Ver.: always
00642 #define ZCL_IMAGE_TYPE_ID_ATTRIBUTE_ID 0x0008    // Ver.: always
00643
00644
00645 // Attribute types for cluster: Demand Response and Load Control
00646 // Cluster specification level: se-1.1-07-5356-17
00647
00648 // Client attributes
00649 #define ZCL_UTILITY_ENROLLMENT_GROUP_ATTRIBUTE_ID 0x0000    // Ver.: always
00650 #define ZCL_START_RANDOMIZE_MINUTES_ATTRIBUTE_ID 0x0001    // Ver.: always
00651 #define ZCL_STOP_RANDOMIZE_MINUTES_ATTRIBUTE_ID 0x0002    // Ver.: always
00652 #define ZCL_DEVICE_CLASS_VALUE_ATTRIBUTE_ID 0x0003    // Ver.: always
00653
00654
00655 // Attribute types for cluster: Simple Metering
00656 // Cluster specification level: se-1.1-07-5356-17
00657
00658 // Server attributes
00659 #define ZCL_CURRENT_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0000    // Ver.: always
00660 #define ZCL_CURRENT_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0001    // Ver.: always
00661 #define ZCL_CURRENT_MAX_DEMAND_DELIVERED_ATTRIBUTE_ID 0x0002    // Ver.: always
00662 #define ZCL_CURRENT_MAX_DEMAND_RECEIVED_ATTRIBUTE_ID 0x0003    // Ver.: always
00663 #define ZCL_DFT_SUMMATION_ATTRIBUTE_ID 0x0004    // Ver.: always
00664 #define ZCL_DAILY_FREEZE_TIME_ATTRIBUTE_ID 0x0005    // Ver.: always
00665 #define ZCL_POWER_FACTOR_ATTRIBUTE_ID 0x0006    // Ver.: always
00666 #define ZCL_READING_SNAP_SHOT_TIME_ATTRIBUTE_ID 0x0007    // Ver.: always
00667 #define ZCL_CURRENT_MAX_DEMAND_DELIVERED_TIME_ATTRIBUTE_ID 0x0008    // Ver.:
00668     always
00668 #define ZCL_CURRENT_MAX_DEMAND_RECEIVED_TIME_ATTRIBUTE_ID 0x0009    // Ver.:
00669     always
00669 #define ZCL_DEFAULT_UPDATE_PERIOD_ATTRIBUTE_ID 0x000A    // Ver.: always
00670 #define ZCL_FAST_POLL_UPDATE_PERIOD_ATTRIBUTE_ID 0x000B    // Ver.: always
00671 #define ZCL_CURRENT_BLOCK_PERIOD_CONSUMPTION_DELIVERED_ATTRIBUTE_ID 0x000C
00672     // Ver.: always
00672 #define ZCL_DAILY_CONSUMPTION_TARGET_ATTRIBUTE_ID 0x000D    // Ver.: always
00673 #define ZCL_CURRENT_BLOCK_ATTRIBUTE_ID 0x000E    // Ver.: always
00674 #define ZCL_PROFILE_INTERVAL_PERIOD_ATTRIBUTE_ID 0x000F    // Ver.: always
00675 #define ZCL_INTERVAL_READ_REPORTING_PERIOD_ATTRIBUTE_ID 0x0010    // Ver.:
00676     always
00676 #define ZCL_PRESET_READING_TIME_ATTRIBUTE_ID 0x0011    // Ver.: always
00677 #define ZCL_VOLUME_PER_REPORT_ATTRIBUTE_ID 0x0012    // Ver.: always
00678 #define ZCL_FLOW_RESTRICTION_ATTRIBUTE_ID 0x0013    // Ver.: always
00679 #define ZCL_SUPPLY_STATUS_ATTRIBUTE_ID 0x0014    // Ver.: always
00680 #define ZCL_CURRENT_INLET_ENERGY_CARRIER_SUMMATION_ATTRIBUTE_ID 0x0015    //
00681     Ver.: always
00681 #define ZCL_CURRENT_OUTLET_ENERGY_CARRIER_SUMMATION_ATTRIBUTE_ID 0x0016    //
00682     Ver.: always
00682 #define ZCL_INLET_TEMPERATURE_ATTRIBUTE_ID 0x0017    // Ver.: always
00683 #define ZCL_OUTLET_TEMPERATURE_ATTRIBUTE_ID 0x0018    // Ver.: always
00684 #define ZCL_CONTROL_TEMPERATURE_ATTRIBUTE_ID 0x0019    // Ver.: always
00685 #define ZCL_CURRENT_INLET_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x001A    // Ver.:
00686     always
00686 #define ZCL_CURRENT_OUTLET_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x001B    //
00687     Ver.: always
00687 #define ZCL_CURRENT_TIER1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0100    // Ver.:
00688     always
00688 #define ZCL_CURRENT_TIER1_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0101    // Ver.:
00689     always
00689 #define ZCL_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0102    // Ver.:
00690     always
00690 #define ZCL_CURRENT_TIER2_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0103    // Ver.:
00691     always
00691 #define ZCL_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0104    // Ver.:
00692     always
00692 #define ZCL_CURRENT_TIER3_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0105    // Ver.:
00693     always
00693 #define ZCL_CURRENT_TIER4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0106    // Ver.:
00694     always
00694 #define ZCL_CURRENT_TIER4_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0107    // Ver.:
00695     always
00695 #define ZCL_CURRENT_TIER5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0108    // Ver.:
00696     always
00696 #define ZCL_CURRENT_TIER5_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0109    // Ver.:
00697     always
00697 #define ZCL_CURRENT_TIER6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x010A    // Ver.:

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    always
00698 #define ZCL_CURRENT_TIER6_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x010B      // Ver.:
    always
00699 #define ZCL_CURRENT_TIER7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x010C      // Ver.:
    always
00700 #define ZCL_CURRENT_TIER7_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x010D      // Ver.:
    always
00701 #define ZCL_CURRENT_TIER8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x010E      // Ver.:
    always
00702 #define ZCL_CURRENT_TIER8_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x010F      // Ver.:
    always
00703 #define ZCL_CURRENT_TIER9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0110      // Ver.:
    always
00704 #define ZCL_CURRENT_TIER9_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0111      // Ver.:
    always
00705 #define ZCL_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0112      // Ver.:
    always
00706 #define ZCL_CURRENT_TIER10_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0113      // Ver.:
    always
00707 #define ZCL_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0114      // Ver.:
    always
00708 #define ZCL_CURRENT_TIER11_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0115      // Ver.:
    always
00709 #define ZCL_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0116      // Ver.:
    always
00710 #define ZCL_CURRENT_TIER12_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0117      // Ver.:
    always
00711 #define ZCL_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0118      // Ver.:
    always
00712 #define ZCL_CURRENT_TIER13_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x0119      // Ver.:
    always
00713 #define ZCL_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x011A      // Ver.:
    always
00714 #define ZCL_CURRENT_TIER14_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x011B      // Ver.:
    always
00715 #define ZCL_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x011C      // Ver.:
    always
00716 #define ZCL_CURRENT_TIER15_SUMMATION_RECEIVED_ATTRIBUTE_ID 0x011D      // Ver.:
    always
00717 #define ZCL_STATUS_ATTRIBUTE_ID 0x0200      // Ver.: always
00718 #define ZCL_REMAINING_BATTERY_LIFE_ATTRIBUTE_ID 0x0201      // Ver.: always
00719 #define ZCL_HOURS_IN_OPERATION_ATTRIBUTE_ID 0x0202      // Ver.: always
00720 #define ZCL_HOURS_IN_FAULT_ATTRIBUTE_ID 0x0203      // Ver.: always
00721 #define ZCL_UNIT_OF_MEASURE_ATTRIBUTE_ID 0x0300      // Ver.: always
00722 #define ZCL_MULTIPLIER_ATTRIBUTE_ID 0x0301      // Ver.: always
00723 #define ZCL_DIVISOR_ATTRIBUTE_ID 0x0302      // Ver.: always
00724 #define ZCL_SUMMATION_FORMATTING_ATTRIBUTE_ID 0x0303      // Ver.: always
00725 #define ZCL_DEMAND_FORMATTING_ATTRIBUTE_ID 0x0304      // Ver.: always
00726 #define ZCL_HISTORICAL_CONSUMPTION_FORMATTING_ATTRIBUTE_ID 0x0305      // Ver.:
    always
00727 #define ZCL_METERING_DEVICE_TYPE_ATTRIBUTE_ID 0x0306      // Ver.: always
00728 #define ZCL_SITE_ID_ATTRIBUTE_ID 0x0307      // Ver.: always
00729 #define ZCL_METER_SERIAL_NUMBER_ATTRIBUTE_ID 0x0308      // Ver.: always
00730 #define ZCL_ENERGY_CARRIER_UNIT_OF_MEASURE_ATTRIBUTE_ID 0x0309      // Ver.:
    always
00731 #define ZCL_ENERGY_CARRIER_SUMMATION_FORMATTING_ATTRIBUTE_ID 0x030A      // Ver.:
    always
00732 #define ZCL_ENERGY_CARRIER_DEMAND_FORMATTING_ATTRIBUTE_ID 0x030B      // Ver.:
    always
00733 #define ZCL_TEMPERATURE_UNIT_OF_MEASURE_ATTRIBUTE_ID 0x030C      // Ver.: always
00734 #define ZCL_TEMPERATURE_FORMATTING_ATTRIBUTE_ID 0x030D      // Ver.: always
00735 #define ZCL_INSTANTANEOUS_DEMAND_ATTRIBUTE_ID 0x0400      // Ver.: always
00736 #define ZCL_CURRENT_DAY_CONSUMPTION_DELIVERED_ATTRIBUTE_ID 0x0401      // Ver.:
    always
00737 #define ZCL_CURRENT_DAY_CONSUMPTION_RECEIVED_ATTRIBUTE_ID 0x0402      // Ver.:
    always
00738 #define ZCL_PREVIOUS_DAY_CONSUMPTION_DELIVERED_ATTRIBUTE_ID 0x0403      // Ver.:
    always
00739 #define ZCL_PREVIOUS_DAY_CONSUMPTION_RECEIVED_ATTRIBUTE_ID 0x0404      // Ver.:
    always
00740 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_START_TIME_DELIVERED_ATTRIBUTE_ID
    0x0405      // Ver.: always
00741 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_START_TIME_RECEIVED_ATTRIBUTE_ID
    0x0406      // Ver.: always
00742 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_VALUE_DELIVERED_ATTRIBUTE_ID
    0x0407      // Ver.: always
00743 #define ZCL_CURRENT_PARTIAL_PROFILE_INTERVAL_VALUE_RECEIVED_ATTRIBUTE_ID 0x0408
    // Ver.: always
00744 #define ZCL_CURRENT_DAY_MAX_PRESSURE_ATTRIBUTE_ID 0x0409      // Ver.: always
00745 #define ZCL_CURRENT_DAY_MIN_PRESSURE_ATTRIBUTE_ID 0x040A      // Ver.: always

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00746 #define ZCL_PREVIOUS_DAY_MAX_PRESSURE_ATTRIBUTE_ID 0x040B      // Ver.: always
00747 #define ZCL_PREVIOUS_DAY_MIN_PRESSURE_ATTRIBUTE_ID 0x040C      // Ver.: always
00748 #define ZCL_CURRENT_DAY_MAX_DEMAND_ATTRIBUTE_ID 0x040D      // Ver.: always
00749 #define ZCL_PREVIOUS_DAY_MAX_DEMAND_ATTRIBUTE_ID 0x040E      // Ver.: always
00750 #define ZCL_CURRENT_MONTH_MAX_DEMAND_ATTRIBUTE_ID 0x040F      // Ver.: always
00751 #define ZCL_CURRENT_YEAR_MAX_DEMAND_ATTRIBUTE_ID 0x0410      // Ver.: always
00752 #define ZCL_CURRENT_DAY_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x0411      //
    Ver.: always
00753 #define ZCL_PREVIOUS_DAY_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x0412      //
    Ver.: always
00754 #define ZCL_CURRENT_MONTH_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x0413      //
    Ver.: always
00755 #define ZCL_CURRENT_MONTH_MIN_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x0414      //
    Ver.: always
00756 #define ZCL_CURRENT_YEAR_MAX_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x0415      //
    Ver.: always
00757 #define ZCL_CURRENT_YEAR_MIN_ENERGY_CARRIER_DEMAND_ATTRIBUTE_ID 0x0416      //
    Ver.: always
00758 #define ZCL_MAX_NUMBER_OF_PERIODS_DELIVERED_ATTRIBUTE_ID 0x0500      // Ver.:
    always
00759 #define ZCL_CURRENT_DEMAND_DELIVERED_ATTRIBUTE_ID 0x0600      // Ver.: always
00760 #define ZCL_DEMAND_LIMIT_ATTRIBUTE_ID 0x0601      // Ver.: always
00761 #define ZCL_DEMAND_INTEGRATION_PERIOD_ATTRIBUTE_ID 0x0602      // Ver.: always
00762 #define ZCL_NUMBER_OF_DEMAND_SUBINTERVALS_ATTRIBUTE_ID 0x0603      // Ver.:
    always
00763 #define ZCL_CURRENT_NO_TIER_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0700
    // Ver.: always
00764 #define ZCL_CURRENT_NO_TIER_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0701
    // Ver.: always
00765 #define ZCL_CURRENT_NO_TIER_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0702
    // Ver.: always
00766 #define ZCL_CURRENT_NO_TIER_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0703
    // Ver.: always
00767 #define ZCL_CURRENT_NO_TIER_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0704
    // Ver.: always
00768 #define ZCL_CURRENT_NO_TIER_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0705
    // Ver.: always
00769 #define ZCL_CURRENT_NO_TIER_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0706
    // Ver.: always
00770 #define ZCL_CURRENT_NO_TIER_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0707
    // Ver.: always
00771 #define ZCL_CURRENT_NO_TIER_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0708
    // Ver.: always
00772 #define ZCL_CURRENT_NO_TIER_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0709
    // Ver.: always
00773 #define ZCL_CURRENT_NO_TIER_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x070A
    // Ver.: always
00774 #define ZCL_CURRENT_NO_TIER_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x070B
    // Ver.: always
00775 #define ZCL_CURRENT_NO_TIER_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x070C
    // Ver.: always
00776 #define ZCL_CURRENT_NO_TIER_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x070D
    // Ver.: always
00777 #define ZCL_CURRENT_NO_TIER_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x070E
    // Ver.: always
00778 #define ZCL_CURRENT_NO_TIER_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x070F
    // Ver.: always
00779 #define ZCL_CURRENT_TIER1_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0710      //
    Ver.: always
00780 #define ZCL_CURRENT_TIER1_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0711      //
    Ver.: always
00781 #define ZCL_CURRENT_TIER1_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0712      //
    Ver.: always
00782 #define ZCL_CURRENT_TIER1_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0713      //
    Ver.: always
00783 #define ZCL_CURRENT_TIER1_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0714      //
    Ver.: always
00784 #define ZCL_CURRENT_TIER1_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0715      //
    Ver.: always
00785 #define ZCL_CURRENT_TIER1_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0716      //
    Ver.: always
00786 #define ZCL_CURRENT_TIER1_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0717      //
    Ver.: always
00787 #define ZCL_CURRENT_TIER1_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0718      //
    Ver.: always
00788 #define ZCL_CURRENT_TIER1_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0719      //
    Ver.: always
00789 #define ZCL_CURRENT_TIER1_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x071A      //
    Ver.: always
00790 #define ZCL_CURRENT_TIER1_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x071B      //

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Ver.: always
00791 #define ZCL_CURRENT_TIER1_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x071C // 
Ver.: always
00792 #define ZCL_CURRENT_TIER1_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x071D // 
Ver.: always
00793 #define ZCL_CURRENT_TIER1_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x071E // 
Ver.: always
00794 #define ZCL_CURRENT_TIER1_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x071F // 
Ver.: always
00795 #define ZCL_CURRENT_TIER2_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0720 // 
Ver.: always
00796 #define ZCL_CURRENT_TIER2_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0721 // 
Ver.: always
00797 #define ZCL_CURRENT_TIER2_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0722 // 
Ver.: always
00798 #define ZCL_CURRENT_TIER2_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0723 // 
Ver.: always
00799 #define ZCL_CURRENT_TIER2_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0724 // 
Ver.: always
00800 #define ZCL_CURRENT_TIER2_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0725 // 
Ver.: always
00801 #define ZCL_CURRENT_TIER2_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0726 // 
Ver.: always
00802 #define ZCL_CURRENT_TIER2_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0727 // 
Ver.: always
00803 #define ZCL_CURRENT_TIER2_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0728 // 
Ver.: always
00804 #define ZCL_CURRENT_TIER2_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0729 // 
Ver.: always
00805 #define ZCL_CURRENT_TIER2_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x072A // 
Ver.: always
00806 #define ZCL_CURRENT_TIER2_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x072B // 
Ver.: always
00807 #define ZCL_CURRENT_TIER2_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x072C // 
Ver.: always
00808 #define ZCL_CURRENT_TIER2_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x072D // 
Ver.: always
00809 #define ZCL_CURRENT_TIER2_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x072E // 
Ver.: always
00810 #define ZCL_CURRENT_TIER2_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x072F // 
Ver.: always
00811 #define ZCL_CURRENT_TIER3_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0730 // 
Ver.: always
00812 #define ZCL_CURRENT_TIER3_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0731 // 
Ver.: always
00813 #define ZCL_CURRENT_TIER3_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0732 // 
Ver.: always
00814 #define ZCL_CURRENT_TIER3_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0733 // 
Ver.: always
00815 #define ZCL_CURRENT_TIER3_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0734 // 
Ver.: always
00816 #define ZCL_CURRENT_TIER3_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0735 // 
Ver.: always
00817 #define ZCL_CURRENT_TIER3_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0736 // 
Ver.: always
00818 #define ZCL_CURRENT_TIER3_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0737 // 
Ver.: always
00819 #define ZCL_CURRENT_TIER3_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0738 // 
Ver.: always
00820 #define ZCL_CURRENT_TIER3_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0739 // 
Ver.: always
00821 #define ZCL_CURRENT_TIER3_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x073A // 
Ver.: always
00822 #define ZCL_CURRENT_TIER3_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x073B // 
Ver.: always
00823 #define ZCL_CURRENT_TIER3_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x073C // 
Ver.: always
00824 #define ZCL_CURRENT_TIER3_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x073D // 
Ver.: always
00825 #define ZCL_CURRENT_TIER3_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x073E // 
Ver.: always
00826 #define ZCL_CURRENT_TIER3_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x073F // 
Ver.: always
00827 #define ZCL_CURRENT_TIER4_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0740 // 
Ver.: always
00828 #define ZCL_CURRENT_TIER4_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0741 // 
Ver.: always
00829 #define ZCL_CURRENT_TIER4_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0742 // 
Ver.: always
00830 #define ZCL_CURRENT_TIER4_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0743 // 

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Ver.: always
00831 #define ZCL_CURRENT_TIER4_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0744 // 
Ver.: always
00832 #define ZCL_CURRENT_TIER4_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0745 // 
Ver.: always
00833 #define ZCL_CURRENT_TIER4_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0746 // 
Ver.: always
00834 #define ZCL_CURRENT_TIER4_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0747 // 
Ver.: always
00835 #define ZCL_CURRENT_TIER4_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0748 // 
Ver.: always
00836 #define ZCL_CURRENT_TIER4_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0749 // 
Ver.: always
00837 #define ZCL_CURRENT_TIER4_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x074A // 
Ver.: always
00838 #define ZCL_CURRENT_TIER4_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x074B // 
Ver.: always
00839 #define ZCL_CURRENT_TIER4_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x074C // 
Ver.: always
00840 #define ZCL_CURRENT_TIER4_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x074D // 
Ver.: always
00841 #define ZCL_CURRENT_TIER4_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x074E // 
Ver.: always
00842 #define ZCL_CURRENT_TIER4_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x074F // 
Ver.: always
00843 #define ZCL_CURRENT_TIER5_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0750 // 
Ver.: always
00844 #define ZCL_CURRENT_TIER5_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0751 // 
Ver.: always
00845 #define ZCL_CURRENT_TIER5_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0752 // 
Ver.: always
00846 #define ZCL_CURRENT_TIER5_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0753 // 
Ver.: always
00847 #define ZCL_CURRENT_TIER5_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0754 // 
Ver.: always
00848 #define ZCL_CURRENT_TIER5_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0755 // 
Ver.: always
00849 #define ZCL_CURRENT_TIER5_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0756 // 
Ver.: always
00850 #define ZCL_CURRENT_TIER5_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0757 // 
Ver.: always
00851 #define ZCL_CURRENT_TIER5_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0758 // 
Ver.: always
00852 #define ZCL_CURRENT_TIER5_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0759 // 
Ver.: always
00853 #define ZCL_CURRENT_TIER5_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x075A // 
Ver.: always
00854 #define ZCL_CURRENT_TIER5_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x075B // 
Ver.: always
00855 #define ZCL_CURRENT_TIER5_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x075C // 
Ver.: always
00856 #define ZCL_CURRENT_TIER5_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x075D // 
Ver.: always
00857 #define ZCL_CURRENT_TIER5_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x075E // 
Ver.: always
00858 #define ZCL_CURRENT_TIER5_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x075F // 
Ver.: always
00859 #define ZCL_CURRENT_TIER6_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0760 // 
Ver.: always
00860 #define ZCL_CURRENT_TIER6_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0761 // 
Ver.: always
00861 #define ZCL_CURRENT_TIER6_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0762 // 
Ver.: always
00862 #define ZCL_CURRENT_TIER6_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0763 // 
Ver.: always
00863 #define ZCL_CURRENT_TIER6_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0764 // 
Ver.: always
00864 #define ZCL_CURRENT_TIER6_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0765 // 
Ver.: always
00865 #define ZCL_CURRENT_TIER6_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0766 // 
Ver.: always
00866 #define ZCL_CURRENT_TIER6_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0767 // 
Ver.: always
00867 #define ZCL_CURRENT_TIER6_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0768 // 
Ver.: always
00868 #define ZCL_CURRENT_TIER6_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0769 // 
Ver.: always
00869 #define ZCL_CURRENT_TIER6_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x076A // 
Ver.: always
00870 #define ZCL_CURRENT_TIER6_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x076B // 

```

```

Ver.: always
00871 #define ZCL_CURRENT_TIER6_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x076C // 
Ver.: always
00872 #define ZCL_CURRENT_TIER6_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x076D // 
Ver.: always
00873 #define ZCL_CURRENT_TIER6_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x076E // 
Ver.: always
00874 #define ZCL_CURRENT_TIER6_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x076F // 
Ver.: always
00875 #define ZCL_CURRENT_TIER7_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0770 // 
Ver.: always
00876 #define ZCL_CURRENT_TIER7_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0771 // 
Ver.: always
00877 #define ZCL_CURRENT_TIER7_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0772 // 
Ver.: always
00878 #define ZCL_CURRENT_TIER7_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0773 // 
Ver.: always
00879 #define ZCL_CURRENT_TIER7_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0774 // 
Ver.: always
00880 #define ZCL_CURRENT_TIER7_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0775 // 
Ver.: always
00881 #define ZCL_CURRENT_TIER7_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0776 // 
Ver.: always
00882 #define ZCL_CURRENT_TIER7_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0777 // 
Ver.: always
00883 #define ZCL_CURRENT_TIER7_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0778 // 
Ver.: always
00884 #define ZCL_CURRENT_TIER7_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0779 // 
Ver.: always
00885 #define ZCL_CURRENT_TIER7_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x077A // 
Ver.: always
00886 #define ZCL_CURRENT_TIER7_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x077B // 
Ver.: always
00887 #define ZCL_CURRENT_TIER7_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x077C // 
Ver.: always
00888 #define ZCL_CURRENT_TIER7_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x077D // 
Ver.: always
00889 #define ZCL_CURRENT_TIER7_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x077E // 
Ver.: always
00890 #define ZCL_CURRENT_TIER7_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x077F // 
Ver.: always
00891 #define ZCL_CURRENT_TIER8_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0780 // 
Ver.: always
00892 #define ZCL_CURRENT_TIER8_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0781 // 
Ver.: always
00893 #define ZCL_CURRENT_TIER8_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0782 // 
Ver.: always
00894 #define ZCL_CURRENT_TIER8_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0783 // 
Ver.: always
00895 #define ZCL_CURRENT_TIER8_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0784 // 
Ver.: always
00896 #define ZCL_CURRENT_TIER8_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0785 // 
Ver.: always
00897 #define ZCL_CURRENT_TIER8_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0786 // 
Ver.: always
00898 #define ZCL_CURRENT_TIER8_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0787 // 
Ver.: always
00899 #define ZCL_CURRENT_TIER8_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0788 // 
Ver.: always
00900 #define ZCL_CURRENT_TIER8_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0789 // 
Ver.: always
00901 #define ZCL_CURRENT_TIER8_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x078A // 
Ver.: always
00902 #define ZCL_CURRENT_TIER8_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x078B // 
Ver.: always
00903 #define ZCL_CURRENT_TIER8_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x078C // 
Ver.: always
00904 #define ZCL_CURRENT_TIER8_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x078D // 
Ver.: always
00905 #define ZCL_CURRENT_TIER8_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x078E // 
Ver.: always
00906 #define ZCL_CURRENT_TIER8_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x078F // 
Ver.: always
00907 #define ZCL_CURRENT_TIER9_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0790 // 
Ver.: always
00908 #define ZCL_CURRENT_TIER9_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0791 // 
Ver.: always
00909 #define ZCL_CURRENT_TIER9_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0792 // 
Ver.: always
00910 #define ZCL_CURRENT_TIER9_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0793 // 

```

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Ver.: always
00911 #define ZCL_CURRENT_TIER9_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0794 // 
Ver.: always
00912 #define ZCL_CURRENT_TIER9_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0795 // 
Ver.: always
00913 #define ZCL_CURRENT_TIER9_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0796 // 
Ver.: always
00914 #define ZCL_CURRENT_TIER9_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0797 // 
Ver.: always
00915 #define ZCL_CURRENT_TIER9_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0798 // 
Ver.: always
00916 #define ZCL_CURRENT_TIER9_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x0799 // 
Ver.: always
00917 #define ZCL_CURRENT_TIER9_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x079A // 
Ver.: always
00918 #define ZCL_CURRENT_TIER9_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x079B // 
Ver.: always
00919 #define ZCL_CURRENT_TIER9_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x079C // 
Ver.: always
00920 #define ZCL_CURRENT_TIER9_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x079D // 
Ver.: always
00921 #define ZCL_CURRENT_TIER9_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x079E // 
Ver.: always
00922 #define ZCL_CURRENT_TIER9_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x079F // 
Ver.: always
00923 #define ZCL_CURRENT_TIER10_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A0 // 
Ver.: always
00924 #define ZCL_CURRENT_TIER10_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A1 // 
Ver.: always
00925 #define ZCL_CURRENT_TIER10_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A2 // 
Ver.: always
00926 #define ZCL_CURRENT_TIER10_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A3 // 
Ver.: always
00927 #define ZCL_CURRENT_TIER10_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A4 // 
Ver.: always
00928 #define ZCL_CURRENT_TIER10_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A5 // 
Ver.: always
00929 #define ZCL_CURRENT_TIER10_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A6 // 
Ver.: always
00930 #define ZCL_CURRENT_TIER10_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A7 // 
Ver.: always
00931 #define ZCL_CURRENT_TIER10_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A8 // 
Ver.: always
00932 #define ZCL_CURRENT_TIER10_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07A9 // Ver.: always
00933 #define ZCL_CURRENT_TIER10_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07AA // Ver.: always
00934 #define ZCL_CURRENT_TIER10_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07AB // Ver.: always
00935 #define ZCL_CURRENT_TIER10_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07AC // Ver.: always
00936 #define ZCL_CURRENT_TIER10_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07AD // Ver.: always
00937 #define ZCL_CURRENT_TIER10_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07AE // Ver.: always
00938 #define ZCL_CURRENT_TIER10_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07AF // Ver.: always
00939 #define ZCL_CURRENT_TIER11_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B0 // Ver.: always
00940 #define ZCL_CURRENT_TIER11_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B1 // Ver.: always
00941 #define ZCL_CURRENT_TIER11_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B2 // Ver.: always
00942 #define ZCL_CURRENT_TIER11_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B3 // Ver.: always
00943 #define ZCL_CURRENT_TIER11_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B4 // Ver.: always
00944 #define ZCL_CURRENT_TIER11_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B5 // Ver.: always
00945 #define ZCL_CURRENT_TIER11_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B6 // Ver.: always
00946 #define ZCL_CURRENT_TIER11_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B7 // Ver.: always
00947 #define ZCL_CURRENT_TIER11_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B8 // Ver.: always
00948 #define ZCL_CURRENT_TIER11_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07B9 // Ver.: always
00949 #define ZCL_CURRENT_TIER11_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07BA // Ver.: always
00950 #define ZCL_CURRENT_TIER11_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07BB

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// Ver.: always
00951 #define ZCL_CURRENT_TIER11_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07BC
// Ver.: always
00952 #define ZCL_CURRENT_TIER11_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07BD
// Ver.: always
00953 #define ZCL_CURRENT_TIER11_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07BE
// Ver.: always
00954 #define ZCL_CURRENT_TIER11_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07BF
// Ver.: always
00955 #define ZCL_CURRENT_TIER12_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C0 // Ver.: always
00956 #define ZCL_CURRENT_TIER12_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C1 // Ver.: always
00957 #define ZCL_CURRENT_TIER12_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C2 // Ver.: always
00958 #define ZCL_CURRENT_TIER12_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C3 // Ver.: always
00959 #define ZCL_CURRENT_TIER12_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C4 // Ver.: always
00960 #define ZCL_CURRENT_TIER12_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C5 // Ver.: always
00961 #define ZCL_CURRENT_TIER12_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C6 // Ver.: always
00962 #define ZCL_CURRENT_TIER12_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C7 // Ver.: always
00963 #define ZCL_CURRENT_TIER12_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C8 // Ver.: always
00964 #define ZCL_CURRENT_TIER12_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07C9 // Ver.: always
00965 #define ZCL_CURRENT_TIER12_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07CA // Ver.: always
00966 #define ZCL_CURRENT_TIER12_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07CB // Ver.: always
00967 #define ZCL_CURRENT_TIER12_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07CC // Ver.: always
00968 #define ZCL_CURRENT_TIER12_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07CD // Ver.: always
00969 #define ZCL_CURRENT_TIER12_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07CE // Ver.: always
00970 #define ZCL_CURRENT_TIER12_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07CF // Ver.: always
00971 #define ZCL_CURRENT_TIER13_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D0 // Ver.: always
00972 #define ZCL_CURRENT_TIER13_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D1 // Ver.: always
00973 #define ZCL_CURRENT_TIER13_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D2 // Ver.: always
00974 #define ZCL_CURRENT_TIER13_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D3 // Ver.: always
00975 #define ZCL_CURRENT_TIER13_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D4 // Ver.: always
00976 #define ZCL_CURRENT_TIER13_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D5 // Ver.: always
00977 #define ZCL_CURRENT_TIER13_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D6 // Ver.: always
00978 #define ZCL_CURRENT_TIER13_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D7 // Ver.: always
00979 #define ZCL_CURRENT_TIER13_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D8 // Ver.: always
00980 #define ZCL_CURRENT_TIER13_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07D9 // Ver.: always
00981 #define ZCL_CURRENT_TIER13_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07DA // Ver.: always
00982 #define ZCL_CURRENT_TIER13_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07DB // Ver.: always
00983 #define ZCL_CURRENT_TIER13_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07DC // Ver.: always
00984 #define ZCL_CURRENT_TIER13_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07DD // Ver.: always
00985 #define ZCL_CURRENT_TIER13_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07DE // Ver.: always
00986 #define ZCL_CURRENT_TIER13_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07DF // Ver.: always
00987 #define ZCL_CURRENT_TIER14_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E0 // Ver.: always
00988 #define ZCL_CURRENT_TIER14_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E1 // Ver.: always
00989 #define ZCL_CURRENT_TIER14_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E2 // Ver.: always
00990 #define ZCL_CURRENT_TIER14_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E3 //
```

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Ver.: always
00991 #define ZCL_CURRENT_TIER14_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E4    //
Ver.: always
00992 #define ZCL_CURRENT_TIER14_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E5    //
Ver.: always
00993 #define ZCL_CURRENT_TIER14_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E6    //
Ver.: always
00994 #define ZCL_CURRENT_TIER14_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E7    //
Ver.: always
00995 #define ZCL_CURRENT_TIER14_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E8    //
Ver.: always
00996 #define ZCL_CURRENT_TIER14_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07E9   //
// Ver.: always
00997 #define ZCL_CURRENT_TIER14_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07EA   //
// Ver.: always
00998 #define ZCL_CURRENT_TIER14_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07EB   //
// Ver.: always
00999 #define ZCL_CURRENT_TIER14_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07EC   //
// Ver.: always
01000 #define ZCL_CURRENT_TIER14_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07ED   //
// Ver.: always
01001 #define ZCL_CURRENT_TIER14_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07EE   //
// Ver.: always
01002 #define ZCL_CURRENT_TIER14_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07EF   //
// Ver.: always
01003 #define ZCL_CURRENT_TIER15_BLOCK1_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F0    //
Ver.: always
01004 #define ZCL_CURRENT_TIER15_BLOCK2_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F1    //
Ver.: always
01005 #define ZCL_CURRENT_TIER15_BLOCK3_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F2    //
Ver.: always
01006 #define ZCL_CURRENT_TIER15_BLOCK4_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F3    //
Ver.: always
01007 #define ZCL_CURRENT_TIER15_BLOCK5_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F4    //
Ver.: always
01008 #define ZCL_CURRENT_TIER15_BLOCK6_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F5    //
Ver.: always
01009 #define ZCL_CURRENT_TIER15_BLOCK7_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F6    //
Ver.: always
01010 #define ZCL_CURRENT_TIER15_BLOCK8_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F7    //
Ver.: always
01011 #define ZCL_CURRENT_TIER15_BLOCK9_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F8    //
Ver.: always
01012 #define ZCL_CURRENT_TIER15_BLOCK10_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07F9   //
// Ver.: always
01013 #define ZCL_CURRENT_TIER15_BLOCK11_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07FA   //
// Ver.: always
01014 #define ZCL_CURRENT_TIER15_BLOCK12_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07FB   //
// Ver.: always
01015 #define ZCL_CURRENT_TIER15_BLOCK13_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07FC   //
// Ver.: always
01016 #define ZCL_CURRENT_TIER15_BLOCK14_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07FD   //
// Ver.: always
01017 #define ZCL_CURRENT_TIER15_BLOCK15_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07FE   //
// Ver.: always
01018 #define ZCL_CURRENT_TIER15_BLOCK16_SUMMATION_DELIVERED_ATTRIBUTE_ID 0x07FF   //
// Ver.: always
01019 #define ZCL_GENERIC_ALARM_MASK_ATTRIBUTE_ID 0x0800    // Ver.: always
01020 #define ZCL_ELECTRICITY_ALARM_MASK_ATTRIBUTE_ID 0x0801    // Ver.: always
01021 #define ZCL_GENERIC_FLOW_PRESSURE_ALARM_MASK_ATTRIBUTE_ID 0x0802    // Ver.:
always
01022 #define ZCL_WATER_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID 0x0803    // Ver.: always
01023 #define ZCL_HEAT_AND_COOLING_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID 0x0804    //
Ver.: always
01024 #define ZCL_GAS_SPECIFIC_ALARM_MASK_ATTRIBUTE_ID 0x0805    // Ver.: always
01025 #define ZCL_MIRROR_IEEE_ADDRESS_ATTRIBUTE_ID 0xF000    // Ver.: always
01026 #define ZCL_MIRROR_SYNC_PERIOD_ATTRIBUTE_ID 0xF001    // Ver.: always
01027 #define ZCL_MIRROR_LAST_SYNC_TIME_ATTRIBUTE_ID 0xF002    // Ver.: always
01028
01029
01030 // Attribute types for cluster: Price
01031 // Cluster specification level: se-1.1-07-5356-17
01032
01033 // Client attributes
01034 #define ZCL_PRICE_INCREASE_RANDOMIZE_MINUTES_ATTRIBUTE_ID 0x0000    // Ver.:
always
01035 #define ZCL_PRICE_DECREASE_RANDOMIZE_MINUTES_ATTRIBUTE_ID 0x0001    // Ver.:
always
01036 #define ZCL_COMMODITY_TYPE_CLIENT_ATTRIBUTE_ID 0x0002    // Ver.: always
01037

```

```

01038 // Server attributes
01039 #define ZCL_TIER1_PRICE_LABEL_ATTRIBUTE_ID 0x0000      // Ver.: always
01040 #define ZCL_TIER2_PRICE_LABEL_ATTRIBUTE_ID 0x0001      // Ver.: always
01041 #define ZCL_TIER3_PRICE_LABEL_ATTRIBUTE_ID 0x0002      // Ver.: always
01042 #define ZCL_TIER4_PRICE_LABEL_ATTRIBUTE_ID 0x0003      // Ver.: always
01043 #define ZCL_TIER5_PRICE_LABEL_ATTRIBUTE_ID 0x0004      // Ver.: always
01044 #define ZCL_TIER6_PRICE_LABEL_ATTRIBUTE_ID 0x0005      // Ver.: always
01045 #define ZCL_TIER7_PRICE_LABEL_ATTRIBUTE_ID 0x0006      // Ver.: always
01046 #define ZCL_TIER8_PRICE_LABEL_ATTRIBUTE_ID 0x0007      // Ver.: always
01047 #define ZCL_TIER9_PRICE_LABEL_ATTRIBUTE_ID 0x0008      // Ver.: always
01048 #define ZCL_TIER10_PRICE_LABEL_ATTRIBUTE_ID 0x0009     // Ver.: always
01049 #define ZCL_TIER11_PRICE_LABEL_ATTRIBUTE_ID 0x000A     // Ver.: always
01050 #define ZCL_TIER12_PRICE_LABEL_ATTRIBUTE_ID 0x000B     // Ver.: always
01051 #define ZCL_TIER13_PRICE_LABEL_ATTRIBUTE_ID 0x000C     // Ver.: always
01052 #define ZCL_TIER14_PRICE_LABEL_ATTRIBUTE_ID 0x000D     // Ver.: always
01053 #define ZCL_TIER15_PRICE_LABEL_ATTRIBUTE_ID 0x000E     // Ver.: always
01054 #define ZCL_BLOCK1_THRESHOLD_ATTRIBUTE_ID 0x0100      // Ver.: always
01055 #define ZCL_BLOCK2_THRESHOLD_ATTRIBUTE_ID 0x0101      // Ver.: always
01056 #define ZCL_BLOCK3_THRESHOLD_ATTRIBUTE_ID 0x0102      // Ver.: always
01057 #define ZCL_BLOCK4_THRESHOLD_ATTRIBUTE_ID 0x0103      // Ver.: always
01058 #define ZCL_BLOCK5_THRESHOLD_ATTRIBUTE_ID 0x0104      // Ver.: always
01059 #define ZCL_BLOCK6_THRESHOLD_ATTRIBUTE_ID 0x0105      // Ver.: always
01060 #define ZCL_BLOCK7_THRESHOLD_ATTRIBUTE_ID 0x0106      // Ver.: always
01061 #define ZCL_BLOCK8_THRESHOLD_ATTRIBUTE_ID 0x0107      // Ver.: always
01062 #define ZCL_BLOCK9_THRESHOLD_ATTRIBUTE_ID 0x0108      // Ver.: always
01063 #define ZCL_BLOCK10_THRESHOLD_ATTRIBUTE_ID 0x0109     // Ver.: always
01064 #define ZCL_BLOCK11_THRESHOLD_ATTRIBUTE_ID 0x010A     // Ver.: always
01065 #define ZCL_BLOCK12_THRESHOLD_ATTRIBUTE_ID 0x010B     // Ver.: always
01066 #define ZCL_BLOCK13_THRESHOLD_ATTRIBUTE_ID 0x010C     // Ver.: always
01067 #define ZCL_BLOCK14_THRESHOLD_ATTRIBUTE_ID 0x010D     // Ver.: always
01068 #define ZCL_BLOCK15_THRESHOLD_ATTRIBUTE_ID 0x010E     // Ver.: always
01069 #define ZCL_START_OF_BLOCK_PERIOD_ATTRIBUTE_ID 0x0200   // Ver.: always
01070 #define ZCL_BLOCK_PERIOD_DURATION_ATTRIBUTE_ID 0x0201   // Ver.:
               always
01071 #define ZCL_THRESHOLD_MULTIPLIER_ATTRIBUTE_ID 0x0202   // Ver.: always
01072 #define ZCL_THRESHOLD_DIVISOR_ATTRIBUTE_ID 0x0203   // Ver.: always
01073 #define ZCL_COMMODITY_TYPE_SERVER_ATTRIBUTE_ID 0x0300  // Ver.: always
01074 #define ZCL_STANDING_CHARGE_ATTRIBUTE_ID 0x0301    // Ver.: always
01075 #define ZCL_NO_TIER_BLOCK1_PRICE_ATTRIBUTE_ID 0x0400  // Ver.: always
01076 #define ZCL_NO_TIER_BLOCK2_PRICE_ATTRIBUTE_ID 0x0401  // Ver.: always
01077 #define ZCL_NO_TIER_BLOCK3_PRICE_ATTRIBUTE_ID 0x0402  // Ver.: always
01078 #define ZCL_NO_TIER_BLOCK4_PRICE_ATTRIBUTE_ID 0x0403  // Ver.: always
01079 #define ZCL_NO_TIER_BLOCK5_PRICE_ATTRIBUTE_ID 0x0404  // Ver.: always
01080 #define ZCL_NO_TIER_BLOCK6_PRICE_ATTRIBUTE_ID 0x0405  // Ver.: always
01081 #define ZCL_NO_TIER_BLOCK7_PRICE_ATTRIBUTE_ID 0x0406  // Ver.: always
01082 #define ZCL_NO_TIER_BLOCK8_PRICE_ATTRIBUTE_ID 0x0407  // Ver.: always
01083 #define ZCL_NO_TIER_BLOCK9_PRICE_ATTRIBUTE_ID 0x0408  // Ver.: always
01084 #define ZCL_NO_TIER_BLOCK10_PRICE_ATTRIBUTE_ID 0x0409 // Ver.: always
01085 #define ZCL_NO_TIER_BLOCK11_PRICE_ATTRIBUTE_ID 0x040A // Ver.: always
01086 #define ZCL_NO_TIER_BLOCK12_PRICE_ATTRIBUTE_ID 0x040B // Ver.: always
01087 #define ZCL_NO_TIER_BLOCK13_PRICE_ATTRIBUTE_ID 0x040C // Ver.: always
01088 #define ZCL_NO_TIER_BLOCK14_PRICE_ATTRIBUTE_ID 0x040D // Ver.: always
01089 #define ZCL_NO_TIER_BLOCK15_PRICE_ATTRIBUTE_ID 0x040E // Ver.: always
01090 #define ZCL_NO_TIER_BLOCK16_PRICE_ATTRIBUTE_ID 0x040F // Ver.: always
01091 #define ZCL_TIER1_BLOCK1_PRICE_ATTRIBUTE_ID 0x0410  // Ver.: always
01092 #define ZCL_TIER1_BLOCK2_PRICE_ATTRIBUTE_ID 0x0411  // Ver.: always
01093 #define ZCL_TIER1_BLOCK3_PRICE_ATTRIBUTE_ID 0x0412  // Ver.: always
01094 #define ZCL_TIER1_BLOCK4_PRICE_ATTRIBUTE_ID 0x0413  // Ver.: always
01095 #define ZCL_TIER1_BLOCK5_PRICE_ATTRIBUTE_ID 0x0414  // Ver.: always
01096 #define ZCL_TIER1_BLOCK6_PRICE_ATTRIBUTE_ID 0x0415  // Ver.: always
01097 #define ZCL_TIER1_BLOCK7_PRICE_ATTRIBUTE_ID 0x0416  // Ver.: always
01098 #define ZCL_TIER1_BLOCK8_PRICE_ATTRIBUTE_ID 0x0417  // Ver.: always
01099 #define ZCL_TIER1_BLOCK9_PRICE_ATTRIBUTE_ID 0x0418  // Ver.: always
01100 #define ZCL_TIER1_BLOCK10_PRICE_ATTRIBUTE_ID 0x0419 // Ver.: always
01101 #define ZCL_TIER1_BLOCK11_PRICE_ATTRIBUTE_ID 0x041A // Ver.: always
01102 #define ZCL_TIER1_BLOCK12_PRICE_ATTRIBUTE_ID 0x041B // Ver.: always
01103 #define ZCL_TIER1_BLOCK13_PRICE_ATTRIBUTE_ID 0x041C // Ver.: always
01104 #define ZCL_TIER1_BLOCK14_PRICE_ATTRIBUTE_ID 0x041D // Ver.: always
01105 #define ZCL_TIER1_BLOCK15_PRICE_ATTRIBUTE_ID 0x041E // Ver.: always
01106 #define ZCL_TIER1_BLOCK16_PRICE_ATTRIBUTE_ID 0x041F // Ver.: always
01107 #define ZCL_TIER2_BLOCK1_PRICE_ATTRIBUTE_ID 0x0420 // Ver.: always
01108 #define ZCL_TIER2_BLOCK2_PRICE_ATTRIBUTE_ID 0x0421 // Ver.: always
01109 #define ZCL_TIER2_BLOCK3_PRICE_ATTRIBUTE_ID 0x0422 // Ver.: always
01110 #define ZCL_TIER2_BLOCK4_PRICE_ATTRIBUTE_ID 0x0423 // Ver.: always
01111 #define ZCL_TIER2_BLOCK5_PRICE_ATTRIBUTE_ID 0x0424 // Ver.: always
01112 #define ZCL_TIER2_BLOCK6_PRICE_ATTRIBUTE_ID 0x0425 // Ver.: always
01113 #define ZCL_TIER2_BLOCK7_PRICE_ATTRIBUTE_ID 0x0426 // Ver.: always
01114 #define ZCL_TIER2_BLOCK8_PRICE_ATTRIBUTE_ID 0x0427 // Ver.: always
01115 #define ZCL_TIER2_BLOCK9_PRICE_ATTRIBUTE_ID 0x0428 // Ver.: always
01116 #define ZCL_TIER2_BLOCK10_PRICE_ATTRIBUTE_ID 0x0429 // Ver.: always

```



```

01277 #define ZCL_TIER12_BLOCK11_PRICE_ATTRIBUTE_ID 0x04CA      // Ver.: always
01278 #define ZCL_TIER12_BLOCK12_PRICE_ATTRIBUTE_ID 0x04CB      // Ver.: always
01279 #define ZCL_TIER12_BLOCK13_PRICE_ATTRIBUTE_ID 0x04CC      // Ver.: always
01280 #define ZCL_TIER12_BLOCK14_PRICE_ATTRIBUTE_ID 0x04CD      // Ver.: always
01281 #define ZCL_TIER12_BLOCK15_PRICE_ATTRIBUTE_ID 0x04CE      // Ver.: always
01282 #define ZCL_TIER12_BLOCK16_PRICE_ATTRIBUTE_ID 0x04CF      // Ver.: always
01283 #define ZCL_TIER13_BLOCK1_PRICE_ATTRIBUTE_ID 0x04D0      // Ver.: always
01284 #define ZCL_TIER13_BLOCK2_PRICE_ATTRIBUTE_ID 0x04D1      // Ver.: always
01285 #define ZCL_TIER13_BLOCK3_PRICE_ATTRIBUTE_ID 0x04D2      // Ver.: always
01286 #define ZCL_TIER13_BLOCK4_PRICE_ATTRIBUTE_ID 0x04D3      // Ver.: always
01287 #define ZCL_TIER13_BLOCK5_PRICE_ATTRIBUTE_ID 0x04D4      // Ver.: always
01288 #define ZCL_TIER13_BLOCK6_PRICE_ATTRIBUTE_ID 0x04D5      // Ver.: always
01289 #define ZCL_TIER13_BLOCK7_PRICE_ATTRIBUTE_ID 0x04D6      // Ver.: always
01290 #define ZCL_TIER13_BLOCK8_PRICE_ATTRIBUTE_ID 0x04D7      // Ver.: always
01291 #define ZCL_TIER13_BLOCK9_PRICE_ATTRIBUTE_ID 0x04D8      // Ver.: always
01292 #define ZCL_TIER13_BLOCK10_PRICE_ATTRIBUTE_ID 0x04D9      // Ver.: always
01293 #define ZCL_TIER13_BLOCK11_PRICE_ATTRIBUTE_ID 0x04DA      // Ver.: always
01294 #define ZCL_TIER13_BLOCK12_PRICE_ATTRIBUTE_ID 0x04DB      // Ver.: always
01295 #define ZCL_TIER13_BLOCK13_PRICE_ATTRIBUTE_ID 0x04DC      // Ver.: always
01296 #define ZCL_TIER13_BLOCK14_PRICE_ATTRIBUTE_ID 0x04DD      // Ver.: always
01297 #define ZCL_TIER13_BLOCK15_PRICE_ATTRIBUTE_ID 0x04DE      // Ver.: always
01298 #define ZCL_TIER13_BLOCK16_PRICE_ATTRIBUTE_ID 0x04DF      // Ver.: always
01299 #define ZCL_TIER14_BLOCK1_PRICE_ATTRIBUTE_ID 0x04E0      // Ver.: always
01300 #define ZCL_TIER14_BLOCK2_PRICE_ATTRIBUTE_ID 0x04E1      // Ver.: always
01301 #define ZCL_TIER14_BLOCK3_PRICE_ATTRIBUTE_ID 0x04E2      // Ver.: always
01302 #define ZCL_TIER14_BLOCK4_PRICE_ATTRIBUTE_ID 0x04E3      // Ver.: always
01303 #define ZCL_TIER14_BLOCK5_PRICE_ATTRIBUTE_ID 0x04E4      // Ver.: always
01304 #define ZCL_TIER14_BLOCK6_PRICE_ATTRIBUTE_ID 0x04E5      // Ver.: always
01305 #define ZCL_TIER14_BLOCK7_PRICE_ATTRIBUTE_ID 0x04E6      // Ver.: always
01306 #define ZCL_TIER14_BLOCK8_PRICE_ATTRIBUTE_ID 0x04E7      // Ver.: always
01307 #define ZCL_TIER14_BLOCK9_PRICE_ATTRIBUTE_ID 0x04E8      // Ver.: always
01308 #define ZCL_TIER14_BLOCK10_PRICE_ATTRIBUTE_ID 0x04E9      // Ver.: always
01309 #define ZCL_TIER14_BLOCK11_PRICE_ATTRIBUTE_ID 0x04EA      // Ver.: always
01310 #define ZCL_TIER14_BLOCK12_PRICE_ATTRIBUTE_ID 0x04EB      // Ver.: always
01311 #define ZCL_TIER14_BLOCK13_PRICE_ATTRIBUTE_ID 0x04EC      // Ver.: always
01312 #define ZCL_TIER14_BLOCK14_PRICE_ATTRIBUTE_ID 0x04ED      // Ver.: always
01313 #define ZCL_TIER14_BLOCK15_PRICE_ATTRIBUTE_ID 0x04EE      // Ver.: always
01314 #define ZCL_TIER14_BLOCK16_PRICE_ATTRIBUTE_ID 0x04EF      // Ver.: always
01315 #define ZCL_TIER15_BLOCK1_PRICE_ATTRIBUTE_ID 0x04F0      // Ver.: always
01316 #define ZCL_TIER15_BLOCK2_PRICE_ATTRIBUTE_ID 0x04F1      // Ver.: always
01317 #define ZCL_TIER15_BLOCK3_PRICE_ATTRIBUTE_ID 0x04F2      // Ver.: always
01318 #define ZCL_TIER15_BLOCK4_PRICE_ATTRIBUTE_ID 0x04F3      // Ver.: always
01319 #define ZCL_TIER15_BLOCK5_PRICE_ATTRIBUTE_ID 0x04F4      // Ver.: always
01320 #define ZCL_TIER15_BLOCK6_PRICE_ATTRIBUTE_ID 0x04F5      // Ver.: always
01321 #define ZCL_TIER15_BLOCK7_PRICE_ATTRIBUTE_ID 0x04F6      // Ver.: always
01322 #define ZCL_TIER15_BLOCK8_PRICE_ATTRIBUTE_ID 0x04F7      // Ver.: always
01323 #define ZCL_TIER15_BLOCK9_PRICE_ATTRIBUTE_ID 0x04F8      // Ver.: always
01324 #define ZCL_TIER15_BLOCK10_PRICE_ATTRIBUTE_ID 0x04F9      // Ver.: always
01325 #define ZCL_TIER15_BLOCK11_PRICE_ATTRIBUTE_ID 0x04FA      // Ver.: always
01326 #define ZCL_TIER15_BLOCK12_PRICE_ATTRIBUTE_ID 0x04FB      // Ver.: always
01327 #define ZCL_TIER15_BLOCK13_PRICE_ATTRIBUTE_ID 0x04FC      // Ver.: always
01328 #define ZCL_TIER15_BLOCK14_PRICE_ATTRIBUTE_ID 0x04FD      // Ver.: always
01329 #define ZCL_TIER15_BLOCK15_PRICE_ATTRIBUTE_ID 0x04FE      // Ver.: always
01330 #define ZCL_TIER15_BLOCK16_PRICE_ATTRIBUTE_ID 0x04FF      // Ver.: always
01331
01332
01333 // Attribute types for cluster: Tunneling
01334 // Cluster specification level: se-1.1-07-5356-17
01335
01336 // Server attributes
01337 #define ZCL_CLOSE_TUNNEL_TIMEOUT_ATTRIBUTE_ID 0x0000      // Ver.: always
01338
01339
01340 // Attribute types for cluster: Prepayment
01341 // Cluster specification level: se-1.1-07-5356-17
01342
01343 // Server attributes
01344 #define ZCL_PAYMENT_CONTROL_ATTRIBUTE_ID 0x0000      // Ver.: always
01345 #define ZCL_CREDIT_REMAINING_ATTRIBUTE_ID 0x0001      // Ver.: always
01346 #define ZCL_EMERGENCY_CREDIT_REMAINING_ATTRIBUTE_ID 0x0002      // Ver.: always
01347 #define ZCL_CREDIT_STATUS_ATTRIBUTE_ID 0x0003      // Ver.: always
01348 #define ZCL_TOP_UP_DATE_TIME_1_ATTRIBUTE_ID 0x0100      // Ver.: always
01349 #define ZCL_TOP_UP_AMOUNT_1_ATTRIBUTE_ID 0x0101      // Ver.: always
01350 #define ZCL_ORIGINATING_DEVICE_1_ATTRIBUTE_ID 0x0102      // Ver.: always
01351 #define ZCL_TOP_UP_DATE_TIME_2_ATTRIBUTE_ID 0x0110      // Ver.: always
01352 #define ZCL_TOP_UP_AMOUNT_2_ATTRIBUTE_ID 0x0111      // Ver.: always
01353 #define ZCL_ORIGINATING_DEVICE_2_ATTRIBUTE_ID 0x0112      // Ver.: always
01354 #define ZCL_TOP_UP_DATE_TIME_3_ATTRIBUTE_ID 0x0120      // Ver.: always
01355 #define ZCL_TOP_UP_AMOUNT_3_ATTRIBUTE_ID 0x0121      // Ver.: always
01356 #define ZCL_ORIGINATING_DEVICE_3_ATTRIBUTE_ID 0x0122      // Ver.: always

```

```

01357 #define ZCL_TOP_UP_DATE_TIME_4_ATTRIBUTE_ID 0x0130      // Ver.: always
01358 #define ZCL_TOP_UP_AMOUNT_4_ATTRIBUTE_ID 0x0131      // Ver.: always
01359 #define ZCL_ORIGINATING_DEVICE_4_ATTRIBUTE_ID 0x0132      // Ver.: always
01360 #define ZCL_TOP_UP_DATE_TIME_5_ATTRIBUTE_ID 0x0140      // Ver.: always
01361 #define ZCL_TOP_UP_AMOUNT_5_ATTRIBUTE_ID 0x0141      // Ver.: always
01362 #define ZCL_ORIGINATING_DEVICE_5_ATTRIBUTE_ID 0x0142      // Ver.: always
01363 #define ZCL_FUEL_DEBT_REMAINING_ATTRIBUTE_ID 0x0200      // Ver.: always
01364 #define ZCL_FUEL_DEBT_RECOVERY_RATE_ATTRIBUTE_ID 0x0201      // Ver.: always
01365 #define ZCL_FUEL_DEBT_RECOVERY_PERIOD_ATTRIBUTE_ID 0x0202      // Ver.: always
01366 #define ZCL_NON_FUEL_DEBT_REMAINING_ATTRIBUTE_ID 0x0203      // Ver.: always
01367 #define ZCL_NON_FUEL_DEBT_RECOVERY_RATE_ATTRIBUTE_ID 0x0204      // Ver.: always
01368 #define ZCL_NON_FUEL_DEBT_RECOVERY_PERIOD_ATTRIBUTE_ID 0x0205      // Ver.:
    always
01369 #define ZCL_PROPOSED_CHANGE_PROVIDER_ID_ATTRIBUTE_ID 0x0300      // Ver.: always
01370 #define ZCL_PROPOSED_CHANGE_IMPLEMENTATION_TIME_ATTRIBUTE_ID 0x0301      // Ver.:
    always
01371 #define ZCL_PROPOSED_CHANGE_SUPPLY_STATUS_ATTRIBUTE_ID 0x0302      // Ver.:
    always
01372 #define ZCL_DELAYED_SUPPLY_INTERRUPT_VALUE_REMAINING_ATTRIBUTE_ID 0x0303      //
    Ver.: always
01373 #define ZCL_DELAYED_SUPPLY_INTERRUPT_VALUE_TYPE_ATTRIBUTE_ID 0x0304      // Ver.:
    always
01374
01375
01376 // Attribute types for cluster: Key establishment
01377 // Cluster specification level: se-1.1-07-5356-17
01378
01379 // Client attributes
01380 #define ZCL_KEY_ESTABLISHMENT_SUITE_CLIENT_ATTRIBUTE_ID 0x0000      // Ver.:
    always
01381
01382 // Server attributes
01383 #define ZCL_KEY_ESTABLISHMENT_SUITE_SERVER_ATTRIBUTE_ID 0x0000      // Ver.:
    always
01384
01385
01386 // Attribute types for cluster: Sample Mfg Specific Cluster
01387 // Cluster specification level: UNKNOWN
01388
01389 // Server attributes
01390 #define ZCL_ATTRIBUTE_ONE_ATTRIBUTE_ID 0x0000      // Ver.: always
01391
01392
01393 #endif // __EMBER_AF_ATTRIBUTE_ID__

```

9.13 attribute-size.h File Reference

Variables

- [ZCL_INT8U_ATTRIBUTE_TYPE](#)
- [ZCL_CHAR_STRING_ATTRIBUTE_TYPE](#)
- [ZCL_ENUM8_ATTRIBUTE_TYPE](#)
- [ZCL_BOOLEAN_ATTRIBUTE_TYPE](#)
- [ZCL_BITMAP8_ATTRIBUTE_TYPE](#)
- [ZCL_INT16U_ATTRIBUTE_TYPE](#)
- [ZCL_INT16S_ATTRIBUTE_TYPE](#)
- [ZCL_INT24U_ATTRIBUTE_TYPE](#)
- [ZCL_IEEE_ADDRESS_ATTRIBUTE_TYPE](#)
- [ZCL_UTC_TIME_ATTRIBUTE_TYPE](#)
- [ZCL_INT32S_ATTRIBUTE_TYPE](#)
- [ZCL_INT32U_ATTRIBUTE_TYPE](#)
- [ZCL_DATA8_ATTRIBUTE_TYPE](#)
- [ZCL_BITMAP32_ATTRIBUTE_TYPE](#)
- [ZCL_SECURITY_KEY_ATTRIBUTE_TYPE](#)
- [ZCL_BITMAP16_ATTRIBUTE_TYPE](#)

- [ZCL_INT8S_ATTRIBUTE_TYPE](#)
- [ZCL_ENUM16_ATTRIBUTE_TYPE](#)
- [ZCL_OCTET_STRING_ATTRIBUTE_TYPE](#)
- [ZCL_INT56U_ATTRIBUTE_TYPE](#)
- [ZCL_INT24S_ATTRIBUTE_TYPE](#)
- [ZCL_INT48U_ATTRIBUTE_TYPE](#)

9.13.1 Variable Documentation

9.13.1.1 ZCL_INT8U_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.2 ZCL_CHAR_STRING_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.3 ZCL_ENUM8_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.4 ZCL_BOOLEAN_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.5 ZCL_BITMAP8_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.6 ZCL_INT16U_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.7 ZCL_INT16S_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.8 ZCL_INT24U_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.9 ZCL_IEEE_ADDRESS_ATTRIBUTE_TYPE

Definition at line [8](#) of file [attribute-size.h](#).

9.13.1.10 ZCL_UTC_TIME_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.11 ZCL_INT32S_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.12 ZCL_INT32U_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.13 ZCL_DATA8_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.14 ZCL_BITMAP32_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.15 ZCL_SECURITY_KEY_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.16 ZCL_BITMAP16_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.17 ZCL_INT8S_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.18 ZCL_ENUM16_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.19 ZCL_OCTET_STRING_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.20 ZCL_INT56U_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.21 ZCL_INT24S_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.13.1.22 ZCL_INT48U_ATTRIBUTE_TYPE

Definition at line 8 of file [attribute-size.h](#).

9.14 attribute-size.h

```
00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Used ZCL attribute type sizes
00008 ZCL_INT8U_ATTRIBUTE_TYPE, 1,
00009 ZCL_CHAR_STRING_ATTRIBUTE_TYPE, 16,
00010 ZCL_ENUM8_ATTRIBUTE_TYPE, 1,
00011 ZCL_BOOLEAN_ATTRIBUTE_TYPE, 1,
00012 ZCL_BITMAP8_ATTRIBUTE_TYPE, 1,
00013 ZCL_INT16U_ATTRIBUTE_TYPE, 2,
00014 ZCL_INT16S_ATTRIBUTE_TYPE, 2,
00015 ZCL_INT24U_ATTRIBUTE_TYPE, 3,
00016 ZCL_IEEE_ADDRESS_ATTRIBUTE_TYPE, 8,
00017 ZCL_UTC_TIME_ATTRIBUTE_TYPE, 4,
00018 ZCL_INT32S_ATTRIBUTE_TYPE, 4,
00019 ZCL_INT32U_ATTRIBUTE_TYPE, 4,
00020 ZCL_DATA8_ATTRIBUTE_TYPE, 1,
00021 ZCL_BITMAP32_ATTRIBUTE_TYPE, 4,
00022 ZCL_SECURITY_KEY_ATTRIBUTE_TYPE, 16,
00023 ZCL_BITMAP16_ATTRIBUTE_TYPE, 2,
00024 ZCL_INT8S_ATTRIBUTE_TYPE, 1,
00025 ZCL_ENUM16_ATTRIBUTE_TYPE, 2,
00026 ZCL_OCTET_STRING_ATTRIBUTE_TYPE, 64,
00027 ZCL_INT56U_ATTRIBUTE_TYPE, 7,
00028 ZCL_INT24S_ATTRIBUTE_TYPE, 3,
00029 ZCL_INT48U_ATTRIBUTE_TYPE, 6,
```

9.15 attribute-type.h File Reference

Enumerations

- enum { [ZCL_NO_DATA_ATTRIBUTE_TYPE](#), [ZCL_DATA8_ATTRIBUTE_TYPE](#), [ZCL_DATA16_ATTRIBUTE_TYPE](#), [ZCL_DATA24_ATTRIBUTE_TYPE](#), [ZCL_DATA32_ATTRIBUTE_TYPE](#), [ZCL_DATA40_ATTRIBUTE_TYPE](#), [ZCL_DATA48_ATTRIBUTE_TYPE](#), [ZCL_DATA56_ATTRIBUTE_TYPE](#), [ZCL_DATA64_ATTRIBUTE_TYPE](#), [ZCL_BOOLEAN_ATTRIBUTE_TYPE](#), [ZCL_BITMAP8_ATTRIBUTE_TYPE](#), [ZCL_BITMAP16_ATTRIBUTE_TYPE](#), [ZCL_BITMAP24_ATTRIBUTE_TYPE](#), [ZCL_BITMAP32_ATTRIBUTE_TYPE](#), [ZCL_BITMAP40_ATTRIBUTE_TYPE](#), [ZCL_BITMAP48_ATTRIBUTE_TYPE](#), [ZCL_BITMAP56_ATTRIBUTE_TYPE](#), [ZCL_BITMAP64_ATTRIBUTE_TYPE](#), [ZCL_INT8U_ATTRIBUTE_TYPE](#), [ZCL_INT16U_ATTRIBUTE_TYPE](#), [ZCL_INT24U_ATTRIBUTE_TYPE](#), [ZCL_INT32U_ATTRIBUTE_TYPE](#), [ZCL_INT40U_ATTRIBUTE_TYPE](#), [ZCL_INT48U_ATTRIBUTE_TYPE](#), [ZCL_INT56U_ATTRIBUTE_TYPE](#), [ZCL_INT64U_ATTRIBUTE_TYPE](#), [ZCL_INT8S_ATTRIBUTE_TYPE](#), [ZCL_INT16S_ATTRIBUTE_TYPE](#), [ZCL_INT24S_ATTRIBUTE_TYPE](#), [ZCL_INT32S_ATTRIBUTE_TYPE](#), [ZCL_INT40S_ATTRIBUTE_TYPE](#), [ZCL_INT48S_ATTRIBUTE_TYPE](#), [ZCL_ENUM8_ATTRIBUTE_TYPE](#), [ZCL_INT56S_ATTRIBUTE_TYPE](#), [ZCL_INT64S_ATTRIBUTE_TYPE](#), [ZCL_ENUM16_ATTRIBUTE_TYPE](#), [ZCL_FLOAT_SEMI_ATTRIBUTE_TYPE](#), [ZCL](#)

```
_FLOAT_SINGLE_ATTRIBUTE_TYPE, ZCL_FLOAT_DOUBLE_ATTRIBUTE_TYPE, ZCL_OCTET_STRING_ATTRIBUTE_TYPE, ZCL_CHAR_STRING_ATTRIBUTE_TYPE, ZCL_LONG_OCTET_STRING_ATTRIBUTE_TYPE, ZCL_LONG_CHAR_STRING_ATTRIBUTE_TYPE, ZCL_ARRAY_ATTRIBUTE_TYPE, ZCL_STRUCT_ATTRIBUTE_TYPE, ZCL_SET_ATTRIBUTE_TYPE, ZCL_BAG_ATTRIBUTE_TYPE, ZCL_TIME_OF_DAY_ATTRIBUTE_TYPE, ZCL_DATE_ATTRIBUTE_TYPE, ZCL_UTC_TIME_ATTRIBUTE_TYPE, ZCL_CLUSTER_ID_ATTRIBUTE_TYPE, ZCL_ATTRIBUTE_ID_ATTRIBUTE_TYPE, ZCL_BACNET_OID_ATTRIBUTE_TYPE, ZCL_IEEE_ADDRESS_ATTRIBUTE_TYPE, ZCL_SECURITY_KEY_ATTRIBUTE_TYPE, ZCL_UNKNOWN_ATTRIBUTE_TYPE }
```

9.15.1 Enumeration Type Documentation

9.15.1.1 anonymous enum

Enumerator:

```
ZCL_NO_DATA_ATTRIBUTE_TYPE
ZCL_DATA8_ATTRIBUTE_TYPE
ZCL_DATA16_ATTRIBUTE_TYPE
ZCL_DATA24_ATTRIBUTE_TYPE
ZCL_DATA32_ATTRIBUTE_TYPE
ZCL_DATA40_ATTRIBUTE_TYPE
ZCL_DATA48_ATTRIBUTE_TYPE
ZCL_DATA56_ATTRIBUTE_TYPE
ZCL_DATA64_ATTRIBUTE_TYPE
ZCL_BOOLEAN_ATTRIBUTE_TYPE
ZCL_BITMAP8_ATTRIBUTE_TYPE
ZCL_BITMAP16_ATTRIBUTE_TYPE
ZCL_BITMAP24_ATTRIBUTE_TYPE
ZCL_BITMAP32_ATTRIBUTE_TYPE
ZCL_BITMAP40_ATTRIBUTE_TYPE
ZCL_BITMAP48_ATTRIBUTE_TYPE
ZCL_BITMAP56_ATTRIBUTE_TYPE
ZCL_BITMAP64_ATTRIBUTE_TYPE
ZCL_INT8U_ATTRIBUTE_TYPE
ZCL_INT16U_ATTRIBUTE_TYPE
ZCL_INT24U_ATTRIBUTE_TYPE
ZCL_INT32U_ATTRIBUTE_TYPE
ZCL_INT40U_ATTRIBUTE_TYPE
ZCL_INT48U_ATTRIBUTE_TYPE
ZCL_INT56U_ATTRIBUTE_TYPE
ZCL_INT64U_ATTRIBUTE_TYPE
ZCL_INT8S_ATTRIBUTE_TYPE
ZCL_INT16S_ATTRIBUTE_TYPE
ZCL_INT24S_ATTRIBUTE_TYPE
```

```

ZCL_INT32S_ATTRIBUTE_TYPE
ZCL_INT40S_ATTRIBUTE_TYPE
ZCL_INT48S_ATTRIBUTE_TYPE
ZCL_INT56S_ATTRIBUTE_TYPE
ZCL_INT64S_ATTRIBUTE_TYPE
ZCL_ENUM8_ATTRIBUTE_TYPE
ZCL_ENUM16_ATTRIBUTE_TYPE
ZCL_FLOAT_SEMI_ATTRIBUTE_TYPE
ZCL_FLOAT_SINGLE_ATTRIBUTE_TYPE
ZCL_FLOAT_DOUBLE_ATTRIBUTE_TYPE
ZCL_OCTET_STRING_ATTRIBUTE_TYPE
ZCL_CHAR_STRING_ATTRIBUTE_TYPE
ZCL_LONG_OCTET_STRING_ATTRIBUTE_TYPE
ZCL_LONG_CHAR_STRING_ATTRIBUTE_TYPE
ZCL_ARRAY_ATTRIBUTE_TYPE
ZCL_STRUCT_ATTRIBUTE_TYPE
ZCL_SET_ATTRIBUTE_TYPE
ZCL_BAG_ATTRIBUTE_TYPE
ZCL_TIME_OF_DAY_ATTRIBUTE_TYPE
ZCL_DATE_ATTRIBUTE_TYPE
ZCL_UTC_TIME_ATTRIBUTE_TYPE
ZCL_CLUSTER_ID_ATTRIBUTE_TYPE
ZCL_ATTRIBUTE_ID_ATTRIBUTE_TYPE
ZCL_BACNET_OID_ATTRIBUTE_TYPE
ZCL_IEEE_ADDRESS_ATTRIBUTE_TYPE
ZCL_SECURITY_KEY_ATTRIBUTE_TYPE
ZCL_UNKNOWN_ATTRIBUTE_TYPE

```

Definition at line 13 of file [attribute-type.h](#).

9.16 attribute-type.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_ATTRIBUTE_TYPES__
00009 #define __EMBER_AF_ATTRIBUTE_TYPES__
00010
00011
00012 // ZCL attribute types
00013 enum {
00014     ZCL_NO_DATA_ATTRIBUTE_TYPE          = 0x00, // No data
00015     ZCL_DATA8_ATTRIBUTE_TYPE           = 0x08, // 8-bit data
00016     ZCL_DATA16_ATTRIBUTE_TYPE          = 0x09, // 16-bit data
00017     ZCL_DATA24_ATTRIBUTE_TYPE          = 0x0A, // 24-bit data
00018     ZCL_DATA32_ATTRIBUTE_TYPE          = 0x0B, // 32-bit data

```

```

00019 ZCL_DATA40_ATTRIBUTE_TYPE           = 0x0C, // 40-bit data
00020 ZCL_DATA48_ATTRIBUTE_TYPE           = 0x0D, // 48-bit data
00021 ZCL_DATA56_ATTRIBUTE_TYPE           = 0x0E, // 56-bit data
00022 ZCL_DATA64_ATTRIBUTE_TYPE           = 0x0F, // 64-bit data
00023 ZCL_BOOLEAN_ATTRIBUTE_TYPE          = 0x10, // Boolean
00024 ZCL_BITMAP8_ATTRIBUTE_TYPE          = 0x18, // 8-bit bitmap
00025 ZCL_BITMAP16_ATTRIBUTE_TYPE         = 0x19, // 16-bit bitmap
00026 ZCL_BITMAP24_ATTRIBUTE_TYPE         = 0x1A, // 24-bit bitmap
00027 ZCL_BITMAP32_ATTRIBUTE_TYPE         = 0x1B, // 32-bit bitmap
00028 ZCL_BITMAP40_ATTRIBUTE_TYPE         = 0x1C, // 40-bit bitmap
00029 ZCL_BITMAP48_ATTRIBUTE_TYPE         = 0x1D, // 48-bit bitmap
00030 ZCL_BITMAP56_ATTRIBUTE_TYPE         = 0x1E, // 56-bit bitmap
00031 ZCL_BITMAP64_ATTRIBUTE_TYPE         = 0x1F, // 64-bit bitmap
00032 ZCL_INT8U_ATTRIBUTE_TYPE            = 0x20, // Unsigned 8-bit
00033 ZCL_INT16U_ATTRIBUTE_TYPE           = 0x21, // Unsigned 16-bit
00034 ZCL_INT24U_ATTRIBUTE_TYPE           = 0x22, // Unsigned 24-bit
00035 ZCL_INT32U_ATTRIBUTE_TYPE           = 0x23, // Unsigned 32-bit
00036 ZCL_INT40U_ATTRIBUTE_TYPE           = 0x24, // Unsigned 40-bit
00037 ZCL_INT48U_ATTRIBUTE_TYPE           = 0x25, // Unsigned 48-bit
00038 ZCL_INT56U_ATTRIBUTE_TYPE           = 0x26, // Unsigned 56-bit
00039 ZCL_INT64U_ATTRIBUTE_TYPE           = 0x27, // Unsigned 64-bit
00040 ZCL_INT8S_ATTRIBUTE_TYPE            = 0x28, // Signed 8-bit
00041 ZCL_INT16S_ATTRIBUTE_TYPE           = 0x29, // Signed 16-bit
00042 ZCL_INT24S_ATTRIBUTE_TYPE           = 0x2A, // Signed 24-bit
00043 ZCL_INT32S_ATTRIBUTE_TYPE           = 0x2B, // Signed 32-bit
00044 ZCL_INT40S_ATTRIBUTE_TYPE           = 0x2C, // Signed 40-bit
00045 ZCL_INT48S_ATTRIBUTE_TYPE           = 0x2D, // Signed 48-bit
00046 ZCL_INT56S_ATTRIBUTE_TYPE           = 0x2E, // Signed 56-bit
00047 ZCL_INT64S_ATTRIBUTE_TYPE           = 0x2F, // Signed 64-bit
00048 ZCL_ENUM8_ATTRIBUTE_TYPE            = 0x30, // 8-bit
00049 ZCL_ENUM16_ATTRIBUTE_TYPE           = 0x31, // 16-bit
00050 ZCL_FLOAT_SEMI_ATTRIBUTE_TYPE        = 0x38, // Semi-precision
00051 ZCL_FLOAT_SINGLE_ATTRIBUTE_TYPE      = 0x39, // Single precision
00052 ZCL_FLOAT_DOUBLE_ATTRIBUTE_TYPE      = 0x3A, // Double precision
00053 ZCL_OCTET_STRING_ATTRIBUTE_TYPE      = 0x41, // Octet string
00054 ZCL_CHAR_STRING_ATTRIBUTE_TYPE       = 0x42, // Character string
00055 ZCL_LONG_OCTET_STRING_ATTRIBUTE_TYPE = 0x43, // Long octet
00056 ZCL_LONG_CHAR_STRING_ATTRIBUTE_TYPE   = 0x44, // Long character
00057 ZCL_ARRAY_ATTRIBUTE_TYPE             = 0x48, // Array
00058 ZCL_STRUCT_ATTRIBUTE_TYPE            = 0x4C, // Structure
00059 ZCL_SET_ATTRIBUTE_TYPE               = 0x50, // Set
00060 ZCL_BAG_ATTRIBUTE_TYPE              = 0x51, // Bag
00061 ZCL_TIME_OF_DAY_ATTRIBUTE_TYPE       = 0xE0, // Time of day
00062 ZCL_DATE_ATTRIBUTE_TYPE              = 0xE1, // Date
00063 ZCL_UTC_TIME_ATTRIBUTE_TYPE          = 0xE2, // UTC Time
00064 ZCL_CLUSTER_ID_ATTRIBUTE_TYPE        = 0xE8, // Cluster ID
00065 ZCL_ATTRIBUTE_ID_ATTRIBUTE_TYPE       = 0xE9, // Attribute ID
00066 ZCL_BACNET_OID_ATTRIBUTE_TYPE         = 0xEA, // BACnet OID
00067 ZCL_IEEE_ADDRESS_ATTRIBUTE_TYPE       = 0xF0, // IEEE address
00068 ZCL_SECURITY_KEY_ATTRIBUTE_TYPE       = 0xF1, // 128-bit security
00069 ZCL_UNKNOWN_ATTRIBUTE_TYPE            = 0xFF // Unknown
00070
00071 };
00072 #endif // __EMBER_AF_ATTRIBUTE_TYPES__

```

9.17 bacnet-protocol-tunnel.h File Reference

Defines

- #define BACNET_PROTOCOL_CLUSTER_MAX_NPDU_SIZE

Functions

- void bacnetProtocolTxTransferNpdu (int16u npduLength, int8u *npdu, int16u destShortAddress, int8u destEndpoint, int8u sourceEndpoint)

9.17.1 Define Documentation

9.17.1.1 #define BACNET_PROTOCOL_CLUSTER_MAX_NPDU_SIZE

Definition at line 15 of file bacnet-protocol-tunnel.h.

9.17.2 Function Documentation

9.17.2.1 void bacnetProtocolTxTransferNpdu (int16u npduLength, int8u * npdu, int16u destShortAddress, int8u destEndpoint, int8u sourceEndpoint)

9.18 bacnet-protocol-tunnel.h

```

00001 // ****
00002 // * bacnet-protocol-tunnel.h
00003 // *
00004 // *
00005 // * Copyright 2009 by Ember Corporation. All rights reserved.
00006 // *80*
00006 // ****
00007
00008 // can be called to generate a "Transfer NPDU" command
00009 void bacnetProtocolTxTransferNpdu(int16u npduLength,
00010                                     int8u* npdu,
00011                                     int16u destShortAddress,
00012                                     int8u destEndpoint,
00013                                     int8u sourceEndpoint);
00014
00015 #define BACNET_PROTOCOL_CLUSTER_MAX_NPDU_SIZE 504
00016

```

9.19 basic-callback.h File Reference

Functions

- void emberAfPluginBasicResetToFactoryDefaultsCallback (void)

9.20 basic-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.

```

```

00004 //
00005 //
00006
00024 void emberAfPluginBasicResetToFactoryDefaultsCallback(void);
00025
00026
00027

```

9.21 basic.h File Reference

9.22 basic.h

```

00001 // ****
00002 // * basic.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00005 // *80*
00006 // ****

```

9.23 call-command-handler.h File Reference

Functions

- EmberAfStatus emberAfBasicClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIdentifyClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIdentifyClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfGroupsClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfGroupsClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfScenesClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfScenesClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfOnOffClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfLevelControlClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfAlarmClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfAlarmClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfRssiLocationClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfRssiLocationClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfCommissioningClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfCommissioningClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfThermostatClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfThermostatClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfColorControlClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIasZoneClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIasZoneClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIasAceClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIasAceClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfIasWdClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfDoorLockClusterClientCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfDoorLockClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfWindowCoveringClusterServerCommandParse (EmberAfClusterCommand *cmd)
- EmberAfStatus emberAfPowerProfileClusterClientCommandParse (EmberAfClusterCommand *cmd)

- `EmberAfStatus emberAfPowerProfileClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfApplianceControlClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfApplianceControlClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPollControlClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPollControlClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfApplianceEventsAndAlertClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfApplianceEventsAndAlertClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfGenericTunnelClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfGenericTunnelClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfBacnetProtocolTunnelClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfDemandResponseLoadControlClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfDemandResponseLoadControlClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfSimpleMeteringClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfSimpleMeteringClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPriceClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPriceClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfMessagingClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfMessagingClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfTunnelingClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfTunnelingClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPrepaymentClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPrepaymentClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfKeyEstablishmentClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfKeyEstablishmentClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfZllCommissioningClusterClientCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfZllCommissioningClusterServerCommandParse (EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfSampleMfgSpecificClusterServerCommandParse (EmberAfClusterCommand *cmd)`

9.23.1 Function Documentation

9.23.1.1 EmberAfStatus emberAfBasicClusterServerCommandParse (EmberAfClusterCommand * cmd)

9.23.1.2 EmberAfStatus emberAfIdentifyClusterClientCommandParse (EmberAfClusterCommand * cmd)

9.23.1.3 EmberAfStatus emberAfIdentifyClusterServerCommandParse (EmberAfClusterCommand * cmd)

- 9.23.1.4 **EmberAfStatus emberAfGroupsClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.5 **EmberAfStatus emberAfGroupsClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.6 **EmberAfStatus emberAfScenesClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.7 **EmberAfStatus emberAfScenesClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.8 **EmberAfStatus emberAfOnOffClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.9 **EmberAfStatus emberAfLevelControlClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.10 **EmberAfStatus emberAfAlarmClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.11 **EmberAfStatus emberAfAlarmClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.12 **EmberAfStatus emberAfRssiLocationClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.13 **EmberAfStatus emberAfRssiLocationClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.14 **EmberAfStatus emberAfCommissioningClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.15 **EmberAfStatus emberAfCommissioningClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.16 **EmberAfStatus emberAfThermostatClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.17 **EmberAfStatus emberAfThermostatClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.18 **EmberAfStatus emberAfColorControlClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.19 **EmberAfStatus emberAfIasZoneClusterClientCommandParse (EmberAfClusterCommand * *cmd*)**
- 9.23.1.20 **EmberAfStatus emberAfIasZoneClusterServerCommandParse (EmberAfClusterCommand * *cmd*)**

- 9.23.1.21 EmberAfStatus emberAfIasAceClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.22 EmberAfStatus emberAfIasAceClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.23 EmberAfStatus emberAfIasWdClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.24 EmberAfStatus emberAfDoorLockClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.25 EmberAfStatus emberAfDoorLockClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.26 EmberAfStatus emberAfWindowCoveringClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.27 EmberAfStatus emberAfPowerProfileClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.28 EmberAfStatus emberAfPowerProfileClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.29 EmberAfStatus emberAfApplianceControlClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.30 EmberAfStatus emberAfApplianceControlClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.31 EmberAfStatus emberAfPollControlClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.32 EmberAfStatus emberAfPollControlClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.33 EmberAfStatus emberAfApplianceEventsAndAlertClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.34 EmberAfStatus emberAfApplianceEventsAndAlertClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.35 EmberAfStatus emberAfGenericTunnelClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.36 EmberAfStatus emberAfGenericTunnelClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.37 EmberAfStatus emberAfBacnetProtocolTunnelClusterServerCommandParse (EmberAfClusterCommand * *cmd*)

- 9.23.1.38 EmberAfStatus emberAfDemandResponseLoadControlClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.39 EmberAfStatus emberAfDemandResponseLoadControlClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.40 EmberAfStatus emberAfSimpleMeteringClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.41 EmberAfStatus emberAfSimpleMeteringClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.42 EmberAfStatus emberAfPriceClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.43 EmberAfStatus emberAfPriceClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.44 EmberAfStatus emberAfMessagingClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.45 EmberAfStatus emberAfMessagingClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.46 EmberAfStatus emberAfTunnelingClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.47 EmberAfStatus emberAfTunnelingClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.48 EmberAfStatus emberAfPrepaymentClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.49 EmberAfStatus emberAfPrepaymentClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.50 EmberAfStatus emberAfKeyEstablishmentClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.51 EmberAfStatus emberAfKeyEstablishmentClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.52 EmberAfStatus emberAfZllCommissioningClusterClientCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.53 EmberAfStatus emberAfZllCommissioningClusterServerCommandParse (EmberAfClusterCommand * *cmd*)
- 9.23.1.54 EmberAfStatus emberAfSampleMfgSpecificClusterServerCommandParse (EmberAfClusterCommand * *cmd*)

9.24 call-command-handler.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_COMMAND_PARSE_HEADER__
00009 #define __EMBER_AF_COMMAND_PARSE_HEADER__
00010
00011
00012 // This is a set of generated prototype for functions that parse the
00013 // the incomming message, and call appropriate command handler.
00014
00015
00016 // Cluster: Basic, client
00017 //     No commands avialable.
00018
00019
00020 // Cluster: Basic, server
00021 EmberAfStatus emberAfBasicClusterServerCommandParse( EmberAfClusterCommand *cmd
    );
00022
00023
00024
00025 // Cluster: Power Configuration, client
00026 //     No commands avialable.
00027
00028
00029 // Cluster: Power Configuration, server
00030 //     No commands avialable.
00031
00032
00033
00034 // Cluster: Device Temperature Configuration, client
00035 //     No commands avialable.
00036
00037
00038 // Cluster: Device Temperature Configuration, server
00039 //     No commands avialable.
00040
00041
00042
00043 // Cluster: Identify, client
00044 EmberAfStatus emberAfIdentifyClusterClientCommandParse( EmberAfClusterCommand *
    cmd);
00045
00046
00047 // Cluster: Identify, server
00048 EmberAfStatus emberAfIdentifyClusterServerCommandParse( EmberAfClusterCommand *
    cmd);
00049
00050
00051
00052 // Cluster: Groups, client
00053 EmberAfStatus emberAfGroupsClusterClientCommandParse( EmberAfClusterCommand *
    cmd);
00054
00055
00056 // Cluster: Groups, server
00057 EmberAfStatus emberAfGroupsClusterServerCommandParse( EmberAfClusterCommand *
    cmd);
00058
00059
00060
00061 // Cluster: Scenes, client
00062 EmberAfStatus emberAfScenesClusterClientCommandParse( EmberAfClusterCommand *
    cmd);
00063
00064
00065 // Cluster: Scenes, server
00066 EmberAfStatus emberAfScenesClusterServerCommandParse( EmberAfClusterCommand *
    cmd);
00067
00068
00069
00070 // Cluster: On/off, client

```

```

00071 //      No commands avialable.
00072
00073
00074 // Cluster: On/off, server
00075 EmberAfStatus emberAfOnOffClusterServerCommandParse( EmberAfClusterCommand *cmd
);
00076
00077
00078
00079 // Cluster: On/off Switch Configuration, client
00080 //      No commands avialable.
00081
00082
00083 // Cluster: On/off Switch Configuration, server
00084 //      No commands avialable.
00085
00086
00087
00088 // Cluster: Level Control, client
00089 //      No commands avialable.
00090
00091
00092 // Cluster: Level Control, server
00093 EmberAfStatus emberAfLevelControlClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00094
00095
00096
00097 // Cluster: Alarms, client
00098 EmberAfStatus emberAfAlarmClusterClientCommandParse( EmberAfClusterCommand *cmd
);
00099
00100
00101 // Cluster: Alarms, server
00102 EmberAfStatus emberAfAlarmClusterServerCommandParse( EmberAfClusterCommand *cmd
);
00103
00104
00105
00106 // Cluster: Time, client
00107 //      No commands avialable.
00108
00109
00110 // Cluster: Time, server
00111 //      No commands avialable.
00112
00113
00114
00115 // Cluster: RSSI Location, client
00116 EmberAfStatus emberAfRssiLocationClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00117
00118
00119 // Cluster: RSSI Location, server
00120 EmberAfStatus emberAfRssiLocationClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00121
00122
00123
00124 // Cluster: Binary Input (Basic), client
00125 //      No commands avialable.
00126
00127
00128 // Cluster: Binary Input (Basic), server
00129 //      No commands avialable.
00130
00131
00132
00133 // Cluster: Commissioning, client
00134 EmberAfStatus emberAfCommissioningClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00135
00136
00137 // Cluster: Commissioning, server
00138 EmberAfStatus emberAfCommissioningClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00139
00140
00141
00142 // Cluster: Shade Configuration, client

```

```

00143 //      No commands avialable.
00144
00145
00146 // Cluster: Shade Configuration, server
00147 //      No commands avialable.
00148
00149
00150
00151 // Cluster: Pump Configuration and Control, client
00152 //      No commands avialable.
00153
00154
00155 // Cluster: Pump Configuration and Control, server
00156 //      No commands avialable.
00157
00158
00159
00160 // Cluster: Thermostat, client
00161 EmberAfStatus emberAfThermostatClusterClientCommandParse( EmberAfClusterCommand
    *cmd);
00162
00163
00164 // Cluster: Thermostat, server
00165 EmberAfStatus emberAfThermostatClusterServerCommandParse( EmberAfClusterCommand
    *cmd);
00166
00167
00168
00169 // Cluster: Fan Control, client
00170 //      No commands avialable.
00171
00172
00173 // Cluster: Fan Control, server
00174 //      No commands avialable.
00175
00176
00177
00178 // Cluster: Dehumidification Control, client
00179 //      No commands avialable.
00180
00181
00182 // Cluster: Dehumidification Control, server
00183 //      No commands avialable.
00184
00185
00186
00187 // Cluster: Thermostat User Interface Configuration, client
00188 //      No commands avialable.
00189
00190
00191 // Cluster: Thermostat User Interface Configuration, server
00192 //      No commands avialable.
00193
00194
00195
00196 // Cluster: Color Control, client
00197 //      No commands avialable.
00198
00199
00200 // Cluster: Color Control, server
00201 EmberAfStatus emberAfColorControlClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00202
00203
00204
00205 // Cluster: Ballast Configuration, client
00206 //      No commands avialable.
00207
00208
00209 // Cluster: Ballast Configuration, server
00210 //      No commands avialable.
00211
00212
00213
00214 // Cluster: Illuminance Measurement, client
00215 //      No commands avialable.
00216
00217
00218 // Cluster: Illuminance Measurement, server
00219 //      No commands avialable.

```

```

00220
00221
00222
00223 // Cluster: Illuminance Level Sensing, client
00224 //     No commands avialable.
00225
00226
00227 // Cluster: Illuminance Level Sensing, server
00228 //     No commands avialable.
00229
00230
00231
00232 // Cluster: Temperature Measurement, client
00233 //     No commands avialable.
00234
00235
00236 // Cluster: Temperature Measurement, server
00237 //     No commands avialable.
00238
00239
00240
00241 // Cluster: Pressure Measurement, client
00242 //     No commands avialable.
00243
00244
00245 // Cluster: Pressure Measurement, server
00246 //     No commands avialable.
00247
00248
00249
00250 // Cluster: Flow Measurement, client
00251 //     No commands avialable.
00252
00253
00254 // Cluster: Flow Measurement, server
00255 //     No commands avialable.
00256
00257
00258
00259 // Cluster: Relative Humidity Measurement, client
00260 //     No commands avialable.
00261
00262
00263 // Cluster: Relative Humidity Measurement, server
00264 //     No commands avialable.
00265
00266
00267
00268 // Cluster: Occupancy Sensing, client
00269 //     No commands avialable.
00270
00271
00272 // Cluster: Occupancy Sensing, server
00273 //     No commands avialable.
00274
00275
00276
00277 // Cluster: IAS Zone, client
00278 EmberAfStatus emberAfIasZoneClusterClientCommandParse( EmberAfClusterCommand *
cmd );
00279
00280
00281 // Cluster: IAS Zone, server
00282 EmberAfStatus emberAfIasZoneClusterServerCommandParse( EmberAfClusterCommand *
cmd );
00283
00284
00285
00286 // Cluster: IAS ACE, client
00287 EmberAfStatus emberAfIasAceClusterClientCommandParse( EmberAfClusterCommand *
cmd );
00288
00289
00290 // Cluster: IAS ACE, server
00291 EmberAfStatus emberAfIasAceClusterServerCommandParse( EmberAfClusterCommand *
cmd );
00292
00293
00294
00295 // Cluster: IAS WD, client

```

```

00296 //      No commands avialable.
00297
00298
00299 // Cluster: IAS WD, server
00300 EmberAfStatus emberAfIasWdClusterServerCommandParse( EmberAfClusterCommand *cmd
    );
00301
00302
00303
00304 // Cluster: Door Lock, client
00305 EmberAfStatus emberAfDoorLockClusterClientCommandParse( EmberAfClusterCommand *
    cmd);
00306
00307
00308 // Cluster: Door Lock, server
00309 EmberAfStatus emberAfDoorLockClusterServerCommandParse( EmberAfClusterCommand *
    cmd);
00310
00311
00312
00313 // Cluster: Window Covering, client
00314 //      No commands avialable.
00315
00316
00317 // Cluster: Window Covering, server
00318 EmberAfStatus emberAfWindowCoveringClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00319
00320
00321
00322 // Cluster: Power Profile, client
00323 EmberAfStatus emberAfPowerProfileClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00324
00325
00326 // Cluster: Power Profile, server
00327 EmberAfStatus emberAfPowerProfileClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00328
00329
00330
00331 // Cluster: Appliance Control, client
00332 EmberAfStatus emberAfApplianceControlClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00333
00334
00335 // Cluster: Appliance Control, server
00336 EmberAfStatus emberAfApplianceControlClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00337
00338
00339
00340 // Cluster: Poll Control, client
00341 EmberAfStatus emberAfPollControlClusterClientCommandParse( EmberAfClusterCommand
    *cmd);
00342
00343
00344 // Cluster: Poll Control, server
00345 EmberAfStatus emberAfPollControlClusterServerCommandParse( EmberAfClusterCommand
    *cmd);
00346
00347
00348
00349 // Cluster: Appliance Identification, client
00350 //      No commands avialable.
00351
00352
00353 // Cluster: Appliance Identification, server
00354 //      No commands avialable.
00355
00356
00357
00358 // Cluster: Meter Identification, client
00359 //      No commands avialable.
00360
00361
00362 // Cluster: Meter Identification, server
00363 //      No commands avialable.
00364
00365

```

```

00366
00367 // Cluster: Appliance Events and Alert, client
00368 EmberAfStatus emberAfApplianceEventsAndAlertClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00369
00370
00371 // Cluster: Appliance Events and Alert, server
00372 EmberAfStatus emberAfApplianceEventsAndAlertClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00373
00374
00375
00376 // Cluster: Generic Tunnel, client
00377 EmberAfStatus emberAfGenericTunnelClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00378
00379
00380 // Cluster: Generic Tunnel, server
00381 EmberAfStatus emberAfGenericTunnelClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00382
00383
00384
00385 // Cluster: BACnet Protocol Tunnel, client
00386 //      No commands avialable.
00387
00388
00389 // Cluster: BACnet Protocol Tunnel, server
00390 EmberAfStatus emberAfBacnetProtocolTunnelClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00391
00392
00393
00394 // Cluster: Demand Response and Load Control, client
00395 EmberAfStatus emberAfDemandResponseLoadControlClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00396
00397
00398 // Cluster: Demand Response and Load Control, server
00399 EmberAfStatus emberAfDemandResponseLoadControlClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00400
00401
00402
00403 // Cluster: Simple Metering, client
00404 EmberAfStatus emberAfSimpleMeteringClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00405
00406
00407 // Cluster: Simple Metering, server
00408 EmberAfStatus emberAfSimpleMeteringClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00409
00410
00411
00412 // Cluster: Price, client
00413 EmberAfStatus emberAfPriceClusterClientCommandParse( EmberAfClusterCommand *cmd
    );
00414
00415
00416 // Cluster: Price, server
00417 EmberAfStatus emberAfPriceClusterServerCommandParse( EmberAfClusterCommand *cmd
    );
00418
00419
00420
00421 // Cluster: Messaging, client
00422 EmberAfStatus emberAfMessagingClusterClientCommandParse( EmberAfClusterCommand
    *cmd);
00423
00424
00425 // Cluster: Messaging, server
00426 EmberAfStatus emberAfMessagingClusterServerCommandParse( EmberAfClusterCommand
    *cmd);
00427
00428
00429
00430 // Cluster: Tunneling, client
00431 EmberAfStatus emberAfTunnelingClusterClientCommandParse( EmberAfClusterCommand
    *cmd);

```

```

00432
00433
00434 // Cluster: Tunneling, server
00435 EmberAfStatus emberAfTunnelingClusterServerCommandParse( EmberAfClusterCommand
    *cmd);
00436
00437
00438
00439 // Cluster: Prepayment, client
00440 EmberAfStatus emberAfPrepaymentClusterClientCommandParse( EmberAfClusterCommand
    *cmd);
00441
00442
00443 // Cluster: Prepayment, server
00444 EmberAfStatus emberAfPrepaymentClusterServerCommandParse( EmberAfClusterCommand
    *cmd);
00445
00446
00447
00448 // Cluster: Key establishment, client
00449 EmberAfStatus emberAfKeyEstablishmentClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00450
00451
00452 // Cluster: Key establishment, server
00453 EmberAfStatus emberAfKeyEstablishmentClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00454
00455
00456
00457 // Cluster: ZLL Commissioning, client
00458 EmberAfStatus emberAfZllCommissioningClusterClientCommandParse(
    EmberAfClusterCommand *cmd);
00459
00460
00461 // Cluster: ZLL Commissioning, server
00462 EmberAfStatus emberAfZllCommissioningClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00463
00464
00465
00466 // Cluster: Sample Mfg Specific Cluster, client
00467 //     No commands available.
00468
00469
00470 // Cluster: Sample Mfg Specific Cluster, server
00471 EmberAfStatus emberAfSampleMfgSpecificClusterServerCommandParse(
    EmberAfClusterCommand *cmd);
00472
00473
00474
00475 #endif // __EMBER_AF_COMMAND_PARSE_HEADER__

```

9.25 callback.h File Reference

```
#include "app/framework/include/af-types.h"
```

Non-Cluster Related Callbacks

- boolean `emberAfReadAttributesResponseCallback` (`EmberAfClusterId` clusterId, `int8u` *buffer, `int16u` bufLen)
- boolean `emberAfWriteAttributesResponseCallback` (`EmberAfClusterId` clusterId, `int8u` *buffer, `int16u` bufLen)
- boolean `emberAfConfigureReportingResponseCallback` (`EmberAfClusterId` clusterId, `int8u` *buffer, `int16u` bufLen)
- boolean `emberAfReadReportingConfigurationResponseCallback` (`EmberAfClusterId` clusterId, `int8u` *buffer, `int16u` bufLen)

- boolean `emberAfReportAttributesCallback` (`EmberAfClusterId` clusterId, `int8u *buffer`, `int16u bufLen`)
- boolean `emberAfDefaultResponseCallback` (`EmberAfClusterId` clusterId, `int8u commandId`, `EmberAfStatus status`)
- boolean `emberAfDiscoverAttributesResponseCallback` (`EmberAfClusterId` clusterId, `boolean discoveryComplete`, `int8u *buffer`, `int16u bufLen`)
- `EmberAfAttributeWritePermission` `emberAfAllowNetworkWriteAttributeCallback` (`int8u endpoint`, `EmberAfClusterId clusterId`, `EmberAfAttributeId attributeId`, `int8u mask`, `int16u manufacturerCode`, `int8u *value`, `int8u type`)
- void `emberAfPreAttributeChangeCallback` (`int8u endpoint`, `EmberAfClusterId clusterId`, `EmberAfAttributeId attributeId`, `int8u mask`, `int16u manufacturerCode`, `int8u type`, `int8u size`, `int8u *value`)
- void `emberAfPostAttributeChangeCallback` (`int8u endpoint`, `EmberAfClusterId clusterId`, `EmberAfAttributeId attributeId`, `int8u mask`, `int16u manufacturerCode`, `int8u type`, `int8u size`, `int8u *value`)
- boolean `emberAfPreMessageReceivedCallback` (`EmberAfIncomingMessage *incomingMessage`)
- boolean `emberAfPreCommandReceivedCallback` (`EmberAfClusterCommand *cmd`)
- boolean `emberAfPreZDOMessageReceivedCallback` (`EmberNodeId emberNodeId`, `EmberApsFrame *apsFrame`, `int8u *message`, `int16u length`)
- boolean `emberAfMessageSentCallback` (`EmberOutgoingMessageType type`, `int16u indexOrDestination`, `EmberApsFrame *apsFrame`, `int16u msgLen`, `int8u *message`, `EmberStatus status`)
- boolean `emberAfStackStatusCallback` (`EmberStatus status`)
- void `emberAfNcpInitCallback` (`boolean memoryAllocation`)
- void `emberAfMainInitCallback` (`void`)
- void `emberAfClusterInitCallback` (`int8u endpoint`, `EmberAfClusterId clusterId`)
- boolean `emberAfPreGoToSleepCallback` (`int32u sleepDurationAttempt`)
- void `emberAfPostWakeUpCallback` (`int32u sleepDuration`)
- void `emberAfMainTickCallback` (`void`)
- boolean `emberAfExternalAttributeWriteCallback` (`int8u endpoint`, `EmberAfClusterId clusterId`, `EmberAfAttributeMetadata *attributeMetadata`, `int16u manufacturerCode`, `int8u *buffer`)
- boolean `emberAfExternalAttributeReadCallback` (`int8u endpoint`, `EmberAfClusterId clusterId`, `EmberAfAttributeMetadata *attributeMetadata`, `int16u manufacturerCode`, `int8u *buffer`)
- void `emberAfTrustCenterJoinCallback` (`EmberNodeId newNodeId`, `EmberEUI64 newNodeEui64`, `-` `EmberNodeId parentOfNewNode`, `EmberDeviceUpdate status`, `EmberJoinDecision decision`)
- `int32u` `emberAfGetCurrentTimeCallback` (`void`)
- void `emberAfSetTimeCallback` (`int32u utcTime`)
- `EmberStatus` `emberAfInitiateKeyEstablishmentCallback` (`EmberNodeId nodeId`, `int8u endpoint`)
- `EmberStatus` `emberAfInitiateInterPanKeyEstablishmentCallback` (`EmberPanId panId`, `const EmberEUI64 eui64`)
- boolean `emberAfKeyEstablishmentCallback` (`EmberAfKeyEstablishmentNotifyMessage status`, `boolean amInitiator`, `EmberNodeId partnerShortId`, `int8u delayInSeconds`)
- boolean `emberAfInterPanKeyEstablishmentCallback` (`EmberAfKeyEstablishmentNotifyMessage status`, `boolean amInitiator`, `EmberPanId panId`, `const EmberEUI64 eui64`, `int8u delayInSeconds`)
- boolean `emberAfPerformingKeyEstablishmentCallback` (`void`)
- `EmberStatus` `emberAfInitiatePartnerLinkKeyExchangeCallback` (`EmberNodeId target`, `int8u endpoint`, `EmberAfPartnerLinkKeyExchangeCallback *callback`)
- `EmberStatus` `emberAfPartnerLinkKeyExchangeRequestCallback` (`EmberEUI64 partner`)
- void `emberAfPartnerLinkKeyExchangeResponseCallback` (`EmberNodeId sender`, `EmberZdoStatus status`)
- `EmberStatus` `emberAfRegistrationStartCallback` (`void`)
- void `emberAfRegistrationAbortCallback` (`void`)
- void `emberAfRegistrationCallback` (`boolean success`)
- void `emberAfTrustCenterKeepaliveUpdateCallback` (`boolean registrationComplete`)

- void `emberAfTrustCenterKeepaliveAbortCallback` (void)
- boolean `emberAfOtaServerIncomingMessageRawCallback` (`EmberAfClusterCommand *message`)
- boolean `emberAfOtaServerSendImageNotifyCallback` (`EmberNodeId dest, int8u endpoint, int8u payloadType, int8u queryJitter, const EmberAfOtaImageId *id`)
- boolean `emberAfOtaStorageDriverInitCallback` (void)
- boolean `emberAfOtaStorageDriverReadCallback` (int32u offset, int32u length, int8u *returnData)
- boolean `emberAfOtaStorageDriverWriteCallback` (const int8u *dataToWrite, int32u offset, int32u length)
- void `emberAfOtaStorageDriverDownloadFinishCallback` (int32u offset)
- int32u `emberAfOtaStorageDriverRetrieveLastStoredOffsetCallback` (void)
- `EmberAfOtaStorageStatus emberAfOtaStorageDriverInvalidateImageCallback` (void)
- `EmberAfOtaStorageStatus emberAfOtaStorageDriverPrepareToResumeDownloadCallback` (void)
- int8u `emberAfOtaBootloadCallback` (const `EmberAfOtaImageId *id, int16u ncpUpgradeTagId`)
- `EmberAfOtaStorageStatus emberAfOtaStorageInitCallback` (void)
- void `emberAfOtaStorageCloseCallback` (void)
- int8u `emberAfOtaStorageGetCountCallback` (void)
- `EmberAfOtaImageId emberAfOtaStorageSearchCallback` (int16u manufacturerId, int16u imageTypeId, const int16u *hardwareVersion)
- int32u `emberAfOtaStorageGetTotalImageSizeCallback` (const `EmberAfOtaImageId *id`)
- `EmberAfOtaImageId emberAfOtaStorageIteratorFirstCallback` (void)
- `EmberAfOtaImageId emberAfOtaStorageIteratorNextCallback` (void)
- `EmberAfOtaStorageStatus emberAfOtaStorageGetFullHeaderCallback` (const `EmberAfOtaImageId *id, EmberAfOtaHeader *returnData`)
- `EmberAfOtaStorageStatus emberAfOtaStorageReadImageDataCallback` (const `EmberAfOtaImageId *id, int32u offset, int32u length, int8u *returnData, int32u *returnedLength`)
- `EmberAfOtaStorageStatus emberAfOtaStorageClearTempDataCallback` (void)
- `EmberAfOtaStorageStatus emberAfOtaStorageWriteTempDataCallback` (int32u offset, int32u length, const int8u *data)
- `EmberAfOtaStorageStatus emberAfOtaStorageCheckTempDataCallback` (int32u *currentOffset, int32u *totalImageSize, `EmberAfOtaImageId *newFileInfo`)
- `EmberAfOtaStorageStatus emberAfOtaStorageFinishDownloadCallback` (int32u offset)
- boolean `emberAfOtaClientIncomingMessageRawCallback` (`EmberAfClusterCommand *message`)
- void `emberAfOtaClientStartCallback` (void)
- void `emberAfOtaClientVersionInfoCallback` (`EmberAfOtaImageId *currentImageInfo, int16u *hardwareVersion`)
- `EmberAfImageVerifyStatus emberAfOtaClientCustomVerifyCallback` (boolean newVerification, const `EmberAfOtaImageId *id`)
- boolean `emberAfOtaClientDownloadCompleteCallback` (boolean success, const `EmberAfOtaImageId *id`)
- void `emberAfOtaClientBootloadCallback` (const `EmberAfOtaImageId *id`)
- int8u `emberAfOtaServerQueryCallback` (const `EmberAfOtaImageId *currentImageId, int16u *hardwareVersion, EmberAfOtaImageId *nextUpgradeImageId`)
- int8u `emberAfOtaServerBlockSizeCallback` (`EmberNodeId clientNodeId`)
- int8u `emberAfOtaServerImageBlockRequestCallback` (const `EmberAfOtaImageId *id, int32u offset, int8u maxDataSize, int32u *waitTimeMinutes`)
- boolean `emberAfOtaServerUpgradeEndRequestCallback` (`EmberNodeId source, int8u status, int32u *returnValue, const EmberAfOtaImageId *imageId`)
- int8u `emberAfOtaPageRequestServerPolicyCallback` (void)
- `EmberStatus emberAfInterpanSendMessageCallback` (`EmberAfInterpanHeader *header, int16u messageLength, int8u *message`)
- void `emberAfUnusedPanIdFoundCallback` (`EmberPanId panId, int8u channel`)

- void `emberAfJoinableNetworkFoundCallback` (EmberZigbeeNetwork *networkFound, int8u lqi, int8s rssi)
- void `emberAfScanErrorCallback` (EmberStatus status)
- EmberStatus `emberAfFindUnusedPanIdAndFormCallback` (void)
- EmberStatus `emberAfStartSearchForJoinableNetworkCallback` (void)
- void `emberAfContinueJoinableNetworkSearchCallback` (void)
- void `emberAfNetworkFindOperationCompleteCallback` (void)
- boolean `emberAfClusterSecurityCustomCallback` (EmberAfProfileId profileId, EmberAfClusterId clusterId, boolean incoming, int8u commandId)
- boolean `emberAfConfigureReportingCommandCallback` (const EmberAfClusterCommand *cmd)
- boolean `emberAfReadReportingConfigurationCommandCallback` (const EmberAfClusterCommand *cmd)
- EmberStatus `emberAfClearReportTableCallback` (void)
- void `emberAfReportingAttributeChangeCallback` (int8u endpoint, EmberAfClusterId clusterId, EmberAfAttributeId attributeId, int8u mask, int16u manufacturerCode, EmberAfAttributeType type, int8u *data)
- void `emberAfNetworkKeyUpdateCompleteCallback` (EmberStatus status)

Basic Cluster Callbacks

- boolean `emberAfBasicClusterResetToFactoryDefaultsCallback` (void)
- void `emberAfBasicClusterServerInitCallback` (int8u endpoint)
- void `emberAfBasicClusterClientInitCallback` (int8u endpoint)
- void `emberAfBasicClusterServerTickCallback` (int8u endpoint)
- void `emberAfBasicClusterClientTickCallback` (int8u endpoint)
- void `emberAfBasicClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfBasicClusterClientAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfBasicClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfBasicClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfBasicClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfBasicClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfBasicClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfBasicClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Power Configuration Cluster Callbacks

- void `emberAfPowerConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfPowerConfigClusterClientTickCallback` (int8u endpoint)

- void `emberAfPowerConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPowerConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Device Temperature Configuration Cluster Callbacks

- void `emberAfDeviceTempClusterServerInitCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterClientInitCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterServerTickCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterClientTickCallback` (int8u endpoint)
- void `emberAfDeviceTempClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDeviceTempClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDeviceTempClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDeviceTempClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDeviceTempClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDeviceTempClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDeviceTempClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDeviceTempClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Identify Cluster Callbacks

- boolean `emberAfIdentifyClusterIdentifyCallback` (int16u identifyTime)
- boolean `emberAfIdentifyClusterIdentifyQueryCallback` (void)
- boolean `emberAfIdentifyClusterIdentifyQueryResponseCallback` (int16u timeout)
- void `emberAfIdentifyClusterServerInitCallback` (int8u endpoint)
- void `emberAfIdentifyClusterClientInitCallback` (int8u endpoint)

- void `emberAfIdentifyClusterServerTickCallback` (int8u endpoint)
- void `emberAfIdentifyClusterClientTickCallback` (int8u endpoint)
- void `emberAfIdentifyClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIdentifyClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIdentifyClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIdentifyClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIdentifyClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIdentifyClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIdentifyClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfIdentifyClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfIdentifyClusterTriggerEffectCallback` (int8u effectId, int8u effectVariant)

Groups Cluster Callbacks

- boolean `emberAfGroupsClusterEndpointInGroupCallback` (int8u endpoint, int16u groupId)
- void `emberAfGroupsClusterClearGroupTableCallback` (void)
- boolean `emberAfGroupsClusterAddGroupCallback` (int16u groupId, int8u *groupName)
- boolean `emberAfGroupsClusterViewGroupCallback` (int16u groupId)
- boolean `emberAfGroupsClusterGetGroupMembershipCallback` (int8u groupCount, int8u *groupList)
- boolean `emberAfGroupsClusterRemoveGroupCallback` (int16u groupId)
- boolean `emberAfGroupsClusterRemoveAllGroupsCallback` (void)
- boolean `emberAfGroupsClusterAddGroupIfIdentifyingCallback` (int16u groupId, int8u *groupName)
- boolean `emberAfGroupsClusterAddGroupResponseCallback` (int8u status, int16u groupId)
- boolean `emberAfGroupsClusterViewGroupResponseCallback` (int8u status, int16u groupId, int8u *groupName)
- boolean `emberAfGroupsClusterGetGroupMembershipResponseCallback` (int8u capacity, int8u groupCount, int8u *groupList)
- boolean `emberAfGroupsClusterRemoveGroupResponseCallback` (int8u status, int16u groupId)
- void `emberAfGroupsClusterServerInitCallback` (int8u endpoint)
- void `emberAfGroupsClusterClientInitCallback` (int8u endpoint)
- void `emberAfGroupsClusterServerTickCallback` (int8u endpoint)
- void `emberAfGroupsClusterClientTickCallback` (int8u endpoint)
- void `emberAfGroupsClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGroupsClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGroupsClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGroupsClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)

- void `emberAfGroupsClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfGroupsClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfGroupsClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfGroupsClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Scenes Cluster Callbacks

- `EmberAfStatus emberAfScenesClusterStoreCurrentSceneCallback` (int8u endpoint, int16u groupId, int8u sceneId)
- `EmberAfStatus emberAfScenesClusterRecallSavedSceneCallback` (int8u endpoint, int16u groupId, int8u sceneId)
- void `emberAfScenesClusterClearSceneTableCallback` (void)
- boolean `emberAfScenesClusterAddSceneCallback` (int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterViewSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRemoveSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRemoveAllScenesCallback` (int16u groupId)
- boolean `emberAfScenesClusterStoreSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRecallSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterGetSceneMembershipCallback` (int16u groupId)
- boolean `emberAfScenesClusterAddSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterViewSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterRemoveSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterRemoveAllScenesResponseCallback` (int8u status, int16u groupId)
- boolean `emberAfScenesClusterStoreSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterGetSceneMembershipResponseCallback` (int8u status, int8u capacity, int16u groupId, int8u sceneCount, int8u *sceneList)
- void `emberAfScenesClusterServerInitCallback` (int8u endpoint)
- void `emberAfScenesClusterClientInitCallback` (int8u endpoint)
- void `emberAfScenesClusterServerTickCallback` (int8u endpoint)
- void `emberAfScenesClusterClientTickCallback` (int8u endpoint)
- void `emberAfScenesClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfScenesClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfScenesClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfScenesClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfScenesClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)

- void `emberAfScenesClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfScenesClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfScenesClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfScenesClusterEnhancedAddSceneCallback` (int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterEnhancedViewSceneCallback` (int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterCopySceneCallback` (int8u mode, int16u groupIdFrom, int8u sceneIdFrom, int16u groupIdTo, int8u sceneIdTo)
- boolean `emberAfScenesClusterEnhancedAddSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfScenesClusterEnhancedViewSceneResponseCallback` (int8u status, int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean `emberAfScenesClusterCopySceneResponseCallback` (int8u status, int16u groupIdFrom, int8u sceneIdFrom)

On/off Cluster Callbacks

- boolean `emberAfOnOffClusterOffCallback` (void)
- boolean `emberAfOnOffClusterOnCallback` (void)
- boolean `emberAfOnOffClusterToggleCallback` (void)
- void `emberAfOnOffClusterServerInitCallback` (int8u endpoint)
- void `emberAfOnOffClusterClientInitCallback` (int8u endpoint)
- void `emberAfOnOffClusterServerTickCallback` (int8u endpoint)
- void `emberAfOnOffClusterClientTickCallback` (int8u endpoint)
- void `emberAfOnOffClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOnOffClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOnOffClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfOnOffClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOnOffClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfOnOffClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfOnOffClusterOffWithEffectCallback` (int8u effectId, int8u effectVariant)
- boolean `emberAfOnOffClusterOnWithRecallGlobalSceneCallback` (void)
- boolean `emberAfOnOffClusterOnWithTimedOffCallback` (int8u onOffControl, int16u onTime, int16u offWaitTime)

- boolean `emberAfOnOffClusterSampleMfgSpecificOffWithTransitionCallback` (void)
- boolean `emberAfOnOffClusterSampleMfgSpecificOnWithTransitionCallback` (void)
- boolean `emberAfOnOffClusterSampleMfgSpecificToggleWithTransitionCallback` (void)

On/off Switch Configuration Cluster Callbacks

- void `emberAfOnOffSwitchConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfOnOffSwitchConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOnOffSwitchConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOnOffSwitchConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffSwitchConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOnOffSwitchConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOnOffSwitchConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOnOffSwitchConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfOnOffSwitchConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Level Control Cluster Callbacks

- boolean `emberAfLevelControlClusterMoveToLevelCallback` (int8u level, int16u transitionTime)
- boolean `emberAfLevelControlClusterMoveCallback` (int8u moveMode, int8u rate)
- boolean `emberAfLevelControlClusterStepCallback` (int8u stepMode, int8u stepSize, int16u transitionTime)
- boolean `emberAfLevelControlClusterStopCallback` (void)
- boolean `emberAfLevelControlClusterMoveToLevelWithOnOffCallback` (int8u level, int16u transitionTime)
- boolean `emberAfLevelControlClusterMoveWithOnOffCallback` (int8u moveMode, int8u rate)
- boolean `emberAfLevelControlClusterStepWithOnOffCallback` (int8u stepMode, int8u stepSize, int16u transitionTime)
- boolean `emberAfLevelControlClusterStopWithOnOffCallback` (void)
- void `emberAfLevelControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfLevelControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfLevelControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfLevelControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfLevelControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfLevelControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)

- void `emberAfLevelControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfLevelControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfLevelControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfLevelControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfLevelControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfLevelControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Alarms Cluster Callbacks

- boolean `emberAfAlarmClusterResetAlarmCallback` (int8u alarmCode, int16u clusterId)
- boolean `emberAfAlarmClusterResetAllAlarmsCallback` (void)
- boolean `emberAfAlarmClusterGetAlarmCallback` (void)
- boolean `emberAfAlarmClusterResetAlarmLogCallback` (void)
- boolean `emberAfAlarmClusterAlarmCallback` (int8u alarmCode, int16u clusterId)
- boolean `emberAfAlarmClusterGetAlarmResponseCallback` (int8u status, int8u alarmCode, int16u clusterId, int32u timeStamp)
- void `emberAfAlarmClusterServerInitCallback` (int8u endpoint)
- void `emberAfAlarmClusterClientInitCallback` (int8u endpoint)
- void `emberAfAlarmClusterServerTickCallback` (int8u endpoint)
- void `emberAfAlarmClusterClientTickCallback` (int8u endpoint)
- void `emberAfAlarmClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfAlarmClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfAlarmClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfAlarmClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfAlarmClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfAlarmClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfAlarmClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfAlarmClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Time Cluster Callbacks

- void `emberAfTimeClusterServerInitCallback` (int8u endpoint)
- void `emberAfTimeClusterClientInitCallback` (int8u endpoint)
- void `emberAfTimeClusterServerTickCallback` (int8u endpoint)
- void `emberAfTimeClusterClientTickCallback` (int8u endpoint)
- void `emberAfTimeClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTimeClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTimeClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTimeClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTimeClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTimeClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTimeClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfTimeClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

RSSI Location Cluster Callbacks

- boolean `emberAfRssiLocationClusterSetAbsoluteLocationCallback` (int16s coordinate1, int16s coordinate2, int16s coordinate3, int16s power, int16u pathLossExponent)
- boolean `emberAfRssiLocationClusterSetDeviceConfigurationCallback` (int16s power, int16u pathLossExponent, int16u calculationPeriod, int8u numberRssiMeasurements, int16u reportingPeriod)
- boolean `emberAfRssiLocationClusterGetDeviceConfigurationCallback` (int8u *targetAddress)
- boolean `emberAfRssiLocationClusterGetLocationDataCallback` (int8u flags, int8u numberResponses, int8u *targetAddress)
- boolean `emberAfRssiLocationClusterRssiResponseCallback` (int8u *replyingDevice, int16s coordinate1, int16s coordinate2, int16s coordinate3, int8s rssi, int8u numberRssiMeasurements)
- boolean `emberAfRssiLocationClusterSendPingsCallback` (int8u *targetAddress, int8u numberRssiMeasurements, int16u calculationPeriod)
- boolean `emberAfRssiLocationClusterAnchorNodeAnnounceCallback` (int8u *anchorNodeIeeeAddress, int16s coordinate1, int16s coordinate2, int16s coordinate3)
- boolean `emberAfRssiLocationClusterDeviceConfigurationResponseCallback` (int8u status, int16s power, int16u pathLossExponent, int16u calculationPeriod, int8u numberRssiMeasurements, int16u reportingPeriod)
- boolean `emberAfRssiLocationClusterLocationDataResponseCallback` (int8u status, int8u locationType, int16s coordinate1, int16s coordinate2, int16s coordinate3, int16s power, int16u pathLossExponent, int8u locationMethod, int8u qualityMeasure, int16u locationAge)
- boolean `emberAfRssiLocationClusterLocationDataNotificationCallback` (int8u locationType, int16s coordinate1, int16s coordinate2, int16s coordinate3, int16s power, int16u pathLossExponent, int8u locationMethod, int8u qualityMeasure, int16u locationAge)
- boolean `emberAfRssiLocationClusterCompactLocationDataNotificationCallback` (int8u locationType, int16s coordinate1, int16s coordinate2, int16s coordinate3, int8u qualityMeasure, int16u locationAge)

- boolean `emberAfRssiLocationClusterRssiPingCallback` (int8u locationType)
- boolean `emberAfRssiLocationClusterRssiRequestCallback` (void)
- boolean `emberAfRssiLocationClusterReportRssiMeasurementsCallback` (int8u *measuringDevice, int8u neighbors, int8u *neighborsInfo)
- boolean `emberAfRssiLocationClusterRequestOwnLocationCallback` (int8u *blindNode)
- void `emberAfRssiLocationClusterServerInitCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterClientInitCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterServerTickCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterClientTickCallback` (int8u endpoint)
- void `emberAfRssiLocationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRssiLocationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRssiLocationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRssiLocationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRssiLocationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRssiLocationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRssiLocationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfRssiLocationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Binary Input (Basic) Cluster Callbacks

- void `emberAfBinaryInputBasicClusterServerInitCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterClientInitCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterServerTickCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterClientTickCallback` (int8u endpoint)
- void `emberAfBinaryInputBasicClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBinaryInputBasicClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBinaryInputBasicClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBinaryInputBasicClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBinaryInputBasicClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBinaryInputBasicClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBinaryInputBasicClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfBinaryInputBasicClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Commissioning Cluster Callbacks

- boolean `emberAfCommissioningClusterRestartDeviceCallback` (int8u options, int8u delay, int8u jitter)
- boolean `emberAfCommissioningClusterSaveStartupParametersCallback` (int8u options, int8u index)
- boolean `emberAfCommissioningClusterRestoreStartupParametersCallback` (int8u options, int8u index)
- boolean `emberAfCommissioningClusterResetStartupParametersCallback` (int8u options, int8u index)
- boolean `emberAfCommissioningClusterRestartDeviceResponseCallback` (int8u status)
- boolean `emberAfCommissioningClusterSaveStartupParametersResponseCallback` (int8u status)
- boolean `emberAfCommissioningClusterRestoreStartupParametersResponseCallback` (int8u status)
- boolean `emberAfCommissioningClusterResetStartupParametersResponseCallback` (int8u status)
- void `emberAfCommissioningClusterServerInitCallback` (int8u endpoint)
- void `emberAfCommissioningClusterClientInitCallback` (int8u endpoint)
- void `emberAfCommissioningClusterServerTickCallback` (int8u endpoint)
- void `emberAfCommissioningClusterClientTickCallback` (int8u endpoint)
- void `emberAfCommissioningClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfCommissioningClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfCommissioningClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfCommissioningClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfCommissioningClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfCommissioningClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfCommissioningClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- void `emberAfCommissioningClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)

Shade Configuration Cluster Callbacks

- void `emberAfShadeConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfShadeConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfShadeConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfShadeConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfShadeConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)

- void `emberAfShadeConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfShadeConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfShadeConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfShadeConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Pump Configuration and Control Cluster Callbacks

- void `emberAfPumpConfigControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfPumpConfigControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPumpConfigControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPumpConfigControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPumpConfigControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPumpConfigControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPumpConfigControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPumpConfigControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfPumpConfigControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Thermostat Cluster Callbacks

- boolean `emberAfThermostatClusterSetpointRaiseLowerCallback` (int8u mode, int8s amount)
- void `emberAfThermostatClusterServerInitCallback` (int8u endpoint)
- void `emberAfThermostatClusterClientInitCallback` (int8u endpoint)
- void `emberAfThermostatClusterServerTickCallback` (int8u endpoint)
- void `emberAfThermostatClusterClientTickCallback` (int8u endpoint)
- void `emberAfThermostatClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)

- void `emberAfThermostatClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfThermostatClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfThermostatClusterSetWeeklyScheduleCallback` (int8u numberofTransitionsForSequence, int8u dayOfWeekForSequence, int8u modeForSequence, int8u *payload)
- boolean `emberAfThermostatClusterGetWeeklyScheduleCallback` (int8u daysToReturn, int8u modeToReturn)
- boolean `emberAfThermostatClusterClearWeeklyScheduleCallback` (void)
- boolean `emberAfThermostatClusterGetRelayStatusLogCallback` (void)
- boolean `emberAfThermostatClusterCurrentWeeklyScheduleCallback` (int8u numberofTransitionsForSequence, int8u dayOfWeekForSequence, int8u modeForSequence, int8u *payload)
- boolean `emberAfThermostatClusterRelayStatusLogCallback` (int16u timeOfDay, int16u relayStatus, int16s localTemperature, int8u humidityInPercentage, int16s setpoint, int8u unreadEntries)

Fan Control Cluster Callbacks

- void `emberAfFanControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfFanControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfFanControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfFanControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfFanControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFanControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFanControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFanControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFanControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFanControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFanControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfFanControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Dehumidification Control Cluster Callbacks

- void `emberAfDehumidControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterServerTickCallback` (int8u endpoint)

- void `emberAfDehumidControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfDehumidControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDehumidControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDehumidControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDehumidControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDehumidControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDehumidControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDehumidControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDehumidControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Thermostat User Interface Configuration Cluster Callbacks

- void `emberAfThermostatUiConfigClusterServerInitCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterClientInitCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterServerTickCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterClientTickCallback` (int8u endpoint)
- void `emberAfThermostatUiConfigClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatUiConfigClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfThermostatUiConfigClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatUiConfigClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfThermostatUiConfigClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatUiConfigClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfThermostatUiConfigClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfThermostatUiConfigClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Color Control Cluster Callbacks

- boolean `emberAfColorControlClusterMoveToHueCallback` (int8u hue, int8u direction, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveHueCallback` (int8u moveMode, int8u rate)

- boolean `emberAfColorControlClusterStepHueCallback` (int8u stepMode, int8u stepSize, int8u transitionTime)
- boolean `emberAfColorControlClusterMoveToSaturationCallback` (int8u saturation, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveSaturationCallback` (int8u moveMode, int8u rate)
- boolean `emberAfColorControlClusterStepSaturationCallback` (int8u stepMode, int8u stepSize, int8u transitionTime)
- boolean `emberAfColorControlClusterMoveToHueAndSaturationCallback` (int8u hue, int8u saturation, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveToColorCallback` (int16u colorX, int16u colorY, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveColorCallback` (int16s rateX, int16s rateY)
- boolean `emberAfColorControlClusterStepColorCallback` (int16s stepX, int16s stepY, int16u transitionTime)
- boolean `emberAfColorControlClusterMoveToColorTemperatureCallback` (int16u colorTemperature, int16u transitionTime)
- void `emberAfColorControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfColorControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfColorControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfColorControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfColorControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfColorControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfColorControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfColorControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfColorControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfColorControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfColorControlClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfColorControlClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfColorControlClusterEnhancedMoveToHueCallback` (int16u enhancedHue, int8u direction, int16u transitionTime)
- boolean `emberAfColorControlClusterEnhancedMoveHueCallback` (int8u moveMode, int16u rate)
- boolean `emberAfColorControlClusterEnhancedStepHueCallback` (int8u stepMode, int16u stepSize, int16u transitionTime)
- boolean `emberAfColorControlClusterEnhancedMoveToHueAndSaturationCallback` (int16u enhancedHue, int8u saturation, int16u transitionTime)
- boolean `emberAfColorControlClusterColorLoopSetCallback` (int8u updateFlags, int8u action, int8u direction, int16u time, int16u startHue)
- boolean `emberAfColorControlClusterStopMoveStepCallback` (void)
- boolean `emberAfColorControlClusterMoveColorTemperatureCallback` (int8u moveMode, int16u rate, int16u colorTemperatureMinimum, int16u colorTemperatureMaximum)
- boolean `emberAfColorControlClusterStepColorTemperatureCallback` (int8u stepMode, int16u stepSize, int16u transitionTime, int16u colorTemperatureMinimum, int16u colorTemperatureMaximum)

Ballast Configuration Cluster Callbacks

- void `emberAfBallastConfigurationClusterServerInitCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterClientInitCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterServerTickCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterClientTickCallback` (int8u endpoint)
- void `emberAfBallastConfigurationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBallastConfigurationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBallastConfigurationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBallastConfigurationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBallastConfigurationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBallastConfigurationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBallastConfigurationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfBallastConfigurationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Illuminance Measurement Cluster Callbacks

- void `emberAfIllumMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfIllumMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfIllumMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Illuminance Level Sensing Cluster Callbacks

- void `emberAfIllumLevelSensingClusterServerInitCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterClientInitCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterServerTickCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterClientTickCallback` (int8u endpoint)
- void `emberAfIllumLevelSensingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumLevelSensingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIllumLevelSensingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumLevelSensingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIllumLevelSensingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumLevelSensingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIllumLevelSensingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfIllumLevelSensingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Temperature Measurement Cluster Callbacks

- int32s `emberAfTempMeasurementClusterConvertVoltsToCelsiusCallback` (int16u voltage)
- void `emberAfTempMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfTempMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTempMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTempMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTempMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTempMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTempMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTempMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfTempMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Pressure Measurement Cluster Callbacks

- void `emberAfPressureMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfPressureMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPressureMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPressureMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPressureMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPressureMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPressureMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPressureMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfPressureMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Flow Measurement Cluster Callbacks

- void `emberAfFlowMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfFlowMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFlowMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfFlowMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFlowMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfFlowMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFlowMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfFlowMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfFlowMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Relative Humidity Measurement Cluster Callbacks

- void `emberAfRelativeHumidityMeasurementClusterServerInitCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterClientInitCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterServerTickCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterClientTickCallback` (int8u endpoint)
- void `emberAfRelativeHumidityMeasurementClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRelativeHumidityMeasurementClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfRelativeHumidityMeasurementClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRelativeHumidityMeasurementClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfRelativeHumidityMeasurementClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRelativeHumidityMeasurementClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfRelativeHumidityMeasurementClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfRelativeHumidityMeasurementClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Occupancy Sensing Cluster Callbacks

- void `emberAfOccupancySensingClusterServerInitCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterClientInitCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterServerTickCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterClientTickCallback` (int8u endpoint)
- void `emberAfOccupancySensingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOccupancySensingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOccupancySensingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOccupancySensingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOccupancySensingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOccupancySensingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOccupancySensingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfOccupancySensingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

IAS Zone Cluster Callbacks

- boolean `emberAfIasZoneClusterZoneEnrollResponseCallback` (int8u enrollResponseCode, int8u zoneId)
- boolean `emberAfIasZoneClusterZoneStatusChangeNotificationCallback` (int16u zoneStatus, int8u extendedStatus)
- boolean `emberAfIasZoneClusterZoneEnrollRequestCallback` (int16u zoneType, int16u manufacturerCode)
- void `emberAfIasZoneClusterServerInitCallback` (int8u endpoint)
- void `emberAfIasZoneClusterClientInitCallback` (int8u endpoint)
- void `emberAfIasZoneClusterServerTickCallback` (int8u endpoint)
- void `emberAfIasZoneClusterClientTickCallback` (int8u endpoint)
- void `emberAfIasZoneClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasZoneClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasZoneClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasZoneClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasZoneClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasZoneClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasZoneClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)
- void `emberAfIasZoneClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, `EmberStatus` status)

IAS ACE Cluster Callbacks

- boolean `emberAfIasAceClusterArmCallback` (int8u armMode)
- boolean `emberAfIasAceClusterBypassCallback` (int8u numberOfZones, int8u *zoneIds)
- boolean `emberAfIasAceClusterEmergencyCallback` (void)
- boolean `emberAfIasAceClusterFireCallback` (void)
- boolean `emberAfIasAceClusterPanicCallback` (void)
- boolean `emberAfIasAceClusterGetZoneIdMapCallback` (void)
- boolean `emberAfIasAceClusterGetZoneInformationCallback` (int8u zoneId)
- boolean `emberAfIasAceClusterArmResponseCallback` (int8u armNotification)
- boolean `emberAfIasAceClusterGetZoneIdMapResponseCallback` (int16u section0, int16u section1, int16u section2, int16u section3, int16u section4, int16u section5, int16u section6, int16u section7, int16u section8, int16u section9, int16u section10, int16u section11, int16u section12, int16u section13, int16u section14, int16u section15)
- boolean `emberAfIasAceClusterGetZoneInformationResponseCallback` (int8u zoneId, int16u zoneType, int8u *ieeeAddress)
- void `emberAfIasAceClusterServerInitCallback` (int8u endpoint)
- void `emberAfIasAceClusterClientInitCallback` (int8u endpoint)
- void `emberAfIasAceClusterServerTickCallback` (int8u endpoint)
- void `emberAfIasAceClusterClientTickCallback` (int8u endpoint)

- void `emberAfIasAceClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasAceClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasAceClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasAceClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasAceClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasAceClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasAceClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfIasAceClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

IAS WD Cluster Callbacks

- boolean `emberAfIasWdClusterStartWarningCallback` (int8u warningInfo, int16u warningDuration)
- boolean `emberAfIasWdClusterSquawkCallback` (int8u squawkInfo)
- void `emberAfIasWdClusterServerInitCallback` (int8u endpoint)
- void `emberAfIasWdClusterClientInitCallback` (int8u endpoint)
- void `emberAfIasWdClusterServerTickCallback` (int8u endpoint)
- void `emberAfIasWdClusterClientTickCallback` (int8u endpoint)
- void `emberAfIasWdClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasWdClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfIasWdClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasWdClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfIasWdClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, - `EmberAfStatus` status)
- void `emberAfIasWdClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfIasWdClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfIasWdClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Door Lock Cluster Callbacks

- boolean `emberAfDoorLockClusterLockDoorCallback` (void)
- boolean `emberAfDoorLockClusterUnlockDoorCallback` (void)
- boolean `emberAfDoorLockClusterLockDoorResponseCallback` (int8u status)

- boolean `emberAfDoorLockClusterUnlockDoorResponseCallback` (int8u status)
- void `emberAfDoorLockClusterServerInitCallback` (int8u endpoint)
- void `emberAfDoorLockClusterClientInitCallback` (int8u endpoint)
- void `emberAfDoorLockClusterServerTickCallback` (int8u endpoint)
- void `emberAfDoorLockClusterClientTickCallback` (int8u endpoint)
- void `emberAfDoorLockClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDoorLockClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDoorLockClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDoorLockClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDoorLockClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDoorLockClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDoorLockClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDoorLockClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- boolean `emberAfDoorLockClusterGetLockStatusCallback` (void)
- boolean `emberAfDoorLockClusterUnlockWithTimeoutCallback` (int8u timeoutInSeconds)
- boolean `emberAfDoorLockClusterGetBatteryLevelCallback` (void)
- boolean `emberAfDoorLockClusterSetRfLockoutTimeCallback` (int8u dayOfWeek, int16u startTimeInMinutesAfterMidnight, int16u stopTimeInMinutesAfterMidnight)
- boolean `emberAfDoorLockClusterGetRfLockoutTimeCallback` (int8u dayOfWeek)
- boolean `emberAfDoorLockClusterGetLogRecordCallback` (int16u logNumber)
- boolean `emberAfDoorLockClusterUserCodeSetCallback` (int8u userId, int8u userStatus, int8u *code)
- boolean `emberAfDoorLockClusterUserCodeGetCallback` (int8u userId)
- boolean `emberAfDoorLockClusterUserCodeClearCallback` (int8u userId)
- boolean `emberAfDoorLockClusterClearAllUserCodesCallback` (void)
- boolean `emberAfDoorLockClusterSetUserCodeStatusCallback` (int8u userId, int8u userStatus)
- boolean `emberAfDoorLockClusterGetUserCodeStatusCallback` (int8u userId)
- boolean `emberAfDoorLockClusterGetLastUserIdEnteredCallback` (void)
- boolean `emberAfDoorLockClusterSetScheduleSlotCallback` (int8u slotNumber, int8u userId, int8u daysMask, int8u startHour, int8u startMinute, int8u durationHour, int8u durationMinute)
- boolean `emberAfDoorLockClusterGetScheduleSlotCallback` (int8u slotNumber, int8u userId)
- boolean `emberAfDoorLockClusterSetScheduleSlotStatusCallback` (int8u slotNumber, int8u userId, int8u status)
- boolean `emberAfDoorLockClusterSetIndicatorCallback` (int8u indicatorNumber, int8u state)
- boolean `emberAfDoorLockClusterGetLockStatusResponseCallback` (int8u lockMode, int8u boltCondition, int8u handleCondition, int8u relockTimeout)
- boolean `emberAfDoorLockClusterUnlockWithTimeoutResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetBatteryLevelResponseCallback` (int8u batteryLevel)
- boolean `emberAfDoorLockClusterSetRfLockoutTimeResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetRfLockoutTimeResponseCallback` (int8u dayOfWeek, int16u startTimeInMinutesAfterMidnight, int16u stopTimeInMinutesAfterMidnight)

- boolean `emberAfDoorLockClusterGetLogRecordResponseCallback` (int16u logEntryId, int32u timestamp, int8u eventType, int8u userId)
- boolean `emberAfDoorLockClusterUserCodeSetResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterUserCodeGetResponseCallback` (int8u userId, int8u userStatus, int8u *code)
- boolean `emberAfDoorLockClusterUserCodeClearResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterClearAllUserCodesResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterSetUserCodeStatusResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetUserCodeStatusResponseCallback` (int8u userId, int8u userStatus)
- boolean `emberAfDoorLockClusterGetLastUserIdEnteredResponseCallback` (int8u userId, int8u reason)
- boolean `emberAfDoorLockClusterUserAddedCallback` (int8u userId, int8u userStatus, int8u *code)
- boolean `emberAfDoorLockClusterUserDeletedCallback` (int8u userId)
- boolean `emberAfDoorLockClusterSetScheduleSlotResponseCallback` (int8u status)
- boolean `emberAfDoorLockClusterGetScheduleSlotResponseCallback` (int8u slotNumber, int8u userId, int8u daysMask, int8u startHour, int8u startMinute, int8u durationHour, int8u durationMinute)
- boolean `emberAfDoorLockClusterSetScheduleSlotStatusResponseCallback` (int8u status)

Window Covering Cluster Callbacks

- boolean `emberAfWindowCoveringClusterWindowCoveringUpOpenCallback` (void)
- boolean `emberAfWindowCoveringClusterWindowCoveringDownCloseCallback` (void)
- boolean `emberAfWindowCoveringClusterWindowCoveringStopCallback` (void)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToLiftSetpointCallback` (int8u indexOfLiftSetpoint)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToLiftValueCallback` (int16u liftValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToLiftPercentageCallback` (int8u percentageLiftValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToTiltSetpointCallback` (int8u indexOfTiltSetpoint)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToTiltValueCallback` (int16u tiltValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToTiltPercentageCallback` (int8u percentageTiltValue)
- boolean `emberAfWindowCoveringClusterWindowCoveringGoToProgramSetpointCallback` (int8u setpointType, int8u setpointIndex, int16u setpointValue)
- void `emberAfWindowCoveringClusterServerInitCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterClientInitCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterServerTickCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterClientTickCallback` (int8u endpoint)
- void `emberAfWindowCoveringClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfWindowCoveringClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfWindowCoveringClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfWindowCoveringClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfWindowCoveringClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)

- void [emberAfWindowCoveringClusterClientDefaultResponseCallback](#) (int8u endpoint, int8u commandId, [EmberAfStatus](#) status)
- void [emberAfWindowCoveringClusterServerMessageSentCallback](#) (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, [EmberStatus](#) status)
- void [emberAfWindowCoveringClusterClientMessageSentCallback](#) (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, [EmberStatus](#) status)

Power Profile Cluster Callbacks

- boolean [emberAfPowerProfileClusterPowerProfileRequestCallback](#) (int8u powerProfileId)
- boolean [emberAfPowerProfileClusterPowerProfileStateRequestCallback](#) (void)
- boolean [emberAfPowerProfileClusterGetPowerProfilePriceResponseCallback](#) (int8u powerProfileId, int16u currency, int32u price, int8u priceTrailingDigit)
- boolean [emberAfPowerProfileClusterGetOverallSchedulePriceResponseCallback](#) (int16u currency, int32u price, int8u priceTrailingDigit)
- boolean [emberAfPowerProfileClusterEnergyPhasesScheduleNotificationCallback](#) (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean [emberAfPowerProfileClusterEnergyPhasesScheduleResponseCallback](#) (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean [emberAfPowerProfileClusterPowerProfileScheduleConstraintsRequestCallback](#) (int8u powerProfileId)
- boolean [emberAfPowerProfileClusterEnergyPhasesScheduleStateRequestCallback](#) (int8u powerProfileId)
- boolean [emberAfPowerProfileClusterPowerProfileNotificationCallback](#) (int8u totalProfileNum, int8u powerProfileId, int8u numOfTransferredPhases, int8u *transferredPhases)
- boolean [emberAfPowerProfileClusterPowerProfileResponseCallback](#) (int8u totalProfileNum, int8u powerProfileId, int8u numOfTransferredPhases, int8u *transferredPhases)
- boolean [emberAfPowerProfileClusterPowerProfileStateResponseCallback](#) (int8u powerProfileCount, int8u *powerProfileRecords)
- boolean [emberAfPowerProfileClusterGetPowerProfilePriceCallback](#) (int8u powerProfileId)
- boolean [emberAfPowerProfileClusterPowerProfilesStateNotificationCallback](#) (int8u powerProfileCount, int8u *powerProfileRecords)
- boolean [emberAfPowerProfileClusterGetOverallSchedulePriceCallback](#) (void)
- boolean [emberAfPowerProfileClusterEnergyPhasesScheduleRequestCallback](#) (int8u powerProfileId)
- boolean [emberAfPowerProfileClusterEnergyPhasesScheduleStateResponseCallback](#) (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean [emberAfPowerProfileClusterEnergyPhasesScheduleStateNotificationCallback](#) (int8u powerProfileId, int8u numOfScheduledPhases, int8u *scheduledPhases)
- boolean [emberAfPowerProfileClusterPowerProfileScheduleConstraintsNotificationCallback](#) (int8u powerProfileId, int16u startAfter, int16u stopBefore)
- boolean [emberAfPowerProfileClusterPowerProfileScheduleConstraintsResponseCallback](#) (int8u powerProfileId, int16u startAfter, int16u stopBefore)
- void [emberAfPowerProfileClusterServerInitCallback](#) (int8u endpoint)
- void [emberAfPowerProfileClusterClientInitCallback](#) (int8u endpoint)
- void [emberAfPowerProfileClusterServerTickCallback](#) (int8u endpoint)
- void [emberAfPowerProfileClusterClientTickCallback](#) (int8u endpoint)
- void [emberAfPowerProfileClusterServerAttributeChangedCallback](#) (int8u endpoint, [EmberAfAttributeId](#) attributeId)

- void `emberAfPowerProfileClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPowerProfileClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerProfileClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPowerProfileClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerProfileClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPowerProfileClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPowerProfileClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Appliance Control Cluster Callbacks

- boolean `emberAfApplianceControlClusterExecutionOfACommandCallback` (int8u commandId)
- boolean `emberAfApplianceControlClusterSignalStateCallback` (void)
- boolean `emberAfApplianceControlClusterWriteFunctionsCallback` (int16u functionId, int8u functionDataType, int8u *functionData)
- boolean `emberAfApplianceControlClusterOverloadPauseResumeCallback` (void)
- boolean `emberAfApplianceControlClusterOverloadPauseCallback` (void)
- boolean `emberAfApplianceControlClusterOverloadWarningCallback` (int8u warningEvent)
- boolean `emberAfApplianceControlClusterSignalStateResponseCallback` (int8u applianceStatus, int8u remoteEnableFlagsAndDeviceStatus2, int32u applianceStatus2)
- boolean `emberAfApplianceControlClusterSignalStateNotificationCallback` (int8u applianceStatus, int8u remoteEnableFlagsAndDeviceStatus2, int32u applianceStatus2)
- void `emberAfApplianceControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfApplianceControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfApplianceControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfApplianceControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfApplianceControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Poll Control Cluster Callbacks

- boolean `emberAfPollControlClusterCheckInCallback` (void)
- boolean `emberAfPollControlClusterCheckInResponseCallback` (int8u startFastPolling, int16u fastPollTimeout)
- boolean `emberAfPollControlClusterFastPollStopCallback` (void)
- boolean `emberAfPollControlClusterSetLongPollIntervalCallback` (int32u newLongPollInterval)
- boolean `emberAfPollControlClusterSetShortPollIntervalCallback` (int16u newShortPollInterval)
- void `emberAfPollControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfPollControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfPollControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfPollControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfPollControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPollControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPollControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPollControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPollControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPollControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPollControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPollControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Appliance Identification Cluster Callbacks

- void `emberAfApplianceIdentificationClusterServerInitCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterClientInitCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterServerTickCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterClientTickCallback` (int8u endpoint)
- void `emberAfApplianceIdentificationClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfApplianceIdentificationClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfApplianceIdentificationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceIdentificationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfApplianceIdentificationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceIdentificationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceIdentificationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

- void `emberAfApplianceIdentificationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Meter Identification Cluster Callbacks

- void `emberAfMeterIdentificationClusterServerInitCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterClientInitCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterServerTickCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterClientTickCallback` (int8u endpoint)
- void `emberAfMeterIdentificationClusterServerAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfMeterIdentificationClusterClientAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId)
- void `emberAfMeterIdentificationClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfMeterIdentificationClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfMeterIdentificationClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfMeterIdentificationClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, EmberAfStatus status)
- void `emberAfMeterIdentificationClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfMeterIdentificationClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Appliance Events and Alert Cluster Callbacks

- boolean `emberAfApplianceEventsAndAlertClusterGetAlertsCallback` (void)
- boolean `emberAfApplianceEventsAndAlertClusterGetAlertsResponseCallback` (int8u alertsCount, int8u *alertStructures)
- boolean `emberAfApplianceEventsAndAlertClusterAlertsNotificationCallback` (int8u alertsCount, int8u *alertStructures)
- boolean `emberAfApplianceEventsAndAlertClusterEventsNotificationCallback` (int8u eventHeader, int8u eventId)
- void `emberAfApplianceEventsAndAlertClusterServerInitCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterClientInitCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterServerTickCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterClientTickCallback` (int8u endpoint)
- void `emberAfApplianceEventsAndAlertClusterServerAttributeChangedCallback` (int8u endpoint, - EmberAfAttributeId attributeId)
- void `emberAfApplianceEventsAndAlertClusterClientAttributeChangedCallback` (int8u endpoint, - EmberAfAttributeId attributeId)
- void `emberAfApplianceEventsAndAlertClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfApplianceEventsAndAlertClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)

- void `emberAfApplianceEventsAndAlertClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceEventsAndAlertClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfApplianceEventsAndAlertClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfApplianceEventsAndAlertClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Generic Tunnel Cluster Callbacks

- boolean `emberAfGenericTunnelClusterMatchProtocolAddressCallback` (int8u *protocolAddress)
- boolean `emberAfGenericTunnelClusterMatchProtocolAddressResponseCallback` (int8u *deviceIeeeAddress, int8u *protocolAddress)
- boolean `emberAfGenericTunnelClusterAdvertiseProtocolAddressCallback` (int8u *protocolAddress)
- void `emberAfGenericTunnelClusterServerInitCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterClientInitCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterServerTickCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterClientTickCallback` (int8u endpoint)
- void `emberAfGenericTunnelClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGenericTunnelClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfGenericTunnelClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGenericTunnelClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfGenericTunnelClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfGenericTunnelClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfGenericTunnelClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfGenericTunnelClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

BACnet Protocol Tunnel Cluster Callbacks

- boolean `emberAfBacnetProtocolTunnelClusterTransferNpduCallback` (int8u *npdu)
- void `emberAfBacnetProtocolTunnelClusterServerInitCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterClientInitCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterServerTickCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterClientTickCallback` (int8u endpoint)
- void `emberAfBacnetProtocolTunnelClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfBacnetProtocolTunnelClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)

- void `emberAfBacnetProtocolTunnelClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBacnetProtocolTunnelClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfBacnetProtocolTunnelClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBacnetProtocolTunnelClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfBacnetProtocolTunnelClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfBacnetProtocolTunnelClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Over the Air Bootloading Cluster Cluster Callbacks

- boolean `emberAfOtaBootloadClusterImageNotifyCallback` (int8u payloadType, int8u queryJitter, int16u manufacturerId, int16u imageType, int32u newFileVersion)
- boolean `emberAfOtaBootloadClusterQueryNextImageRequestCallback` (int8u fieldControl, int16u manufacturerId, int16u imageType, int32u currentFileVersion, int16u hardwareVersion)
- boolean `emberAfOtaBootloadClusterQueryNextImageResponseCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u imageSize)
- boolean `emberAfOtaBootloadClusterImageBlockRequestCallback` (int8u fieldControl, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u fileOffset, int8u maxDataSize, int8u *requestNodeAddress)
- boolean `emberAfOtaBootloadClusterImagePageRequestCallback` (int8u fieldControl, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u fileOffset, int8u maxDataSize, int16u pageSize, int16u responseSpacing, int8u *requestNodeAddress)
- boolean `emberAfOtaBootloadClusterImageBlockResponseCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u fileOffset, int8u dataSize, int8u *imageData)
- boolean `emberAfOtaBootloadClusterUpgradeEndRequestCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion)
- boolean `emberAfOtaBootloadClusterUpgradeEndResponseCallback` (int16u manufacturerId, int16u imageType, int32u fileVersion, int32u currentTime, int32u upgradeTime)
- boolean `emberAfOtaBootloadClusterQuerySpecificFileRequestCallback` (int8u *requestNodeAddress, int16u manufacturerId, int16u imageType, int32u fileVersion, int16u currentZigbeeStackVersion)
- boolean `emberAfOtaBootloadClusterQuerySpecificFileResponseCallback` (int8u status, int16u manufacturerId, int16u imageType, int32u fileVersion, int32u imageSize)
- void `emberAfOtaBootloadClusterServerInitCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterClientInitCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterServerTickCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterClientTickCallback` (int8u endpoint)
- void `emberAfOtaBootloadClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOtaBootloadClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfOtaBootloadClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfOtaBootloadClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)

- void `emberAfOtaBootloadClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOtaBootloadClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfOtaBootloadClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfOtaBootloadClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Demand Response and Load Control Cluster Callbacks

- boolean `emberAfDemandResponseLoadControlClusterLoadControlEventCallback` (int32u issuerEventId, int16u deviceClass, int8u utilityEnrollmentGroup, int32u startTime, int16u durationInMinutes, int8u criticalityLevel, int8u coolingTemperatureOffset, int8u heatingTemperatureOffset, int16s coolingTemperatureSetPoint, int16s heatingTemperatureSetPoint, int8s averageLoadAdjustmentPercentage, int8u dutyCycle, int8u eventControl)
- boolean `emberAfDemandResponseLoadControlClusterCancelLoadControlEventCallback` (int32u issuerEventId, int16u deviceClass, int8u utilityEnrollmentGroup, int8u cancelControl, int32u effectiveTime)
- boolean `emberAfDemandResponseLoadControlClusterCancelAllLoadControlEventsCallback` (int8u cancelControl)
- boolean `emberAfDemandResponseLoadControlClusterReportEventStatusCallback` (int32u issuerEventId, int8u eventStatus, int32u eventStatusTime, int8u criticalityLevelApplied, int16s coolingTemperatureSetPointApplied, int16s heatingTemperatureSetPointApplied, int8s averageLoadAdjustmentPercentageApplied, int8u dutyCycleApplied, int8u eventControl, int8u signatureType, int8u *signature)
- boolean `emberAfDemandResponseLoadControlClusterGetScheduledEventsCallback` (int32u startTime, int8u numberofEvents)
- void `emberAfDemandResponseLoadControlClusterServerInitCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterClientInitCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterServerTickCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterClientTickCallback` (int8u endpoint)
- void `emberAfDemandResponseLoadControlClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDemandResponseLoadControlClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfDemandResponseLoadControlClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDemandResponseLoadControlClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfDemandResponseLoadControlClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDemandResponseLoadControlClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfDemandResponseLoadControlClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfDemandResponseLoadControlClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Simple Metering Cluster Callbacks

- boolean `emberAfSimpleMeteringClusterGetProfileResponseCallback` (int32u endTime, int8u status, int8u profileIntervalPeriod, int8u numberofPeriodsDelivered, int8u *intervals)
- boolean `emberAfSimpleMeteringClusterRequestMirrorCallback` (void)
- boolean `emberAfSimpleMeteringClusterRemoveMirrorCallback` (void)
- boolean `emberAfSimpleMeteringClusterRequestFastPollModeResponseCallback` (int8u appliedUpdatePeriod, int32u fastPollModeEndtime)
- boolean `emberAfSimpleMeteringClusterGetProfileCallback` (int8u intervalChannel, int32u endTime, int8u numberofPeriods)
- boolean `emberAfSimpleMeteringClusterRequestMirrorResponseCallback` (int16u endpointId)
- boolean `emberAfSimpleMeteringClusterMirrorRemovedCallback` (int16u endpointId)
- boolean `emberAfSimpleMeteringClusterRequestFastPollModeCallback` (int8u fastPollUpdatePeriod, int8u duration)
- void `emberAfSimpleMeteringClusterServerInitCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterClientInitCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterServerTickCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterClientTickCallback` (int8u endpoint)
- void `emberAfSimpleMeteringClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSimpleMeteringClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSimpleMeteringClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSimpleMeteringClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSimpleMeteringClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSimpleMeteringClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSimpleMeteringClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfSimpleMeteringClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Price Cluster Callbacks

- boolean `emberAfPriceClusterPublishPriceCallback` (int32u providerId, int8u *rateLabel, int32u issuerEventId, int32u currentTime, int8u unitOfMeasure, int16u currency, int8u priceTrailingDigitAndPriceTier, int8u numberofPriceTiersAndRegisterTier, int32u startTime, int16u durationInMinutes, int32u price, int8u priceRatio, int32u generationPrice, int8u generationPriceRatio, int32u alternateCostDelivered, int8u alternateCostUnit, int8u alternateCostTrailingDigit, int8u numberofBlockThresholds, int8u priceControl)
- boolean `emberAfPriceClusterPublishBlockPeriodCallback` (int32u providerId, int32u issuerEventId, int32u blockPeriodStartTime, int32u blockPeriodDurationInMinutes, int8u numberofPriceTiersAndNumberofBlockThresholds, int8u blockPeriodControl)
- boolean `emberAfPriceClusterGetCurrentPriceCallback` (int8u commandOptions)
- boolean `emberAfPriceClusterGetScheduledPricesCallback` (int32u startTime, int8u numberofEvents)
- boolean `emberAfPriceClusterPriceAcknowledgementCallback` (int32u providerId, int32u issuerEventId, int32u priceAckTime, int8u control)

- boolean `emberAfPriceClusterGetBlockPeriodsCallback` (int32u startTime, int8u numberOfEvents)
- void `emberAfPriceClusterServerInitCallback` (int8u endpoint)
- void `emberAfPriceClusterClientInitCallback` (int8u endpoint)
- void `emberAfPriceClusterServerTickCallback` (int8u endpoint)
- void `emberAfPriceClusterClientTickCallback` (int8u endpoint)
- void `emberAfPriceClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPriceClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfPriceClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPriceClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, - `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPriceClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPriceClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfPriceClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfPriceClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Messaging Cluster Callbacks

- boolean `emberAfMessagingClusterDisplayMessageCallback` (int32u messageId, int8u messageControl, int32u startTime, int16u durationInMinutes, int8u *message)
- boolean `emberAfMessagingClusterCancelMessageCallback` (int32u messageId, int8u messageControl)
- boolean `emberAfMessagingClusterGetLastMessageCallback` (void)
- boolean `emberAfMessagingClusterMessageConfirmationCallback` (int32u messageId, int32u confirmationTime)
- void `emberAfMessagingClusterServerInitCallback` (int8u endpoint)
- void `emberAfMessagingClusterClientInitCallback` (int8u endpoint)
- void `emberAfMessagingClusterServerTickCallback` (int8u endpoint)
- void `emberAfMessagingClusterClientTickCallback` (int8u endpoint)
- void `emberAfMessagingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfMessagingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfMessagingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfMessagingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfMessagingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfMessagingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfMessagingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

- void `emberAfMessagingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Tunneling Cluster Callbacks

- boolean `emberAfTunnelingClusterRequestTunnelCallback` (int8u protocolId, int16u manufacturerCode, int8u flowControlSupport, int16u maximumIncomingTransferSize)
- boolean `emberAfTunnelingClusterCloseTunnelCallback` (int16u tunnelId)
- boolean `emberAfTunnelingClusterTransferDataClientToServerCallback` (int16u tunnelId, int8u *data)
- boolean `emberAfTunnelingClusterTransferDataErrorClientToServerCallback` (int16u tunnelId, int8u transferDataStatus)
- boolean `emberAfTunnelingClusterAckTransferDataClientToServerCallback` (int16u tunnelId, int16u numberOfWorksLeft)
- boolean `emberAfTunnelingClusterReadyDataClientToServerCallback` (int16u tunnelId, int16u numberOfWorksLeft)
- boolean `emberAfTunnelingClusterGetSupportedTunnelProtocolsCallback` (int8u protocolOffset)
- boolean `emberAfTunnelingClusterRequestTunnelResponseCallback` (int16u tunnelId, int8u tunnelStatus, int16u maximumIncomingTransferSize)
- boolean `emberAfTunnelingClusterTransferDataServerToClientCallback` (int16u tunnelId, int8u *data)
- boolean `emberAfTunnelingClusterTransferDataErrorServerToClientCallback` (int16u tunnelId, int8u transferDataStatus)
- boolean `emberAfTunnelingClusterAckTransferDataServerToClientCallback` (int16u tunnelId, int16u numberOfWorksLeft)
- boolean `emberAfTunnelingClusterReadyDataServerToClientCallback` (int16u tunnelId, int16u numberOfWorksLeft)
- boolean `emberAfTunnelingClusterSupportedTunnelProtocolsResponseCallback` (int8u protocolListComplete, int8u protocolCount, int8u *protocolList)
- boolean `emberAfTunnelingClusterTunnelClosureNotificationCallback` (int16u tunnelId)
- void `emberAfTunnelingClusterServerInitCallback` (int8u endpoint)
- void `emberAfTunnelingClusterClientInitCallback` (int8u endpoint)
- void `emberAfTunnelingClusterServerTickCallback` (int8u endpoint)
- void `emberAfTunnelingClusterClientTickCallback` (int8u endpoint)
- void `emberAfTunnelingClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTunnelingClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfTunnelingClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTunnelingClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfTunnelingClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTunnelingClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfTunnelingClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)
- void `emberAfTunnelingClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

Prepayment Cluster Callbacks

- boolean `emberAfPrepaymentClusterSelectAvailableEmergencyCreditCallback` (int32u commandDate-Time, int8u originatingDevice, int8u *siteId, int8u *meterSerialNumber)
- boolean `emberAfPrepaymentClusterChangeSupplyCallback` (int32u providerId, int32u requestDate-Time, int8u *siteId, int8u *meterSerialNumber, int32u implementationDateTime, int8u proposed-SupplyStatus, int8u originatorIdSupplyControlBits)
- boolean `emberAfPrepaymentClusterSupplyStatusResponseCallback` (int32u providerId, int32u implementation-DateTime, int8u supplyStatus)
- void `emberAfPrepaymentClusterServerInitCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterClientInitCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterServerTickCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterClientTickCallback` (int8u endpoint)
- void `emberAfPrepaymentClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttribute-Id` attributeId)
- void `emberAfPrepaymentClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttribute-Id` attributeId)
- void `emberAfPrepaymentClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPrepaymentClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfPrepaymentClusterServerDefaultResponseCallback` (int8u endpoint, int8u command-Id, `EmberAfStatus` status)
- void `emberAfPrepaymentClusterClientDefaultResponseCallback` (int8u endpoint, int8u command-Id, `EmberAfStatus` status)
- void `emberAfPrepaymentClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus sta-tus)
- void `emberAfPrepaymentClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus sta-tus)

Key establishment Cluster Callbacks

- boolean `emberAfKeyEstablishmentClusterClientCommandReceivedCallback` (`EmberAfClusterCommand` *cmd)
- boolean `emberAfKeyEstablishmentClusterServerCommandReceivedCallback` (`EmberAfClusterCommand` *cmd)
- boolean `emberAfKeyEstablishmentClusterInitiateKeyEstablishmentRequestCallback` (int16u keyEstablish-
Suite, int8u ephemeralDataGenerateTime, int8u confirmKeyGenerateTime, int8u *identity)
- boolean `emberAfKeyEstablishmentClusterEphemeralDataRequestCallback` (int8u *ephemeralData)
- boolean `emberAfKeyEstablishmentClusterConfirmKeyDataRequestCallback` (int8u *secureMessage-
AuthenticationCode)
- boolean `emberAfKeyEstablishmentClusterTerminateKeyEstablishmentCallback` (int8u statusCode,
int8u waitTime, int16u keyEstablishmentSuite)
- boolean `emberAfKeyEstablishmentClusterInitiateKeyEstablishmentResponseCallback` (int16u requested-
KeyEstablishmentSuite, int8u ephemeralDataGenerateTime, int8u confirmKeyGenerateTime, int8u
*identity)
- boolean `emberAfKeyEstablishmentClusterEphemeralDataResponseCallback` (int8u *ephemeralData)
- boolean `emberAfKeyEstablishmentClusterConfirmKeyDataResponseCallback` (int8u *secureMessage-
AuthenticationCode)

- void `emberAfKeyEstablishmentClusterServerInitCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterClientInitCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterServerTickCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterClientTickCallback` (int8u endpoint)
- void `emberAfKeyEstablishmentClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAf-AttributeId` attributeId)
- void `emberAfKeyEstablishmentClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAf-AttributeId` attributeId)
- void `emberAfKeyEstablishmentClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfKeyEstablishmentClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfKeyEstablishmentClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfKeyEstablishmentClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfKeyEstablishmentClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfKeyEstablishmentClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, EmberStatus status)

ZLL Commissioning Cluster Callbacks

- boolean `emberAfZllCommissioningClusterScanRequestCallback` (int32u transaction, int8u zigbeeInformation, int8u zllInformation)
- boolean `emberAfZllCommissioningClusterDeviceInformationRequestCallback` (int32u transaction, int8u startIndex)
- boolean `emberAfZllCommissioningClusterIdentifyRequestCallback` (int32u transaction, int16u identifyDuration)
- boolean `emberAfZllCommissioningClusterResetToFactoryNewRequestCallback` (int32u transaction)
- boolean `emberAfZllCommissioningClusterNetworkStartRequestCallback` (int32u transaction, int8u *extendedPanId, int8u keyIndex, int8u *encryptedNetworkKey, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd, int8u *initiatorIeeeAddress, int16u initiatorNetworkAddress)
- boolean `emberAfZllCommissioningClusterNetworkJoinRouterRequestCallback` (int32u transaction, int8u *extendedPanId, int8u keyIndex, int8u *encryptedNetworkKey, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd)
- boolean `emberAfZllCommissioningClusterNetworkJoinEndDeviceRequestCallback` (int32u transaction, int8u *extendedPanId, int8u keyIndex, int8u *encryptedNetworkKey, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress, int16u groupIdentifiersBegin, int16u groupIdentifiersEnd, int16u freeNetworkAddressRangeBegin, int16u freeNetworkAddressRangeEnd, int16u freeGroupIdentifierRangeBegin, int16u freeGroupIdentifierRangeEnd)
- boolean `emberAfZllCommissioningClusterNetworkUpdateRequestCallback` (int32u transaction, int8u *extendedPanId, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u networkAddress)
- boolean `emberAfZllCommissioningClusterGetGroupIdentifiersRequestCallback` (int8u startIndex)
- boolean `emberAfZllCommissioningClusterGetEndpointListRequestCallback` (int8u startIndex)

- boolean `emberAfZllCommissioningClusterScanResponseCallback` (int32u transaction, int8u rssis-Correction, int8u zigbeeInformation, int8u zllInformation, int16u keyBitmask, int32u responseId, int8u *extendedPanId, int8u networkUpdateId, int8u logicalChannel, int16u panId, int16u network-Address, int8u numberofSubDevices, int8u totalGroupIds, int8u endpointId, int16u profileId, int16u deviceId, int8u version, int8u groupIdCount)
- boolean `emberAfZllCommissioningClusterDeviceInformationResponseCallback` (int32u transaction, int8u numberofSubDevices, int8u startIndex, int8u deviceInformationRecordCount, int8u *device-InformationRecordList)
- boolean `emberAfZllCommissioningClusterNetworkStartResponseCallback` (int32u transaction, int8u status, int8u *extendedPanId, int8u networkUpdateId, int8u logicalChannel, int16u panId)
- boolean `emberAfZllCommissioningClusterNetworkJoinRouterResponseCallback` (int32u transaction, int8u status)
- boolean `emberAfZllCommissioningClusterNetworkJoinEndDeviceResponseCallback` (int32u trans-action, int8u status)
- boolean `emberAfZllCommissioningClusterEndpointInformationCallback` (int8u *ieeeAddress, int16u networkAddress, int8u endpointId, int16u profileId, int16u deviceId, int8u version)
- boolean `emberAfZllCommissioningClusterGetGroupIdentifiersResponseCallback` (int8u total, int8u startIndex, int8u count, int8u *groupInformationRecordList)
- boolean `emberAfZllCommissioningClusterGetEndpointListResponseCallback` (int8u total, int8u start-Index, int8u count, int8u *endpointInformationRecordList)
- void `emberAfZllCommissioningClusterServerInitCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterClientInitCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterServerTickCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterClientTickCallback` (int8u endpoint)
- void `emberAfZllCommissioningClusterServerAttributeChangedCallback` (int8u endpoint, EmberAf-AttributeId attributeId)
- void `emberAfZllCommissioningClusterClientAttributeChangedCallback` (int8u endpoint, EmberAf-AttributeId attributeId)
- void `emberAfZllCommissioningClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfZllCommissioningClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, EmberAfAttributeId attributeId, int16u manufacturerCode)
- void `emberAfZllCommissioningClusterServerDefaultResponseCallback` (int8u endpoint, int8u command-Id, EmberAfStatus status)
- void `emberAfZllCommissioningClusterClientDefaultResponseCallback` (int8u endpoint, int8u command-Id, EmberAfStatus status)
- void `emberAfZllCommissioningClusterServerMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)
- void `emberAfZllCommissioningClusterClientMessageSentCallback` (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int16u msgLen, int8u *message, - EmberStatus status)

Sample Mfg Specific Cluster Cluster Callbacks

- boolean `emberAfSampleMfgSpecificClusterCommandOneCallback` (int8u argOne)
- void `emberAfSampleMfgSpecificClusterServerInitCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterClientInitCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterServerTickCallback` (int8u endpoint)
- void `emberAfSampleMfgSpecificClusterClientTickCallback` (int8u endpoint)

- void `emberAfSampleMfgSpecificClusterServerAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSampleMfgSpecificClusterClientAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId)
- void `emberAfSampleMfgSpecificClusterServerManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSampleMfgSpecificClusterClientManufacturerSpecificAttributeChangedCallback` (int8u endpoint, `EmberAfAttributeId` attributeId, int16u manufacturerCode)
- void `emberAfSampleMfgSpecificClusterServerDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSampleMfgSpecificClusterClientDefaultResponseCallback` (int8u endpoint, int8u commandId, `EmberAfStatus` status)
- void `emberAfSampleMfgSpecificClusterServerMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)
- void `emberAfSampleMfgSpecificClusterClientMessageSentCallback` (`EmberOutgoingMessageType` type, int16u indexOrDestination, `EmberApsFrame` *apsFrame, int16u msgLen, int8u *message, - `EmberStatus` status)

9.26 callback.h

```

0001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
0002 //
0003 // This file is generated. Please do not edit manually.
0004 //
0005 //
0006
0007 // Enclosing macro to prevent multiple inclusion
0008 #ifndef __EMBER_AF_CALLBACK_PROTOTYPES__
0009 #define __EMBER_AF_CALLBACK_PROTOTYPES__
0010
0011
0012 #include "app/framework/include/af-types.h"
0013
0014
0015 // @@
0016 boolean emberAfReadAttributesResponseCallback(EmberAfClusterId clusterId,
0017                                              int8u * buffer,
0018                                              int16u bufLen);
0019 boolean emberAfWriteAttributesResponseCallback(EmberAfClusterId clusterId,
0020                                              int8u * buffer,
0021                                              int16u bufLen);
0022 boolean emberAfConfigureReportingResponseCallback(EmberAfClusterId clusterId,
0023                                              int8u * buffer,
0024                                              int16u bufLen);
0025 boolean emberAfReadReportingConfigurationResponseCallback(EmberAfClusterId
clusterId,
0026                                              int8u * buffer,
0027                                              int16u bufLen);
0028 boolean emberAfReportAttributesCallback(EmberAfClusterId clusterId,
0029                                              int8u * buffer,
0030                                              int16u bufLen);
0031 boolean emberAfDefaultResponseCallback(EmberAfClusterId clusterId,
0032                                              int8u commandId,
0033                                              EmberAfStatus status);
0034 boolean emberAfDiscoverAttributesResponseCallback(EmberAfClusterId clusterId,
0035                                              boolean discoveryComplete,
0036                                              int8u * buffer,
0037                                              int16u bufLen);
0038 EmberAfAttributeWritePermission emberAfAllowNetworkWriteAttributeCallback(int8u
endpoint,
0039
EmberAfClusterId clusterId,
0040
EmberAfAttributeId attributeId,
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00155     int16u manufacturerCode,
00156                                         int8u
00157     * value,
00158     type);
00173 void emberAfPreAttributeChangeCallback(int8u endpoint,
00174                                         EmberAfClusterId clusterId,
00175                                         EmberAfAttributeId attributeId,
00176                                         int8u mask,
00177                                         int16u manufacturerCode,
00178                                         int8u type,
00179                                         int8u size,
00180                                         int8u* value);
00196 void emberAfPostAttributeChangeCallback(int8u endpoint,
00197                                         EmberAfClusterId clusterId,
00198                                         EmberAfAttributeId attributeId,
00199                                         int8u mask,
00200                                         int16u manufacturerCode,
00201                                         int8u type,
00202                                         int8u size,
00203                                         int8u* value);
00218 boolean emberAfPreMessageReceivedCallback(EmberAfIncomingMessage*
00219     incomingMessage);
00230 boolean emberAfPreCommandReceivedCallback(EmberAfClusterCommand* cmd);
00243 boolean emberAfPreZDOMessageReceivedCallback(EmberNodeId emberNodeId,
00244                                         EmberApsFrame* apsFrame,
00245                                         int8u* message,
00246                                         int16u length);
00265 boolean emberAfMessageSentCallback(EmberOutgoingMessageType type,
00266                                         int16u indexOrDestination,
00267                                         EmberApsFrame* apsFrame,
00268                                         int16u msgLen,
00269                                         int8u* message,
00270                                         EmberStatus status);
00281 boolean emberAfStackStatusCallback(EmberStatus status);
00295 void emberAfNcpInitCallback(boolean memoryAllocation);
00303 void emberAfMainInitCallback(void);
00314 void emberAfClusterInitCallback(int8u endpoint,
00315                                         EmberAfClusterId clusterId);
00326 boolean emberAfPreGoToSleepCallback(int32u sleepDurationAttempt);
00334 void emberAfPostWakeUpCallback(int32u sleepDuration);
00341 void emberAfMainTickCallback(void);
00360 boolean emberAfExternalAttributeWriteCallback(int8u endpoint,
00361                                         EmberAfClusterId clusterId,
00362                                         EmberAfAttributeMetadata *
00363                                         attributeMetadata,
00364                                         int16u manufacturerCode,
00365                                         int8u * buffer);
00378 boolean emberAfExternalAttributeReadCallback(int8u endpoint,
00379                                         EmberAfClusterId clusterId,
00380                                         EmberAfAttributeMetadata *
00381                                         attributeMetadata,
00382                                         int16u manufacturerCode,
00383                                         int8u * buffer);
00398 void emberAfTrustCenterJoinCallback(EmberNodeId newNodeId,
00399                                         EmberEUI64 newNodeEui64,
00400                                         EmberNodeId parentOfNewNode,
00401                                         EmberDeviceUpdate status,
00402                                         EmberJoinDecision decision);
00412 int32u emberAfGetCurrentTimeCallback(void);
00424 void emberAfSetTimeCallback(int32u utcTime);
00435 EmberStatus emberAfInitiateKeyEstablishmentCallback(EmberNodeId nodeId,
00436                                         int8u endpoint);
00448 EmberStatus emberAfInitiateInterPanKeyEstablishmentCallback(EmberPanId panId,
00449                                         const EmberEUI64
00450                                         eui64);
00465 boolean emberAfKeyEstablishmentCallback(EmberAfKeyEstablishmentNotifyMessage
00466                                         status,
00467                                         boolean amInitiator,
00468                                         EmberNodeId partnerShortId,
00469                                         int8u delayInSeconds);
00485 boolean emberAfInterPanKeyEstablishmentCallback(
00486                                         EmberAfKeyEstablishmentNotifyMessage status,
00487                                         boolean amInitiator,
00488                                         EmberPanId panId,
00489                                         const EmberEUI64 eui64,
00490                                         int8u delayInSeconds);
00497 boolean emberAfPerformingKeyEstablishmentCallback(void);
00512 EmberStatus emberAfInitiatePartnerLinkExchangeCallback(EmberNodeId target,

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00513                                     int8u endpoint,
00514
00515     EmberAfPartnerLinkKeyExchangeCallback * callback);
00525 EmberStatus emberAfPartnerLinkKeyExchangeRequestCallback(EmberEUI64 partner);
00537 void emberAfPartnerLinkKeyExchangeResponseCallback(EmberNodeId sender,
00538                                         EmberZdoStatus status);
00548 EmberStatus emberAfRegistrationStartCallback(void);
00555 void emberAfRegistrationAbortCallback(void);
00566 void emberAfRegistrationCallback(boolean success);
00577 void emberAfTrustCenterKeepaliveUpdateCallback(boolean registrationComplete);
00584 void emberAfTrustCenterKeepaliveAbortCallback(void);
00594 boolean emberAfOtaServerIncomingMessageRawCallback(EmberAfClusterCommand *
00595     message);
00616 boolean emberAfOtaServerSendImageNotifyCallback(EmberNodeId dest,
00617                                         int8u endpoint,
00618                                         int8u payloadType,
00619                                         int8u queryJitter,
00620                                         const EmberAfOtaImageId* id);
00626 boolean emberAfOtaStorageDriverInitCallback(void);
00638 boolean emberAfOtaStorageDriverReadCallback(int32u offset,
00639                                         int32u length,
00640                                         int8u* returnData);
00653 boolean emberAfOtaStorageDriverWriteCallback(const int8u* dataToWrite,
00654                                         int32u offset,
00655                                         int32u length);
00664 void emberAfOtaStorageDriverDownloadFinishCallback(int32u offset);
00672 int32u emberAfOtaStorageDriverRetrieveLastStoredOffsetCallback(void);
00680 EmberAfOtaStorageStatus emberAfOtaStorageDriverInvalidateImageCallback(void);
00688 EmberAfOtaStorageStatus emberAfOtaStorageDriverPrepareToResumeDownloadCallback(
00689     void);
00699 int8u emberAfOtaBootloadCallback(const EmberAfOtaImageId* id,
00700                                         int16u ncpUpgradeTagId);
00706 EmberAfOtaStorageStatus emberAfOtaStorageInitCallback(void);
00712 void emberAfOtaStorageCloseCallback(void);
00719 int8u emberAfOtaStorageGetCountCallback(void);
00738 EmberAfOtaImageId emberAfOtaStorageSearchCallback(int16u manufacturerId,
00739                                         int16u imageTypeId,
00740                                         const int16u* hardwareVersion
00741 );
00750 int32u emberAfOtaStorageGetTotalImageSizeCallback(const EmberAfOtaImageId* id);
00758 EmberAfOtaImageId emberAfOtaStorageIteratorFirstCallback(void);
00766 EmberAfOtaImageId emberAfOtaStorageIteratorNextCallback(void);
00777 EmberAfOtaStorageStatus emberAfOtaStorageGetFullHeaderCallback(const
00778     EmberAfOtaImageId* id,
00779                                         EmberAfOtaHeader
00780     * returnData);
00795 EmberAfOtaStorageStatus emberAfOtaStorageReadImageDataCallback(const
00796     EmberAfOtaImageId* id,
00797                                         int32u offset,
00798                                         int32u length,
00799                                         int8u*
00800     returnData,
00801                                         int32u*
00802     returnedLength);
00806 EmberAfOtaStorageStatus emberAfOtaStorageClearTempDataCallback(void);
00818 EmberAfOtaStorageStatus emberAfOtaStorageWriteTempDataCallback(int32u offset,
00819                                         int32u length,
00820                                         const int8u*
00821     data);
00842 EmberAfOtaStorageStatus emberAfOtaStorageCheckTempDataCallback(int32u*
00843     currentOffset,
00844                                         int32u*
00845     totalImageSize,
00846                                         EmberAfOtaImageId
00847     * newFileInfo);
00853 EmberAfOtaStorageStatus emberAfOtaStorageFinishDownloadCallback(int32u offset);
00863 boolean emberAfOtaClientIncomingMessageRawCallback(EmberAfClusterCommand *
00864     message);
00872 void emberAfOtaClientStartCallback(void);
00888 void emberAfOtaClientVersionInfoCallback(EmberAfOtaImageId* currentImageInfo,
00889                                         int16u* hardwareVersion);
00901 EmberAfImageVerifyStatus emberAfOtaClientCustomVerifyCallback(boolean
00902     newVerification,
00903                                         const
00904     EmberAfOtaImageId* id);
00919 boolean emberAfOtaClientDownloadCompleteCallback(boolean success,
00920                                         const EmberAfOtaImageId* id);
00930 void emberAfOtaClientBootloadCallback(const EmberAfOtaImageId* id);
00946 int8u emberAfOtaServerQueryCallback(const EmberAfOtaImageId* currentImageId,
00947                                         int16u* hardwareVersion,

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00948             EmberAfOtaImageId* nextUpgradeImageId);
00957 int8u emberAfOtaServerBlockSizeCallback(EmberNodeId clientNodeId);
00973 int8u emberAfOtaServerImageBlockRequestCallback(const EmberAfOtaImageId* id,
00974                                         int32u offset,
00975                                         int8u maxDataSize,
00976                                         int32u* waitTimeMinutes);
00996 boolean emberAfOtaServerUpgradeEndRequestCallback(EmberNodeId source,
00997                                         int8u status,
00998                                         int32u* returnValue,
00999                                         const EmberAfOtaImageId*
01000                                     imageId);
01009 int8u emberAfOtaPageRequestServerPolicyCallback(void);
01020 EmberStatus emberAfInterpanSendMessageCallback(EmberAfInterpanHeader* header,
01021                                         int16u messageLength,
01022                                         int8u* message);
01033 void emberAfUnusedPanIdFoundCallback(EmberPanId panId,
01034                                         int8u channel);
01046 void emberAfJoinableNetworkFoundCallback(EmberZigbeeNetwork * networkFound,
01047                                         int8u lqi,
01048                                         int8s rssi);
01057 void emberAfScanErrorCallback(EmberStatus status);
01065 EmberStatus emberAfFindUnusedPanIdAndFormCallback(void);
01073 EmberStatus emberAfStartSearchForJoinableNetworkCallback(void);
01080 void emberAfContinueJoinableNetworkSearchCallback(void);
01087 void emberAfNetworkFindOperationCompleteCallback(void);
01101 boolean emberAfClusterSecurityCustomCallback(EmberAfProfileId profileId,
01102                                         EmberAfClusterId clusterId,
01103                                         boolean incoming,
01104                                         int8u commandId);
01115 boolean emberAfConfigureReportingCommandCallback(const EmberAfClusterCommand *
01116 cmd);
01124 boolean emberAfReadReportingConfigurationCommandCallback(const
01125 EmberAfClusterCommand * cmd);
01131 EmberStatus emberAfClearReportTableCallback(void);
01147 void emberAfReportingAttributeChangeCallback(int8u endpoint,
01148                                         EmberAfClusterId clusterId,
01149                                         EmberAfAttributeId attributeId,
01150                                         int8u mask,
01151                                         int16u manufacturerCode,
01152                                         EmberAfAttributeType type,
01153                                         int8u * data);
01161 void emberAfNetworkKeyUpdateCompleteCallback(EmberStatus status);
01165 // @{
01166
01171 boolean emberAfBasicClusterResetToFactoryDefaultsCallback(void);
01178 void emberAfBasicClusterServerInitCallback(int8u endpoint);
01185 void emberAfBasicClusterClientInitCallback(int8u endpoint);
01192 void emberAfBasicClusterServerTickCallback(int8u endpoint);
01199 void emberAfBasicClusterClientTickCallback(int8u endpoint);
01207 void emberAfBasicClusterServerAttributeChangedCallback(int8u endpoint,
01208                                         EmberAfAttributeId
01209                                         attributeId);
01216 void emberAfBasicClusterClientAttributeChangedCallback(int8u endpoint,
01217                                         EmberAfAttributeId
01218                                         attributeId);
01227 void emberAfBasicClusterServerManufacturerSpecificAttributeChangedCallback(
01228                                         int8u endpoint,
01229                                         EmberAfAttributeId attributeId,
01239                                         int16u manufacturerCode);
01240 void emberAfBasicClusterClientManufacturerSpecificAttributeChangedCallback(
01241                                         int8u endpoint,
01242                                         EmberAfAttributeId attributeId,
01243                                         int16u manufacturerCode);
01250 void emberAfBasicClusterServerDefaultResponseCallback(int8u endpoint,
01251                                         int8u commandId,
01252                                         EmberAfStatus status);
01261 void emberAfBasicClusterClientDefaultResponseCallback(int8u endpoint,
01262                                         int8u commandId,
01263                                         EmberAfStatus status);
01276 void emberAfBasicClusterServerMessageSentCallback(EmberOutgoingMessageType type
01277                                         ,
01278                                         int16u indexOrDestination,
01279                                         EmberApsFrame * apsFrame,
01280                                         int16u msgLen,
01281                                         int8u * message,
01281                                         EmberStatus status);

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01294 void emberAfBasicClusterClientMessageSentCallback(EmberOutgoingMessageType type
01295 ,
01296                                     int16u indexOrDestination,
01297                                     EmberApsFrame * apsFrame,
01298                                     int16u msgLen,
01299                                     int8u * message,
01300                                     EmberStatus status);
01304 // @{
01305
01312 void emberAfPowerConfigClusterServerInitCallback(int8u endpoint);
01319 void emberAfPowerConfigClusterClientInitCallback(int8u endpoint);
01326 void emberAfPowerConfigClusterServerTickCallback(int8u endpoint);
01333 void emberAfPowerConfigClusterClientTickCallback(int8u endpoint);
01341 void emberAfPowerConfigClusterServerAttributeChangedCallback(int8u endpoint,
01342                                     EmberAfAttributeId
01343                                     attributeId);
01350 void emberAfPowerConfigClusterClientAttributeChangedCallback(int8u endpoint,
01351                                     EmberAfAttributeId
01352                                     attributeId);
01361 void emberAfPowerConfigClusterServerManufacturerSpecificAttributeChangedCallback
01362 (int8u endpoint,
01363     EmberAfAttributeId attributeId,
01364     int16u manufacturerCode);
01373 void emberAfPowerConfigClusterClientManufacturerSpecificAttributeChangedCallback
01374 (int8u endpoint,
01375     EmberAfAttributeId attributeId,
01376     int16u manufacturerCode);
01384 void emberAfPowerConfigClusterServerDefaultResponseCallback(int8u endpoint,
01385                                     int8u commandId,
01386                                     EmberAfStatus
01387                                     status);
01395 void emberAfPowerConfigClusterClientDefaultResponseCallback(int8u endpoint,
01396                                     int8u commandId,
01397                                     EmberAfStatus
01398                                     status);
01410 void emberAfPowerConfigClusterServerMessageSentCallback(
01411     EmberOutgoingMessageType type,
01412     int16u
01413     indexOrDestination,
01414     EmberApsFrame *
01415     apsFrame,
01416     int16u msgLen,
01417     int8u * message,
01418     EmberStatus status);
01428 void emberAfPowerConfigClusterClientMessageSentCallback(
01429     EmberOutgoingMessageType type,
01430     int16u
01431     indexOrDestination,
01432     EmberApsFrame *
01433     apsFrame,
01434     int16u msgLen,
01435     int8u * message,
01436     EmberStatus status);
01438 // @@
01439
01446 void emberAfDeviceTempClusterServerInitCallback(int8u endpoint);
01453 void emberAfDeviceTempClusterClientInitCallback(int8u endpoint);
01460 void emberAfDeviceTempClusterServerTickCallback(int8u endpoint);
01467 void emberAfDeviceTempClusterClientTickCallback(int8u endpoint);
01475 void emberAfDeviceTempClusterServerAttributeChangedCallback(int8u endpoint,
01476                                     EmberAfAttributeId
01477                                     attributeId);
01484 void emberAfDeviceTempClusterClientAttributeChangedCallback(int8u endpoint,
01485                                     EmberAfAttributeId
01486                                     attributeId);
01496 void emberAfDeviceTempClusterServerManufacturerSpecificAttributeChangedCallback
01497 (int8u endpoint,
01498     EmberAfAttributeId attributeId,
01499     int16u manufacturerCode);
01509 void emberAfDeviceTempClusterClientManufacturerSpecificAttributeChangedCallback
01510 (int8u endpoint,

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        EmberAfAttributeId attributeId,
01511     int16u manufacturerCode);
01520 void emberAfDeviceTempClusterServerDefaultResponseCallback(int8u endpoint,
01521                                         int8u commandId,
01522                                         EmberAfStatus status
01523 );
01531 void emberAfDeviceTempClusterClientDefaultResponseCallback(int8u endpoint,
01532                                         int8u commandId,
01533                                         EmberAfStatus status
01534 );
01546 void emberAfDeviceTempClusterServerMessageSentCallback(EmberOutgoingMessageType
01547     type,
01548     int16u
01549     indexOrDestination,
01548     EmberApsFrame * apsFrame
01550     ,
01551     int16u msgLen,
01550     int8u * message,
01551     EmberStatus status);
01564 void emberAfDeviceTempClusterClientMessageSentCallback(EmberOutgoingMessageType
01565     type,
01565     int16u
01566     indexOrDestination,
01566     EmberApsFrame * apsFrame
01567     ,
01568     int16u msgLen,
01569     int8u * message,
01570     EmberStatus status);
01574 // @{
01575
01581 boolean emberAfIdentifyClusterIdentifyCallback(int16u identifyTime);
01586 boolean emberAfIdentifyClusterIdentifyQueryCallback(void);
01592 boolean emberAfIdentifyClusterIdentifyQueryResponseCallback(int16u timeout);
01599 void emberAfIdentifyClusterServerInitCallback(int8u endpoint);
01606 void emberAfIdentifyClusterClientInitCallback(int8u endpoint);
01613 void emberAfIdentifyClusterServerTickCallback(int8u endpoint);
01620 void emberAfIdentifyClusterClientTickCallback(int8u endpoint);
01628 void emberAfIdentifyClusterServerAttributeChangedCallback(int8u endpoint,
01629                                         EmberAfAttributeId
01630                                         attributeId);
01637 void emberAfIdentifyClusterClientAttributeChangedCallback(int8u endpoint,
01638                                         EmberAfAttributeId
01639                                         attributeId);
01648 void emberAfIdentifyClusterServerManufacturerSpecificAttributeChangedCallback(
01649     int8u endpoint,
01650     EmberAfAttributeId attributeId,
01651     int16u manufacturerCode);
01660 void emberAfIdentifyClusterClientManufacturerSpecificAttributeChangedCallback(
01661     int8u endpoint,
01662     EmberAfAttributeId attributeId,
01662     int16u manufacturerCode);
01671 void emberAfIdentifyClusterServerDefaultResponseCallback(int8u endpoint,
01672                                         int8u commandId,
01673                                         EmberAfStatus status);
01682 void emberAfIdentifyClusterClientDefaultResponseCallback(int8u endpoint,
01683                                         int8u commandId,
01684                                         EmberAfStatus status);
01697 void emberAfIdentifyClusterServerMessageSentCallback(EmberOutgoingMessageType
01698     type,
01698     int16u indexOrDestination,
01699     EmberApsFrame * apsFrame,
01700     int16u msgLen,
01701     int8u * message,
01702     EmberStatus status);
01715 void emberAfIdentifyClusterClientMessageSentCallback(EmberOutgoingMessageType
01716     type,
01716     int16u indexOrDestination,
01717     EmberApsFrame * apsFrame,
01718     int16u msgLen,
01719     int8u * message,
01720     EmberStatus status);
01727 boolean emberAfIdentifyClusterTriggerEffectCallback(int8u effectId,

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01728                               int8u effectVariant);
01729
01733 // @{
01734
01744 boolean emberAfGroupsClusterEndpointInGroupCallback(int8u endpoint,
01745                                         int16u groupId);
01752 void emberAfGroupsClusterClearGroupTableCallback(void);
01759 boolean emberAfGroupsClusterAddGroupCallback(int16u groupId,
01760                                         int8u* groupName);
01766 boolean emberAfGroupsClusterViewGroupCallback(int16u groupId);
01773 boolean emberAfGroupsClusterGetGroupMembershipCallback(int8u groupCount,
01774                                         int8u* groupList);
01780 boolean emberAfGroupsClusterRemoveGroupCallback(int16u groupId);
01785 boolean emberAfGroupsClusterRemoveAllGroupsCallback(void);
01792 boolean emberAfGroupsClusterAddGroupIfIdentifyingCallback(int16u groupId,
01793                                         int8u* groupName);
01800 boolean emberAfGroupsClusterAddGroupResponseCallback(int8u status,
01801                                         int16u groupId);
01809 boolean emberAfGroupsClusterViewGroupResponseCallback(int8u status,
01810                                         int16u groupId,
01811                                         int8u* groupName);
01819 boolean emberAfGroupsClusterGetGroupMembershipResponseCallback(int8u capacity,
01820                                         int8u groupCount
01821                                         ,
01821                                         int8u* groupList
01821 );
01828 boolean emberAfGroupsClusterRemoveGroupResponseCallback(int8u status,
01829                                         int16u groupId);
01836 void emberAfGroupsClusterServerInitCallback(int8u endpoint);
01843 void emberAfGroupsClusterClientInitCallback(int8u endpoint);
01850 void emberAfGroupsClusterServerTickCallback(int8u endpoint);
01857 void emberAfGroupsClusterClientTickCallback(int8u endpoint);
01865 void emberAfGroupsClusterServerAttributeChangedCallback(int8u endpoint,
01866                                         EmberAfAttributeId
01866 attributeId);
01874 void emberAfGroupsClusterClientAttributeChangedCallback(int8u endpoint,
01875                                         EmberAfAttributeId
01875 attributeId);
01885 void emberAfGroupsClusterServerManufacturerSpecificAttributeChangedCallback(
01886 int8u endpoint,
01886 EmberAfAttributeId attributeId,
01887
01887 int16u manufacturerCode);
01897 void emberAfGroupsClusterClientManufacturerSpecificAttributeChangedCallback (
01898 int8u endpoint,
01898 EmberAfAttributeId attributeId,
01899
01899 int16u manufacturerCode);
01908 void emberAfGroupsClusterServerDefaultResponseCallback(int8u endpoint,
01909                                         int8u commandId,
01910                                         EmberAfStatus status);
01919 void emberAfGroupsClusterClientDefaultResponseCallback(int8u endpoint,
01920                                         int8u commandId,
01921                                         EmberAfStatus status);
01934 void emberAfGroupsClusterServerMessageSentCallback(EmberOutgoingMessageType
01935 type,
01935                                         int16u indexOrDestination,
01936                                         EmberApsFrame * apsFrame,
01937                                         int16u msgLen,
01938                                         int8u * message,
01939                                         EmberStatus status);
01952 void emberAfGroupsClusterClientMessageSentCallback(EmberOutgoingMessageType
01953 type,
01953                                         int16u indexOrDestination,
01954                                         EmberApsFrame * apsFrame,
01955                                         int16u msgLen,
01956                                         int8u * message,
01957                                         EmberStatus status);
01958
01962 // @@
01963
01976 EmberAfStatus emberAfScenesClusterStoreCurrentSceneCallback(int8u endpoint,
01977                                         int16u groupId,
01978                                         int8u sceneId);
01988 EmberAfStatus emberAfScenesClusterRecallSavedSceneCallback(int8u endpoint,
01989                                         int16u groupId,
01990                                         int8u sceneId);
01997 void emberAfScenesClusterClearSceneTableCallback(void);

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02007 boolean emberAfScenesClusterAddSceneCallback(int16u groupId,
02008                                         int8u sceneId,
02009                                         int16u transitionTime,
02010                                         int8u* sceneName,
02011                                         int8u* extensionFieldSets);
02018 boolean emberAfScenesClusterViewSceneCallback(int16u groupId,
02019                                         int8u sceneId);
02026 boolean emberAfScenesClusterRemoveSceneCallback(int16u groupId,
02027                                         int8u sceneId);
02033 boolean emberAfScenesClusterRemoveAllScenesCallback(int16u groupId);
02040 boolean emberAfScenesClusterStoreSceneCallback(int16u groupId,
02041                                         int8u sceneId);
02048 boolean emberAfScenesClusterRecallSceneCallback(int16u groupId,
02049                                         int8u sceneId);
02055 boolean emberAfScenesClusterGetSceneMembershipCallback(int16u groupId);
02063 boolean emberAfScenesClusterAddSceneResponseCallback(int8u status,
02064                                         int16u groupId,
02065                                         int8u sceneId);
02076 boolean emberAfScenesClusterViewSceneResponseCallback(int8u status,
02077                                         int16u groupId,
02078                                         int8u sceneId,
02079                                         int16u transitionTime,
02080                                         int8u* sceneName,
02081                                         int8u* extensionFieldSets
02081 );
02089 boolean emberAfScenesClusterRemoveSceneResponseCallback(int8u status,
02090                                         int16u groupId,
02091                                         int8u sceneId);
02098 boolean emberAfScenesClusterRemoveAllScenesResponseCallback(int8u status,
02099                                         int16u groupId);
02107 boolean emberAfScenesClusterStoreSceneResponseCallback(int8u status,
02108                                         int16u groupId,
02109                                         int8u sceneId);
02119 boolean emberAfScenesClusterGetSceneMembershipResponseCallback(int8u status,
02120                                         int8u capacity,
02121                                         int16u groupId,
02122                                         int8u sceneCount
02122 ,
02123                                         int8u* sceneList
02123 );
02130 void emberAfScenesClusterServerInitCallback(int8u endpoint);
02137 void emberAfScenesClusterClientInitCallback(int8u endpoint);
02144 void emberAfScenesClusterServerTickCallback(int8u endpoint);
02151 void emberAfScenesClusterClientTickCallback(int8u endpoint);
02159 void emberAfScenesClusterServerAttributeChangedCallback(int8u endpoint,
02160                                         EmberAfAttributeId
02160 attributeId);
02168 void emberAfScenesClusterClientAttributeChangedCallback(int8u endpoint,
02169                                         EmberAfAttributeId
02169 attributeId);
02179 void emberAfScenesClusterServerManufacturerSpecificAttributeChangedCallback(
02180     int8u endpoint,
02181     EmberAfAttributeId attributeId,
02181     int16u manufacturerCode);
02191 void emberAfScenesClusterClientManufacturerSpecificAttributeChangedCallback(
02192     int8u endpoint,
02192     EmberAfAttributeId attributeId,
02193     int16u manufacturerCode);
02202 void emberAfScenesClusterServerDefaultResponseCallback(int8u endpoint,
02203                                         int8u commandId,
02204                                         EmberAfStatus status);
02213 void emberAfScenesClusterClientDefaultResponseCallback(int8u endpoint,
02214                                         int8u commandId,
02215                                         EmberAfStatus status);
02228 void emberAfScenesClusterServerMessageSentCallback(EmberOutgoingMessageType
02228 type,
02229                                         int16u indexOrDestination,
02230                                         EmberApsFrame * apsFrame,
02231                                         int16u msgLen,
02232                                         int8u * message,
02233                                         EmberStatus status);
02246 void emberAfScenesClusterClientMessageSentCallback(EmberOutgoingMessageType
02246 type,
02247                                         int16u indexOrDestination,
02248                                         EmberApsFrame * apsFrame,
02249                                         int16u msgLen,

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02250                               int8u * message,
02251                               EmberStatus status);
02261 boolean emberAfScenesClusterEnhancedAddSceneCallback(int16u groupId,
02262                                         int8u sceneId,
02263                                         int16u transitionTime,
02264                                         int8u* sceneName,
02265                                         int8u* extensionFieldSets)
02266 ;
02272 boolean emberAfScenesClusterEnhancedViewSceneCallback(int16u groupId,
02273                                         int8u sceneId);
02283 boolean emberAfScenesClusterCopySceneCallback(int8u mode,
02284                                         int16u groupIdFrom,
02285                                         int8u sceneIdFrom,
02286                                         int16u groupIdTo,
02287                                         int8u sceneIdTo);
02295 boolean emberAfScenesClusterEnhancedAddSceneResponseCallback(int8u status,
02296                                         int16u groupId,
02297                                         int8u sceneId);
02308 boolean emberAfScenesClusterEnhancedViewSceneResponseCallback(int8u status,
02309                                         int16u groupId,
02310                                         int8u sceneId,
02311                                         int16u
02312                                         transitionTime,
02312                                         int8u* sceneName,
02313                                         int8u*
02314                                         extensionFieldSets);
02321 boolean emberAfScenesClusterCopySceneResponseCallback(int8u status,
02322                                         int16u groupIdFrom,
02323                                         int8u sceneIdFrom);
02324
02328 // @{
02329
02334 boolean emberAfOnOffClusterOffCallback(void);
02339 boolean emberAfOnOffClusterOnCallback(void);
02344 boolean emberAfOnOffClusterToggleCallback(void);
02351 void emberAfOnOffClusterServerInitCallback(int8u endpoint);
02358 void emberAfOnOffClusterClientInitCallback(int8u endpoint);
02365 void emberAfOnOffClusterServerTickCallback(int8u endpoint);
02372 void emberAfOnOffClusterClientTickCallback(int8u endpoint);
02380 void emberAfOnOffClusterServerAttributeChangedCallback(int8u endpoint,
02381                                         EmberAfAttributeId
02381                                         attributeId);
02389 void emberAfOnOffClusterClientAttributeChangedCallback(int8u endpoint,
02390                                         EmberAfAttributeId
02390                                         attributeId);
02400 void emberAfOnOffClusterServerManufacturerSpecificAttributeChangedCallback(
02400                                         int8u endpoint,
02401                                         EmberAfAttributeId attributeId,
02402                                         int16u manufacturerCode);
02412 void emberAfOnOffClusterClientManufacturerSpecificAttributeChangedCallback(
02412                                         int8u endpoint,
02413                                         EmberAfAttributeId attributeId,
02414                                         int16u manufacturerCode);
02423 void emberAfOnOffClusterServerDefaultResponseCallback(int8u endpoint,
02424                                         int8u commandId,
02425                                         EmberAfStatus status);
02434 void emberAfOnOffClusterClientDefaultResponseCallback(int8u endpoint,
02435                                         int8u commandId,
02436                                         EmberAfStatus status);
02449 void emberAfOnOffClusterServerMessageSentCallback(EmberOutgoingMessageType type
02450                                         ,
02451                                         int16u indexOrDestination,
02452                                         EmberApsFrame * apsFrame,
02453                                         int16u msgLen,
02454                                         int8u * message,
02454                                         EmberStatus status);
02467 void emberAfOnOffClusterClientMessageSentCallback(EmberOutgoingMessageType type
02468                                         ,
02469                                         int16u indexOrDestination,
02470                                         EmberApsFrame * apsFrame,
02471                                         int16u msgLen,
02472                                         int8u * message,
02472                                         EmberStatus status);
02479 boolean emberAfOnOffClusterOffWithEffectCallback(int8u effectId,
02480                                         int8u effectVariant);

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02485 boolean emberAfOnOffClusterOnWithRecallGlobalSceneCallback(void);
02493 boolean emberAfOnOffClusterOnWithTimedOffCallback(int8u onOffControl,
02494                                     int16u onTime,
02495                                     int16u offWaitTime);
02500 boolean emberAfOnOffClusterSampleMfgSpecificOffWithTransitionCallback(void);
02505 boolean emberAfOnOffClusterSampleMfgSpecificOnWithTransitionCallback(void);
02510 boolean emberAfOnOffClusterSampleMfgSpecificToggleWithTransitionCallback(void);
02511
02515 // @{
02516
02523 void emberAfOnOffSwitchConfigClusterServerInitCallback(int8u endpoint);
02530 void emberAfOnOffSwitchConfigClusterClientInitCallback(int8u endpoint);
02537 void emberAfOnOffSwitchConfigClusterServerTickCallback(int8u endpoint);
02544 void emberAfOnOffSwitchConfigClusterClientTickCallback(int8u endpoint);
02552 void emberAfOnOffSwitchConfigClusterServerAttributeChangedCallback(int8u
02553     endpoint,
02554     EmberAfAttributeId attributeId);
02561 void emberAfOnOffSwitchConfigClusterClientAttributeChangedCallback(int8u
02562     endpoint,
02563     EmberAfAttributeId attributeId);
02573 void emberAfOnOffSwitchConfigClusterServerManufacturerSpecificAttributeChangedCallback
02574     (int8u endpoint,
02575         EmberAfAttributeId attributeId,
02576         int16u manufacturerCode);
02586 void emberAfOnOffSwitchConfigClusterClientManufacturerSpecificAttributeChangedCallback
02587     (int8u endpoint,
02588         EmberAfAttributeId attributeId,
02589         int16u manufacturerCode);
02597 void emberAfOnOffSwitchConfigClusterServerDefaultResponseCallback(int8u
02598     endpoint,
02599     int8u
02600     commandId,
02601     EmberAfStatus
02602     status);
02608 void emberAfOnOffSwitchConfigClusterClientDefaultResponseCallback(int8u
02609     endpoint,
02610     int8u
02611     commandId,
02612     EmberAfStatus
02613     status);
02623 void emberAfOnOffSwitchConfigClusterServerMessageSentCallback(
02624     EmberOutgoingMessageType type,
02625     int16u
02626     indexOrDestination,
02627     EmberApsFrame *
02628     apsFrame,
02629     int16u msgLen,
02630     int8u * message,
02631     EmberStatus
02632     status);
02641 void emberAfOnOffSwitchConfigClusterClientMessageSentCallback(
02642     EmberOutgoingMessageType type,
02643     int16u
02644     indexOrDestination,
02645     EmberApsFrame *
02646     apsFrame,
02647     int16u msgLen,
02648     int8u * message,
02649     EmberStatus
02650     status);
02651 // @@
02652
02659 boolean emberAfLevelControlClusterMoveToLevelCallback(int8u level,
02660                                     int16u transitionTime);
02667 boolean emberAfLevelControlClusterMoveCallback(int8u moveMode,
02668                                     int8u rate);
02676 boolean emberAfLevelControlClusterStepCallback(int8u stepMode,
02677                                     int8u stepSize,
02678                                     int16u transitionTime);
02683 boolean emberAfLevelControlClusterStopCallback(void);
02690 boolean emberAfLevelControlClusterMoveToLevelWithOnOffCallback(int8u level,

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02691                               int16u
02692     transitionTime);
02693     boolean emberAfLevelControlClusterMoveWithOnOffCallback(int8u moveMode,
02694                                         int8u rate);
02695     boolean emberAfLevelControlClusterStepWithOnOffCallback(int8u stepMode,
02696                                         int8u stepSize,
02697                                         int16u transitionTime);
02698     boolean emberAfLevelControlClusterStopWithOnOffCallback(void);
02699     void emberAfLevelControlClusterServerInitCallback(int8u endpoint);
02700     void emberAfLevelControlClusterClientInitCallback(int8u endpoint);
02701     void emberAfLevelControlClusterServerTickCallback(int8u endpoint);
02702     void emberAfLevelControlClusterClientTickCallback(int8u endpoint);
02703     void emberAfLevelControlClusterServerAttributeChangedCallback(int8u endpoint,
02704                                         EmberAfAttributeId
02705                                         attributeId);
02706     void emberAfLevelControlClusterClientAttributeChangedCallback(int8u endpoint,
02707                                         EmberAfAttributeId
02708                                         attributeId);
02709     void
02710     emberAfLevelControlClusterServerManufacturerSpecificAttributeChangedCallback(
02711         int8u endpoint,
02712         EmberAfAttributeId attributeId,
02713
02714         int16u manufacturerCode);
02715     void
02716     emberAfLevelControlClusterClientManufacturerSpecificAttributeChangedCallback(
02717         int8u endpoint,
02718         EmberAfAttributeId attributeId,
02719
02720         int16u manufacturerCode);
02721     void
02722     emberAfLevelControlClusterServerDefaultResponseCallback(int8u endpoint,
02723                                         int8u commandId,
02724                                         EmberAfStatus
02725                                         status);
02726     void
02727     emberAfLevelControlClusterClientDefaultResponseCallback(int8u endpoint,
02728                                         int8u commandId,
02729                                         EmberAfStatus
02730                                         status);
02731     void
02732     emberAfLevelControlClusterServerMessageSentCallback(
02733         EmberOutgoingMessageType type,
02734
02735         int16u
02736         indexOrDestination,
02737
02738         EmberApsFrame *
02739         apsFrame,
02740
02741         int16u msgLen,
02742         int8u * message,
02743         EmberStatus status);
02744     void
02745     emberAfLevelControlClusterClientMessageSentCallback(
02746         EmberOutgoingMessageType type,
02747
02748         int16u
02749         indexOrDestination,
02750
02751         EmberApsFrame *
02752         apsFrame,
02753
02754         int16u msgLen,
02755         int8u * message,
02756         EmberStatus status);
02757
02758 // @{
02759
02760     boolean emberAfAlarmClusterResetAlarmCallback(int8u alarmCode,
02761                                         int16u clusterId);
02762     boolean emberAfAlarmClusterResetAllAlarmsCallback(void);
02763     boolean emberAfAlarmClusterGetAlarmCallback(void);
02764     boolean emberAfAlarmClusterResetAlarmLogCallback(void);
02765     boolean emberAfAlarmClusterAlarmCallback(int8u alarmCode,
02766                                         int16u clusterId);
02767     boolean
02768     emberAfAlarmClusterGetAlarmResponseCallback(int8u status,
02769                                         int8u alarmCode,
02770                                         int16u clusterId,
02771                                         int32u timeStamp);
02772     void
02773     emberAfAlarmClusterServerInitCallback(int8u endpoint);
02774     void
02775     emberAfAlarmClusterClientInitCallback(int8u endpoint);
02776     void
02777     emberAfAlarmClusterServerTickCallback(int8u endpoint);
02778     void
02779     emberAfAlarmClusterClientTickCallback(int8u endpoint);
02780     void
02781     emberAfAlarmClusterServerAttributeChangedCallback(int8u endpoint,
02782                                         EmberAfAttributeId
02783                                         attributeId);
02784     void
02785     emberAfAlarmClusterClientAttributeChangedCallback(int8u endpoint,

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```

02937                                     EmberAfAttributeId
02947 void emberAfAlarmClusterServerManufacturerSpecificAttributeChangedCallback(
02948     int8u endpoint,
02949     EmberAfAttributeId attributeId,
02949     int16u manufacturerCode);
02959 void emberAfAlarmClusterClientManufacturerSpecificAttributeChangedCallback(
02960     int8u endpoint,
02960     EmberAfAttributeId attributeId,
02961     int16u manufacturerCode);
02970 void emberAfAlarmClusterServerDefaultResponseCallback(int8u endpoint,
02971                                         int8u commandId,
02972                                         EmberAfStatus status);
02981 void emberAfAlarmClusterClientDefaultResponseCallback(int8u endpoint,
02982                                         int8u commandId,
02983                                         EmberAfStatus status);
02996 void emberAfAlarmClusterServerMessageSentCallback(EmberOutgoingMessageType type
02997                                         ,
02998                                         int16u indexOrDestination,
02999                                         EmberApsFrame * apsFrame,
03000                                         int16u msgLen,
03001                                         int8u * message,
03001                                         EmberStatus status);
03014 void emberAfAlarmClusterClientMessageSentCallback(EmberOutgoingMessageType type
03015                                         ,
03016                                         int16u indexOrDestination,
03017                                         EmberApsFrame * apsFrame,
03018                                         int16u msgLen,
03019                                         int8u * message,
03019                                         EmberStatus status);
03020
03024 // @{
03025
03032 void emberAfTimeClusterServerInitCallback(int8u endpoint);
03039 void emberAfTimeClusterClientInitCallback(int8u endpoint);
03046 void emberAfTimeClusterServerTickCallback(int8u endpoint);
03053 void emberAfTimeClusterClientTickCallback(int8u endpoint);
03061 void emberAfTimeClusterServerAttributeChangedCallback(int8u endpoint,
03062                                         EmberAfAttributeId
03062     attributeId);
03070 void emberAfTimeClusterClientAttributeChangedCallback(int8u endpoint,
03071                                         EmberAfAttributeId
03071     attributeId);
03081 void emberAfTimeClusterServerManufacturerSpecificAttributeChangedCallback(int8u
03082     endpoint,
03082     EmberAfAttributeId attributeId,
03083     int16u manufacturerCode);
03093 void emberAfTimeClusterClientManufacturerSpecificAttributeChangedCallback(int8u
03094     endpoint,
03094     EmberAfAttributeId attributeId,
03095     int16u manufacturerCode);
03104 void emberAfTimeClusterServerDefaultResponseCallback(int8u endpoint,
03105                                         int8u commandId,
03106                                         EmberAfStatus status);
03115 void emberAfTimeClusterClientDefaultResponseCallback(int8u endpoint,
03116                                         int8u commandId,
03117                                         EmberAfStatus status);
03130 void emberAfTimeClusterServerMessageSentCallback(EmberOutgoingMessageType type,
03131                                         int16u indexOrDestination,
03132                                         EmberApsFrame * apsFrame,
03133                                         int16u msgLen,
03134                                         int8u * message,
03135                                         EmberStatus status);
03148 void emberAfTimeClusterClientMessageSentCallback(EmberOutgoingMessageType type,
03149                                         int16u indexOrDestination,
03150                                         EmberApsFrame * apsFrame,
03151                                         int16u msgLen,
03152                                         int8u * message,
03153                                         EmberStatus status);
03154

```

```

03158 // @@
03159
03160 boolean emberAfRssiLocationClusterSetAbsoluteLocationCallback(int16s
03161     coordinate1,
03162                     int16s
03163     coordinate2,
03164                     int16s
03165     coordinate3,
03166                     int16s power,
03167                     int16u
03168     pathLossExponent);
03169 boolean emberAfRssiLocationClusterSetDeviceConfigurationCallback(int16s power,
03170                     int16u
03171     pathLossExponent,
03172                     int16u
03173     calculationPeriod,
03174                     int8u
03175     numberRssiMeasurements,
03176                     int16u
03177     reportingPeriod);
03178 boolean emberAfRssiLocationClusterGetDeviceConfigurationCallback(int8u* targetAddress);
03179
03180 boolean emberAfRssiLocationClusterGetLocationDataCallback(int8u flags,
03181                     int8u numberResponses
03182     ,
03183                     int8u* targetAddress)
03184 ;
03185 boolean emberAfRssiLocationClusterRssiResponseCallback(int8u* replyingDevice,
03186                     int16s coordinate1,
03187                     int16s coordinate2,
03188                     int16s coordinate3,
03189                     int8s rssi,
03190                     int8u
03191     numberRssiMeasurements);
03192 boolean emberAfRssiLocationClusterSendPingsCallback(int8u* targetAddress,
03193                     int8u
03194     numberRssiMeasurements,
03195                     int16u calculationPeriod);
03196 boolean emberAfRssiLocationClusterAnchorNodeAnnounceCallback(int8u*
03197     anchorNodeIeeeAddress,
03198                     int16s coordinate1
03199     ,
03200                     int16s coordinate2
03201     ,
03202                     int16s coordinate3
03203 );
03204 boolean emberAfRssiLocationClusterDeviceConfigurationResponseCallback(int8u status,
03205                     int16s
03206     power,
03207                     int16u
03208     pathLossExponent,
03209                     int16u
03210     calculationPeriod,
03211                     int8u
03212     numberRssiMeasurements,
03213                     int16u
03214     reportingPeriod);
03215 boolean emberAfRssiLocationClusterLocationDataResponseCallback(int8u status,
03216                     int8u
03217     locationType,
03218                     int16s
03219     coordinate1,
03220                     int16s
03221     coordinate2,
03222                     int16s
03223     coordinate3,
03224                     int16s power,
03225                     int16u
03226     pathLossExponent,
03227                     int8u
03228     locationMethod,
03229                     int8u
03230     qualityMeasure,
03231                     int16u
03232     locationAge);
03233 boolean emberAfRssiLocationClusterLocationDataNotificationCallback(int8u
03234     locationType,
03235                     int16s
03236     coordinate1,

```

```

03297     coordinate2,                                int16s
03298     coordinate3,                                int16s
03299     ,                                         int16s power
03300     ,                                         int16u
03301     locationMethod,                           int8u
03302     qualityMeasure,                           int8u
03303     locationAge);                           int16u
03314 boolean emberAfRssiLocationClusterCompactLocationDataNotificationCallback(int8u
03315     locationType,
03316     int16s coordinate1,
03317     int16s coordinate2,
03318     int16s coordinate3,
03319     qualityMeasure,                           int8u
03320     int16u locationAge);
03325 boolean emberAfRssiLocationClusterRssiPingCallback(int8u locationType);
03330 boolean emberAfRssiLocationClusterRssiRequestCallback(void);
03338 boolean emberAfRssiLocationClusterReportRssiMeasurementsCallback(int8u*
03339     measuringDevice,
03340     neighbors,                                 int8u
03341     neighborsInfo);                          int8u*
03346 boolean emberAfRssiLocationClusterRequestOwnLocationCallback(int8u* blindNode);
03353 void emberAfRssiLocationClusterServerInitCallback(int8u endpoint);
03360 void emberAfRssiLocationClusterClientInitCallback(int8u endpoint);
03367 void emberAfRssiLocationClusterServerTickCallback(int8u endpoint);
03374 void emberAfRssiLocationClusterClientTickCallback(int8u endpoint);
03382 void emberAfRssiLocationClusterServerAttributeChangedCallback(int8u endpoint,
03383     EmberAfAttributeId
03384     attributeId);
03391 void emberAfRssiLocationClusterClientAttributeChangedCallback(int8u endpoint,
03392     EmberAfAttributeId
03393     attributeId);
03402 void
03403     emberAfRssiLocationClusterServerManufacturerSpecificAttributeChangedCallback(
03404     int8u endpoint,
03405     EmberAfAttributeId attributeId,
03406     int16u manufacturerCode);
03414 void
03415     emberAfRssiLocationClusterClientManufacturerSpecificAttributeChangedCallback(
03416     int8u endpoint,
03417     EmberAfAttributeId attributeId,
03418     int16u manufacturerCode);
03425 void emberAfRssiLocationClusterServerDefaultResponseCallback(int8u endpoint,
03426                                         int8u commandId,
03427                                         EmberAfStatus
03428                                         status);
03436 void emberAfRssiLocationClusterClientDefaultResponseCallback(int8u endpoint,
03437                                         int8u commandId,
03438                                         EmberAfStatus
03439                                         status);
03451 void emberAfRssiLocationClusterServerMessageSentCallback(
03452     EmberOutgoingMessageType type,
03453     int16u
03454     indexOrDestination,
03455     EmberApsFrame *
03456     apsFrame,
03457     int16u msgLen,
03458     int8u * message,
03459     EmberStatus status);
03469 void emberAfRssiLocationClusterClientMessageSentCallback(
03470     EmberOutgoingMessageType type,
03471     int16u
03472     indexOrDestination,

```

```

03471     apsFrame,
03472                                         EmberApsFrame *
03473                                         int16u msgLen,
03474                                         int8u * message,
03475                                         EmberStatus status);
03476
03479 // @{
03480
03481 void emberAfBinaryInputBasicClusterServerInitCallback(int8u endpoint);
03482 void emberAfBinaryInputBasicClusterClientInitCallback(int8u endpoint);
03483 void emberAfBinaryInputBasicClusterServerTickCallback(int8u endpoint);
03484 void emberAfBinaryInputBasicClusterClientTickCallback(int8u endpoint);
03485 void emberAfBinaryInputBasicClusterServerAttributeChangedCallback(int8u
03486     endpoint,
03487     EmberAfAttributeId attributeId);
03488 void emberAfBinaryInputBasicClusterClientAttributeChangedCallback(int8u
03489     endpoint,
03490     EmberAfAttributeId attributeId);
03491 void emberAfBinaryInputBasicClusterServerManufacturerSpecificAttributeChangedCallback
03492     (int8u endpoint,
03493     EmberAfAttributeId attributeId,
03494     int16u manufacturerCode);
03495 void emberAfBinaryInputBasicClusterClientManufacturerSpecificAttributeChangedCallback
03496     (int8u endpoint,
03497     EmberAfAttributeId attributeId,
03498     int16u manufacturerCode);
03499 void emberAfBinaryInputBasicClusterServerDefaultResponseCallback(int8u endpoint
03500 ,
03501     int8u
03502     commandId,
03503     EmberAfStatus
03504     status);
03505 void emberAfBinaryInputBasicClusterClientDefaultResponseCallback(int8u endpoint
03506 ,
03507     int8u
03508     commandId,
03509     EmberAfStatus
03510     status);
03511 void emberAfBinaryInputBasicClusterServerMessageSentCallback(
03512     EmberOutgoingMessageType type,
03513     int16u
03514     indexOrDestination,
03515     EmberApsFrame *
03516     apsFrame,
03517     int16u msgLen,
03518     int8u * message,
03519     EmberStatus status
03520 );
03521 void emberAfBinaryInputBasicClusterClientMessageSentCallback(
03522     EmberOutgoingMessageType type,
03523     int16u
03524     indexOrDestination,
03525     EmberApsFrame *
03526     apsFrame,
03527     int16u msgLen,
03528     int8u * message,
03529     EmberStatus status
03530 );
03531
03532 // @@
03533
03534 boolean emberAfCommissioningClusterRestartDeviceCallback(int8u options,
03535     int8u delay,
03536     int8u jitter);
03537 boolean emberAfCommissioningClusterSaveStartupParametersCallback(int8u options,
03538     int8u index);
03539 boolean emberAfCommissioningClusterRestoreStartupParametersCallback(int8u
03540     options,
03541     int8u index
03542 );
03543 boolean emberAfCommissioningClusterResetStartupParametersCallback(int8u options

```

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03650                                     int8u index);
03656 boolean emberAfCommissioningClusterRestartDeviceResponseCallback(int8u status);
03662 boolean emberAfCommissioningClusterSaveStartupParametersResponseCallback(int8u
    status);
03668 boolean emberAfCommissioningClusterRestoreStartupParametersResponseCallback(
    int8u status);
03674 boolean emberAfCommissioningClusterResetStartupParametersResponseCallback(int8u
    status);
03681 void emberAfCommissioningClusterServerInitCallback(int8u endpoint);
03688 void emberAfCommissioningClusterClientInitCallback(int8u endpoint);
03695 void emberAfCommissioningClusterServerTickCallback(int8u endpoint);
03702 void emberAfCommissioningClusterClientTickCallback(int8u endpoint);
03710 void emberAfCommissioningClusterServerAttributeChangedCallback(int8u endpoint,
03711     EmberAfAttributeId attributeId);
03719 void emberAfCommissioningClusterClientAttributeChangedCallback(int8u endpoint,
03720     EmberAfAttributeId attributeId);
03730 void emberAfCommissioningClusterServerManufacturerSpecificAttributeChangedCallback(
    int8u endpoint,
03731     EmberAfAttributeId attributeId,
03732     int16u manufacturerCode);
03742 void emberAfCommissioningClusterClientManufacturerSpecificAttributeChangedCallback(
    int8u endpoint,
03743     EmberAfAttributeId attributeId,
03744     int16u manufacturerCode);
03753 void emberAfCommissioningClusterServerDefaultResponseCallback(int8u endpoint,
03754                                         int8u commandId,
03755                                         EmberAfStatus
03756                                         status);
03764 void emberAfCommissioningClusterClientDefaultResponseCallback(int8u endpoint,
03765                                         int8u commandId,
03766                                         EmberAfStatus
03767                                         status);
03779 void emberAfCommissioningClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
03780                                         int16u
    indexOrDestination,
03781                                         EmberApsFrame *
    apsFrame,
03782                                         int16u msgLen,
03783                                         int8u * message,
03784                                         EmberStatus status);
03797 void emberAfCommissioningClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
03798                                         int16u
    indexOrDestination,
03799                                         EmberApsFrame *
    apsFrame,
03800                                         int16u msgLen,
03801                                         int8u * message,
03802                                         EmberStatus status);
03803
03807 // @@
03808
03815 void emberAfShadeConfigClusterServerInitCallback(int8u endpoint);
03822 void emberAfShadeConfigClusterClientInitCallback(int8u endpoint);
03829 void emberAfShadeConfigClusterServerTickCallback(int8u endpoint);
03836 void emberAfShadeConfigClusterClientTickCallback(int8u endpoint);
03844 void emberAfShadeConfigClusterServerAttributeChangedCallback(int8u endpoint,
03845                                         EmberAfAttributeId
03846                                         attributeId);
03853 void emberAfShadeConfigClusterClientAttributeChangedCallback(int8u endpoint,
03854                                         EmberAfAttributeId
03855                                         attributeId);
03864 void emberAfShadeConfigClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
03865     EmberAfAttributeId attributeId,
03866     int16u manufacturerCode);
03876 void emberAfShadeConfigClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,

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03877     EmberAfAttributeId attributeId,
03878     int16u manufacturerCode);
03887 void emberAfShadeConfigClusterServerDefaultResponseCallback(int8u endpoint,
03888                                         int8u commandId,
03889                                         EmberAfStatus
03890                                         status);
03898 void emberAfShadeConfigClusterClientDefaultResponseCallback(int8u endpoint,
03899                                         int8u commandId,
03900                                         EmberAfStatus
03901                                         status);
03913 void emberAfShadeConfigClusterServerMessageSentCallback(
03914     EmberOutgoingMessageType type,
03915     int16u indexOrDestination,
03916     EmberApsFrame *apsFrame,
03917     int16u msgLen,
03918     int8u * message,
03919     EmberStatus status);
03931 void emberAfShadeConfigClusterClientMessageSentCallback(
03932     EmberOutgoingMessageType type,
03933     int16u indexOrDestination,
03934     EmberApsFrame *apsFrame,
03935     int16u msgLen,
03936     int8u * message,
03937     EmberStatus status);
03937
03941 // @{
03942
03949 void emberAfPumpConfigControlClusterServerInitCallback(int8u endpoint);
03956 void emberAfPumpConfigControlClusterClientInitCallback(int8u endpoint);
03963 void emberAfPumpConfigControlClusterServerTickCallback(int8u endpoint);
03970 void emberAfPumpConfigControlClusterClientTickCallback(int8u endpoint);
03978 void emberAfPumpConfigControlClusterServerAttributeChangedCallback(int8u
03979     endpoint,
03980     EmberAfAttributeId attributeId);
03987 void emberAfPumpConfigControlClusterClientAttributeChangedCallback(int8u
03988     endpoint,
03989     EmberAfAttributeId attributeId);
03999 void emberAfPumpConfigControlClusterServerManufacturerSpecificAttributeChangedCallback
04000     (int8u endpoint,
04001         EmberAfAttributeId attributeId,
04002         int16u manufacturerCode);
04012 void emberAfPumpConfigControlClusterClientManufacturerSpecificAttributeChangedCallback
04013     (int8u endpoint,
04014         EmberAfAttributeId attributeId,
04015         int16u manufacturerCode);
04023 void emberAfPumpConfigControlClusterServerDefaultResponseCallback(int8u
04024     endpoint,
04025     int8u commandId,
04026     EmberAfStatus
04027     status);
04034 void emberAfPumpConfigControlClusterClientDefaultResponseCallback(int8u
04035     endpoint,
04036     int8u commandId,
04037     EmberAfStatus
04049 void emberAfPumpConfigControlClusterServerMessageSentCallback(
04050     EmberOutgoingMessageType type,
04051     int16u indexOrDestination,
04052     EmberApsFrame *apsFrame,
04053     int16u msgLen,
04054     int8u * message,
04055     EmberStatus

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        status);
04067 void emberAfPumpConfigControlClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
04068                                     int16u
    indexOrDestination,
04069                                     EmberApsFrame *
04070     apsFrame,
04071                                     int16u msgLen,
04072                                     int8u * message,
04073                                     EmberStatus
04074     status);
04075 // @{
04076
04077 boolean emberAfThermostatClusterSetpointRaiseLowerCallback(int8u mode,
04078                                     int8s amount);
04079 void emberAfThermostatClusterServerInitCallback(int8u endpoint);
04080 void emberAfThermostatClusterClientInitCallback(int8u endpoint);
04081 void emberAfThermostatClusterServerTickCallback(int8u endpoint);
04082 void emberAfThermostatClusterClientTickCallback(int8u endpoint);
04083 void emberAfThermostatClusterServerAttributeChangedCallback(int8u endpoint,
04084                                     EmberAfAttributeId
04085     attributeId);
04086 void emberAfThermostatClusterClientAttributeChangedCallback(int8u endpoint,
04087                                     EmberAfAttributeId
04088     attributeId);
04089 void emberAfThermostatClusterServerManufacturerSpecificAttributeChangedCallback
04090     (int8u endpoint,
04091      EmberAfAttributeId attributeId,
04092      int16u manufacturerCode);
04093 void emberAfThermostatClusterClientManufacturerSpecificAttributeChangedCallback
04094     (int8u endpoint,
04095      EmberAfAttributeId attributeId,
04096      int16u manufacturerCode);
04097 void emberAfThermostatClusterServerDefaultResponseCallback(int8u endpoint,
04098                                     int8u commandId,
04099                                     EmberAfStatus status
04100 );
04101 void emberAfThermostatClusterClientDefaultResponseCallback(int8u endpoint,
04102                                     int8u commandId,
04103                                     EmberAfStatus status
04104 );
04105 void emberAfThermostatClusterServerMessageSentCallback(EmberOutgoingMessageType
04106     type,
04107     int16u
04108     indexOrDestination,
04109     EmberApsFrame * apsFrame
04110 ,
04111     int16u msgLen,
04112     int8u * message,
04113     EmberStatus status);
04114 void emberAfThermostatClusterClientMessageSentCallback(EmberOutgoingMessageType
04115     type,
04116     int16u
04117     indexOrDestination,
04118     EmberApsFrame * apsFrame
04119 ,
04120     int16u msgLen,
04121     int8u * message,
04122     EmberStatus status);
04123 boolean emberAfThermostatClusterSetWeeklyScheduleCallback(int8u
04124     numberOfTransitionsForSequence,
04125     int8u
04126     dayOfWeekForSequence,
04127     int8u modeForSequence
04128 ,
04129     int8u* payload);
04130 boolean emberAfThermostatClusterGetWeeklyScheduleCallback(int8u daysToReturn,
04131                                     int8u modeToReturn);
04132 boolean emberAfThermostatClusterClearWeeklyScheduleCallback(void);
04133 boolean emberAfThermostatClusterGetRelayStatusLogCallback(void);
04134 boolean emberAfThermostatClusterCurrentWeeklyScheduleCallback(int8u
04135     numberOfTransitionsForSequence,
04136     int8u
04137     dayOfWeekForSequence,
04138     int8u
04139 
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    modeForSequence,
04256                                     int8u* payload);
04267 boolean emberAfThermostatClusterRelayStatusLogCallback(int16u timeOfDay,
04268                                         int16u relayStatus,
04269                                         int16s localTemperature,
04270                                         int8u
04271                                         humidityInPercentage,
04272                                         int16s setpoint,
04273                                         int8u unreadEntries);

04277 // @@
04278
04285 void emberAfFanControlClusterServerInitCallback(int8u endpoint);
04292 void emberAfFanControlClusterClientInitCallback(int8u endpoint);
04299 void emberAfFanControlClusterServerTickCallback(int8u endpoint);
04306 void emberAfFanControlClusterClientTickCallback(int8u endpoint);
04314 void emberAfFanControlClusterServerAttributeChangedCallback(int8u endpoint,
04315                                         EmberAfAttributeId
04316                                         attributeId);
04323 void emberAfFanControlClusterClientAttributeChangedCallback(int8u endpoint,
04324                                         EmberAfAttributeId
04325                                         attributeId);
04334 void emberAfFanControlClusterServerManufacturerSpecificAttributeChangedCallback
04335 (int8u endpoint,
04336                                         EmberAfAttributeId attributeId,
04337                                         int16u manufacturerCode);
04346 void emberAfFanControlClusterClientManufacturerSpecificAttributeChangedCallback
04347 (int8u endpoint,
04348                                         EmberAfAttributeId attributeId,
04349                                         int16u manufacturerCode);
04357 void emberAfFanControlClusterServerDefaultResponseCallback(int8u endpoint,
04358                                         int8u commandId,
04359                                         EmberAfStatus status
04360 );
04368 void emberAfFanControlClusterClientDefaultResponseCallback(int8u endpoint,
04369                                         int8u commandId,
04370                                         EmberAfStatus status
04371 );
04383 void emberAfFanControlClusterServerMessageSentCallback(EmberOutgoingMessageType
04384                                         type,
04385                                         int16u
04386                                         indexOrDestination,
04387                                         EmberApsFrame * apsFrame
04388                                         ,
04389                                         int16u msgLen,
04390                                         int8u * message,
04391                                         EmberStatus status);
04401 void emberAfFanControlClusterClientMessageSentCallback(EmberOutgoingMessageType
04402                                         type,
04403                                         int16u
04404                                         indexOrDestination,
04405                                         EmberApsFrame * apsFrame
04406                                         ,
04407                                         int16u msgLen,
04408                                         int8u * message,
04409                                         EmberStatus status);
04411 // @@
04412
04419 void emberAfDehumidControlClusterServerInitCallback(int8u endpoint);
04426 void emberAfDehumidControlClusterClientInitCallback(int8u endpoint);
04433 void emberAfDehumidControlClusterServerTickCallback(int8u endpoint);
04440 void emberAfDehumidControlClusterClientTickCallback(int8u endpoint);
04448 void emberAfDehumidControlClusterServerAttributeChangedCallback(int8u endpoint,
04449                                         EmberAfAttributeId attributeId);
04457 void emberAfDehumidControlClusterClientAttributeChangedCallback(int8u endpoint,
04458                                         EmberAfAttributeId attributeId);
04469 void emberAfDehumidControlClusterServerManufacturerSpecificAttributeChangedCallback(
04470                                         int8u endpoint,

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04471     EmberAfAttributeId attributeId,
04472     int16u manufacturerCode);
04482 void emberAfDehumidControlClusterClientManufacturerSpecificAttributeChangedCallback(
04483     int8u endpoint,
04483     EmberAfAttributeId attributeId,
04484     int16u manufacturerCode);
04493 void emberAfDehumidControlClusterServerDefaultResponseCallback(int8u endpoint,
04494                                         int8u commandId,
04495                                         EmberAfStatus
04504 void emberAfDehumidControlClusterClientDefaultResponseCallback(int8u endpoint,
04505                                         int8u commandId,
04506                                         EmberAfStatus
04519 void emberAfDehumidControlClusterServerMessageSentCallback(
04520     EmberOutgoingMessageType type,
04520     int16u
04521     indexOrDestination,
04521     EmberApsFrame *
04522     apsFrame,
04522     int16u msgLen,
04523     int8u * message,
04524     EmberStatus status);
04537 void emberAfDehumidControlClusterClientMessageSentCallback(
04538     EmberOutgoingMessageType type,
04538     int16u
04539     indexOrDestination,
04539     EmberApsFrame *
04540     apsFrame,
04540     int16u msgLen,
04541     int8u * message,
04542     EmberStatus status);
04543
04543 // @{
04548
04555 void emberAfThermostatUiConfigClusterServerInitCallback(int8u endpoint);
04562 void emberAfThermostatUiConfigClusterClientInitCallback(int8u endpoint);
04569 void emberAfThermostatUiConfigClusterServerTickCallback(int8u endpoint);
04576 void emberAfThermostatUiConfigClusterClientTickCallback(int8u endpoint);
04584 void emberAfThermostatUiConfigClusterServerAttributeChangedCallback(int8u
04585     endpoint,
04585     EmberAfAttributeId attributeId);
04593 void emberAfThermostatUiConfigClusterClientAttributeChangedCallback(int8u
04594     endpoint,
04594     EmberAfAttributeId attributeId);
04605 void emberAfThermostatUiConfigClusterServerManufacturerSpecificAttributeChangedCallback(
04606     int8u endpoint,
04606     EmberAfAttributeId attributeId,
04607     int16u manufacturerCode);
04618 void emberAfThermostatUiConfigClusterClientManufacturerSpecificAttributeChangedCallback(
04619     int8u endpoint,
04619     EmberAfAttributeId attributeId,
04620     int16u manufacturerCode);
04629 void emberAfThermostatUiConfigClusterServerDefaultResponseCallback(int8u
04630     endpoint,
04630     int8u
04631     commandId,
04631     EmberAfStatus
04640 void emberAfThermostatUiConfigClusterClientDefaultResponseCallback(int8u
04641     endpoint,
04641     int8u
04642     commandId,
04642     EmberAfStatus
04655 void emberAfThermostatUiConfigClusterServerMessageSentCallback(

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        EmberOutgoingMessageType type,
04656                           int16u
04657     indexOrDestination,
04658                           EmberApsFrame *
04659     apsFrame,
04660                           int16u msgLen,
04659     message,
04660                           EmberStatus
04661     status);
04673 void emberAfThermostatUiConfigClusterClientMessageSentCallback(
04674     EmberOutgoingMessageType type,
04675                           int16u
04676     indexOrDestination,
04675                           EmberApsFrame *
04676     apsFrame,
04677                           int16u msgLen,
04677     message,
04678                           EmberStatus
04679     status);
04683 // @{
04684
04692 boolean emberAfColorControlClusterMoveToHueCallback(int8u hue,
04693                           int8u direction,
04694                           int16u transitionTime);
04701 boolean emberAfColorControlClusterMoveHueCallback(int8u moveMode,
04702                           int8u rate);
04710 boolean emberAfColorControlClusterStepHueCallback(int8u stepMode,
04711                           int8u stepSize,
04712                           int8u transitionTime);
04719 boolean emberAfColorControlClusterMoveToSaturationCallback(int8u saturation,
04720                           int16u
04721     transitionTime);
04727 boolean emberAfColorControlClusterMoveSaturationCallback(int8u moveMode,
04728                           int8u rate);
04736 boolean emberAfColorControlClusterStepSaturationCallback(int8u stepMode,
04737                           int8u stepSize,
04738                           int8u transitionTime);
04746 boolean emberAfColorControlClusterMoveToHueAndSaturationCallback(int8u hue,
04747                           int8u
04748     saturation,
04748                           int16u
04749     transitionTime);
04756 boolean emberAfColorControlClusterMoveToColorCallback(int16u colorX,
04757                           int16u colorY,
04758                           int16u transitionTime);
04765 boolean emberAfColorControlClusterMoveColorCallback(int16s rateX,
04766                           int16s rateY);
04774 boolean emberAfColorControlClusterStepColorCallback(int16s stepX,
04775                           int16s stepY,
04776                           int16u transitionTime);
04783 boolean emberAfColorControlClusterMoveToColorTemperatureCallback(int16u
04784     colorTemperature,
04784                           int16u
04785     transitionTime);
04791 void emberAfColorControlClusterServerInitCallback(int8u endpoint);
04798 void emberAfColorControlClusterClientInitCallback(int8u endpoint);
04805 void emberAfColorControlClusterServerTickCallback(int8u endpoint);
04812 void emberAfColorControlClusterClientTickCallback(int8u endpoint);
04820 void emberAfColorControlClusterServerAttributeChangedCallback(int8u endpoint,
04821                           EmberAfAttributeId
04821     attributeId);
04829 void emberAfColorControlClusterClientAttributeChangedCallback(int8u endpoint,
04830                           EmberAfAttributeId
04830     attributeId);
04840 void emberAfColorControlClusterServerManufacturerSpecificAttributeChangedCallback(
04841     int8u endpoint,
04841     EmberAfAttributeId attributeId,
04842     int16u manufacturerCode);
04852 void emberAfColorControlClusterClientManufacturerSpecificAttributeChangedCallback(
04853     int8u endpoint,
04853     EmberAfAttributeId attributeId,
04854     int16u manufacturerCode);

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        int16u manufacturerCode);
04863 void emberAfColorControlClusterServerDefaultResponseCallback(int8u endpoint,
04864                                         int8u commandId,
04865                                         EmberAfStatus
04866                                         status);
04874 void emberAfColorControlClusterClientDefaultResponseCallback(int8u endpoint,
04875                                         int8u commandId,
04876                                         EmberAfStatus
04877                                         status);
04889 void emberAfColorControlClusterServerMessageSentCallback(
04890     EmberOutgoingMessageType type,
04890                                         int16u
04891     indexOrDestination,
04891                                         EmberApsFrame *
04892     apsFrame,
04893                                         int16u msgLen,
04894                                         int8u * message,
04894                                         EmberStatus status);
04907 void emberAfColorControlClusterClientMessageSentCallback(
04908     EmberOutgoingMessageType type,
04908                                         int16u
04909     indexOrDestination,
04909                                         EmberApsFrame *
04910     apsFrame,
04911                                         int16u msgLen,
04911                                         int8u * message,
04912                                         EmberStatus status);
04920 boolean emberAfColorControlClusterEnhancedMoveToHueCallback(int16u enhancedHue,
04921                                         int8u direction,
04922                                         int16u
04922     transitionTime);
04929 boolean emberAfColorControlClusterEnhancedMoveHueCallback(int8u moveMode,
04930                                         int16u rate);
04938 boolean emberAfColorControlClusterEnhancedStepHueCallback(int8u stepMode,
04939                                         int16u stepSize,
04940                                         int16u transitionTime
04940 );
04948 boolean emberAfColorControlClusterEnhancedMoveToHueAndSaturationCallback(int16u
04948     enhancedHue,
04949                                         int8u
04950     saturation,
04950                                         int16u
04950     transitionTime);
04960 boolean emberAfColorControlClusterColorLoopSetCallback(int8u updateFlags,
04961                                         int8u action,
04962                                         int8u direction,
04963                                         int16u time,
04964                                         int16u startHue);
04969 boolean emberAfColorControlClusterStopMoveStepCallback(void);
04978 boolean emberAfColorControlClusterMoveColorTemperatureCallback(int8u moveMode,
04979                                         int16u rate,
04980                                         int16u
04980     colorTemperatureMinimum,
04981                                         int16u
04981     colorTemperatureMaximum);
04991 boolean emberAfColorControlClusterStepColorTemperatueCallback(int8u stepMode,
04992                                         int16u stepSize,
04993                                         int16u
04993     transitionTime,
04994                                         int16u
04994     colorTemperatureMinimum,
04995                                         int16u
04995     colorTemperatureMaximum);
04996
05000 // @@
05001
05008 void emberAfBallastConfigurationClusterServerInitCallback(int8u endpoint);
05015 void emberAfBallastConfigurationClusterClientInitCallback(int8u endpoint);
05022 void emberAfBallastConfigurationClusterServerTickCallback(int8u endpoint);
05029 void emberAfBallastConfigurationClusterClientTickCallback(int8u endpoint);
05037 void emberAfBallastConfigurationClusterServerAttributeChangedCallback(int8u
05038     endpoint,
05038     EmberAfAttributeId attributeId);
05046 void emberAfBallastConfigurationClusterClientAttributeChangedCallback(int8u
05047     endpoint,
05047     EmberAfAttributeId attributeId);
05058 void

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        emberAfBallastConfigurationClusterServerManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
05059            EmberAfAttributeId attributeId,
05060                int16u manufacturerCode);
05071 void emberAfBallastConfigurationClusterClientManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
05072            EmberAfAttributeId attributeId,
05073                int16u manufacturerCode);
05082 void emberAfBallastConfigurationClusterServerDefaultResponseCallback(int8u
        endpoint,
05083                                int8u
        commandId,
05084                                EmberAfStatus status);
05093 void emberAfBallastConfigurationClusterClientDefaultResponseCallback(int8u
        endpoint,
05094                                int8u
        commandId,
05095                                EmberAfStatus status);
05108 void emberAfBallastConfigurationClusterServerMessageSentCallback(
        EmberOutgoingMessageType type,
05109                                int16u
        indexOrDestination,
05110                                EmberApsFrame
        * apsFrame,
05111                                int16u msgLen,
05112                                int8u *
        message,
05113                                EmberStatus
        status);
05126 void emberAfBallastConfigurationClusterClientMessageSentCallback(
        EmberOutgoingMessageType type,
05127                                int16u
        indexOrDestination,
05128                                EmberApsFrame
        * apsFrame,
05129                                int16u msgLen,
05130                                int8u *
        message,
05131                                EmberStatus
        status);
05132
05136 // @{
05137
05144 void emberAfIllumMeasurementClusterServerInitCallback(int8u endpoint);
05151 void emberAfIllumMeasurementClusterClientInitCallback(int8u endpoint);
05158 void emberAfIllumMeasurementClusterServerTickCallback(int8u endpoint);
05165 void emberAfIllumMeasurementClusterClientTickCallback(int8u endpoint);
05173 void emberAfIllumMeasurementClusterServerAttributeChangedCallback(int8u
        endpoint,
05174            EmberAfAttributeId attributeId);
05182 void emberAfIllumMeasurementClusterClientAttributeChangedCallback(int8u
        endpoint,
05183            EmberAfAttributeId attributeId);
05194 void emberAfIllumMeasurementClusterServerManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
05195            EmberAfAttributeId attributeId,
05196                int16u manufacturerCode);
05207 void emberAfIllumMeasurementClusterClientManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
05208            EmberAfAttributeId attributeId,
05209                int16u manufacturerCode);
05218 void emberAfIllumMeasurementClusterServerDefaultResponseCallback(int8u endpoint
        ,

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05219     commandId,                                int8u
05220     status);                                 EmberAfStatus
05229 void emberAfIllumMeasurementClusterClientDefaultResponseCallback(int8u endpoint
,
05230     commandId,                                int8u
05231     status);                                 EmberAfStatus
05244 void emberAfIllumMeasurementClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
05245                                         int16u
    indexOrDestination,
05246                                         EmberApsFrame *
    apsFrame,
05247                                         int16u msgLen,
05248                                         int8u * message,
05249                                         EmberStatus status
);
05262 void emberAfIllumMeasurementClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
05263                                         int16u
    indexOrDestination,
05264                                         EmberApsFrame *
    apsFrame,
05265                                         int16u msgLen,
05266                                         int8u * message,
05267                                         EmberStatus status
);
05268 // @{
05273
05280 void emberAfIllumLevelSensingClusterServerInitCallback(int8u endpoint);
05287 void emberAfIllumLevelSensingClusterClientInitCallback(int8u endpoint);
05294 void emberAfIllumLevelSensingClusterServerTickCallback(int8u endpoint);
05301 void emberAfIllumLevelSensingClusterClientTickCallback(int8u endpoint);
05309 void emberAfIllumLevelSensingClusterServerAttributeChangedCallback(int8u
endpoint,
05310     EmberAfAttributeId attributeId);
05318 void emberAfIllumLevelSensingClusterClientAttributeChangedCallback(int8u
endpoint,
05319     EmberAfAttributeId attributeId);
05330 void
    emberAfIllumLevelSensingClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
05331     EmberAfAttributeId attributeId,
05332     int16u manufacturerCode);
05343 void
    emberAfIllumLevelSensingClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
05344     EmberAfAttributeId attributeId,
05345     int16u manufacturerCode);
05354 void emberAfIllumLevelSensingClusterServerDefaultResponseCallback(int8u
endpoint,
05355                                         int8u
    commandId,
05356                                         EmberAfStatus
    status);
05365 void emberAfIllumLevelSensingClusterClientDefaultResponseCallback(int8u
endpoint,
05366                                         int8u
    commandId,
05367                                         EmberAfStatus
    status);
05380 void emberAfIllumLevelSensingClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
05381                                         int16u
    indexOrDestination,
05382                                         EmberApsFrame *
    apsFrame,
05383                                         int16u msgLen,
05384                                         int8u * message,
05385                                         EmberStatus

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        status);
05398 void emberAfIllumLevelSensingClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
05399                                         int16u
    indexOrDestination,
05400                                         EmberApsFrame *
05401     apsFrame,
05402                                         int16u msgLen,
05403                                         int8u * message,
05403                                         EmberStatus
05403                                         status);
05404
05404 // @{
05409
05416 int32s emberAfTempMeasurementClusterConvertVoltsToCelsiusCallback(int16u
    voltage);
05423 void emberAfTempMeasurementClusterServerInitCallback(int8u endpoint);
05430 void emberAfTempMeasurementClusterClientInitCallback(int8u endpoint);
05437 void emberAfTempMeasurementClusterServerTickCallback(int8u endpoint);
05444 void emberAfTempMeasurementClusterClientTickCallback(int8u endpoint);
05452 void emberAfTempMeasurementClusterServerAttributeChangedCallback(int8u endpoint
    ,
05453     EmberAfAttributeId attributeId);
05461 void emberAfTempMeasurementClusterClientAttributeChangedCallback(int8u endpoint
    ,
05462     EmberAfAttributeId attributeId);
05473 void
    emberAfTempMeasurementClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
05474     EmberAfAttributeId attributeId,
05475     int16u manufacturerCode);
05486 void
    emberAfTempMeasurementClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
05487     EmberAfAttributeId attributeId,
05488     int16u manufacturerCode);
05497 void emberAfTempMeasurementClusterServerDefaultResponseCallback(int8u endpoint,
05498                                         int8u commandId
05499                                         ,
05499                                         EmberAfStatus
05508 void emberAfTempMeasurementClusterClientDefaultResponseCallback(int8u endpoint,
05509                                         int8u commandId
05510                                         ,
05510                                         EmberAfStatus
05512 status);
05523 void emberAfTempMeasurementClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
05524                                         int16u
    indexOrDestination,
05525                                         EmberApsFrame *
05526     apsFrame,
05526                                         int16u msgLen,
05527                                         int8u * message,
05528                                         EmberStatus status)
05528 ;
05541 void emberAfTempMeasurementClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
05542                                         int16u
    indexOrDestination,
05543                                         EmberApsFrame *
05544     apsFrame,
05544                                         int16u msgLen,
05545                                         int8u * message,
05546                                         EmberStatus status)
05546 ;
05547
05551 // @@
05552
05559 void emberAfPressureMeasurementClusterServerInitCallback(int8u endpoint);
05566 void emberAfPressureMeasurementClusterClientInitCallback(int8u endpoint);
05573 void emberAfPressureMeasurementClusterServerTickCallback(int8u endpoint);

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05580 void emberAfPressureMeasurementClusterClientTickCallback(int8u endpoint);
05588 void emberAfPressureMeasurementClusterServerAttributeChangedCallback(int8u
05589     endpoint,
05598     EmberAfAttributeId attributeId);
05597 void emberAfPressureMeasurementClusterClientAttributeChangedCallback(int8u
05598     endpoint,
05598     EmberAfAttributeId attributeId);
05609 void
05610     emberAfPressureMeasurementClusterServerManufacturerSpecificAttributeChangedCallback
05610     (int8u endpoint,
05610         EmberAfAttributeId attributeId,
05611         int16u manufacturerCode);
05622 void
05623     emberAfPressureMeasurementClusterClientManufacturerSpecificAttributeChangedCallback
05623     (int8u endpoint,
05623         EmberAfAttributeId attributeId,
05624         int16u manufacturerCode);
05633 void emberAfPressureMeasurementClusterServerDefaultResponseCallback(int8u
05634     endpoint,
05634         int8u
05635     commandId,
05635     EmberAfStatus status);
05644 void emberAfPressureMeasurementClusterClientDefaultResponseCallback(int8u
05645     endpoint,
05645         int8u
05646     commandId,
05646     EmberAfStatus status);
05659 void emberAfPressureMeasurementClusterServerMessageSentCallback(
05660     EmberOutgoingMessageType type,
05660         int16u
05661     indexOrDestination,
05661         EmberApsFrame *
05662     apsFrame,
05662         int16u msgLen,
05663     int8u * message
05664     ,
05664     EmberStatus
05664     status);
05677 void emberAfPressureMeasurementClusterClientMessageSentCallback(
05678     EmberOutgoingMessageType type,
05678         int16u
05679     indexOrDestination,
05679         EmberApsFrame *
05680     apsFrame,
05680         int16u msgLen,
05681     int8u * message
05682     ,
05682     EmberStatus
05683     status);
05687 // @@
05688
05695 void emberAfFlowMeasurementClusterServerInitCallback(int8u endpoint);
05702 void emberAfFlowMeasurementClusterClientInitCallback(int8u endpoint);
05709 void emberAfFlowMeasurementClusterServerTickCallback(int8u endpoint);
05716 void emberAfFlowMeasurementClusterClientTickCallback(int8u endpoint);
05724 void emberAfFlowMeasurementClusterServerAttributeChangedCallback(int8u endpoint
05725     ,
05725     EmberAfAttributeId attributeId);
05733 void emberAfFlowMeasurementClusterClientAttributeChangedCallback(int8u endpoint
05734     ,
05734     EmberAfAttributeId attributeId);
05744 void
05745     emberAfFlowMeasurementClusterServerManufacturerSpecificAttributeChangedCallback
05745     (int8u endpoint,
05745         EmberAfAttributeId attributeId,
05746         int16u manufacturerCode);
05756 void

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    emberAfFlowMeasurementClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
05757        EmberAfAttributeId attributeId,
05758        int16u manufacturerCode);
05767 void emberAfFlowMeasurementClusterServerDefaultResponseCallback(int8u endpoint,
05768
05769        int8u commandId
05770        ,
05771        EmberAfStatus
05778 void emberAfFlowMeasurementClusterClientDefaultResponseCallback(int8u endpoint,
05779
05780        int8u commandId
05781        ,
05782        EmberAfStatus
05793 void emberAfFlowMeasurementClusterServerMessageSentCallback(
05794        EmberOutgoingMessageType type,
05795        int16u
05796        indexOrDestination,
05795        EmberApsFrame *
05797        apsFrame,
05798        int16u msgLen,
05797        int8u * message,
05798        EmberStatus status)
05811 void emberAfFlowMeasurementClusterClientMessageSentCallback(
05812        EmberOutgoingMessageType type,
05812        int16u
05813        indexOrDestination,
05813        EmberApsFrame *
05814        apsFrame,
05815        int16u msgLen,
05815        int8u * message,
05816        EmberStatus status)
05817 ;
05821 // @{
05822
05829 void emberAfRelativeHumidityMeasurementClusterServerInitCallback(int8u endpoint
05830 );
05836 void emberAfRelativeHumidityMeasurementClusterClientInitCallback(int8u endpoint
05837 );
05843 void emberAfRelativeHumidityMeasurementClusterServerTickCallback(int8u endpoint
05844 );
05850 void emberAfRelativeHumidityMeasurementClusterClientTickCallback(int8u endpoint
05851 );
05858 void emberAfRelativeHumidityMeasurementClusterServerAttributeChangedCallback(
05859     int8u endpoint,
05859     EmberAfAttributeId attributeId);
05867 void emberAfRelativeHumidityMeasurementClusterClientAttributeChangedCallback(
05868     int8u endpoint,
05868     EmberAfAttributeId attributeId);
05879 void
05879     emberAfRelativeHumidityMeasurementClusterServerManufacturerSpecificAttributeChangedCallback
05880     (int8u endpoint,
05880         EmberAfAttributeId attributeId,
05881         int16u manufacturerCode);
05892 void
05892     emberAfRelativeHumidityMeasurementClusterClientManufacturerSpecificAttributeChangedCallback
05893     (int8u endpoint,
05893         EmberAfAttributeId attributeId,
05894         int16u manufacturerCode);
05903 void emberAfRelativeHumidityMeasurementClusterServerDefaultResponseCallback(
05904     int8u endpoint,
05904     int8u commandId,
05905     EmberAfStatus status);
05914 void emberAfRelativeHumidityMeasurementClusterClientDefaultResponseCallback(
05915     int8u endpoint,
05915

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    int8u commandId,
05916     EmberAfStatus status);
05929 void emberAfRelativeHumidityMeasurementClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
05930                                         int16u
    indexOrDestination,
05931     EmberApsFrame * apsFrame,
05932                                         int16u
    msgLen,
05933                                         int8u *
    message,
05934     EmberStatus status);
05947 void emberAfRelativeHumidityMeasurementClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
05948                                         int16u
    indexOrDestination,
05949     EmberApsFrame * apsFrame,
05950                                         int16u
    msgLen,
05951                                         int8u *
    message,
05952     EmberStatus status);
05953 // @{
05958
05965 void emberAfOccupancySensingClusterServerInitCallback(int8u endpoint);
05972 void emberAfOccupancySensingClusterClientInitCallback(int8u endpoint);
05979 void emberAfOccupancySensingClusterServerTickCallback(int8u endpoint);
05986 void emberAfOccupancySensingClusterClientTickCallback(int8u endpoint);
05994 void emberAfOccupancySensingClusterServerAttributeChangedCallback(int8u
    endpoint,
05995     EmberAfAttributeId attributeId);
06003 void emberAfOccupancySensingClusterClientAttributeChangedCallback(int8u
    endpoint,
06004     EmberAfAttributeId attributeId);
06014 void emberAfOccupancySensingClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
06015     EmberAfAttributeId attributeId,
06016     int16u manufacturerCode);
06026 void emberAfOccupancySensingClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
06027     EmberAfAttributeId attributeId,
06028     int16u manufacturerCode);
06037 void emberAfOccupancySensingClusterServerDefaultResponseCallback(int8u endpoint
    ,
06038                                         int8u
    commandId,
06039                                         EmberAfStatus
    status);
06048 void emberAfOccupancySensingClusterClientDefaultResponseCallback(int8u endpoint
    ,
06049                                         int8u
    commandId,
06050                                         EmberAfStatus
    status);
06063 void emberAfOccupancySensingClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
06064                                         int16u
    indexOrDestination,
06065     EmberApsFrame *
    apsFrame,
06066                                         int16u msgLen,
06067                                         int8u * message,
06068     EmberStatus status
    );
06081 void emberAfOccupancySensingClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,

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06322                     int16u section5,
06323                     int16u section6,
06324                     int16u section7,
06325                     int16u section8,
06326                     int16u section9,
06327                     int16u section10,
06328                     int16u section11,
06329                     int16u section12,
06330                     int16u section13,
06331                     int16u section14,
06332                     int16u section15);
06340 boolean emberAfIasAceClusterGetZoneInformationResponseCallback(int8u zoneid,
06341                                     int16u zoneType,
06342                                     int8u*
06343                                     ieeeAddress);
06349 void emberAfIasAceClusterServerInitCallback(int8u endpoint);
06356 void emberAfIasAceClusterClientInitCallback(int8u endpoint);
06363 void emberAfIasAceClusterServerTickCallback(int8u endpoint);
06370 void emberAfIasAceClusterClientTickCallback(int8u endpoint);
06378 void emberAfIasAceClusterServerAttributeChangedCallback(int8u endpoint,
06379                                     EmberAfAttributeId
06380                                     attributeId);
06387 void emberAfIasAceClusterClientAttributeChangedCallback(int8u endpoint,
06388                                     EmberAfAttributeId
06389                                     attributeId);
06398 void emberAfIasAceClusterServerManufacturerSpecificAttributeChangedCallback(
06399                                     int8u endpoint,
06400                                     EmberAfAttributeId attributeId,
06401                                     int16u manufacturerCode);
06410 void emberAfIasAceClusterClientManufacturerSpecificAttributeChangedCallback(
06411                                     int8u endpoint,
06412                                     EmberAfAttributeId attributeId,
06413                                     int16u manufacturerCode);
06421 void emberAfIasAceClusterServerDefaultResponseCallback(int8u endpoint,
06422                                     int8u commandId,
06423                                     EmberAfStatus status);
06432 void emberAfIasAceClusterClientDefaultResponseCallback(int8u endpoint,
06433                                     int8u commandId,
06434                                     EmberAfStatus status);
06447 void emberAfIasAceClusterServerMessageSentCallback(EmberOutgoingMessageType
06448                                     type,
06449                                     int16u indexOrDestination,
06450                                     EmberApsFrame * apsFrame,
06451                                     int16u msgLen,
06452                                     int8u * message,
06453                                     EmberStatus status);
06465 void emberAfIasAceClusterClientMessageSentCallback(EmberOutgoingMessageType
06466                                     type,
06467                                     int16u indexOrDestination,
06468                                     EmberApsFrame * apsFrame,
06469                                     int16u msgLen,
06470                                     int8u * message,
06471                                     EmberStatus status);
06475 // @@
06476
06483 boolean emberAfIasWdClusterStartWarningCallback(int8u warningInfo,
06484                                     int16u warningDuration);
06490 boolean emberAfIasWdClusterSquawkCallback(int8u squawkInfo);
06497 void emberAfIasWdClusterServerInitCallback(int8u endpoint);
06504 void emberAfIasWdClusterClientInitCallback(int8u endpoint);
06511 void emberAfIasWdClusterServerTickCallback(int8u endpoint);
06518 void emberAfIasWdClusterClientTickCallback(int8u endpoint);
06526 void emberAfIasWdClusterServerAttributeChangedCallback(int8u endpoint,
06527                                     EmberAfAttributeId
06528                                     attributeId);
06535 void emberAfIasWdClusterClientAttributeChangedCallback(int8u endpoint,
06536                                     EmberAfAttributeId
06537                                     attributeId);
06546 void emberAfIasWdClusterServerManufacturerSpecificAttributeChangedCallback(
06547                                     int8u endpoint,
06548                                     EmberAfAttributeId attributeId,
06549                                     int16u manufacturerCode);

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06558 void emberAfIasWdClusterClientManufacturerSpecificAttributeChangedCallback(
06559     int8u endpoint,
06560     EmberAfAttributeId attributeId,
06561     int16u manufacturerCode);
06569 void emberAfIasWdClusterServerDefaultResponseCallback(int8u endpoint,
06570                                         int8u commandId,
06571                                         EmberAfStatus status);
06580 void emberAfIasWdClusterClientDefaultResponseCallback(int8u endpoint,
06581                                         int8u commandId,
06582                                         EmberAfStatus status);
06585 void emberAfIasWdClusterServerMessageSentCallback(EmberOutgoingMessageType type
06586 ,
06587                                         int16u indexOrDestination,
06588                                         EmberApsFrame * apsFrame,
06589                                         int16u msgLen,
06590                                         int8u * message,
06591                                         EmberStatus status);
06613 void emberAfIasWdClusterClientMessageSentCallback(EmberOutgoingMessageType type
06614 ,
06615                                         int16u indexOrDestination,
06616                                         EmberApsFrame * apsFrame,
06617                                         int16u msgLen,
06618                                         int8u * message,
06619                                         EmberStatus status);

06623 // @{
06624
06629 boolean emberAfDoorLockClusterLockDoorCallback(void);
06634 boolean emberAfDoorLockClusterUnlockDoorCallback(void);
06640 boolean emberAfDoorLockClusterLockDoorResponseCallback(int8u status);
06646 boolean emberAfDoorLockClusterUnlockDoorResponseCallback(int8u status);
06653 void emberAfDoorLockClusterServerInitCallback(int8u endpoint);
06660 void emberAfDoorLockClusterClientInitCallback(int8u endpoint);
06667 void emberAfDoorLockClusterServerTickCallback(int8u endpoint);
06674 void emberAfDoorLockClusterClientTickCallback(int8u endpoint);
06682 void emberAfDoorLockClusterServerAttributeChangedCallback(int8u endpoint,
06683                                         EmberAfAttributeId
06684                                         attributeId);
06691 void emberAfDoorLockClusterClientAttributeChangedCallback(int8u endpoint,
06692                                         EmberAfAttributeId
06693                                         attributeId);
06702 void emberAfDoorLockClusterServerManufacturerSpecificAttributeChangedCallback(
06703     int8u endpoint,
06704     EmberAfAttributeId attributeId,
06714 void emberAfDoorLockClusterClientManufacturerSpecificAttributeChangedCallback(
06715     int8u endpoint,
06716     EmberAfAttributeId attributeId,
06725 void emberAfDoorLockClusterServerDefaultResponseCallback(int8u endpoint,
06726                                         int8u commandId,
06727                                         EmberAfStatus status);
06736 void emberAfDoorLockClusterClientDefaultResponseCallback(int8u endpoint,
06737                                         int8u commandId,
06738                                         EmberAfStatus status);
06751 void emberAfDoorLockClusterServerMessageSentCallback(EmberOutgoingMessageType
06752                                         type,
06753                                         int16u indexOrDestination,
06754                                         EmberApsFrame * apsFrame,
06755                                         int16u msgLen,
06756                                         int8u * message,
06757                                         EmberStatus status);
06769 void emberAfDoorLockClusterClientMessageSentCallback(EmberOutgoingMessageType
06770                                         type,
06771                                         int16u indexOrDestination,
06772                                         EmberApsFrame * apsFrame,
06773                                         int16u msgLen,
06774                                         int8u * message,
06775                                         EmberStatus status);
06779 boolean emberAfDoorLockClusterGetLockStatusCallback(void);
06785 boolean emberAfDoorLockClusterUnlockWithTimeoutCallback(int8u timeoutInSeconds)
06786 ;

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06790 boolean emberAfDoorLockClusterGetBatteryLevelCallback(void);
06798 boolean emberAfDoorLockClusterSetRfLockoutTimeCallback(int8u dayOfWeek,
06799                                         int16u
06800                                         startTimeInMinutesAfterMidnight,
06800                                         int16u
06801                                         stopTimeInMinutesAfterMidnight);
06806 boolean emberAfDoorLockClusterGetRfLockoutTimeCallback(int8u dayOfWeek);
06812 boolean emberAfDoorLockClusterGetLogRecordCallback(int16u logNumber);
06820 boolean emberAfDoorLockClusterUserCodeSetCallback(int8u userId,
06821                                         int8u userStatus,
06822                                         int8u* code);
06828 boolean emberAfDoorLockClusterUserCodeGetCallback(int8u userId);
06834 boolean emberAfDoorLockClusterUserCodeClearCallback(int8u userId);
06839 boolean emberAfDoorLockClusterClearAllUserCodesCallback(void);
06846 boolean emberAfDoorLockClusterSetUserCodeStatusCallback(int8u userId,
06847                                         int8u userStatus);
06853 boolean emberAfDoorLockClusterGetUserCodeStatusCallback(int8u userId);
06858 boolean emberAfDoorLockClusterGetLastUserIdEnteredCallback(void);
06870 boolean emberAfDoorLockClusterSetScheduleSlotCallback(int8u slotNumber,
06871                                         int8u userId,
06872                                         int8u daysMask,
06873                                         int8u startHour,
06874                                         int8u startMinute,
06875                                         int8u durationHour,
06876                                         int8u durationMinute);
06883 boolean emberAfDoorLockClusterGetScheduleSlotCallback(int8u slotNumber,
06884                                         int8u userId);
06892 boolean emberAfDoorLockClusterSetScheduleSlotStatusCallback(int8u slotNumber,
06893                                         int8u userId,
06894                                         int8u status);
06901 boolean emberAfDoorLockClusterSetIndicatorCallback(int8u indicatorNumber,
06902                                         int8u state);
06911 boolean emberAfDoorLockClusterGetLockStatusResponseCallback(int8u lockMode,
06912                                         int8u boltCondition
06913                                         int8u
06914                                         handleCondition,
06914                                         int8u relockTimeout
06914 );
06920 boolean emberAfDoorLockClusterUnlockWithTimeoutResponseCallback(int8u status);
06926 boolean emberAfDoorLockClusterGetBatteryLevelResponseCallback(int8u
06926                                         batteryLevel);
06932 boolean emberAfDoorLockClusterSetRfLockoutTimeResponseCallback(int8u status);
06940 boolean emberAfDoorLockClusterGetRfLockoutTimeResponseCallback(int8u dayOfWeek,
06941                                         int16u
06942                                         startTimeInMinutesAfterMidnight,
06942                                         int16u
06942                                         stopTimeInMinutesAfterMidnight);
06951 boolean emberAfDoorLockClusterGetLogRecordResponseCallback(int16u logEntryId,
06952                                         int32u timestamp,
06953                                         int8u eventType,
06954                                         int8u userId);
06960 boolean emberAfDoorLockClusterUserCodeSetResponseCallback(int8u status);
06968 boolean emberAfDoorLockClusterUserCodeGetResponseCallback(int8u userId,
06969                                         int8u userStatus,
06970                                         int8u* code);
06976 boolean emberAfDoorLockClusterUserCodeClearResponseCallback(int8u status);
06982 boolean emberAfDoorLockClusterClearAllUserCodesResponseCallback(int8u status);
06988 boolean emberAfDoorLockClusterSetUserCodeStatusResponseCallback(int8u status);
06995 boolean emberAfDoorLockClusterGetUserCodeStatusResponseCallback(int8u userId,
06996                                         int8u
06996                                         userStatus);
07003 boolean emberAfDoorLockClusterGetLastUserIdEnteredResponseCallback(int8u userId
07004                                         int8u reason
07004 );
07012 boolean emberAfDoorLockClusterUserAddedCallback(int8u userId,
07013                                         int8u userStatus,
07014                                         int8u* code);
07020 boolean emberAfDoorLockClusterUserDeletedCallback(int8u userId);
07026 boolean emberAfDoorLockClusterSetScheduleSlotResponseCallback(int8u status);
07038 boolean emberAfDoorLockClusterGetScheduleSlotResponseCallback(int8u slotNumber,
07039                                         int8u userId,
07040                                         int8u daysMask,
07041                                         int8u startHour,
07042                                         int8u startMinute
07043                                         int8u

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        durationHour,
07044                               int8u
        durationMinute);
07050 boolean emberAfDoorLockClusterSetScheduleSlotStatusResponseCallback(int8u
        status);
07051
07055 // @{
07056
07061 boolean emberAfWindowCoveringClusterWindowCoveringUpOpenCallback(void);
07066 boolean emberAfWindowCoveringClusterWindowCoveringDownCloseCallback(void);
07071 boolean emberAfWindowCoveringClusterWindowCoveringStopCallback(void);
07077 boolean emberAfWindowCoveringClusterWindowCoveringGoToLiftSetpointCallback(
        int8u indexOfLiftSetpoint);
07083 boolean emberAfWindowCoveringClusterWindowCoveringGoToLiftValueCallback(int16u
        liftValue);
07089 boolean emberAfWindowCoveringClusterWindowCoveringGoToLiftPercentageCallback(
        int8u percentageLiftValue);
07095 boolean emberAfWindowCoveringClusterWindowCoveringGoToTiltSetpointCallback(
        int8u indexOfTiltSetpoint);
07101 boolean emberAfWindowCoveringClusterWindowCoveringGoToTiltValueCallback(int16u
        tiltValue);
07107 boolean emberAfWindowCoveringClusterWindowCoveringGoToTiltPercentageCallback(
        int8u percentageTiltValue);
07115 boolean emberAfWindowCoveringClusterWindowCoveringGoToProgramSetpointCallback(
        int8u setpointType,
07116
        int8u setpointIndex,
07117
        int16u setpointValue);
07124 void emberAfWindowCoveringClusterServerInitCallback(int8u endpoint);
07131 void emberAfWindowCoveringClusterClientInitCallback(int8u endpoint);
07138 void emberAfWindowCoveringClusterServerTickCallback(int8u endpoint);
07145 void emberAfWindowCoveringClusterClientTickCallback(int8u endpoint);
07153 void emberAfWindowCoveringClusterServerAttributeChangedCallback(int8u endpoint,
07154
        EmberAfAttributeId attributeId);
07162 void emberAfWindowCoveringClusterClientAttributeChangedCallback(int8u endpoint,
07163
        EmberAfAttributeId attributeId);
07173 void
        emberAfWindowCoveringClusterServerManufacturerSpecificAttributeChangedCallback(
        int8u endpoint,
07174
        EmberAfAttributeId attributeId,
07175
        int16u manufacturerCode);
07185 void
        emberAfWindowCoveringClusterClientManufacturerSpecificAttributeChangedCallback(
        int8u endpoint,
07186
        EmberAfAttributeId attributeId,
07187
        int16u manufacturerCode);
07196 void emberAfWindowCoveringClusterServerDefaultResponseCallback(int8u endpoint,
07197
        int8u commandId,
07198
        EmberAfStatus
07207 void emberAfWindowCoveringClusterClientDefaultResponseCallback(int8u endpoint,
07208
        int8u commandId,
07209
        EmberAfStatus
07222 void emberAfWindowCoveringClusterServerMessageSentCallback(
        EmberOutgoingMessageType type,
07223
        int16u
        indexOrDestination,
07224
        EmberApsFrame *
        apsFrame,
07225
        int16u msgLen,
07226
        int8u * message,
07227
        EmberStatus status);
07240 void emberAfWindowCoveringClusterClientMessageSentCallback(
        EmberOutgoingMessageType type,
07241
        int16u
        indexOrDestination,
07242
        EmberApsFrame *
        apsFrame,

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07243             int16u msgLen,
07244             int8u * message,
07245             EmberStatus status);
07246
07250 // @{
07251
07257 boolean emberAfPowerProfileClusterPowerProfileRequestCallback(int8u
07258     powerProfileId);
07262 boolean emberAfPowerProfileClusterPowerProfileStateRequestCallback(void);
07271 boolean emberAfPowerProfileClusterGetPowerProfilePriceResponseCallback(int8u
07272             powerProfileId,
07273             int16u
07274             currency,
07275             int32u
07276             price,
07277             int8u
07278             priceTrailingDigit);
07282 boolean emberAfPowerProfileClusterGetOverallSchedulePriceResponseCallback(
07283             int16u currency,
07284             int32u price,
07285             int8u
07286             priceTrailingDigit);
07292 boolean emberAfPowerProfileClusterEnergyPhasesScheduleNotificationCallback(
07293             int8u powerProfileId,
07294             int8u numOfScheduledPhases,
07295             int8u* scheduledPhases);
07302 boolean emberAfPowerProfileClusterEnergyPhasesScheduleResponseCallback(int8u
07303             powerProfileId,
07304             int8u
07305             numOfScheduledPhases,
07306             int8u*
07307             scheduledPhases);
07310 boolean emberAfPowerProfileClusterPowerProfileScheduleConstraintsRequestCallback
07311             (int8u powerProfileId);
07316 boolean emberAfPowerProfileClusterEnergyPhasesScheduleStateRequestCallback(
07317             int8u powerProfileId);
07325 boolean emberAfPowerProfileClusterPowerProfileNotificationCallback(int8u
07326             totalProfileNum,
07327             int8u
07328             powerProfileId,
07329             int8u
07330             numOfTransferredPhases,
07331             int8u*
07332             transferredPhases);
07337 boolean emberAfPowerProfileClusterPowerProfileResponseCallback(int8u
07338             totalProfileNum,
07339             int8u
07340             powerProfileId,
07341             int8u
07342             numOfTransferredPhases,
07343             int8u*
07344             transferredPhases);
07347 boolean emberAfPowerProfileClusterPowerProfileStateResponseCallback(int8u
07348             powerProfileCount,
07349             int8u*
07350             powerProfileRecords);
07354 boolean emberAfPowerProfileClusterGetPowerProfilePriceCallback(int8u
07355             powerProfileId);
07361 boolean emberAfPowerProfileClusterPowerProfilesStateNotificationCallback(int8u
07362             powerProfileCount,
07363             int8u*
07364             powerProfileRecords);
07367 boolean emberAfPowerProfileClusterGetOverallSchedulePriceCallback(void);
07373 boolean emberAfPowerProfileClusterEnergyPhasesScheduleRequestCallback(int8u
07374             powerProfileId);
07381 boolean emberAfPowerProfileClusterEnergyPhasesScheduleStateResponseCallback (
07382             int8u powerProfileId,
07383             int8u numOfScheduledPhases,
07384             int8u* scheduledPhases);
07391 boolean emberAfPowerProfileClusterEnergyPhasesScheduleStateNotificationCallback
07392             (int8u powerProfileId,
07393             int8u numOfScheduledPhases,
07394             int8u* scheduledPhases);

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07401 boolean
07402     emberAfPowerProfileClusterPowerProfileScheduleConstraintsNotificationCallback(
07403         int8u powerProfileId,
07404             int16u startAfter,
07405             int16u stopBefore);
07411 boolean
07412     emberAfPowerProfileClusterPowerProfileScheduleConstraintsResponseCallback(int8u
07413         powerProfileId,
07414             int16u startAfter,
07415             int16u stopBefore);
07420 void emberAfPowerProfileClusterServerInitCallback(int8u endpoint);
07427 void emberAfPowerProfileClusterClientInitCallback(int8u endpoint);
07434 void emberAfPowerProfileClusterServerTickCallback(int8u endpoint);
07441 void emberAfPowerProfileClusterClientTickCallback(int8u endpoint);
07449 void emberAfPowerProfileClusterServerAttributeChangedCallback(int8u endpoint,
07450                                         EmberAfAttributeId
07451     attributeId);
07458 void emberAfPowerProfileClusterClientAttributeChangedCallback(int8u endpoint,
07459                                         EmberAfAttributeId
07460     attributeId);
07469 void
07470     emberAfPowerProfileClusterServerManufacturerSpecificAttributeChangedCallback(
07471         int8u endpoint,
07472             EmberAfAttributeId attributeId,
07473             int16u manufacturerCode);
07481 void
07482     emberAfPowerProfileClusterClientManufacturerSpecificAttributeChangedCallback(
07483         int8u endpoint,
07484             EmberAfAttributeId attributeId,
07485             int16u manufacturerCode);
07492 void emberAfPowerProfileClusterServerDefaultResponseCallback(int8u endpoint,
07493                                         int8u commandId,
07494                                         EmberAfStatus
07495     status);
07503 void emberAfPowerProfileClusterClientDefaultResponseCallback(int8u endpoint,
07504                                         int8u commandId,
07505                                         EmberAfStatus
07506     status);
07518 void emberAfPowerProfileClusterServerMessageSentCallback(
07519     EmberOutgoingMessageType type,
07520             int16u
07521     indexOrDestination,
07522             EmberApsFrame *
07523     apsFrame,
07524             int16u msgLen,
07525             int8u * message,
07526             EmberStatus status);
07536 void emberAfPowerProfileClusterClientMessageSentCallback(
07537     EmberOutgoingMessageType type,
07538             int16u
07539     indexOrDestination,
07540             EmberApsFrame *
07541     apsFrame,
07542             int16u msgLen,
07543             int8u * message,
07544             EmberStatus status);
07542 // @@
07553 boolean emberAfApplianceControlClusterExecutionOfACallback(int8u
07554     commandId);
07558 boolean emberAfApplianceControlClusterSignalStateCallback(void);
07566 boolean emberAfApplianceControlClusterWriteFunctionsCallback(int16u functionId,
07567                                         int8u
07568     functionDataType,
07569                                         int8u*
07570     functionData);
07573 boolean emberAfApplianceControlClusterOverloadPauseResumeCallback(void);
07578 boolean emberAfApplianceControlClusterOverloadPauseCallback(void);
07584 boolean emberAfApplianceControlClusterOverloadWarningCallback(int8u
07585     warningEvent);

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07592 boolean emberAfApplianceControlClusterSignalStateResponseCallback(int8u
07593     applianceStatus,
07594             int8u
07594     remoteEnableFlagsAndDeviceStatus2,
07594             int32u
07594     applianceStatus2);
07602 boolean emberAfApplianceControlClusterSignalStateNotificationCallback(int8u
07602     applianceStatus,
07603             int8u
07603     remoteEnableFlagsAndDeviceStatus2,
07604             int32u
07604     applianceStatus2);
07611 void emberAfApplianceControlClusterServerInitCallback(int8u endpoint);
07618 void emberAfApplianceControlClusterClientInitCallback(int8u endpoint);
07625 void emberAfApplianceControlClusterServerTickCallback(int8u endpoint);
07632 void emberAfApplianceControlClusterClientTickCallback(int8u endpoint);
07640 void emberAfApplianceControlClusterServerAttributeChangedCallback(int8u
07640     endpoint,
07641     EmberAfAttributeId attributeId);
07649 void emberAfApplianceControlClusterClientAttributeChangedCallback(int8u
07649     endpoint,
07650     EmberAfAttributeId attributeId);
07660 void
07660     emberAfApplianceControlClusterServerManufacturerSpecificAttributeChangedCallback
07660     (int8u endpoint,
07661         EmberAfAttributeId attributeId,
07662         int16u manufacturerCode);
07672 void
07672     emberAfApplianceControlClusterClientManufacturerSpecificAttributeChangedCallback
07672     (int8u endpoint,
07673         EmberAfAttributeId attributeId,
07674         int16u manufacturerCode);
07683 void emberAfApplianceControlClusterServerDefaultResponseCallback(int8u endpoint
07683 ,
07684             int8u
07685     commandId,
07685             EmberAfStatus
07685     status);
07694 void emberAfApplianceControlClusterClientDefaultResponseCallback(int8u endpoint
07694 ,
07695             int8u
07695     commandId,
07696             EmberAfStatus
07696     status);
07709 void emberAfApplianceControlClusterServerMessageSentCallback(
07709     EmberOutgoingMessageType type,
07710             int16u
07710     indexOrDestination,
07711             EmberApsFrame *
07711     apsFrame,
07712             int16u msgLen,
07713             int8u * message,
07714             EmberStatus status
07714 );
07727 void emberAfApplianceControlClusterClientMessageSentCallback(
07727     EmberOutgoingMessageType type,
07728             int16u
07728     indexOrDestination,
07729             EmberApsFrame *
07729     apsFrame,
07730             int16u msgLen,
07731             int8u * message,
07732             EmberStatus status
07732 );
07733 // @{
07738
07743 boolean emberAfPollControlClusterCheckInCallback(void);
07750 boolean emberAfPollControlClusterCheckInResponseCallback(int8u startFastPolling
07750 ,
07751             int16u fastPollTimeout
07751 );
07756 boolean emberAfPollControlClusterFastPollStopCallback(void);
07762 boolean emberAfPollControlClusterSetLongPollIntervalCallback(int32u

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        newLongPollInterval);
07768 boolean emberAfPollControlClusterSetShortPollIntervalCallback(int16u
        newShortPollInterval);
07775 void emberAfPollControlClusterServerInitCallback(int8u endpoint);
07782 void emberAfPollControlClusterClientInitCallback(int8u endpoint);
07789 void emberAfPollControlClusterServerTickCallback(int8u endpoint);
07796 void emberAfPollControlClusterClientTickCallback(int8u endpoint);
07804 void emberAfPollControlClusterServerAttributeChangedCallback(int8u endpoint,
07805                                     EmberAfAttributeId
        attributeId);
07813 void emberAfPollControlClusterClientAttributeChangedCallback(int8u endpoint,
07814                                     EmberAfAttributeId
        attributeId);
07824 void emberAfPollControlClusterServerManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
07825             EmberAfAttributeId attributeId,
07826             int16u manufacturerCode);
07836 void emberAfPollControlClusterClientManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
07837             EmberAfAttributeId attributeId,
07838             int16u manufacturerCode);
07847 void emberAfPollControlClusterServerDefaultResponseCallback(int8u endpoint,
07848                                     int8u commandId,
07849                                     EmberAfStatus
        status);
07858 void emberAfPollControlClusterClientDefaultResponseCallback(int8u endpoint,
07859                                     int8u commandId,
07860                                     EmberAfStatus
        status);
07873 void emberAfPollControlClusterServerMessageSentCallback(
        EmberOutgoingMessageType type,
07874                                     int16u
        indexOrDestination,
07875                                     EmberApsFrame *
        apsFrame,
07876                                     int16u msgLen,
07877                                     int8u * message,
07878                                     EmberStatus status);
07891 void emberAfPollControlClusterClientMessageSentCallback(
        EmberOutgoingMessageType type,
07892                                     int16u
        indexOrDestination,
07893                                     EmberApsFrame *
        apsFrame,
07894                                     int16u msgLen,
07895                                     int8u * message,
07896                                     EmberStatus status);
07897
07901 // @@
07902
07909 void emberAfApplianceIdentificationClusterServerInitCallback(int8u endpoint);
07916 void emberAfApplianceIdentificationClusterClientInitCallback(int8u endpoint);
07923 void emberAfApplianceIdentificationClusterServerTickCallback(int8u endpoint);
07930 void emberAfApplianceIdentificationClusterClientTickCallback(int8u endpoint);
07938 void emberAfApplianceIdentificationClusterServerAttributeChangedCallback(int8u
        endpoint,
07939     EmberAfAttributeId attributeId);
07947 void emberAfApplianceIdentificationClusterClientAttributeChangedCallback(int8u
        endpoint,
07948     EmberAfAttributeId attributeId);
07959 void emberAfApplianceIdentificationClusterServerManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
07960             EmberAfAttributeId attributeId,
07961             int16u manufacturerCode);
07972 void emberAfApplianceIdentificationClusterClientManufacturerSpecificAttributeChangedCallback
        (int8u endpoint,
07973             EmberAfAttributeId attributeId,
07974             int16u manufacturerCode);

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```
07983 void emberAfApplianceIdentificationClusterServerDefaultResponseCallback(int8u
07984     endpoint,
07985     int8u
07986     commandId,
07987     EmberAfStatus status);
07994 void emberAfApplianceIdentificationClusterClientDefaultResponseCallback(int8u
07995     endpoint,
07996     int8u
07997     commandId,
07998     EmberAfStatus status);
08009 void emberAfApplianceIdentificationClusterServerMessageSentCallback(
08010     EmberOutgoingMessageType type,
08011     int16u
08012     indexOrDestination,
08013     int16u
08014     msgLen,
08015     EmberApsFrame * apsFrame,
08016     int8u *
08017     message,
08018     EmberStatus
08027 void emberAfApplianceIdentificationClusterClientMessageSentCallback(
08028     EmberOutgoingMessageType type,
08029     int16u
08030     indexOrDestination,
08031     int16u
08032     msgLen,
08033     EmberApsFrame * apsFrame,
08034     int16u
08035     message,
08036     int8u *
08037     status);
08038 // @{
08045 void emberAfMeterIdentificationClusterServerInitCallback(int8u endpoint);
08052 void emberAfMeterIdentificationClusterClientInitCallback(int8u endpoint);
08059 void emberAfMeterIdentificationClusterServerTickCallback(int8u endpoint);
08066 void emberAfMeterIdentificationClusterClientTickCallback(int8u endpoint);
08074 void emberAfMeterIdentificationClusterServerAttributeChangedCallback(int8u
08075     endpoint,
08076     EmberAfAttributeId attributeId);
08083 void emberAfMeterIdentificationClusterClientAttributeChangedCallback(int8u
08084     endpoint,
08085     EmberAfAttributeId attributeId);
08095 void
08096     emberAfMeterIdentificationClusterServerManufacturerSpecificAttributeChangedCallback
08097     (int8u endpoint,
08098         EmberAfAttributeId attributeId,
08099         int16u manufacturerCode);
08108 void
08109     emberAfMeterIdentificationClusterClientManufacturerSpecificAttributeChangedCallback
08110     (int8u endpoint,
08111         EmberAfAttributeId attributeId,
08112         int16u manufacturerCode);
08119 void emberAfMeterIdentificationClusterServerDefaultResponseCallback(int8u
08120     endpoint,
08121     int8u
08122     commandId,
08123     EmberAfStatus status);
08130 void emberAfMeterIdentificationClusterClientDefaultResponseCallback(int8u
08131     endpoint,
08132     int8u
08133     commandId,
08134     EmberAfStatus status);
08145 void emberAfMeterIdentificationClusterServerMessageSentCallback(
08146     EmberOutgoingMessageType type,
08147     int16u
```

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    indexOrDestination,
08147           EmberApsFrame *
08148           int16u msgLen,
08149           int8u * message
08150           ,
08151           EmberStatus
08152           status);
08153 void emberAfMeterIdentificationClusterClientMessageSentCallback(
08154     EmberOutgoingMessageType type,
08155           int16u
08156     indexOrDestination,
08157           EmberApsFrame *
08158     apsFrame,
08159           int16u msgLen,
08160           int8u * message
08161           ,
08162           EmberStatus
08163           status);
08164 // @{
08165
08166 boolean emberAfApplianceEventsAndAlertClusterGetAlertsCallback(void);
08167 boolean emberAfApplianceEventsAndAlertClusterGetAlertsResponseCallback(int8u
08168     alertsCount,
08169           int8u*
08170     alertStructures);
08171 boolean emberAfApplianceEventsAndAlertClusterAlertsNotificationCallback(int8u
08172     alertsCount,
08173           int8u*
08174     alertStructures);
08175 boolean emberAfApplianceEventsAndAlertClusterEventsNotificationCallback(int8u
08176     eventHeader,
08177           int8u
08178     eventId);
08179 void emberAfApplianceEventsAndAlertClusterServerInitCallback(int8u endpoint);
08180 void emberAfApplianceEventsAndAlertClusterClientInitCallback(int8u endpoint);
08181 void emberAfApplianceEventsAndAlertClusterServerTickCallback(int8u endpoint);
08182 void emberAfApplianceEventsAndAlertClusterClientTickCallback(int8u endpoint);
08183 void emberAfApplianceEventsAndAlertClusterServerAttributeChangedCallback(int8u
08184     endpoint,
08185           EmberAfAttributeId attributeId);
08186 void emberAfApplianceEventsAndAlertClusterClientAttributeChangedCallback(int8u
08187     endpoint,
08188           EmberAfAttributeId attributeId);
08189 void emberAfApplianceEventsAndAlertClusterServerManufacturerSpecificAttributeChangedCallback
08190     (int8u endpoint,
08191           EmberAfAttributeId attributeId,
08192           int16u manufacturerCode);
08193 void emberAfApplianceEventsAndAlertClusterClientManufacturerSpecificAttributeChangedCallback
08194     (int8u endpoint,
08195           EmberAfAttributeId attributeId,
08196           int16u manufacturerCode);
08197 void emberAfApplianceEventsAndAlertClusterServerDefaultResponseCallback(int8u
08198     endpoint,
08199           int8u
08200     commandId,
08201           EmberAfStatus status);
08202 void emberAfApplianceEventsAndAlertClusterClientDefaultResponseCallback(int8u
08203     endpoint,
08204           int8u
08205     commandId,
08206           EmberAfStatus status);
08207 void emberAfApplianceEventsAndAlertClusterServerMessageSentCallback(
08208     EmberOutgoingMessageType type,
08209           int16u
08210     indexOrDestination,
08211           EmberApsFrame * apsFrame,
08212           int16u
08213

```

```

        msgLen,
08314                                int8u *
message,
08315                                EmberStatus
status);
08328 void emberAfApplianceEventsAndAlertClusterClientMessageSentCallback(
EmberOutgoingMessageType type,
08329                                int16u
indexOrDestination,
08330                                EmberApsFrame *
apsFrame,
08331                                int16u
msgLen,
08332                                int8u *
message,
08333                                EmberStatus
status);
08334 // @{
08339
08345 boolean emberAfGenericTunnelClusterMatchProtocolAddressCallback(int8u*
protocolAddress);
08352 boolean emberAfGenericTunnelClusterMatchProtocolAddressResponseCallback(int8u*
deviceIEEEAddress,
08353                                int8u*
protocolAddress);
08359 boolean emberAfGenericTunnelClusterAdvertiseProtocolAddressCallback(int8u*
protocolAddress);
08366 void emberAfGenericTunnelClusterServerInitCallback(int8u endpoint);
08373 void emberAfGenericTunnelClusterClientInitCallback(int8u endpoint);
08380 void emberAfGenericTunnelClusterServerTickCallback(int8u endpoint);
08387 void emberAfGenericTunnelClusterClientTickCallback(int8u endpoint);
08395 void emberAfGenericTunnelClusterServerAttributeChangedCallback(int8u endpoint,
08396                                EmberAfAttributeId attributeId);
08404 void emberAfGenericTunnelClusterClientAttributeChangedCallback(int8u endpoint,
08405                                EmberAfAttributeId attributeId);
08415 void emberAfGenericTunnelClusterServerManufacturerSpecificAttributeChangedCallback(
int8u endpoint,
08416                                EmberAfAttributeId attributeId,
08417                                int16u manufacturerCode);
08427 void emberAfGenericTunnelClusterClientManufacturerSpecificAttributeChangedCallback(
int8u endpoint,
08428                                EmberAfAttributeId attributeId,
08429                                int16u manufacturerCode);
08438 void emberAfGenericTunnelClusterServerDefaultResponseCallback(int8u endpoint,
08439                                int8u commandId,
08440                                EmberAfStatus
status);
08449 void emberAfGenericTunnelClusterClientDefaultResponseCallback(int8u endpoint,
08450                                int8u commandId,
08451                                EmberAfStatus
status);
08464 void emberAfGenericTunnelClusterServerMessageSentCallback(
EmberOutgoingMessageType type,
08465                                int16u
indexOrDestination,
08466                                EmberApsFrame *
apsFrame,
08467                                int16u msgLen,
08468                                int8u * message,
08469                                EmberStatus status);
08482 void emberAfGenericTunnelClusterClientMessageSentCallback(
EmberOutgoingMessageType type,
08483                                int16u
indexOrDestination,
08484                                EmberApsFrame *
apsFrame,
08485                                int16u msgLen,
08486                                int8u * message,
08487                                EmberStatus status);
08488 // @{
08492 // @@

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```

08493
08499 boolean emberAfBacnetProtocolTunnelClusterTransferNpduCallback(int8u* npdu);
08506 void emberAfBacnetProtocolTunnelClusterServerInitCallback(int8u endpoint);
08513 void emberAfBacnetProtocolTunnelClusterClientInitCallback(int8u endpoint);
08520 void emberAfBacnetProtocolTunnelClusterServerTickCallback(int8u endpoint);
08527 void emberAfBacnetProtocolTunnelClusterClientTickCallback(int8u endpoint);
08535 void emberAfBacnetProtocolTunnelClusterServerAttributeChangedCallback(int8u
    endpoint,
08536     EmberAfAttributeId attributeId);
08544 void emberAfBacnetProtocolTunnelClusterClientAttributeChangedCallback(int8u
    endpoint,
08545     EmberAfAttributeId attributeId);
08556 void emberAfBacnetProtocolTunnelClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
08557        EmberAfAttributeId attributeId,
08558        int16u manufacturerCode);
08569 void emberAfBacnetProtocolTunnelClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
08570        EmberAfAttributeId attributeId,
08571        int16u manufacturerCode);
08580 void emberAfBacnetProtocolTunnelClusterServerDefaultResponseCallback(int8u
    endpoint,
08581        int8u
    commandId,
08582        EmberAfStatus status);
08591 void emberAfBacnetProtocolTunnelClusterClientDefaultResponseCallback(int8u
    endpoint,
08592        int8u
    commandId,
08593        EmberAfStatus status);
08606 void emberAfBacnetProtocolTunnelClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
08607        int16u
    indexOrDestination,
08608        EmberApsFrame
    * apsFrame,
08609        int16u msgLen,
08610        int8u *
    message,
08611        EmberStatus
    status);
08624 void emberAfBacnetProtocolTunnelClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
08625        int16u
    indexOrDestination,
08626        EmberApsFrame
    * apsFrame,
08627        int16u msgLen,
08628        int8u *
    message,
08629        EmberStatus
    status);
08630 // @{
08635
08645 boolean emberAfOtaBootloadClusterImageNotifyCallback(int8u payloadType,
08646        int8u queryJitter,
08647        int16u manufacturerId,
08648        int16u imageType,
08649        int32u newFileVersion);
08659 boolean emberAfOtaBootloadClusterQueryNextImageRequestCallback(int8u
    fieldControl,
08660        int16u
    manufacturerId,
08661        int16u imageType
    ,
08662        int32u
    currentFileVersion,

```

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08663                               int16u
08673     hardwareVersion);
08674     boolean emberAfOtaBootloadClusterQueryNextImageResponseCallback(int8u status,
08675                           int16u
08676                           manufacturerId,
08677                           int16u
08678                           imageType,
08679                           int32u
08680                           fileVersion,
08681                           int32u
08682                           imageSize);
08683     boolean emberAfOtaBootloadClusterImageBlockRequestCallback(int8u fieldControl,
08684                           int16u
08685                           manufacturerId,
08686                           int16u imageType,
08687                           int32u fileVersion,
08688                           int32u fileOffset,
08689                           int8u maxDataSize,
08690                           int8u*
08691                           requestNodeAddress);
08692     boolean emberAfOtaBootloadClusterImagePageRequestCallback(int8u fieldControl,
08693                           int16u manufacturerId
08694                           ,
08695                           int16u imageType,
08696                           int32u fileVersion,
08697                           int32u fileOffset,
08698                           int8u maxDataSize,
08699                           int16u pageSize,
08700                           int16u
08701                           responseSpacing,
08702                           int8u*
08703                           requestNodeAddress);
08704     boolean emberAfOtaBootloadClusterImageBlockResponseCallback(int8u status,
08705                           int16u
08706                           manufacturerId,
08707                           int16u imageType,
08708                           int32u fileVersion,
08709                           int32u fileOffset,
08710                           int8u dataSize,
08711                           int8u* imageData);
08712     boolean emberAfOtaBootloadClusterUpgradeEndRequestCallback(int8u status,
08713                           int16u
08714                           manufacturerId,
08715                           int16u imageType,
08716                           int32u fileVersion);
08717                           int32u fileOffset,
08718                           int8u dataSize,
08719                           int8u* imageData);
08720     boolean emberAfOtaBootloadClusterUpgradeEndResponseCallback(int16u
08721                           manufacturerId,
08722                           int16u imageType,
08723                           int32u fileVersion,
08724                           int32u fileOffset,
08725                           int8u dataSize,
08726                           int8u* imageData);
08727     boolean emberAfOtaBootloadClusterQuerySpecificFileRequestCallback(int8u*
08728                           requestNodeAddress,
08729                           int16u
08730                           manufacturerId,
08731                           int16u imageType,
08732                           int32u fileVersion,
08733                           int32u fileOffset,
08734                           int8u dataSize,
08735                           int8u* imageData);
08736     boolean emberAfOtaBootloadClusterUpgradeEndRequestCallback(int8u status,
08737                           int16u
08738                           manufacturerId,
08739                           int16u imageType,
08740                           int32u fileVersion);
08741     boolean emberAfOtaBootloadClusterUpgradeEndResponseCallback(int16u
08742                           manufacturerId,
08743                           int16u imageType,
08744                           int32u fileVersion,
08745                           int32u fileOffset,
08746                           int8u dataSize,
08747                           int8u* imageData);
08748     boolean emberAfOtaBootloadClusterQuerySpecificFileRequestCallback(int8u*
08749                           requestNodeAddress,
08750                           int16u
08751                           manufacturerId,
08752                           int16u imageType,
08753                           int32u fileVersion,
08754                           int32u fileOffset,
08755                           int16u
08756                           currentZigbeeStackVersion);
08757     boolean emberAfOtaBootloadClusterQuerySpecificFileResponseCallback(int8u status
08758                           ,
08759                           int16u
08760                           manufacturerId,
08761                           int16u imageType,
08762                           int32u fileVersion,
08763                           int32u fileOffset,
08764                           int8u dataSize,
08765                           int8u* imageData);
08766     void emberAfOtaBootloadClusterServerInitCallback(int8u endpoint);
08767     void emberAfOtaBootloadClusterClientInitCallback(int8u endpoint);
08768     void emberAfOtaBootloadClusterServerTickCallback(int8u endpoint);
08769     void emberAfOtaBootloadClusterClientTickCallback(int8u endpoint);
08770     void emberAfOtaBootloadClusterServerAttributeChangedCallback(int8u endpoint,

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08826                               EmberAfAttributeId
08827     attributeId);
08828 void emberAfOtaBootloadClusterClientAttributeChangedCallback(int8u endpoint,
08829                               EmberAfAttributeId
08830     attributeId);
08831 void emberAfOtaBootloadClusterServerManufacturerSpecificAttributeChangedCallback
08832 (int8u endpoint,
08833     EmberAfAttributeId attributeId,
08834     int16u manufacturerCode);
08835 void emberAfOtaBootloadClusterClientManufacturerSpecificAttributeChangedCallback
08836 (int8u endpoint,
08837     EmberAfAttributeId attributeId,
08838     int16u manufacturerCode);
08839 void emberAfOtaBootloadClusterServerDefaultResponseCallback(int8u endpoint,
08840                               int8u commandId,
08841                               EmberAfStatus
08842     status);
08843 void emberAfOtaBootloadClusterClientDefaultResponseCallback(int8u endpoint,
08844                               int8u commandId,
08845                               EmberAfStatus
08846     status);
08847 void emberAfOtaBootloadClusterServerMessageSentCallback(
08848     EmberOutgoingMessageType type,
08849     int16u
08850     indexOrDestination,
08851     EmberApsFrame *
08852     apsFrame,
08853     int16u msgLen,
08854     int8u * message,
08855     EmberStatus status);
08856 void emberAfOtaBootloadClusterClientMessageSentCallback(
08857     EmberOutgoingMessageType type,
08858     int16u
08859     indexOrDestination,
08860     EmberApsFrame *
08861     apsFrame,
08862     int16u msgLen,
08863     int8u * message,
08864     EmberStatus status);
08865
08866 // @@
08867 boolean emberAfDemandResponseLoadControlClusterLoadControlEventCallback(int32u
08868     issuerEventId,
08869     int16u
08870     deviceClass,
08871     int8u
08872     utilityEnrollmentGroup,
08873     int32u
08874     startTime,
08875     int16u
08876     durationInMinutes,
08877     int8u
08878     criticalityLevel,
08879     int8u
08880     coolingTemperatureOffset,
08881     int8u
08882     heatingTemperatureOffset,
08883     int16s
08884     coolingTemperatureSetPoint,
08885     int16s
08886     heatingTemperatureSetPoint,
08887     int8s
08888     averageLoadAdjustmentPercentage,
08889     int8u
08890     dutyCycle,
08891     int8u
08892     eventControl);
08893 boolean emberAfDemandResponseLoadControlClusterCancelLoadControlEventCallback (
08894     int32u issuerEventId,
08895     int16u deviceClass,
08896     int8u utilityEnrollmentGroup,
08897     int8u cancelControl,

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08969     int32u effectiveTime);
08975 boolean emberAfDemandResponseLoadControlClusterCancelAllLoadControlEventsCallback(int8u
08991 boolean emberAfDemandResponseLoadControlClusterReportEventStatusCallback(int32u
08992 issuerEventId,
08992                                         int8u
08993 eventStatus,
08993                                         int32u
08994 criticalityLevelApplied,
08994                                         int8u
08995 coolingTemperatureSetPointApplied,
08996                                         int16s
08996 heatingTemperatureSetPointApplied,
08997                                         int16s
08997 averageLoadAdjustmentPercentageApplied,
08998                                         int8s
08998 dutyCycleApplied,
08999                                         int8u
08999 eventControl,
09000                                         int8u
09000 signatureType,
09001                                         int8u*
09001 signature);
09008 boolean emberAfDemandResponseLoadControlClusterGetScheduledEventsCallback(
09008 int32u startTime,
09009                                         int8u
09009 numberofEvents);
09016 void emberAfDemandResponseLoadControlClusterServerInitCallback(int8u endpoint);
09023 void emberAfDemandResponseLoadControlClusterClientInitCallback(int8u endpoint);
09030 void emberAfDemandResponseLoadControlClusterServerTickCallback(int8u endpoint);
09037 void emberAfDemandResponseLoadControlClusterClientTickCallback(int8u endpoint);
09045 void emberAfDemandResponseLoadControlClusterServerAttributeChangedCallback(
09045 int8u endpoint,
09046     EmberAfAttributeId attributeId);
09054 void emberAfDemandResponseLoadControlClusterClientAttributeChangedCallback(
09054 int8u endpoint,
09055     EmberAfAttributeId attributeId);
09066 void emberAfDemandResponseLoadControlClusterServerManufacturerSpecificAttributeChangedCallback
09066 (int8u endpoint,
09067     EmberAfAttributeId attributeId,
09068     int16u manufacturerCode);
09079 void emberAfDemandResponseLoadControlClusterClientManufacturerSpecificAttributeChangedCallback
09079 (int8u endpoint,
09080     EmberAfAttributeId attributeId,
09081     int16u manufacturerCode);
09090 void emberAfDemandResponseLoadControlClusterServerDefaultResponseCallback(int8u
09090 endpoint,
09091                                         int8u
09091 commandId,
09092     EmberAfStatus status);
09101 void emberAfDemandResponseLoadControlClusterClientDefaultResponseCallback(int8u
09101 endpoint,
09102                                         int8u
09102 commandId,
09103     EmberAfStatus status);
09116 void emberAfDemandResponseLoadControlClusterServerMessageSentCallback(
09116 EmberOutgoingMessageType type,
09117                                         int16u
09118     indexOrDestination,
09119     EmberApsFrame * apsFrame,
09119                                         int16u
09120     msgLen,
09120     message,
09121                                         int8u *
09121

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        EmberStatus status);
09134 void emberAfDemandResponseLoadControlClusterClientMessageSentCallback(
        EmberOutgoingMessageType type,
09135                                         int16u
        indexOrDestination,
09136
        EmberApsFrame * apsFrame,
09137                                         int16u
        msgLen,
09138                                         int8u *
        message,
09139
        EmberStatus status);
09140
09141 // @{
09142
09143 boolean emberAfSimpleMeteringClusterGetProfileResponseCallback(int32u endTime,
09144                                         int8u status,
09145                                         int8u
        profileIntervalPeriod,
09146                                         int8u
        numberOfPeriodsDelivered,
09147                                         int8u* intervals
        );
09148 boolean emberAfSimpleMeteringClusterRequestMirrorCallback(void);
09149 boolean emberAfSimpleMeteringClusterRemoveMirrorCallback(void);
09150 boolean emberAfSimpleMeteringClusterRequestFastPollModeResponseCallback(int8u
        appliedUpdatePeriod,
09151                                         int32u
        fastPollModeEndtime);
09152 boolean emberAfSimpleMeteringClusterGetProfileCallback(int8u intervalChannel,
09153                                         int32u endTime,
09154                                         int8u numberOfPeriods);
09155 boolean emberAfSimpleMeteringClusterRequestMirrorResponseCallback(int16u
        endpointId);
09156 boolean emberAfSimpleMeteringClusterMirrorRemovedCallback(int16u endpointId);
09157 boolean emberAfSimpleMeteringClusterRequestFastPollModeCallback(int8u
        fastPollUpdatePeriod,
09158                                         int8u duration)
        ;
09159 void emberAfSimpleMeteringClusterServerInitCallback(int8u endpoint);
09160 void emberAfSimpleMeteringClusterClientInitCallback(int8u endpoint);
09161 void emberAfSimpleMeteringClusterServerTickCallback(int8u endpoint);
09162 void emberAfSimpleMeteringClusterClientTickCallback(int8u endpoint);
09163 void emberAfSimpleMeteringClusterServerAttributeChangedCallback(int8u endpoint,
09164
        EmberAfAttributeId attributeId);
09165 void emberAfSimpleMeteringClusterClientAttributeChangedCallback(int8u endpoint,
09166
        EmberAfAttributeId attributeId);
09167 void emberAfSimpleMeteringClusterServerManufacturerSpecificAttributeChangedCallback(
09168     int8u endpoint,
09169
        EmberAfAttributeId attributeId,
09170
        int16u manufacturerCode);
09171 void emberAfSimpleMeteringClusterClientManufacturerSpecificAttributeChangedCallback(
09172     int8u endpoint,
09173
        EmberAfAttributeId attributeId,
09174
        int16u manufacturerCode);
09175 void emberAfSimpleMeteringClusterServerDefaultResponseCallback(int8u endpoint,
09176                                         int8u commandId,
09177                                         EmberAfStatus
        status);
09178 void emberAfSimpleMeteringClusterClientDefaultResponseCallback(int8u endpoint,
09179                                         int8u commandId,
09180                                         EmberAfStatus
        status);
09181 void emberAfSimpleMeteringClusterServerMessageSentCallback(
09182     EmberOutgoingMessageType type,
09183                                         int16u
        indexOrDestination,
09184

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09314     apsFrame,                                EmberApsFrame *
09315                                         int16u msgLen,
09316                                         int8u * message,
09317                                         EmberStatus status);
09330 void emberAfSimpleMeteringClusterClientMessageSentCallback(
09331     EmberOutgoingMessageType type,
09331                                         int16u
09332     indexOrDestination,
09332                                         EmberApsFrame *
09333     apsFrame,
09334                                         int16u msgLen,
09335                                         int8u * message,
09336                                         EmberStatus status);
09336
09340 // @@
09341
09365 boolean emberAfPriceClusterPublishPriceCallback(int32u providerId,
09366                                         int8u* rateLabel,
09367                                         int32u issuerEventId,
09368                                         int32u currentTime,
09369                                         int8u unitOfMeasure,
09370                                         int16u currency,
09371                                         int8u
09372     priceTrailingDigitAndPriceTier,
09372                                         int8u
09373     numberOfPriceTiersAndRegisterTier,
09373                                         int32u startTime,
09374                                         int16u durationInMinutes,
09375                                         int32u price,
09376                                         int8u priceRatio,
09377                                         int32u generationPrice,
09378                                         int8u generationPriceRatio,
09379                                         int32u alternateCostDelivered,
09380                                         int8u alternateCostUnit,
09381                                         int8u
09381     alternateCostTrailingDigit,
09382                                         int8u numberofBlockThresholds,
09383                                         int8u priceControl);
09394 boolean emberAfPriceClusterPublishBlockPeriodCallback(int32u providerId,
09395                                         int32u issuerEventId,
09396                                         int32u
09396     blockPeriodStartTime,
09397                                         int32u
09397     blockPeriodDurationInMinutes,
09398                                         int8u
09398     numberOfPriceTiersAndNumberofBlockThresholds,
09399                                         int8u blockPeriodControl)
09399 ;
09405 boolean emberAfPriceClusterGetCurrentPriceCallback(int8u commandOptions);
09412 boolean emberAfPriceClusterGetScheduledPricesCallback(int32u startTime,
09413                                         int8u numberofEvents);
09422 boolean emberAfPriceClusterPriceAcknowledgementCallback(int32u providerId,
09423                                         int32u issuerEventId,
09424                                         int32u priceAckTime,
09425                                         int8u control);
09432 boolean emberAfPriceClusterGetBlockPeriodsCallback(int32u startTime,
09433                                         int8u numberofEvents);
09440 void emberAfPriceClusterServerInitCallback(int8u endpoint);
09447 void emberAfPriceClusterClientInitCallback(int8u endpoint);
09454 void emberAfPriceClusterServerTickCallback(int8u endpoint);
09461 void emberAfPriceClusterClientTickCallback(int8u endpoint);
09469 void emberAfPriceClusterServerAttributeChangedCallback(int8u endpoint,
09470                                         EmberAfAttributeId
09470     attributeId);
09478 void emberAfPriceClusterClientAttributeChangedCallback(int8u endpoint,
09479                                         EmberAfAttributeId
09479     attributeId);
09489 void emberAfPriceClusterServerManufacturerSpecificAttributeChangedCallback(
09490     int8u endpoint,
09490     EmberAfAttributeId attributeId,
09491     int16u manufacturerCode);
09501 void emberAfPriceClusterClientManufacturerSpecificAttributeChangedCallback(
09502     int8u endpoint,
09502     EmberAfAttributeId attributeId,
09503     int16u manufacturerCode);

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09512 void emberAfPriceClusterServerDefaultResponseCallback(int8u endpoint,
09513                                         int8u commandId,
09514                                         EmberAfStatus status);
09523 void emberAfPriceClusterClientDefaultResponseCallback(int8u endpoint,
09524                                         int8u commandId,
09525                                         EmberAfStatus status);
09538 void emberAfPriceClusterServerMessageSentCallback(EmberOutgoingMessageType type
09539                                         ,
09540                                         int16u indexOrDestination,
09541                                         EmberApsFrame * apsFrame,
09542                                         int16u msgLen,
09543                                         int8u * message,
09544                                         EmberStatus status);
09556 void emberAfPriceClusterClientMessageSentCallback(EmberOutgoingMessageType type
09557                                         ,
09558                                         int16u indexOrDestination,
09559                                         EmberApsFrame * apsFrame,
09560                                         int16u msgLen,
09561                                         int8u * message,
09562                                         EmberStatus status);
09566 // @{
09567
09577 boolean emberAfMessagingClusterDisplayMessageCallback(int32u messageId,
09578                                         int8u messageControl,
09579                                         int32u startTime,
09580                                         int16u durationInMinutes,
09581                                         int8u* message);
09588 boolean emberAfMessagingClusterCancelMessageCallback(int32u messageId,
09589                                         int8u messageControl);
09594 boolean emberAfMessagingClusterGetLastMessageCallback(void);
09601 boolean emberAfMessagingClusterMessageConfirmationCallback(int32u messageId,
09602                                         int32u
                                         confirmationTime);
09609 void emberAfMessagingClusterServerInitCallback(int8u endpoint);
09616 void emberAfMessagingClusterClientInitCallback(int8u endpoint);
09623 void emberAfMessagingClusterServerTickCallback(int8u endpoint);
09630 void emberAfMessagingClusterClientTickCallback(int8u endpoint);
09638 void emberAfMessagingClusterServerAttributeChangedCallback(int8u endpoint,
09639                                         EmberAfAttributeId
                                         attributeId);
09647 void emberAfMessagingClusterClientAttributeChangedCallback(int8u endpoint,
09648                                         EmberAfAttributeId
                                         attributeId);
09658 void emberAfMessagingClusterServerManufacturerSpecificAttributeChangedCallback(
09659                                         int8u endpoint,
09660                                         EmberAfAttributeId attributeId,
09661                                         int16u manufacturerCode);
09670 void emberAfMessagingClusterClientManufacturerSpecificAttributeChangedCallback(
09671                                         int8u endpoint,
09672                                         EmberAfAttributeId attributeId,
09673                                         int16u manufacturerCode);
09681 void emberAfMessagingClusterServerDefaultResponseCallback(int8u endpoint,
09682                                         int8u commandId,
09683                                         EmberAfStatus status)
09692 void emberAfMessagingClusterClientDefaultResponseCallback(int8u endpoint,
09693                                         int8u commandId,
09694                                         EmberAfStatus status)
09707 void emberAfMessagingClusterServerMessageSentCallback(EmberOutgoingMessageType
                                         type,
09708                                         int16u indexOrDestination
09709                                         ,
09710                                         EmberApsFrame * apsFrame,
09711                                         int16u msgLen,
09712                                         int8u * message,
09725 void emberAfMessagingClusterClientMessageSentCallback(EmberOutgoingMessageType
                                         type,
09726                                         int16u indexOrDestination
09727                                         ,
                                         EmberApsFrame * apsFrame,

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09728             int16u msgLen,
09729             int8u * message,
09730             EmberStatus status);
09731
09735 // @{
09736
09745 boolean emberAfTunnelingClusterRequestTunnelCallback(int8u protocolId,
09746                                         int16u manufacturerCode,
09747                                         int8u flowControlSupport,
09748                                         int16u
09749                                         maximumIncomingTransferSize);
09754 boolean emberAfTunnelingClusterCloseTunnelCallback(int16u tunnelId);
09761 boolean emberAfTunnelingClusterTransferDataClientToServerCallback(int16u
09762                                         tunnelId,
09763                                         int8u* data);
09769 boolean emberAfTunnelingClusterTransferDataErrorClientToServerCallback(int16u
09770                                         tunnelId,
09771                                         int8u
09772                                         transferDataStatus);
09777 boolean emberAfTunnelingClusterAckTransferDataClientToServerCallback(int16u
09778                                         tunnelId,
09779                                         int16u
09780                                         numberOfBytesLeft);
09785 boolean emberAfTunnelingClusterReadyDataClientToServerCallback(int16u tunnelId,
09786                                         int16u
09787                                         numberOfOctetsLeft);
09792 boolean emberAfTunnelingClusterGetSupportedTunnelProtocolsCallback(int8u
09793                                         protocolOffset);
09800 boolean emberAfTunnelingClusterRequestTunnelResponseCallback(int16u tunnelId,
09801                                         int8u tunnelStatus
09802                                         ,
09803                                         int16u
09804                                         maximumIncomingTransferSize);
09809 boolean emberAfTunnelingClusterTransferDataServerToClientCallback(int16u
09810                                         tunnelId,
09811                                         int8u* data);
09817 boolean emberAfTunnelingClusterTransferDataErrorServerToClientCallback(int16u
09818                                         tunnelId,
09819                                         int8u
09820                                         transferDataStatus);
09825 boolean emberAfTunnelingClusterAckTransferDataServerToClientCallback(int16u
09826                                         tunnelId,
09827                                         int16u
09828                                         numberOfBytesLeft);
09833 boolean emberAfTunnelingClusterReadyDataServerToClientCallback(int16u tunnelId,
09834                                         int16u
09835                                         numberOfOctetsLeft);
09842 boolean emberAfTunnelingClusterSupportedTunnelProtocolsResponseCallback(int8u
09843                                         protocolListComplete,
09844                                         int8u
09845                                         protocolCount,
09846                                         int8u*
09847                                         protocolList);
09850 boolean emberAfTunnelingClusterTunnelClosureNotificationCallback(int16u
09851                                         tunnelId);
09857 void emberAfTunnelingClusterServerInitCallback(int8u endpoint);
09864 void emberAfTunnelingClusterClientInitCallback(int8u endpoint);
09871 void emberAfTunnelingClusterServerTickCallback(int8u endpoint);
09878 void emberAfTunnelingClusterClientTickCallback(int8u endpoint);
09886 void emberAfTunnelingClusterServerAttributeChangedCallback(int8u endpoint,
09887                                         EmberAfAttributeId
09888                                         attributeId);
09895 void emberAfTunnelingClusterClientAttributeChangedCallback(int8u endpoint,
09896                                         EmberAfAttributeId
09897                                         attributeId);
09906 void emberAfTunnelingClusterServerManufacturerSpecificAttributeChangedCallback(
09907                                         int8u endpoint,
09908                                         EmberAfAttributeId attributeId,
09909                                         int16u manufacturerCode);
09918 void emberAfTunnelingClusterClientManufacturerSpecificAttributeChangedCallback(
09919                                         int8u endpoint,
09920                                         EmberAfAttributeId attributeId,
09921                                         int16u manufacturerCode);
09929 void emberAfTunnelingClusterServerDefaultResponseCallback(int8u endpoint,

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09930                               int8u commandId,
09931                               EmberAfStatus status)
09932 ;
09940 void emberAfTunnelingClusterClientDefaultResponseCallback(int8u endpoint,
09941                               int8u commandId,
09942                               EmberAfStatus status)
09943 ;
09955 void emberAfTunnelingClusterServerMessageSentCallback(EmberOutgoingMessageType
09956 type,
09957                               int16u indexOrDestination
09958 ,
09959                               EmberApsFrame * apsFrame,
09960                               int16u msgLen,
09961                               int8u * message,
09962                               EmberStatus status);
09973 void emberAfTunnelingClusterClientMessageSentCallback(EmberOutgoingMessageType
09974 type,
09975                               int16u indexOrDestination
09976 ,
09977                               EmberApsFrame * apsFrame,
09978                               int16u msgLen,
09979                               int8u * message,
09980                               EmberStatus status);
09983 // @@
09984
09993 boolean emberAfPrepaymentClusterSelectAvailableEmergencyCreditCallback(int32u
09994 commandDateTime,
09994                               int8u
09995 originatingDevice,
09995                               int8u*
09996 siteId,
09996                               int8u*
09997 meterSerialNumber);
10008 boolean emberAfPrepaymentClusterChangeSupplyCallback(int32u providerId,
10009                               int32u requestDateTime,
10010                               int8u* siteId,
10011                               int8u* meterSerialNumber,
10012                               int32u
10012 implementationDateTime,
10013                               int8u proposedSupplyStatus
10014 ,
10014                               int8u
10014 originatorIdSupplyControlBits);
10022 boolean emberAfPrepaymentClusterSupplyStatusResponseCallback(int32u providerId,
10023                               int32u
10024 implementationDateTime,
10024                               int8u supplyStatus
10024 );
10031 void emberAfPrepaymentClusterServerInitCallback(int8u endpoint);
10038 void emberAfPrepaymentClusterClientInitCallback(int8u endpoint);
10045 void emberAfPrepaymentClusterServerTickCallback(int8u endpoint);
10052 void emberAfPrepaymentClusterClientTickCallback(int8u endpoint);
10060 void emberAfPrepaymentClusterServerAttributeChangedCallback(int8u endpoint,
10061                               EmberAfAttributeId
10061 attributeId);
10069 void emberAfPrepaymentClusterClientAttributeChangedCallback(int8u endpoint,
10070                               EmberAfAttributeId
10070 attributeId);
10080 void emberAfPrepaymentClusterServerManufacturerSpecificAttributeChangedCallback
10080 (int8u endpoint,
10081                               EmberAfAttributeId attributeId,
10082                               int16u manufacturerCode);
10092 void emberAfPrepaymentClusterClientManufacturerSpecificAttributeChangedCallback
10092 (int8u endpoint,
10093                               EmberAfAttributeId attributeId,
10094                               int16u manufacturerCode);
10103 void emberAfPrepaymentClusterServerDefaultResponseCallback(int8u endpoint,
10104                               int8u commandId,
10105                               EmberAfStatus status
10105 );
10114 void emberAfPrepaymentClusterClientDefaultResponseCallback(int8u endpoint,
10115                               int8u commandId,

```

```

10116                                     EmberAfStatus status
10117     );
10129 void emberAfPrepaymentClusterServerMessageSentCallback(EmberOutgoingMessageType
10130             type,
10131             indexOrDestination,
10132             int16u
10133             indexOrDestination,
10134             EmberApsFrame * apsFrame
10135         ,
10136             int16u msgLen,
10137             int8u * message,
10138             EmberStatus status);
10147 void emberAfPrepaymentClusterClientMessageSentCallback(EmberOutgoingMessageType
10148             type,
10149             indexOrDestination,
10150             int16u
10151             indexOrDestination,
10152             EmberApsFrame * apsFrame
10153         ,
10154             int16u msgLen,
10155             int8u * message,
10156             EmberStatus status);

10157 // @@
10158
10159 boolean emberAfKeyEstablishmentClusterClientCommandReceivedCallback(
10160     EmberAfClusterCommand * cmd);
10169 boolean emberAfKeyEstablishmentClusterServerCommandReceivedCallback(
10170     EmberAfClusterCommand * cmd);
10189 boolean emberAfKeyEstablishmentClusterInitiateKeyEstablishmentRequestCallback(
10190     int16u keyEstablishmentSuite,
10191     int8u ephemeralDataGenerateTime,
10192     int8u confirmKeyGenerateTime,
10193     int8u* identity);
10198 boolean emberAfKeyEstablishmentClusterEphemeralDataRequestCallback(int8u*
10199     ephemeralData);
10204 boolean emberAfKeyEstablishmentClusterConfirmKeyDataRequestCallback(int8u*
10205     secureMessageAuthenticationCode);
10212 boolean emberAfKeyEstablishmentClusterTerminateKeyEstablishmentCallback(int8u
10213     statusCode,
10214     int8u
10215     waitTime,
10216     int16u
10217     keyEstablishmentSuite);
10223 boolean emberAfKeyEstablishmentClusterInitiateKeyEstablishmentResponseCallback(
10224     int16u requestedKeyEstablishmentSuite,
10225     int8u ephemeralDataGenerateTime,
10226     int8u confirmKeyGenerateTime,
10227     int8u* identity);
10232 boolean emberAfKeyEstablishmentClusterEphemeralDataResponseCallback(int8u*
10233     ephemeralData);
10238 boolean emberAfKeyEstablishmentClusterConfirmKeyDataResponseCallback(int8u*
10239     secureMessageAuthenticationCode);
10245 void emberAfKeyEstablishmentClusterServerInitCallback(int8u endpoint);
10252 void emberAfKeyEstablishmentClusterClientInitCallback(int8u endpoint);
10259 void emberAfKeyEstablishmentClusterServerTickCallback(int8u endpoint);
10266 void emberAfKeyEstablishmentClusterClientTickCallback(int8u endpoint);
10274 void emberAfKeyEstablishmentClusterServerAttributeChangedCallback(int8u
10275     endpoint,
10276     EmberAfAttributeId attributeId);
10283 void emberAfKeyEstablishmentClusterClientAttributeChangedCallback(int8u
10284     endpoint,
10285     EmberAfAttributeId attributeId);
10294 void emberAfKeyEstablishmentClusterServerManufacturerSpecificAttributeChangedCallback
10295     (int8u endpoint,
10296     EmberAfAttributeId attributeId,
10297     int16u manufacturerCode);
10306 void emberAfKeyEstablishmentClusterClientManufacturerSpecificAttributeChangedCallback
10307     (int8u endpoint,

```

```

        EmberAfAttributeId attributeId,
10308     int16u manufacturerCode);
10317 void emberAfKeyEstablishmentClusterServerDefaultResponseCallback(int8u endpoint
,
10318                                         int8u
10319                                         commandId,
10320                                         EmberAfStatus
10321                                         status);
10328 void emberAfKeyEstablishmentClusterClientDefaultResponseCallback(int8u endpoint
,
10329                                         int8u
10330                                         commandId,
10331                                         EmberAfStatus
10332                                         status);
10343 void emberAfKeyEstablishmentClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
10344                                         int16u
    indexOrDestination,
10345                                         EmberApsFrame *
    apsFrame,
10346                                         int16u msgLen,
10347                                         int8u * message,
10348                                         EmberStatus status
);
10361 void emberAfKeyEstablishmentClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
10362                                         int16u
    indexOrDestination,
10363                                         EmberApsFrame *
    apsFrame,
10364                                         int16u msgLen,
10365                                         int8u * message,
10366                                         EmberStatus status
);
10367 // @{
10372
10380 boolean emberAfZllCommissioningClusterScanRequestCallback(int32u transaction,
10381                                         int8u
    zigbeeInformation,
10382                                         int8u zllInformation)
;
10389 boolean emberAfZllCommissioningClusterDeviceInformationRequestCallback(int32u
    transaction,
10390                                         int8u
    startIndex);
10397 boolean emberAfZllCommissioningClusterIdentifyRequestCallback(int32u
    transaction,
10398                                         int16u
    identifyDuration);
10404 boolean emberAfZllCommissioningClusterResetToFactoryNewRequestCallback(int32u
    transaction);
10424 boolean emberAfZllCommissioningClusterNetworkStartRequestCallback(int32u
    transaction,
10425                                         int8u*
    extendedPanId,
10426                                         int8u
    keyIndex,
10427                                         int8u*
    encryptedNetworkKey,
10428                                         int8u
    logicalChannel,
10429                                         int16u panId,
10430                                         int16u
    networkAddress,
10431                                         int16u
    groupIdentifiersBegin,
10432                                         int16u
    groupIdentifiersEnd,
10433                                         int16u
    freeNetworkAddressRangeBegin,
10434                                         int16u
    freeNetworkAddressRangeEnd,
10435                                         int16u
    freeGroupIdentifierRangeBegin,
10436                                         int16u
    freeGroupIdentifierRangeEnd,
10437                                         int8u*

```

```

    initiatorIeeeAddress,
10438                               int16u
    initiatorNetworkAddress);
10457 boolean emberAfZllCommissioningClusterNetworkJoinRouterRequestCallback(int32u
transaction,
10458                               int8u*
extendedPanId,
10459                               int8u
keyIndex,
10460                               int8u*
encryptedNetworkKey,
10461                               int8u
networkUpdateId,
10462                               int8u
logicalChannel,
10463                               int16u
panId,
10464                               int16u
networkAddress,
10465                               int16u
groupIdentifiersBegin,
10466                               int16u
groupIdentifiersEnd,
10467                               int16u
freeNetworkAddressRangeBegin,
10468                               int16u
freeNetworkAddressRangeEnd,
10469                               int16u
freeGroupIdentifierRangeBegin,
10470                               int16u
freeGroupIdentifierRangeEnd);
10489 boolean emberAfZllCommissioningClusterNetworkJoinEndDeviceRequestCallback(
int32u transaction,
10490                               int8u
* extendedPanId,
10491                               int8u
keyIndex,
10492                               int8u
* encryptedNetworkKey,
10493                               int8u
networkUpdateId,
10494                               int8u
logicalChannel,
10495                               int16u panId,
10496                               int16u networkAddress,
10497                               int16u groupIdentifiersBegin,
10498                               int16u groupIdentifiersEnd,
10499                               int16u freeNetworkAddressRangeBegin,
10500                               int16u freeNetworkAddressRangeEnd,
10501                               int16u freeGroupIdentifierRangeBegin,
10502                               int16u freeGroupIdentifierRangeEnd);
10513 boolean emberAfZllCommissioningClusterNetworkUpdateRequestCallback(int32u
transaction,
10514                               int8u*
extendedPanId,
10515                               int8u
networkUpdateId,
10516                               int8u
logicalChannel,
10517                               int16u panId
',
10518                               int16u
networkAddress);
10524 boolean emberAfZllCommissioningClusterGetGroupIdentifiersRequestCallback(int8u
startIndex);
10530 boolean emberAfZllCommissioningClusterGetEndpointListRequestCallback(int8u
startIndex);
10553 boolean emberAfZllCommissioningClusterScanResponseCallback(int32u transaction,
10554                               int8u rssiCorrection
',
10555                               int8u
zigbeeInformation,

```

```

10556                               int8u zllInformation
10557
10558
10559
10560                               int8u
10561                               int8u logicalChannel
10562
10563                               int16u panId,
10564                               int16u
10565                               int8u
10566                               int8u totalGroupIds,
10567
10568
10569
10570                               int8u groupIdCount);
10580 boolean emberAfZllCommissioningClusterDeviceInformationResponseCallback(int32u
10581     transaction,
10582                               int8u
10583                               int8u
10584                               int8u*
10585     deviceInformationRecordList);
10595 boolean emberAfZllCommissioningClusterNetworkStartResponseCallback(int32u
10596     transaction,
10597                               int8u status
10598
10599                               int8u*
10600                               int8u
10601                               int16u panId
10602 );
10607 boolean emberAfZllCommissioningClusterNetworkJoinRouterResponseCallback(int32u
10608     transaction,
10609                               int8u
10610     status);
10615 boolean emberAfZllCommissioningClusterNetworkJoinEndDeviceResponseCallback(
10616     int32u transaction,
10617     int8u status);
10627 boolean emberAfZllCommissioningClusterEndpointInformationCallback(int8u*
10628     ieeeAddress,
10629                               int16u
10630     networkAddress,
10631                               int8u
10632     endpointId,
10633                               int16u
10634     profileId,
10635     deviceId,
10636                               int16u
10637     deviceInformationRecordCount,
10638                               int8u version
10639 );
10641 boolean emberAfZllCommissioningClusterGetGroupIdentifiersResponseCallback(int8u
10642     total,
10643                               int8u
10644     startIndex,
10645                               int8u
10646     count,
10647     * groupInformationRecordList);
10653 boolean emberAfZllCommissioningClusterGetEndpointListResponseCallback(int8u
10654     total,
10655                               int8u
10656     startIndex,
10657     count,
10658     * endpointInformationRecordList);

```

```

10663 void emberAfZllCommissioningClusterServerInitCallback(int8u endpoint);
10670 void emberAfZllCommissioningClusterClientInitCallback(int8u endpoint);
10677 void emberAfZllCommissioningClusterServerTickCallback(int8u endpoint);
10684 void emberAfZllCommissioningClusterClientTickCallback(int8u endpoint);
10692 void emberAfZllCommissioningClusterServerAttributeChangedCallback(int8u
    endpoint,
10693     EmberAfAttributeId attributeId);
10701 void emberAfZllCommissioningClusterClientAttributeChangedCallback(int8u
    endpoint,
10702     EmberAfAttributeId attributeId);
10712 void emberAfZllCommissioningClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
10713     EmberAfAttributeId attributeId,
10714     int16u manufacturerCode);
10724 void emberAfZllCommissioningClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
10725     EmberAfAttributeId attributeId,
10726     int16u manufacturerCode);
10735 void emberAfZllCommissioningClusterServerDefaultResponseCallback(int8u endpoint
    ,
10736     int8u
    commandId,
10737     EmberAfStatus
    status);
10746 void emberAfZllCommissioningClusterClientDefaultResponseCallback(int8u endpoint
    ,
10747     int8u
    commandId,
10748     EmberAfStatus
    status);
10761 void emberAfZllCommissioningClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
10762     int16u
    indexOrDestination,
10763     EmberApsFrame *
    apsFrame,
10764     int16u msgLen,
10765     int8u * message,
10766     EmberStatus status
    );
10779 void emberAfZllCommissioningClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
10780     int16u
    indexOrDestination,
10781     EmberApsFrame *
    apsFrame,
10782     int16u msgLen,
10783     int8u * message,
10784     EmberStatus status
    );
10785
10789 // @@
10790
10796 boolean emberAfSampleMfgSpecificClusterCommandOneCallback(int8u argOne);
10803 void emberAfSampleMfgSpecificClusterServerInitCallback(int8u endpoint);
10810 void emberAfSampleMfgSpecificClusterClientInitCallback(int8u endpoint);
10817 void emberAfSampleMfgSpecificClusterServerTickCallback(int8u endpoint);
10824 void emberAfSampleMfgSpecificClusterClientTickCallback(int8u endpoint);
10832 void emberAfSampleMfgSpecificClusterServerAttributeChangedCallback(int8u
    endpoint,
10833     EmberAfAttributeId attributeId);
10841 void emberAfSampleMfgSpecificClusterClientAttributeChangedCallback(int8u
    endpoint,
10842     EmberAfAttributeId attributeId);
10853 void emberAfSampleMfgSpecificClusterServerManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
10854     EmberAfAttributeId attributeId,
10855

```

```

        int16u manufacturerCode);
10866 void emberAfSampleMfgSpecificClusterClientManufacturerSpecificAttributeChangedCallback
    (int8u endpoint,
10867     EmberAfAttributeId attributeId,
10868     int16u manufacturerCode);
10877 void emberAfSampleMfgSpecificClusterServerDefaultResponseCallback(int8u
    endpoint,
10878                                         int8u
    commandId,
10879                                         EmberAfStatus
    status);
10888 void emberAfSampleMfgSpecificClusterClientDefaultResponseCallback(int8u
    endpoint,
10889                                         int8u
    commandId,
10890                                         EmberAfStatus
    status);
10903 void emberAfSampleMfgSpecificClusterServerMessageSentCallback(
    EmberOutgoingMessageType type,
10904                                         int16u
    indexOrDestination,
10905                                         EmberApsFrame *
    apsFrame,
10906                                         int16u msgLen,
10907                                         int8u * message,
10908                                         EmberStatus
    status);
10921 void emberAfSampleMfgSpecificClusterClientMessageSentCallback(
    EmberOutgoingMessageType type,
10922                                         int16u
    indexOrDestination,
10923                                         EmberApsFrame *
    apsFrame,
10924                                         int16u msgLen,
10925                                         int8u * message,
10926                                         EmberStatus
    status);
10927 #endif // __EMBER_AF_CALLBACK_PROTOTYPES__
10932

```

9.27 cli.h File Reference

Defines

- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_RANDOM
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_BASIC_RTFD
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVECOLOR
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVEHUE
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVESAT
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLOR
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLORTEMP
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOAHUE
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOAHUEANDSAT
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOSTAT
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_SETPHUE
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPCOLOR
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPSAT
- #define EMBER_AF_DDOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CA

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_GSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_LOCK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_UNLOCK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_ADVERTISE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_MATCH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_RESPONSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD_IF_ID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_REMOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_RMALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_VIEW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_A
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_B
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_E
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_F
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZI
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_P
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ENROLL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_SC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_QUERY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_TRIGGER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MV_TO_LEVEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MV_TO_LEVEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STEP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STEP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_CONFIRM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFFEFFECT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ONRECALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ONTIMEDOFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_TOGGLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_CURRENT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_SCHEDULED
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_COPY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_EADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RECALL

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_REMOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RMALL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_STORE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_VIEW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_DM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_FP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_GP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_THERMOSTAT_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_CLOSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_REQUEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_TRANSFER_TO_SERVER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_READ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_WRITE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_BSEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_GROUP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_LONG
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_SHORT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_RAW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND_MULTICAST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_TIMESYNC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ATT_READ_FRAG_RESP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_CUSTOM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ECHO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON0
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON1
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_RESET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_TIME_SYNC_LOCAL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_MFG_CODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_TIME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DIRECTION
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DISCOVER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_EXPECT_REPORT_FROM_ME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_NWRITE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_READ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_REPORT_READ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_SEND_MEASURE_REPORT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_UWRITE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_WRITE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_COUNTERS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_OFF

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_HELP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_INFO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_LIBS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_ADDRESS_TABLE_PRIORITY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_BINDING_TABLE_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MSGS_DISABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MSGS_ENABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_ATTR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_C
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_D
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_GROUPS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_IDENTIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_MESSAGING
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_PRICE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_SCENES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TIME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TUNNEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_VERSION
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_BROAD_PJOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_CHANGE_CHANNEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_EXTPANID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_JOINABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_UNUSED
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FORM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_JOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_LEAVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_PJOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_REJOIN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_ADDRESS_TABLE_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_AGG
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_DEFAULT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRYOFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRYON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_DISC

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_OPTION_EDB
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_REMOVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_CLOSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_REQUEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_TRANSFER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_BUSY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_TRANSFER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ABORT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_CHANNEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ENDPOINTS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_FORM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_GROUPS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_INFO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_JOINABLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_DEVICE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_IDENTIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_RESET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_MASK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_RESET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_STATUS

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUG-IN_ZLL_COMMISSIONING_TOKENS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUG-IN_ZLL_COMMISSIONING_UNUSED
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_ALLOW_PARTNER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_INTERPAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_PARTNER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_START
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_LINK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_NETWORK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEY_UPDATE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_DELETE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_INSTALL_CODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_LINK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_REGISTER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITYAPS-OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITYAPS-ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSAPSSECFOR-CLUSTON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSOTAIMAGE-MANGLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSAPSSECFOR-CLUSTOFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKECERTMANGLECORRUPT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKECERTMANGLEISSUER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKECERTMANGLELENGTH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKECERTMANGLESUBJECT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEDEFAULT-RESP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEDELAY-CBKE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKENEWKEY-POLICY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKENORESOURCES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKENORMAL-MODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKE TIMEOUT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEYUPDATE-BROADCAST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEYUPDATE-NOW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESSKEYUPDATE-UNICAST

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_OUT_OF_SEQUENCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_PRICE_SEND_NEW_FIELDS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_SEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_START
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_ATTR_READ_FRAG_RESPONSE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_ACTIVE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_BIND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IEEE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_MATCH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NODE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_CHAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SCAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_ADD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_SIMPLE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_OPTION_BACNET_BACNET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_IAM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_WHOIS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_LCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_IN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_OUT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SLCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SSLCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ZCL_IAS_ZCLIENT_PT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ZCL_IDENTIFY_OFF

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ZCL_IDENTITY_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_APPEND
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CANCEL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM_NOT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM_REQ
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CRITICAL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_DISPLAY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_HIGH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_ID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_INVALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_LOW
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_MEDIUM
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_MESSAGE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_RELATIVE_TIME
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TIMING
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_NORMAL
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_BOTH
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_IPAN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_VALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BLOCK_TEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BOOTLOAD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_DELETE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_INFO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PAGE_REQUEST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PRINT_IMAGES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_START

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STATUS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STOP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_VERIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_DELETE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_NOTIFY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICY_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_MISS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_SUP
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYQUERY
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYUPGRADE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_PRINT_IMAGES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_RELOAD
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_UPGRADE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ACKNOWLEDGE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ALTERNATE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_CLEAR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_GET
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_INVALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRICE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_VALID
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHAT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHEN
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHO
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SPRICE_PUBLIC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_ON
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_ADJUST
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_ELECTRIC
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_GAS
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_OFF
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_PRINT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_PROFILES
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_RATE

- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_RND_E-RROR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_SET_ER-ROR
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_VARIA-NCE
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RAND-OM_TO_CLIENT
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RAND-OM_TO_SERVER
- #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_TRAN-SFER_TO_CLIENT

9.28 cli.h

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00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_CLI__
00009 #define __EMBER_AF_CLI__
00010
00011
00034 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_RANDOM
00035 // end group bacnet-protocol-tunnel
00037
00051 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BASIC_RTFD
00052 // end group basic
00054
00069 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVECOLOR
00070
00078 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVEHUE
00079
00087 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVESAT
00088
00095 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLOR
00096
00102 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOCOLORTEMP
00103
00112 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOAHUE
00113
00120 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOAHUEANDSAT
00121
00127 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_MOVETOSTAT
00128
00137 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_SETPHUE
00138
00145 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPCOLOR
00146
00155 #define EMBER_AF_DOXYGEN_CLI_COMMAND_COLOR_CONTROL_STEPSAT
00156 // end group color-control
00158
00174 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CA
00175
00184 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_CL
00185
00191 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_GSE
00192 // end group demand-response-and-load-control
00194
00207 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_LOCK
00208
00212 #define EMBER_AF_DOXYGEN_CLI_COMMAND_DOOR_LOCK_UNLOCK
00213 // end group door-lock
00215
00229 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_ADVERTISE
00230
00235 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_MATCH

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00236
00242 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERIC_TUNNEL_RESPONSE
00243 // end group generic-tunnel
00245
00260 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD
00261
00267 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_ADD_IF_ID
00268
00274 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_GET
00275
00280 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_REMOVE
00281
00285 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_RMALL
00286
00291 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GROUPS_VIEW
00292 // end group groups
00294
00310 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_A
00311
00317 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_B
00318
00322 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_E
00323
00327 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_F
00328
00333 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZI
00334
00338 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_GETZM
00339
00343 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ACE_P
00344 // end group ias-ace
00346
00363 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ENROLL
00364
00370 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_SC
00371 // end group ias-zone
00373
00387 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ID
00388
00392 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_QUERY
00393
00402 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_TRIGGER
00403 // end group identify
00405
00423 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MOVE
00424
00430 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_MV_TO_LEVEL
00431
00439 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MOVE
00440
00446 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_MV_TO_LEVEL
00447
00456 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STEP
00457
00461 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_O_STOP
00462
00471 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STEP
00472
00476 #define EMBER_AF_DOXYGEN_CLI_COMMAND_LEVEL_CONTROL_STOP
00477 // end group level-control
00479
00494 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_CONFIRM
00495
00499 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_GET
00500 // end group messaging
00502
00515 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFF
00516
00524 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_OFFFFECT
00525
00529 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ON
00530
00534 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_ONRECALL
00535
00542 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFFONTIMEDOFF
00543
00547 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ON_OFF_TOGGLE
00548 // end group on-off
00550
00565 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_CURRENT

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00566
00572 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_SCHEDULED
00573 // end group price
00575
00593 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ADD
00594
00603 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_COPY
00604
00613 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_EADD
00614
00619 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_GET
00620
00626 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RECALL
00627
00633 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_REMOVE
00634
00639 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_RMALL
00640
00646 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_STORE
00647
00653 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_VIEW
00654 // end group scenes
00656
00670 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_DM
00671
00677 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_FP
00678
00687 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_GP
00688 // end group simple-metering
00690
00707 #define EMBER_AF_DOXYGEN_CLI_COMMAND_THERMOSTAT_SET
00708 // end group thermostat
00710
00724 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_CLOSE
00725
00733 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_REQUEST
00734
00740 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_TRANSFER_TO_SERVER
00741 // end group tunneling
00743
00758 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_READ
00759
00769 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ATTRIBUTE_WRITE
00770 // end group attribute
00772
00784 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_BSEND
00785
00792 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_GROUP
00793
00800 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_LONG
00801
00838 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_INTERPAN_SHORT
00839
00845 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_RAW
00846
00853 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND
00854
00861 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_SEND_MULTICAST
00862
00869 #define EMBER_AF_DOXYGEN_CLI_COMMAND_BUILD_SEND_MSG_TIMESYNC
00870 // end group build-send-msg
00872
01027 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ATT_READ_FRAG_RESP
01028
01032 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_CUSTOM
01033
01038 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ECHO
01039
01043 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON0
01044
01048 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_OPTION_BUTTON1
01049
01053 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_RESET
01054
01058 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_TIME_SYNC_LOCAL
01059
01064 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_MFG_CODE
01065
01070 #define EMBER_AF_DOXYGEN_CLI_COMMAND_GENERAL_ZCL_TIME
01071 // end group general

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01073
01087 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DIRECTION
01088
01095 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_DISCOVER
01096
01103 #define
01104     EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_EXPECT_REPORT_FROM_ME
01105
01111 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_NWRITE
01112
01118 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_READ
01119
01126 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_REPORT_READ
01127
01137 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_SEND_ME_A_REPORT
01138
01145 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_UWRITE
01146
01153 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZCL_GLOBAL_ZCL_GLOBAL_WRITE
01154 // end group zcl-global
01156
01169 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_COUNTERS
01170
01174 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_OFF
01175
01179 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ALL_ON
01180
01185 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_OFF
01186
01191 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_ON
01192
01196 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_DEBUGPRINT_STATUS
01197
01201 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_HELP
01202
01206 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_INFO
01207
01211 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_LIBS
01212
01216 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_ADDRESS_TABLE_PRINT
01217
01221 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_BINDING_TABLE_PRINT
01222
01226 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MSGS_DISABLE
01227
01231 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_OPTION_PRINT_RX_MSGS_ENABLE
01232
01236 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_ATTR
01237
01241 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_C
01242
01246 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_D
01247
01251 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_GROUPS
01252
01256 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_IDENTIFY
01257
01261 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_MESSAGING
01262
01266 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_PRICE
01267
01271 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_SCENES
01272
01276 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TIME
01277
01281 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_PRINT_TUNNEL
01282
01286 #define EMBER_AF_DOXYGEN_CLI_COMMAND_INFO_VERSION
01287 // end group info
01289
01302 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_BROAD_PJOIN
01303
01308 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_CHANGE_CHANNEL
01309
01314 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_EXTPANID
01315
01319 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_JOINABLE
01320
01324 #define EMBER_AF_DOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FIND_UNUSED
01325

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01332 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_NETWORK_FORM
01333
01340 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_NETWORK_JOIN
01341
01345 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_NETWORK_LEAVE
01346
01351 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_NETWORK_PJOIN
01352
01358 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_NETWORK_REJOIN
01359
01366 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTION_ADDRESS_TABLE_SET
01367
01371 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTION_AGG
01372
01376 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_DEFAULT
01377
01381 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_OFF
01382
01386 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTIONAPSRETRY_ON
01387
01391 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_CLEAR
01392
01401 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTION_BINDING_TABLE_SET
01402
01408 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTION_DISC
01409
01413 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_NETWORK_OPTION_EDB
01414 // end group network
01416
01437 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_ADD
01438
01442 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_CLEAR
01443
01447 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_PRINT
01448
01453 #define EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_REPORTING_PLUGIN_REPORTING_REMOVE
01454 // end group plugin-reporting
01456
01470 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_CLOSE
01471
01475 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_PRINT
01476
01486 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_REQUEST
01487
01493 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_CLIENT_PLUGIN_TUNNELING_CLIENT_TRANSFER
01494 // end group plugin-tunneling-client
01496
01509 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_BUSY
01510
01514 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_PRINT
01515
01521 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_TUNNELING_SERVER_PLUGIN_TUNNELING_SERVER_TRANSFER
01522 // end group plugin-tunneling-server
01524
01537 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ABORT
01538
01543 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_CHANNEL
01544
01552 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_ENDPOINTS
01553
01560 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_FORM
01561
01569 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_GROUPS
01570
01577 #define
    EMBER_AF_DDOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_INFO
01578
01582 #define

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EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_JOINABLE
01583
01587 #define
01588     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK
01589
01592 #define
01593     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_DEVICE
01594
01597 #define
01598     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_IDENTITY
01599
01602 #define
01603     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_LINK_RESET
01604
01608 #define
01609     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_MASK
01610
01613 #define
01614     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_RESET
01615
01618 #define
01619     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_STATUS
01620
01623 #define
01624     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_TOKENS
01625
01628 #define
01629     EMBER_AF_DOXYGEN_CLI_COMMAND_PLUGIN_ZLL_COMMISSIONING_PLUGIN_ZLL_COMMISSIONING_UNUSED
// end group plugin-zll-commissioning
01631
01644 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_ALLOW_PARTNER
01645
01651 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_INTERPAN
01652
01658 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_PARTNER
01659
01664 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CBKE_START
01665
01670 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_LINK
01671
01676 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_CHANGEKEY_NETWORK
01677
01681 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEY_UPDATE
01682
01686 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_CLEAR
01687
01692 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_DELETE
01693
01697 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_KEYS_PRINT
01698
01705 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_INSTALL_CODE
01706
01713 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_LINK
01714
01718 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_REGISTER
01719
01723 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITY_APSS_OFF
01724
01728 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SECURITY_OPTION_SECURITY_APSS_ON
01729 // end group security
01731
01743 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_APSS_SEC_FOR_CLUST_ON
01744
01748 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_EST_HARNESS_OTA_IMAGE_MANGLE
01749
01753 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_APSS_SEC_FOR_CLUST_OFF
01754
01759 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CERT_MANGLE_CORRUPT
01760
01765 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CERT_MANGLE_ISSUER
01766
01771 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CERT_MANGLE_LENGTH
01772
01777 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_CERT_MANGLE_SUBJECT
01778
01782 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_DEFAULT_RESP
01783
01789 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_DELAY_CBKE
01790
01795 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_NEW_KEY_POLICY

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01796
01800 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_NO_RESOURCES
01801
01805 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_NORMAL_MODE
01806
01810 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KE_TIMEOUT
01811
01815 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KEY_UPDATE_BROADCAST
01816
01820 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KEY_UPDATE_NOW
01821
01825 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_KEY_UPDATE_UNICAST
01826
01831 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_OUT_OF_SEQUENCE
01832
01837 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_PRICE_SEND_NEW_FIELDS
01838
01842 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_OFF
01843
01847 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_REGISTRATION_ON
01848
01852 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_STATUS
01853
01857 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_SEND
01858
01862 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_START
01863
01867 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_TEST_HARNESS_TC_KEEPALIVE_STOP
01868
01872 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_ATTR_READ_FRAG_RESPONSE
01873
01877 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_OFF
01878
01882 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TEST_ZCL_TEST_RESPONSE_ON
01883 // end group test
01885
01898 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_ACTIVE
01899
01924 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_BIND
01925
01930 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IEEE
01931
01936 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_ADD
01937
01941 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_IN_CL_LIST_CLEAR
01942
01948 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_MATCH
01949
01954 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NODE
01955
01960 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK
01961
01966 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_CHAN
01967
01974 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SCAN
01975
01981 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_NWK_UPD_SET
01982
01986 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_ADD
01987
01991 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_OUT_CL_LIST_CLEAR
01992
01998 #define EMBER_AF_DOXYGEN_CLI_COMMAND_ZDO_ZDO_SIMPLE
01999 // end group zdo
02001
02015 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_OPTION_BACNET_BACNET
02016
02022 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_IAM
02023
02027 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_BACNET_PROTOCOL_TUNNEL_ZCL_BACNET_TRANSFER_NPDU_WHOIS
02028 // end group bacnet-protocol-tunnel
02030
02052 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_LCE
02053
02058 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_IN

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02059
02064 #define
02065     EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_OPT_OUT
02065
02078 #define
02079     EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SLCE
02079
02084 #define
02085     EMBER_AF_DOXYGEN_CLI_COMMAND_DEMAND_RESPONSE_AND_LOAD_CONTROL_ZCL_DRLC_SSLCE
02085 // end group demand-response-and-load-control
02087
02100 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IAS_ZONE_ZCL_IAS_ZCLIENT_PT
02101 // end group ias-zone
02103
02117 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ZCL_IDENTIFY_OFF
02118
02124 #define EMBER_AF_DOXYGEN_CLI_COMMAND_IDENTIFY_ZCL_IDENTIFY_ON
02125 // end group identify
02127
02141 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_APPEND
02142
02146 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CANCEL
02147
02151 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM
02152
02156 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM_NOT
02157
02161 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CONFIRM_REQ
02162
02166 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_CRITICAL
02167
02171 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_DISPLAY
02172
02176 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_HIGH
02177
02182 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_ID
02183
02187 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_INVALID
02188
02192 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_LOW
02193
02197 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_MEDIUM
02198
02203 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_MESSAGE
02204
02210 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_RELATIVE_TIME
02211
02217 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TIME
02218
02222 #define
02223     EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_NORMAL
02223
02227 #define
02228     EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_BOTH
02228
02232 #define
02233     EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_TRANSMISSION_IPAN
02233
02237 #define EMBER_AF_DOXYGEN_CLI_COMMAND_MESSAGING_ZCL_SET_MESSAGE_VALID
02238 // end group messaging
02240
02253 #define
02254     EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BLOCK_TEST
02254
02259 #define
02260     EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_BOOTLOAD
02260
02265 #define
02266     EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_DELETE
02266
02270 #define
02271     EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_INFO
02271
02276 #define
02277     EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PAGE_REQUEST
02277
02281 #define
02282     EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_PRINT_IMAGES
02282
02286 #define

```

```

EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_START
02287
02291 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STATUS
02292
02296 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_STOP
02297
02302 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_CLIENT_VERIFY
02303
02307 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_DELETE
02308
02312 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_NOTIFY
02319
02323 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICY_PRINT
02324
02328 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_MISS
02329
02333 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYPAGE_REQ_SUP
02334
02339 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYQUERY
02340
02345 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_POLICYUPGRADE
02346
02350 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_PRINT_IMAGES
02351
02355 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_RELOAD
02356
02362 #define
    EMBER_AF_DOXYGEN_CLI_COMMAND_OVER_THE_AIR_BOOTLOADING_CLUSTER_ZCL_OTA_SERVER_UPGRADE
02363 // end group over-the-air-bootloading-cluster
02365
02380 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ACKNOWLEDGE
02381
02388 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_ALTERNATE
02389
02393 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_CLEAR
02394
02399 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_GET
02400
02405 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_INVALID
02406
02414 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRICE
02415
02419 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_PRINT
02420
02425 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_VALID
02426
02434 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHAT
02435
02441 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHEN
02442
02449 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SET_PRICE_WHO
02450
02455 #define EMBER_AF_DOXYGEN_CLI_COMMAND_PRICE_ZCL_SPRICE_PUBLIC
02456 // end group price
02458
02473 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_OFF
02474
02480 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SCENES_ZCL_SCENES_SET_ON
02481 // end group scenes
02483
02498 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_ADJUST
02499
02504 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_ELECTRIC
02505
02510 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_GAS
02511
02516 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_OFF
02517

```

```

02521 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_PRINT
02522
02527 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_PROFILES
02528
02533 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_RATE
02534
02539 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_RND_ERROR
02540
02546 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_SET_ERROR
02547
02552 #define EMBER_AF_DOXYGEN_CLI_COMMAND_SIMPLE_METERING_ZCL_TM_VARIANCE
02553 // end group simple-metering
02555
02570 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RANDOM_TO_CLIENT
02571
02577 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_RANDOM_TO_SERVER
02578
02584 #define EMBER_AF_DOXYGEN_CLI_COMMAND_TUNNELING_ZCL_TUNNELING_TRANSFER_TO_CLIENT
02585 // end group tunneling
02587
02588
02590 #endif // __EMBER_AF_CLI__

```

9.29 client-api.h File Reference

```
#include "client-command-macro.h"
```

Client API functions

- int16u [emberAfFillExternalBuffer](#) (int8u frameControl, [EmberAfClusterId](#) clusterId, int8u commandId, PGM_P format,...)
- int16u [emberAfFillExternalManufacturerSpecificBuffer](#) (int8u frameControl, [EmberAfClusterId](#) clusterId, int16u manufacturerCode, int8u commandId, PGM_P format,...)
- void [emberAfSetExternalBuffer](#) (int8u *buffer, int16u bufferLen, int16u *responseLengthPtr, EmberApsFrame *apsFramePtr)
- int16u [emberAfFillBuffer](#) (int8u *buffer, int16u bufferLen, int8u frameControl, int8u commandId, PGM_P format,...)

9.29.1 Detailed Description

API for generating command buffer.

Definition in file [client-api.h](#).

9.29.2 Function Documentation

9.29.2.1 int16u [emberAfFillExternalBuffer](#) (int8u *frameControl*, [EmberAfClusterId](#) *clusterId*, int8u *commandId*, PGM_P *format*, ...)

Function that fills in the buffer with command.

Fills the outgoing zcl buffer and returns the number of bytes used in a buffer. The buffers used are the ones that were previously set with [emberAfSetExternalBuffer](#).

Parameters

| | |
|---------------------|---|
| <i>frameControl</i> | byte used for frame control |
| <i>clusterId</i> | cluster id of message |
| <i>commandId</i> | command id of message |
| <i>format</i> | <p>String format for further arguments to the function. Format values are:</p> <ul style="list-style-type: none"> • '1' - '9' and 'A' - 'G': 1-16 byte long generic blobs • 'u': int8u • 'v': int16u • 'w': int32u • 's': pointer to int8u, first byte contains remaining length • 'S': one argument is int8u*, next argument is int8u length. Buffer is filled with length byte first and then the rest of data. • 'b': one argument is int8u*, next argument is int8u length. Buffer is filled only with the data in pointer, length is used, but not written as a first byte. |

9.29.2.2 int16u emberAfFillExternalManufacturerSpecificBuffer (int8u *frameControl*, EmberAfClusterId *clusterId*, int16u *manufacturerCode*, int8u *commandId*, PGM_P *format*, ...)

Function that fills in the buffer with manufacturer-specific command.

Fills the outgoing zcl buffer and returns the number of bytes used in a buffer. The buffers used are the ones that were previously set with emberAfSetExternalBuffer.

Parameters

| | |
|--------------------------|---|
| <i>frameControl</i> | byte used for frame control |
| <i>clusterId</i> | cluster id of message |
| <i>manufacturer-Code</i> | manufacturer code of message |
| <i>commandId</i> | command id of message |
| <i>format</i> | <p>String format for further arguments to the function. Format values are:</p> <ul style="list-style-type: none"> • '1' - '9' and 'A' - 'G': 1-16 byte long generic blobs • 'u': int8u • 'v': int16u • 'w': int32u • 's': pointer to int8u, first byte contains remaining length • 'S': one argument is int8u*, next argument is int8u length. Buffer is filled with length byte first and then the rest of data. • 'b': one argument is int8u*, next argument is int8u length. Buffer is filled only with the data in pointer, length is used, but not written as a first byte. |

9.29.2.3 void emberAfSetExternalBuffer (int8u * *buffer*, int16u *bufferLen*, int16u * *responseLengthPtr*, EmberApsFrame * *apsFramePtr*)

Function that registers the buffer to use with the fill function. Registers the buffer for use with the emberAfFillExternalBuffer function.

Parameters

| | |
|--------------------------|--|
| <i>buffer</i> | Main buffer for constructing message. |
| <i>bufferLen</i> | Available length of buffer. |
| <i>responseLengthPtr</i> | location where length of message will be written into. |
| <i>apsFramePtr</i> | location where APS frame data will be written. |

9.29.2.4 int16u emberAfFillBuffer (int8u * *buffer*, int16u *bufferLen*, int8u *frameControl*, int8u *commandId*, PGM_P *format*, ...)

Stateless function that fills the passed buffer with command data.

Stateless method, that fill the passed buffer. This method is used internally by emberAfFillExternalBuffer, but can be used for generic buffer filling.

9.30 client-api.h

```

00001
00006 #ifndef __CLIENT_API__
00007 #define __CLIENT_API__
00008
00010 // @{
00011
00035 int16u emberAfFillExternalBuffer(int8u frameControl,
00036                           EmberAfClusterId clusterId,
00037                           int8u commandId,
00038                           PGM_P format,
00039                           ...);
00040
00065 int16u emberAfFillExternalManufacturerSpecificBuffer(int8u frameControl,
00066                           EmberAfClusterId clusterId
00067                           ,
00068                           int16u manufacturerCode,
00069                           int8u commandId,
00070                           PGM_P format,
00071                           ...);
00081 void emberAfSetExternalBuffer(int8u *buffer,
00082                           int16u bufferLen,
00083                           int16u *responseLengthPtr,
00084                           EmberApsFrame *apsFramePtr);
00085
00093 int16u emberAfFillBuffer(int8u *buffer,
00094                           int16u bufferLen,
00095                           int8u frameControl,
00096                           int8u commandId,
00097                           PGM_P format,
00098                           ...);
00099
00100 // Generated macros
00101 #include "client-command-macro.h"
00102
00105 #endif // __CLIENT_API__

```

9.31 client-command-macro.h File Reference

Global Commands

- #define `emberAfFillCommandGlobalServerToClientReadAttributes`(clusterId, attributeIds, attributeIdsLen)
- #define `emberAfFillCommandGlobalClientToServerReadAttributes`(clusterId, attributeIds, attributeIdsLen)
- #define `emberAfFillCommandGlobalServerToClientReadAttributesResponse`(clusterId, readAttributeStatusRecords, readAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReadAttributesResponse`(clusterId, readAttributeStatusRecords, readAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributes`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributes`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributesUndivided`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributesUndivided`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributesResponse`(clusterId, writeAttributeStatusRecords, writeAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributesResponse`(clusterId, writeAttributeStatusRecords, writeAttributeStatusRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientWriteAttributesNoResponse`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerWriteAttributesNoResponse`(clusterId, writeAttributeRecords, writeAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientConfigureReporting`(clusterId, configureReportingRecords, configureReportingRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerConfigureReporting`(clusterId, configureReportingRecords, configureReportingRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientConfigureReportingResponse`(clusterId, configureReportingStatusRecords, configureReportingStatusRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerConfigureReportingResponse`(clusterId, configureReportingStatusRecords, configureReportingStatusRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientReadReportingConfiguration`(clusterId, readReportingConfigurationAttributeRecords, readReportingConfigurationAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReadReportingConfiguration`(clusterId, readReportingConfigurationAttributeRecords, readReportingConfigurationAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientReadReportingConfigurationResponse`(clusterId, readReportingConfigurationRecords, readReportingConfigurationRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReadReportingConfigurationResponse`(clusterId, readReportingConfigurationRecords, readReportingConfigurationRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientReportAttributes`(clusterId, reportAttributeRecords, reportAttributeRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerReportAttributes`(clusterId, reportAttributeRecords, reportAttributeRecordsLen)
- #define `emberAfFillCommandGlobalServerToClientDefaultResponse`(clusterId, commandId, status)
- #define `emberAfFillCommandGlobalClientToServerDefaultResponse`(clusterId, commandId, status)
- #define `emberAfFillCommandGlobalServerToClientDiscoverAttributes`(clusterId, startId, maxAttributeIds)
- #define `emberAfFillCommandGlobalClientToServerDiscoverAttributes`(clusterId, startId, maxAttributeIds)

- #define `emberAfFillCommandGlobalServerToClientDiscoverAttributesResponse`(clusterId, discoveryComplete, discoverAttributesInfoRecords, discoverAttributesInfoRecordsLen)
- #define `emberAfFillCommandGlobalClientToServerDiscoverAttributesResponse`(clusterId, discoveryComplete, discoverAttributesInfoRecords, discoverAttributesInfoRecordsLen)

Basic Commands

- #define `emberAfFillCommandBasicClusterResetToFactoryDefaults()`

Identify Commands

- #define `emberAfFillCommandIdentifyClusterIdentify`(identifyTime)
- #define `emberAfFillCommandIdentifyClusterIdentifyQuery()`
- #define `emberAfFillCommandIdentifyClusterIdentifyQueryResponse`(timeout)
- #define `emberAfFillCommandIdentifyClusterTriggerEffect`(effectId, effectVariant)

Groups Commands

- #define `emberAfFillCommandGroupsClusterAddGroup`(groupId, groupName)
- #define `emberAfFillCommandGroupsClusterViewGroup`(groupId)
- #define `emberAfFillCommandGroupsClusterGetGroupMembership`(groupCount, groupList, groupListLen)
- #define `emberAfFillCommandGroupsClusterRemoveGroup`(groupId)
- #define `emberAfFillCommandGroupsClusterRemoveAllGroups()`
- #define `emberAfFillCommandGroupsClusterAddGroupIfIdentifying`(groupId, groupName)
- #define `emberAfFillCommandGroupsClusterAddGroupResponse`(status, groupId)
- #define `emberAfFillCommandGroupsClusterViewGroupResponse`(status, groupId, groupName)
- #define `emberAfFillCommandGroupsClusterGetGroupMembershipResponse`(capacity, groupCount, groupList, groupListLen)
- #define `emberAfFillCommandGroupsClusterRemoveGroupResponse`(status, groupId)

Scenes Commands

- #define `emberAfFillCommandScenesClusterAddScene`(groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterViewScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRemoveScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRemoveAllScenes`(groupId)
- #define `emberAfFillCommandScenesClusterStoreScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRecallScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterGetSceneMembership`(groupId)
- #define `emberAfFillCommandScenesClusterAddSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterViewSceneResponse`(status, groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterRemoveSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterRemoveAllScenesResponse`(status, groupId)
- #define `emberAfFillCommandScenesClusterStoreSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterGetSceneMembershipResponse`(status, capacity, groupId, sceneCount, sceneList, sceneListLen)

- #define `emberAfFillCommandScenesClusterEnhancedAddScene`(groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterEnhancedViewScene`(groupId, sceneId)
- #define `emberAfFillCommandScenesClusterCopyScene`(mode, groupIdFrom, sceneIdFrom, groupIdTo, sceneIdTo)
- #define `emberAfFillCommandScenesClusterEnhancedAddSceneResponse`(status, groupId, sceneId)
- #define `emberAfFillCommandScenesClusterEnhancedViewSceneResponse`(status, groupId, sceneId, transitionTime, sceneName, extensionFieldSets, extensionFieldSetsLen)
- #define `emberAfFillCommandScenesClusterCopySceneResponse`(status, groupIdFrom, sceneIdFrom)

On/off Commands

- #define `emberAfFillCommandOnOffClusterOff`()
- #define `emberAfFillCommandOnOffClusterOn`()
- #define `emberAfFillCommandOnOffClusterToggle`()
- #define `emberAfFillCommandOnOffClusterOffWithEffect`(effectId, effectVariant)
- #define `emberAfFillCommandOnOffClusterOnWithRecallGlobalScene`()
- #define `emberAfFillCommandOnOffClusterOnWithTimedOff`(onOffControl, onTime, offWaitTime)
- #define `emberAfFillCommandOnOffClusterSampleMfgSpecificOffWithTransition`()
- #define `emberAfFillCommandOnOffClusterSampleMfgSpecificOnWithTransition`()
- #define `emberAfFillCommandOnOffClusterSampleMfgSpecificToggleWithTransition`()

Level Control Commands

- #define `emberAfFillCommandLevelControlClusterMoveToLevel`(level, transitionTime)
- #define `emberAfFillCommandLevelControlClusterMove`(moveMode, rate)
- #define `emberAfFillCommandLevelControlClusterStep`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandLevelControlClusterStop`()
- #define `emberAfFillCommandLevelControlClusterMoveToLevelWithOnOff`(level, transitionTime)
- #define `emberAfFillCommandLevelControlClusterMoveWithOnOff`(moveMode, rate)
- #define `emberAfFillCommandLevelControlClusterStepWithOnOff`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandLevelControlClusterStopWithOnOff`()

Alarms Commands

- #define `emberAfFillCommandAlarmClusterResetAlarm`(alarmCode, clusterId)
- #define `emberAfFillCommandAlarmClusterResetAllAlarms`()
- #define `emberAfFillCommandAlarmClusterGetAlarm`()
- #define `emberAfFillCommandAlarmClusterResetAlarmLog`()
- #define `emberAfFillCommandAlarmClusterAlarm`(alarmCode, clusterId)
- #define `emberAfFillCommandAlarmClusterGetAlarmResponse`(status, alarmCode, clusterId, time-Stamp)

RSSI Location Commands

- #define `emberAfFillCommandRssiLocationClusterSetAbsoluteLocation`(coordinate1, coordinate2, coordinate3, power, pathLossExponent)
- #define `emberAfFillCommandRssiLocationClusterSetDeviceConfiguration`(power, pathLossExponent, calculationPeriod, numberRssiMeasurements, reportingPeriod)
- #define `emberAfFillCommandRssiLocationClusterGetDeviceConfiguration`(targetAddress)
- #define `emberAfFillCommandRssiLocationClusterGetLocationData`(flags, numberResponses, targetAddress)
- #define `emberAfFillCommandRssiLocationClusterRssiResponse`(replyingDevice, coordinate1, coordinate2, coordinate3, rssi, numberRssiMeasurements)
- #define `emberAfFillCommandRssiLocationClusterSendPings`(targetAddress, numberRssiMeasurements, calculationPeriod)
- #define `emberAfFillCommandRssiLocationClusterAnchorNodeAnnounce`(anchorNodeIeeeAddress, coordinate1, coordinate2, coordinate3)
- #define `emberAfFillCommandRssiLocationClusterDeviceConfigurationResponse`(status, power, pathLossExponent, calculationPeriod, numberRssiMeasurements, reportingPeriod)
- #define `emberAfFillCommandRssiLocationClusterLocationDataResponse`(status, locationType, coordinate1, coordinate2, coordinate3, power, pathLossExponent, locationMethod, qualityMeasure, locationAge)
- #define `emberAfFillCommandRssiLocationClusterLocationDataNotification`(locationType, coordinate1, coordinate2, coordinate3, power, pathLossExponent, locationMethod, qualityMeasure, locationAge)
- #define `emberAfFillCommandRssiLocationClusterCompactLocationDataNotification`(locationType, coordinate1, coordinate2, coordinate3, qualityMeasure, locationAge)
- #define `emberAfFillCommandRssiLocationClusterRssiPing`(locationType)
- #define `emberAfFillCommandRssiLocationClusterRssiRequest`()
- #define `emberAfFillCommandRssiLocationClusterReportRssiMeasurements`(measuringDevice, neighbors, neighborsInfo, neighborsInfoLen)
- #define `emberAfFillCommandRssiLocationClusterRequestOwnLocation`(blindNode)

Commissioning Commands

- #define `emberAfFillCommandCommissioningClusterRestartDevice`(options, delay, jitter)
- #define `emberAfFillCommandCommissioningClusterSaveStartupParameters`(options, index)
- #define `emberAfFillCommandCommissioningClusterRestoreStartupParameters`(options, index)
- #define `emberAfFillCommandCommissioningClusterResetStartupParameters`(options, index)
- #define `emberAfFillCommandCommissioningClusterRestartDeviceResponse`(status)
- #define `emberAfFillCommandCommissioningClusterSaveStartupParametersResponse`(status)
- #define `emberAfFillCommandCommissioningClusterRestoreStartupParametersResponse`(status)
- #define `emberAfFillCommandCommissioningClusterResetStartupParametersResponse`(status)

Thermostat Commands

- #define `emberAfFillCommandThermostatClusterSetpointRaiseLower`(mode, amount)
- #define `emberAfFillCommandThermostatClusterSetWeeklySchedule`(numberOfTransitionsForSequence, dayOfWeekForSequence, modeForSequence, payload, payloadLen)
- #define `emberAfFillCommandThermostatClusterGetWeeklySchedule`(daysToReturn, modeToReturn)
- #define `emberAfFillCommandThermostatClusterClearWeeklySchedule`()
- #define `emberAfFillCommandThermostatClusterGetRelayStatusLog`()

- #define `emberAfFillCommandThermostatClusterCurrentWeeklySchedule`(numberOfTransitionsForSequence, dayOfWeekForSequence, modeForSequence, payload, payloadLen)
- #define `emberAfFillCommandThermostatClusterRelayStatusLog`(timeOfDay, relayStatus, localTemperature, humidityInPercentage, setpoint, unreadEntries)

Color Control Commands

- #define `emberAfFillCommandColorControlClusterMoveToHue`(hue, direction, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveHue`(moveMode, rate)
- #define `emberAfFillCommandColorControlClusterStepHue`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToSaturation`(saturation, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveSaturation`(moveMode, rate)
- #define `emberAfFillCommandColorControlClusterStepSaturation`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToHueAndSaturation`(hue, saturation, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToColor`(colorX, colorY, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveColor`(rateX, rateY)
- #define `emberAfFillCommandColorControlClusterStepColor`(stepX, stepY, transitionTime)
- #define `emberAfFillCommandColorControlClusterMoveToColorTemperature`(colorTemperature, transitionTime)
- #define `emberAfFillCommandColorControlClusterEnhancedMoveToHue`(enhancedHue, direction, transitionTime)
- #define `emberAfFillCommandColorControlClusterEnhancedMoveHue`(moveMode, rate)
- #define `emberAfFillCommandColorControlClusterEnhancedStepHue`(stepMode, stepSize, transitionTime)
- #define `emberAfFillCommandColorControlClusterEnhancedMoveToHueAndSaturation`(enhancedHue, saturation, transitionTime)
- #define `emberAfFillCommandColorControlClusterColorLoopSet`(updateFlags, action, direction, time, startHue)
- #define `emberAfFillCommandColorControlClusterStopMoveStep`()
- #define `emberAfFillCommandColorControlClusterMoveColorTemperature`(moveMode, rate, colorTemperatureMinimum, colorTemperatureMaximum)
- #define `emberAfFillCommandColorControlClusterStepColorTemperature`(stepMode, stepSize, transitionTime, colorTemperatureMinimum, colorTemperatureMaximum)

IAS Zone Commands

- #define `emberAfFillCommandIasZoneClusterZoneEnrollResponse`(enrollResponseCode, zoneId)
- #define `emberAfFillCommandIasZoneClusterZoneStatusChangeNotification`(zoneStatus, extendedStatus)
- #define `emberAfFillCommandIasZoneClusterZoneEnrollRequest`(zoneType, manufacturerCode)

IAS ACE Commands

- #define `emberAfFillCommandIasAceClusterArm`(armMode)
- #define `emberAfFillCommandIasAceClusterBypass`(numberOfZones, zoneIds, zoneIdsLen)
- #define `emberAfFillCommandIasAceClusterEmergency`()
- #define `emberAfFillCommandIasAceClusterFire`()
- #define `emberAfFillCommandIasAceClusterPanic`()
- #define `emberAfFillCommandIasAceClusterGetZoneIdMap`()

- #define `emberAfFillCommandIasAceClusterGetZoneInformation(zoneId)`
- #define `emberAfFillCommandIasAceClusterArmResponse(armNotification)`
- #define `emberAfFillCommandIasAceClusterGetZoneIdMapResponse(section0, section1, section2, section3, section4, section5, section6, section7, section8, section9, section10, section11, section12, section13, section14, section15)`
- #define `emberAfFillCommandIasAceClusterGetZoneInformationResponse(zoneId, zoneType, ieeeAddress)`

IAS WD Commands

- #define `emberAfFillCommandIasWdClusterStartWarning(warningInfo, warningDuration)`
- #define `emberAfFillCommandIasWdClusterSquawk(squawkInfo)`

Door Lock Commands

- #define `emberAfFillCommandDoorLockClusterLockDoor()`
- #define `emberAfFillCommandDoorLockClusterUnlockDoor()`
- #define `emberAfFillCommandDoorLockClusterLockDoorResponse(status)`
- #define `emberAfFillCommandDoorLockClusterUnlockDoorResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetLockStatus()`
- #define `emberAfFillCommandDoorLockClusterUnlockWithTimeout(timeoutInSeconds)`
- #define `emberAfFillCommandDoorLockClusterGetBatteryLevel()`
- #define `emberAfFillCommandDoorLockClusterSetRfLockoutTime(dayOfWeek, startTimeInMinutesAfterMidnight, stopTimeInMinutesAfterMidnight)`
- #define `emberAfFillCommandDoorLockClusterGetRfLockoutTime(dayOfWeek)`
- #define `emberAfFillCommandDoorLockClusterGetLogRecord(logNumber)`
- #define `emberAfFillCommandDoorLockClusterUserCodeSet(userId, userStatus, code)`
- #define `emberAfFillCommandDoorLockClusterUserCodeGet(userId)`
- #define `emberAfFillCommandDoorLockClusterUserCodeClear(userId)`
- #define `emberAfFillCommandDoorLockClusterClearAllUserCodes()`
- #define `emberAfFillCommandDoorLockClusterSetUserCodeStatus(userId, userStatus)`
- #define `emberAfFillCommandDoorLockClusterGetUserCodeStatus(userId)`
- #define `emberAfFillCommandDoorLockClusterGetLastUserIdEntered()`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlot(slotNumber, userId, daysMask, startHour, startMinute, durationHour, durationMinute)`
- #define `emberAfFillCommandDoorLockClusterGetScheduleSlot(slotNumber, userId)`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlotStatus(slotNumber, userId, status)`
- #define `emberAfFillCommandDoorLockClusterSetIndicator(indicatorNumber, state)`
- #define `emberAfFillCommandDoorLockClusterGetLockStatusResponse(lockMode, boltCondition, handleCondition, relockTimeout)`
- #define `emberAfFillCommandDoorLockClusterUnlockWithTimeoutResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetBatteryLevelResponse(batteryLevel)`
- #define `emberAfFillCommandDoorLockClusterSetRfLockoutTimeResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetRfLockoutTimeResponse(dayOfWeek, startTimeInMinutesAfterMidnight, stopTimeInMinutesAfterMidnight)`
- #define `emberAfFillCommandDoorLockClusterGetLogRecordResponse(logEntryId, timestamp, eventType, userId)`
- #define `emberAfFillCommandDoorLockClusterUserCodeSetResponse(status)`
- #define `emberAfFillCommandDoorLockClusterUserCodeGetResponse(userId, userStatus, code)`
- #define `emberAfFillCommandDoorLockClusterUserCodeClearResponse(status)`

- #define `emberAfFillCommandDoorLockClusterClearAllUserCodeResponse(status)`
- #define `emberAfFillCommandDoorLockClusterSetUserCodeStatusResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetUserCodeStatusResponse(userId, userStatus)`
- #define `emberAfFillCommandDoorLockClusterGetLastUserIdEnteredResponse(userId, reason)`
- #define `emberAfFillCommandDoorLockClusterUserAdded(userId, userStatus, code)`
- #define `emberAfFillCommandDoorLockClusterUserDeleted(userId)`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlotResponse(status)`
- #define `emberAfFillCommandDoorLockClusterGetScheduleSlotResponse(slotNumber, userId, days-Mask, startHour, startMinute, durationHour, durationMinute)`
- #define `emberAfFillCommandDoorLockClusterSetScheduleSlotStatusResponse(status)`

Window Covering Commands

- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringUpOpen()`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringDownClose()`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringStop()`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftSetpoint(indexOf-LiftSetpoint)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftValue(liftValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftPercentage(percentage-LiftValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltSetpoint(indexOf-TiltSetpoint)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltValue(tiltValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltPercentage(percentage-TiltValue)`
- #define `emberAfFillCommandWindowCoveringClusterWindowCoveringGoToProgramSetpoint(setpoint-Type, setpointIndex, setpointValue)`

Power Profile Commands

- #define `emberAfFillCommandPowerProfileClusterPowerProfileRequest(powerProfileId)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileStateRequest()`
- #define `emberAfFillCommandPowerProfileClusterGetPowerProfilePriceResponse(powerProfileId, currency, price, priceTrailingDigit)`
- #define `emberAfFillCommandPowerProfileClusterGetOverallSchedulePriceResponse(currency, price, priceTrailingDigit)`
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleNotification(powerProfile-Id, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)`
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleResponse(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsRequest(power-ProfileId)`
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateRequest(powerProfile-Id)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileNotification(totalProfileNum, power-ProfileId, numOfTransferredPhases, transferredPhases, transferredPhasesLen)`
- #define `emberAfFillCommandPowerProfileClusterPowerProfileResponse(totalProfileNum, powerProfile-Id, numOfTransferredPhases, transferredPhases, transferredPhasesLen)`

- #define `emberAfFillCommandPowerProfileClusterPowerProfileStateResponse`(powerProfileCount, powerProfileRecords, powerProfileRecordsLen)
- #define `emberAfFillCommandPowerProfileClusterGetPowerProfilePrice`(powerProfileId)
- #define `emberAfFillCommandPowerProfileClusterPowerProfilesStateNotification`(powerProfileCount, powerProfileRecords, powerProfileRecordsLen)
- #define `emberAfFillCommandPowerProfileClusterGetOverallSchedulePrice`()
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleRequest`(powerProfileId)
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateResponse`(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)
- #define `emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateNotification`(powerProfileId, numOfScheduledPhases, scheduledPhases, scheduledPhasesLen)
- #define `emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsNotification`(powerProfileId, startAfter, stopBefore)
- #define `emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsResponse`(powerProfileId, startAfter, stopBefore)

Appliance Control Commands

- #define `emberAfFillCommandApplianceControlClusterExecutionOfACommand`(commandId)
- #define `emberAfFillCommandApplianceControlClusterSignalState`()
- #define `emberAfFillCommandApplianceControlClusterWriteFunctions`(functionId, functionDataType, functionData, functionDataLen)
- #define `emberAfFillCommandApplianceControlClusterOverloadPauseResume`()
- #define `emberAfFillCommandApplianceControlClusterOverloadPause`()
- #define `emberAfFillCommandApplianceControlClusterOverloadWarning`(warningEvent)
- #define `emberAfFillCommandApplianceControlClusterSignalStateResponse`(applianceStatus, remoteEnableFlagsAndDeviceStatus2, applianceStatus2)
- #define `emberAfFillCommandApplianceControlClusterSignalStateNotification`(applianceStatus, remoteEnableFlagsAndDeviceStatus2, applianceStatus2)

Poll Control Commands

- #define `emberAfFillCommandPollControlClusterCheckIn`()
- #define `emberAfFillCommandPollControlClusterCheckInResponse`(startFastPolling, fastPollTimeout)
- #define `emberAfFillCommandPollControlClusterFastPollStop`()
- #define `emberAfFillCommandPollControlClusterSetLongPollInterval`(newLongPollInterval)
- #define `emberAfFillCommandPollControlClusterSetShortPollInterval`(newShortPollInterval)

Appliance Events and Alert Commands

- #define `emberAfFillCommandApplianceEventsAndAlertClusterGetAlerts`()
- #define `emberAfFillCommandApplianceEventsAndAlertClusterGetAlertsResponse`(alertsCount, alertStructures, alertStructuresLen)
- #define `emberAfFillCommandApplianceEventsAndAlertClusterAlertsNotification`(alertsCount, alertStructures, alertStructuresLen)
- #define `emberAfFillCommandApplianceEventsAndAlertClusterEventsNotification`(eventHeader, eventId)

Generic Tunnel Commands

- #define `emberAfFillCommandGenericTunnelClusterMatchProtocolAddress(protocolAddress)`
- #define `emberAfFillCommandGenericTunnelClusterMatchProtocolAddressResponse(deviceIeeeAddress, protocolAddress)`
- #define `emberAfFillCommandGenericTunnelClusterAdvertiseProtocolAddress(protocolAddress)`

BACnet Protocol Tunnel Commands

- #define `emberAfFillCommandBacnetProtocolTunnelClusterTransferNpdu(npdu, npduLen)`

Over the Air Bootloading Cluster Commands

- #define `emberAfFillCommandOtaBootloadClusterImageNotify(payloadType, queryJitter, manufacturerId, imageType, newFileVersion)`
- #define `emberAfFillCommandOtaBootloadClusterQueryNextImageRequest(fieldControl, manufacturerId, imageType, currentFileVersion, hardwareVersion)`
- #define `emberAfFillCommandOtaBootloadClusterQueryNextImageResponse(status, manufacturerId, imageType, fileVersion, imageSize)`
- #define `emberAfFillCommandOtaBootloadClusterImageBlockRequest(fieldControl, manufacturerId, imageType, fileVersion, fileOffset, maxDataSize, requestNodeAddress)`
- #define `emberAfFillCommandOtaBootloadClusterImagePageRequest(fieldControl, manufacturerId, imageType, fileVersion, fileOffset, maxDataSize, pageSize, responseSpacing, requestNodeAddress)`
- #define `emberAfFillCommandOtaBootloadClusterImageBlockResponse(status, manufacturerId, imageType, fileVersion, fileOffset, dataSize, imageData)`
- #define `emberAfFillCommandOtaBootloadClusterUpgradeEndRequest(status, manufacturerId, imageType, fileVersion)`
- #define `emberAfFillCommandOtaBootloadClusterUpgradeEndResponse(manufacturerId, imageType, fileVersion, currentTime, upgradeTime)`
- #define `emberAfFillCommandOtaBootloadClusterQuerySpecificFileRequest(requestNodeAddress, manufacturerId, imageType, fileVersion, currentZigbeeStackVersion)`
- #define `emberAfFillCommandOtaBootloadClusterQuerySpecificFileResponse(status, manufacturerId, imageType, fileVersion, imageSize)`

Demand Response and Load Control Commands

- #define `emberAfFillCommandDemandResponseLoadControlClusterLoadControlEvent(issuerEventId, deviceClass, utilityEnrollmentGroup, startTime, durationInMinutes, criticalityLevel, coolingTemperatureOffset, heatingTemperatureOffset, coolingTemperatureSetPoint, heatingTemperatureSetPoint, averageLoadAdjustmentPercentage, dutyCycle, eventControl)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterCancelLoadControlEvent(issuerEventId, deviceClass, utilityEnrollmentGroup, cancelControl, effectiveTime)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterCancelAllLoadControlEvents(cancelControl)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterReportEventStatus(issuerEventId, eventStatus, eventStatusTime, criticalityLevelApplied, coolingTemperatureSetPointApplied, heatingTemperatureSetPointApplied, averageLoadAdjustmentPercentageApplied, dutyCycleApplied, eventControl, signatureType, signature)`
- #define `emberAfFillCommandDemandResponseLoadControlClusterGetScheduledEvents(startTime, numberOfEvents)`

Simple Metering Commands

- #define `emberAfFillCommandSimpleMeteringClusterGetProfileResponse`(endTime, status, profileIntervalPeriod, numberOfPeriodsDelivered, intervals, intervalsLen)
- #define `emberAfFillCommandSimpleMeteringClusterRequestMirror()`
- #define `emberAfFillCommandSimpleMeteringClusterRemoveMirror()`
- #define `emberAfFillCommandSimpleMeteringClusterRequestFastPollModeResponse`(appliedUpdatePeriod, fastPollModeEndtime)
- #define `emberAfFillCommandSimpleMeteringClusterGetProfile`(intervalChannel, endTime, numberOfPeriods)
- #define `emberAfFillCommandSimpleMeteringClusterRequestMirrorResponse`(endpointId)
- #define `emberAfFillCommandSimpleMeteringClusterMirrorRemoved`(endpointId)
- #define `emberAfFillCommandSimpleMeteringClusterRequestFastPollMode`(fastPollUpdatePeriod, duration)

Price Commands

- #define `emberAfFillCommandPriceClusterPublishPrice`(providerId, rateLabel, issuerEventId, currentTime, unitOfMeasure, currency, priceTrailingDigitAndPriceTier, numberOfPriceTiersAndRegisterTier, startTime, durationInMinutes, price, priceRatio, generationPrice, generationPriceRatio, alternateCostDelivered, alternateCostUnit, alternateCostTrailingDigit, numberOfBlockThresholds, priceControl)
- #define `emberAfFillCommandPriceClusterPublishBlockPeriod`(providerId, issuerEventId, blockPeriodStartTime, blockPeriodDurationInMinutes, numberOfPriceTiersAndNumberOfBlockThresholds, blockPeriodControl)
- #define `emberAfFillCommandPriceClusterGetCurrentPrice`(commandOptions)
- #define `emberAfFillCommandPriceClusterGetScheduledPrices`(startTime, numberOfEvents)
- #define `emberAfFillCommandPriceClusterPriceAcknowledgement`(providerId, issuerEventId, priceAckTime, control)
- #define `emberAfFillCommandPriceClusterGetBlockPeriods`(startTime, numberOfEvents)

Messaging Commands

- #define `emberAfFillCommandMessagingClusterDisplayMessage`(messageId, messageControl, startTime, durationInMinutes, message)
- #define `emberAfFillCommandMessagingClusterCancelMessage`(messageId, messageControl)
- #define `emberAfFillCommandMessagingClusterGetLastMessage()`
- #define `emberAfFillCommandMessagingClusterMessageConfirmation`(messageId, confirmationTime)

Tunneling Commands

- #define `emberAfFillCommandTunnelingClusterRequestTunnel`(protocolId, manufacturerCode, flowControlSupport, maximumIncomingTransferSize)
- #define `emberAfFillCommandTunnelingClusterCloseTunnel`(tunnelId)
- #define `emberAfFillCommandTunnelingClusterTransferDataClientToServer`(tunnelId, data, dataLen)
- #define `emberAfFillCommandTunnelingClusterTransferDataErrorClientToServer`(tunnelId, transferDataStatus)
- #define `emberAfFillCommandTunnelingClusterAckTransferDataClientToServer`(tunnelId, numberOfWorksLeft)
- #define `emberAfFillCommandTunnelingClusterReadyDataClientToServer`(tunnelId, numberOfWorksLeft)

- #define `emberAfFillCommandTunnelingClusterGetSupportedTunnelProtocols`(protocolOffset)
- #define `emberAfFillCommandTunnelingClusterRequestTunnelResponse`(tunnelId, tunnelStatus, maximumIncomingTransferSize)
- #define `emberAfFillCommandTunnelingClusterTransferDataServerToClient`(tunnelId, data, dataLen)
- #define `emberAfFillCommandTunnelingClusterTransferDataErrorServerToClient`(tunnelId, transferDataStatus)
- #define `emberAfFillCommandTunnelingClusterAckTransferDataServerToClient`(tunnelId, numberOfWorkBytesLeft)
- #define `emberAfFillCommandTunnelingClusterReadyDataServerToClient`(tunnelId, numberOfOctetsLeft)
- #define `emberAfFillCommandTunnelingClusterSupportedTunnelProtocolsResponse`(protocolListComplete, protocolCount, protocolList, protocolListLen)
- #define `emberAfFillCommandTunnelingClusterTunnelClosureNotification`(tunnelId)

Prepayment Commands

- #define `emberAfFillCommandPrepaymentClusterSelectAvailableEmergencyCredit`(commandDateTime, originatingDevice, siteId, meterSerialNumber)
- #define `emberAfFillCommandPrepaymentClusterChangeSupply`(providerId, requestDateTime, siteId, meterSerialNumber, implementationDateTime, proposedSupplyStatus, originatorIdSupplyControlBits)
- #define `emberAfFillCommandPrepaymentClusterSupplyStatusResponse`(providerId, implementationDate, supplyStatus)

Key establishment Commands

- #define `emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentRequest`(keyEstablishmentSuite, ephemeralDataGenerateTime, confirmKeyGenerateTime, identity)
- #define `emberAfFillCommandKeyEstablishmentClusterEphemeralDataRequest`(ephemeralData)
- #define `emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataRequest`(secureMessageAuthenticationCode)
- #define `emberAfFillCommandKeyEstablishmentClusterServerToClientTerminateKeyEstablishment`(statusCode, waitTime, keyEstablishmentSuite)
- #define `emberAfFillCommandKeyEstablishmentClusterClientToServerTerminateKeyEstablishment`(statusCode, waitTime, keyEstablishmentSuite)
- #define `emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentResponse`(requestedKeyEstablishmentSuite, ephemeralDataGenerateTime, confirmKeyGenerateTime, identity)
- #define `emberAfFillCommandKeyEstablishmentClusterEphemeralDataResponse`(ephemeralData)
- #define `emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataResponse`(secureMessageAuthenticationCode)

ZLL Commissioning Commands

- #define `emberAfFillCommandZllCommissioningClusterScanRequest`(transaction, zigbeeInformation, zllInformation)
- #define `emberAfFillCommandZllCommissioningClusterDeviceInformationRequest`(transaction, startIndex)
- #define `emberAfFillCommandZllCommissioningClusterIdentifyRequest`(transaction, identifyDuration)
- #define `emberAfFillCommandZllCommissioningClusterResetToFactoryNewRequest`(transaction)

- #define `emberAfFillCommandZllCommissioningClusterNetworkStartRequest`(transaction, extendedPanId, keyIndex, encryptedNetworkKey, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd, initiatorIeeeAddress, initiatorNetworkAddress)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinRouterRequest`(transaction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinEndDeviceRequest`(transaction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChannel, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd)
- #define `emberAfFillCommandZllCommissioningClusterNetworkUpdateRequest`(transaction, extendedPanId, networkUpdateId, logicalChannel, panId, networkAddress)
- #define `emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersRequest`(startIndex)
- #define `emberAfFillCommandZllCommissioningClusterGetEndpointListRequest`(startIndex)
- #define `emberAfFillCommandZllCommissioningClusterScanResponse`(transaction, rssiCorrection, zigbeeInformation, zllInformation, keyBitmask, responseId, extendedPanId, networkUpdateId, logicalChannel, panId, networkAddress, numberOfSubDevices, totalGroupIds, endpointId, profileId, deviceId, version, groupIdCount)
- #define `emberAfFillCommandZllCommissioningClusterDeviceInformationResponse`(transaction, number_of_sub_devices, startIndex, deviceInformationRecordCount, deviceInformationRecordList, deviceInformationRecordListLen)
- #define `emberAfFillCommandZllCommissioningClusterNetworkStartResponse`(transaction, status, extendedPanId, networkUpdateId, logicalChannel, panId)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinRouterResponse`(transaction, status)
- #define `emberAfFillCommandZllCommissioningClusterNetworkJoinEndDeviceResponse`(transaction, status)
- #define `emberAfFillCommandZllCommissioningClusterEndpointInformation`(ieeeAddress, networkAddress, endpointId, profileId, deviceId, version)
- #define `emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersResponse`(total, startIndex, count, groupInformationRecordList, groupInformationRecordListLen)
- #define `emberAfFillCommandZllCommissioningClusterGetEndpointListResponse`(total, startIndex, count, endpointInformationRecordList, endpointInformationRecordListLen)

Sample Mfg Specific Cluster Commands

- #define `emberAfFillCommandSampleMfgSpecificClusterCommandOne`(argOne)

9.32 client-command-macro.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef CLUSTER_CLIENT_API
00009 #define CLUSTER_CLIENT_API
00010
00011

```

```

00012 // This is generated client API
00013
00014
00015
00023 // @{
00031 #define
    emberAfFillCommandGlobalServerToClientReadAttributes(clusterId,attributeIds,attributeIdsLen) \
00032     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00033         clusterId,\                                         \
00034             ZCL_READ_ATTRIBUTES_COMMAND_ID,\               \
00035             "b",\                                         \
00036             attributeIds,\                           \
00037             attributeIdsLen\                         \
00038         );
00039
00040
00048 #define
    emberAfFillCommandGlobalClientToServerReadAttributes(clusterId,attributeIds,attributeIdsLen) \
00049     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00050         clusterId,\                                         \
00051             ZCL_READ_ATTRIBUTES_COMMAND_ID,\               \
00052             "b",\                                         \
00053             attributeIds,\                           \
00054             attributeIdsLen\                         \
00055         );
00056
00057
00065 #define
    emberAfFillCommandGlobalServerToClientReadAttributesResponse(clusterId,readAttributeStatusRecords,readAttributeStatusR
00066
00067     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00068         clusterId,\                                         \
00069             ZCL_READ_ATTRIBUTES_RESPONSE_COMMAND_ID,\       \
00070             "b",\                                         \
00071             readAttributeStatusRecords,\                  \
00072             readAttributeStatusRecordsLen\                \
00073         );
00074
00082 #define
    emberAfFillCommandGlobalClientToServerReadAttributesResponse(clusterId,readAttributeStatusRecords,readAttributeStatusR
00083
00084     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00085         clusterId,\                                         \
00086             ZCL_READ_ATTRIBUTES_RESPONSE_COMMAND_ID,\       \
00087             "b",\                                         \
00088             readAttributeStatusRecords,\                  \
00089             readAttributeStatusRecordsLen\                \
00090         );
00091
00099 #define
    emberAfFillCommandGlobalServerToClientWriteAttributes(clusterId,writeAttributeRecords,writeAttributeRecordsLen) \
00100
00101     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00102         clusterId,\                                         \
00103             ZCL_WRITE_ATTRIBUTES_COMMAND_ID,\              \
00104             "b",\                                         \
00105             writeAttributeRecords,\                      \
00106             writeAttributeRecordsLen\                    \
00107         );
00108
00116 #define
    emberAfFillCommandGlobalClientToServerWriteAttributes(clusterId,writeAttributeRecords,writeAttributeRecordsLen) \
00117
00118     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00119         clusterId,\                                         \
00120             ZCL_WRITE_ATTRIBUTES_COMMAND_ID,\              \
00121             "b",\                                         \
00122             writeAttributeRecords,\                      \
00123             writeAttributeRecordsLen\                    \
00124         );
00125
00133 #define
    emberAfFillCommandGlobalServerToClientWriteAttributesUndivided(clusterId,writeAttributeRecords,writeAttributeRecordsLe
00134

```

```

00135 emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00136     clusterId,\ \
00137     ZCL_WRITE_ATTRIBUTES_UNDIVIDED_COMMAND_ID,\ \
00138     "b",\ \
00139     writeAttributeRecords,\ \
00140     writeAttributeRecordsLen\
00141     );
00142
00150 #define
00151     emberAfFillCommandGlobalClientToServerWriteAttributesUndivided(clusterId,writeAttributeRecords,writeAttributeRecordsLen);
00152     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00153         clusterId,\ \
00154         ZCL_WRITE_ATTRIBUTES_UNDIVIDED_COMMAND_ID,\ \
00155         "b",\ \
00156         writeAttributeRecords,\ \
00157         writeAttributeRecordsLen\
00158     );
00159
00167 #define
00168     emberAfFillCommandGlobalServerToClientWriteAttributesResponse(clusterId,writeAttributeStatusRecords,writeAttributeStatusRecordsLen);
00169     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00170         clusterId,\ \
00171         ZCL_WRITE_ATTRIBUTES_RESPONSE_COMMAND_ID,\ \
00172         "b",\ \
00173         writeAttributeStatusRecords,\ \
00174         writeAttributeStatusRecordsLen\
00175     );
00176
00184 #define
00185     emberAfFillCommandGlobalClientToServerWriteAttributesResponse(clusterId,writeAttributeStatusRecords,writeAttributeStatusRecordsLen);
00186     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00187         clusterId,\ \
00188         ZCL_WRITE_ATTRIBUTES_RESPONSE_COMMAND_ID,\ \
00189         "b",\ \
00190         writeAttributeStatusRecords,\ \
00191         writeAttributeStatusRecordsLen\
00192     );
00193
00201 #define
00202     emberAfFillCommandGlobalServerToClientWriteAttributesNoResponse(clusterId,writeAttributeRecords,writeAttributeRecordsLen);
00203     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00204         clusterId,\ \
00205         ZCL_WRITE_ATTRIBUTES_NO_RESPONSE_COMMAND_ID,\ \
00206         "b",\ \
00207         writeAttributeRecords,\ \
00208         writeAttributeRecordsLen\
00209     );
00210
00218 #define
00219     emberAfFillCommandGlobalClientToServerWriteAttributesNoResponse(clusterId,writeAttributeRecords,writeAttributeRecordsLen);
00220     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00221         clusterId,\ \
00222         ZCL_WRITE_ATTRIBUTES_NO_RESPONSE_COMMAND_ID,\ \
00223         "b",\ \
00224         writeAttributeRecords,\ \
00225         writeAttributeRecordsLen\
00226     );
00227
00235 #define
00236     emberAfFillCommandGlobalServerToClientConfigureReporting(clusterId,configureReportingRecords,configureReportingRecordsLen);
00237     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00238         clusterId,\ \
00239         ZCL_CONFIGURE_REPORTING_COMMAND_ID,\ \
00240         "b",\ \
00241         configureReportingRecords,\ \
00242         configureReportingRecordsLen\
00243     );

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```

00244
00252 #define
00253     emberAfFillCommandGlobalClientToServerConfigureReporting(clusterId,configureReportingRecords,configureReportingRecordsLen)
00254     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
00255             clusterId,\n
00256             ZCL_CONFIGURE_REPORTING_COMMAND_ID,\n
00257             "b",\n
00258             configureReportingRecords,\n
00259             configureReportingRecordsLen\n
00260         );
00261
00269 #define
00270     emberAfFillCommandGlobalServerToClientConfigureReportingResponse(clusterId,configureReportingStatusRecords,configureReportingStatusRecordsLen)
00271     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
00272             clusterId,\n
00273             ZCL_CONFIGURE_REPORTING_RESPONSE_COMMAND_ID,\n
00274             "b",\n
00275             configureReportingStatusRecords,\n
00276             configureReportingStatusRecordsLen\n
00277 );
00278
00286 #define
00287     emberAfFillCommandGlobalClientToServerConfigureReportingResponse(clusterId,configureReportingStatusRecords,configureReportingStatusRecordsLen)
00288     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
00289             clusterId,\n
00290             ZCL_CONFIGURE_REPORTING_RESPONSE_COMMAND_ID,\n
00291             "b",\n
00292             configureReportingStatusRecords,\n
00293             configureReportingStatusRecordsLen\n
00294         );
00295
00303 #define
00304     emberAfFillCommandGlobalServerToClientReadReportingConfiguration(cluster
00305         Id,readReportingConfigurationAttributeRecords,readReportingConfigurationAttributeRecordsLen) \
00306     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
00307             clusterId,\n
00308             ZCL_READ_REPORTING_CONFIGURATION_COMMAND_ID,\n
00309             "b",\n
00310             readReportingConfigurationAttributeRecords,\n
00311             readReportingConfigurationAttributeRecordsLen\n
00312         );
00320 #define
00321     emberAfFillCommandGlobalClientToServerReadReportingConfiguration(cluster
00322         Id,readReportingConfigurationAttributeRecords,readReportingConfigurationAttributeRecordsLen) \
00323     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
00324             clusterId,\n
00325             ZCL_READ_REPORTING_CONFIGURATION_COMMAND_ID,\n
00326             "b",\n
00327             readReportingConfigurationAttributeRecords,\n
00328             readReportingConfigurationAttributeRecordsLen\n
00329
00337 #define
00338     emberAfFillCommandGlobalServerToClientReadReportingConfigurationResponse
00339         (clusterId,readReportingConfigurationRecords,readReportingConfigurationRecordsLen) \
00340     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
00341             clusterId,\n
00342             ZCL_READ_REPORTING_CONFIGURATION_RESPONSE_COMMAND_ID,\n
00343             "b",\n
00344             readReportingConfigurationRecords,\n
00345             readReportingConfigurationRecordsLen\n
00346
00354 #define
00355     emberAfFillCommandGlobalClientToServerReadReportingConfigurationResponse
00356         (clusterId,readReportingConfigurationRecords,readReportingConfigurationRecordsLen) \

```

```

00355     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00356             clusterId,\ 
00357             ZCL_READ_REPORTING_CONFIGURATION_RESPONSE_COMMAND_ID,\ 
00358             "b",\ 
00359             readReportingConfigurationRecords,\ 
00360             readReportingConfigurationRecordsLen\ 
00361         );
00362 
00363 
00371 #define
00372     emberAfFillCommandGlobalServerToClientReportAttributes(clusterId, reportAttributeRecords, reportAttributeRecordsLen) \
00373     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00374             clusterId,\ 
00375             ZCL_REPORT_ATTRIBUTES_COMMAND_ID,\ 
00376             "b",\ 
00377             reportAttributeRecords,\ 
00378             reportAttributeRecordsLen\ 
00379         );
00380 
00388 #define
00389     emberAfFillCommandGlobalClientToServerReportAttributes(clusterId, reportAttributeRecords, reportAttributeRecordsLen) \
00390     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00391             clusterId,\ 
00392             ZCL_REPORT_ATTRIBUTES_COMMAND_ID,\ 
00393             "b",\ 
00394             reportAttributeRecords,\ 
00395             reportAttributeRecordsLen\ 
00396         );
00397 
00405 #define
00406     emberAfFillCommandGlobalServerToClientDefaultResponse(clusterId, commandId, status) \
00407     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00408             clusterId,\ 
00409             ZCL_DEFAULT_RESPONSE_COMMAND_ID,\ 
00410             "uu",\ 
00411             commandId,\ 
00412             status\ 
00413         );
00414 
00422 #define
00423     emberAfFillCommandGlobalClientToServerDefaultResponse(clusterId, commandId, status) \
00424     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00425             clusterId,\ 
00426             ZCL_DEFAULT_RESPONSE_COMMAND_ID,\ 
00427             "uu",\ 
00428             commandId,\ 
00429             status\ 
00430         );
00431 
00439 #define
00440     emberAfFillCommandGlobalServerToClientDiscoverAttributes(clusterId, startId, maxAttributeIds) \
00441     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00442             clusterId,\ 
00443             ZCL_DISCOVER_ATTRIBUTES_COMMAND_ID,\ 
00444             "vu",\ 
00445             startId,\ 
00446             maxAttributeIds\ 
00447         );
00448 
00456 #define
00457     emberAfFillCommandGlobalClientToServerDiscoverAttributes(clusterId, startId, maxAttributeIds) \
00458     emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00459             clusterId,\ 
00460             ZCL_DISCOVER_ATTRIBUTES_COMMAND_ID,\ 
00461             "vu",\ 
00462             startId,\ 
00463             maxAttributeIds\ 

```

```

00463     );
00464
00465
00474 #define
00475     emberAfFillCommandGlobalServerToClientDiscoverAttributesResponse(cluster
00476         Id, discoveryComplete, discoverAttributesInfoRecords, discoverAttributesInfoRecordsLen) \
00477         emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00478             clusterId,\n
00479             ZCL_DISCOVER_ATTRIBUTES_RESPONSE_COMMAND_ID,\n
00480             "ub",\n
00481             discoveryComplete,\n
00482             discoverAttributesInfoRecords,\n
00483             discoverAttributesInfoRecordsLen\
00484         );
00485
00486
00493 #define
00494     emberAfFillCommandGlobalClientToServerDiscoverAttributesResponse(cluster
00495         Id, discoveryComplete, discoverAttributesInfoRecords, discoverAttributesInfoRecordsLen) \
00496         emberAfFillExternalBuffer(ZCL_PROFILE_WIDE_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00497             clusterId,\n
00498             ZCL_DISCOVER_ATTRIBUTES_RESPONSE_COMMAND_ID,\n
00499             "ub",\n
00500             discoveryComplete,\n
00501             discoverAttributesInfoRecords,\n
00502             discoverAttributesInfoRecordsLen\
00503         );
00504
00505
00509 // @@
00515 #define emberAfFillCommandBasicClusterResetToFactoryDefaults() \
00516     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00517         ZCL_BASIC_CLUSTER_ID,\n
00518         ZCL_RESET_TO_FACTORY_DEFAULTS_COMMAND_ID,\n
00519         ""\
00520     );
00521
00522
00527 // @@
00532 // @@
00537 // @@
00544 #define emberAfFillCommandIdentifyClusterIdentify(identifyTime) \
00545     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00546         ZCL_IDENTIFY_CLUSTER_ID,\n
00547         ZCL_IDENTIFY_COMMAND_ID,\n
00548         "v",\n
00549         identifyTime\
00550     );
00551
00552
00558 #define emberAfFillCommandIdentifyClusterIdentifyQuery() \
00559     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00560         ZCL_IDENTIFY_CLUSTER_ID,\n
00561         ZCL_IDENTIFY_QUERY_COMMAND_ID,\n
00562         ""\
00563     );
00564
00565
00572 #define emberAfFillCommandIdentifyClusterIdentifyQueryResponse(timeout) \
00573     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00574         ZCL_IDENTIFY_CLUSTER_ID,\n
00575         ZCL_IDENTIFY_QUERY_RESPONSE_COMMAND_ID,\n
00576         "v"\n
00577         timeout\
00578     );
00579
00580
00588 #define emberAfFillCommandIdentifyClusterTriggerEffect(effectId, effectVariant)
00589 \
00590     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00591         ZCL_IDENTIFY_CLUSTER_ID,\n
00592         ZCL_TRIGGER_EFFECT_COMMAND_ID,\n
00593         "uu",\n

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00593         effectId,\n
00594         effectVariant\\
00595     );\n
00596\n
00597 // @{
00610 #define emberAfFillCommandGroupsClusterAddGroup(groupId, groupName) \
00611     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00612             ZCL_GROUPS_CLUSTER_ID, \
00613             ZCL_ADD_GROUP_COMMAND_ID, \
00614             "vs", \
00615             groupId, \
00616             groupName\\
00617         );\n
00618\n
00619 #define emberAfFillCommandGroupsClusterViewGroup(groupId) \
00620     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00621             ZCL_GROUPS_CLUSTER_ID, \
00622             ZCL_VIEW_GROUP_COMMAND_ID, \
00623             "v", \
00624             groupId\\
00625         );\n
00626\n
00627 #define emberAfFillCommandGroupsClusterGetGroupMembership(groupCount, groupList, groupListLen) \
00628     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00629             ZCL_GROUPS_CLUSTER_ID, \
00630             ZCL_GET_GROUP_MEMBERSHIP_COMMAND_ID, \
00631             "ub", \
00632             groupCount, \
00633             groupList, \
00634             groupListLen\\
00635         );\n
00636\n
00637 #define emberAfFillCommandGroupsClusterRemoveGroup(groupId) \
00638     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00639             ZCL_GROUPS_CLUSTER_ID, \
00640             ZCL_REMOVE_GROUP_COMMAND_ID, \
00641             "v", \
00642             groupId\\
00643         );\n
00644\n
00645 #define emberAfFillCommandGroupsClusterRemoveAllGroups() \
00646     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00647             ZCL_GROUPS_CLUSTER_ID, \
00648             ZCL_REMOVE_ALL_GROUPS_COMMAND_ID, \
00649             ""\\
00650         );\n
00651\n
00652\n
00653 #define emberAfFillCommandGroupsClusterAddGroupIfIdentifying(groupId, groupName)
00654     \
00655     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00656             ZCL_GROUPS_CLUSTER_ID, \
00657             ZCL_ADD_GROUP_IF_IDENTIFYING_COMMAND_ID, \
00658             "vs", \
00659             groupId, \
00660             groupName\\
00661         );\n
00662\n
00663 #define emberAfFillCommandGroupsClusterAddGroupResponse(status, groupId) \
00664     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00665             ZCL_GROUPS_CLUSTER_ID, \
00666             ZCL_ADD_GROUP_RESPONSE_COMMAND_ID, \
00667             "uv", \
00668             status, \
00669             groupId\\
00670         );

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00714
00715
00724 #define
    emberAfFillCommandGroupsClusterViewGroupResponse(status,groupId,groupName) \
00725     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00726         ZCL_GROUPS_CLUSTER_ID,\ \
00727             ZCL_VIEW_GROUP_RESPONSE_COMMAND_ID,\ \
00728                 "uvb",\ \
00729                     status,\ \
00730                         groupId,\ \
00731                             groupName\
00732                         );
00733
00734
00744 #define
    emberAfFillCommandGroupsClusterGetGroupMembershipResponse(capacity,groupCount,groupList,groupListLen) \
00745     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00746         ZCL_GROUPS_CLUSTER_ID,\ \
00747             ZCL_GET_GROUP_MEMBERSHIP_RESPONSE_COMMAND_ID,\ \
00748                 "uub",\ \
00749                     capacity,\ \
00750                         groupCount,\ \
00751                             groupList,\ \
00752                                 groupListLen\
00753                         );
00754
00755
00763 #define emberAfFillCommandGroupsClusterRemoveGroupResponse(status,groupId) \
00764     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00765         ZCL_GROUPS_CLUSTER_ID,\ \
00766             ZCL_REMOVE_GROUP_RESPONSE_COMMAND_ID,\ \
00767                 "uv",\ \
00768                     status,\ \
00769                         groupId\
00770                         );
00771
00772
00777 // @@
00789 #define
    emberAfFillCommandScenesClusterAddScene(groupId,sceneId,transitionTime,sceneName,extensionFieldSets,extensionFieldSets
00790
    emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00791         ZCL_SCENES_CLUSTER_ID,\ \
00792             ZCL_ADD_SCENE_COMMAND_ID,\ \
00793                 "vuvusb",\ \
00794                     groupId,\ \
00795                         sceneId,\ \
00796                             transitionTime,\ \
00797                                 sceneName,\ \
00798                                     extensionFieldSets,\ \
00799                                         extensionFieldSetsLen\
00800                                         );
00801
00802
00810 #define emberAfFillCommandScenesClusterViewScene(groupId,sceneId) \
00811     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00812         ZCL_SCENES_CLUSTER_ID,\ \
00813             ZCL_VIEW_SCENE_COMMAND_ID,\ \
00814                 "vu",\ \
00815                     groupId,\ \
00816                         sceneId\
00817                         );
00818
00819
00827 #define emberAfFillCommandScenesClusterRemoveScene(groupId,sceneId) \
00828
    emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00829         ZCL_SCENES_CLUSTER_ID,\ \
00830             ZCL_REMOVE_SCENE_COMMAND_ID,\ \
00831                 "vu",\ \
00832                     groupId,\ \
00833                         sceneId\
00834                         );
00835
00836
00843 #define emberAfFillCommandScenesClusterRemoveAllScenes(groupId) \

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00844 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00845     ZCL_SCENES_CLUSTER_ID, \
00846     ZCL_REMOVE_ALL_SCENES_COMMAND_ID, \
00847     "v", \
00848     groupId \
00849 );
00850
00851
00859 #define emberAfFillCommandScenesClusterStoreScene(groupId, sceneId) \
00860     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00861         ZCL_SCENES_CLUSTER_ID, \
00862         ZCL_STORE_SCENE_COMMAND_ID, \
00863         "vu", \
00864         groupId, \
00865         sceneId \
00866 );
00867
00868
00876 #define emberAfFillCommandScenesClusterRecallScene(groupId, sceneId) \
00877     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00878         ZCL_SCENES_CLUSTER_ID, \
00879         ZCL_RECALL_SCENE_COMMAND_ID, \
00880         "vu", \
00881         groupId, \
00882         sceneId \
00883 );
00884
00885
00892 #define emberAfFillCommandScenesClusterGetSceneMembership(groupId) \
00893     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
00894         ZCL_SCENES_CLUSTER_ID, \
00895         ZCL_GET_SCENE_MEMBERSHIP_COMMAND_ID, \
00896         "v", \
00897         groupId \
00898 );
00899
00900
00909 #define emberAfFillCommandScenesClusterAddSceneResponse(status, groupId, sceneId) \
00910     \
00911     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00912         ZCL_SCENES_CLUSTER_ID, \
00913         ZCL_ADD_SCENE_RESPONSE_COMMAND_ID, \
00914         "uvu", \
00915         status, \
00916         groupId, \
00917         sceneId \
00918 );
00919
00932 #define
00933     emberAfFillCommandScenesClusterViewSceneResponse(status, groupId, sceneId, transitionTime, sceneName, extensionFieldSets, ex
00934     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00935         ZCL_SCENES_CLUSTER_ID, \
00936         ZCL_VIEW_SCENE_RESPONSE_COMMAND_ID, \
00937         "uvuvsb", \
00938         status, \
00939         groupId, \
00940         sceneId, \
00941         transitionTime, \
00942         sceneName, \
00943         extensionFieldSets, \
00944         extensionFieldSetsLen \
00945 );
00946
00955 #define
00956     emberAfFillCommandScenesClusterRemoveSceneResponse(status, groupId, sceneId) \
00957     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
00958         ZCL_SCENES_CLUSTER_ID, \
00959         ZCL_REMOVE_SCENE_RESPONSE_COMMAND_ID, \
00960         "uvu", \
00961         status, \
00962         groupId, \

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00962             sceneId\
00963         );
00964
00965
00973 #define emberAfFillCommandScenesClusterRemoveAllScenesResponse(status,groupId)
 \
00974     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
00975                             ZCL_SCENES_CLUSTER_ID,\n
00976                             ZCL_REMOVE_ALL_SCENES_RESPONSE_COMMAND_ID,\n
00977                             "uv",\n
00978                             status,\n
00979                             groupId\n
00980                         );
00981
00982
00991 #define
00992     emberAfFillCommandScenesClusterStoreSceneResponse(status,groupId,sceneId) \
00993     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
00994                             ZCL_SCENES_CLUSTER_ID,\n
00995                             ZCL_STORE_SCENE_RESPONSE_COMMAND_ID,\n
00996                             "uvu",\n
00997                             status,\n
00998                             groupId,\n
00999                             sceneId\n
01000                         );
01001
01013 #define
01014     emberAfFillCommandScenesClusterGetSceneMembershipResponse(status,capacity,groupId,sceneCount,sceneList,sceneListLen) \
01015     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
01016                             ZCL_SCENES_CLUSTER_ID,\n
01017                             ZCL_GET_SCENE_MEMBERSHIP_RESPONSE_COMMAND_ID,\n
01018                             "uuvub",\n
01019                             status,\n
01020                             capacity,\n
01021                             groupId,\n
01022                             sceneCount,\n
01023                             sceneList,\n
01024                             sceneListLen\n
01025
01026
01038 #define
01039     emberAfFillCommandScenesClusterEnhancedAddScene(groupId,sceneId,transitionTime,sceneName,extensionFieldSets,extensionF
01040     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
01041                             ZCL_SCENES_CLUSTER_ID,\n
01042                             ZCL_ENHANCED_ADD_SCENE_COMMAND_ID,\n
01043                             "vuvusb",\n
01044                             groupId,\n
01045                             sceneId,\n
01046                             transitionTime,\n
01047                             sceneName,\n
01048                             extensionFieldSets,\n
01049                             extensionFieldSetsLen\n
01050
01051
01059 #define emberAfFillCommandScenesClusterEnhancedViewScene(groupId,sceneId) \
01060     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
01061                             ZCL_SCENES_CLUSTER_ID,\n
01062                             ZCL_ENHANCED_VIEW_SCENE_COMMAND_ID,\n
01063                             "vu",\n
01064                             groupId,\n
01065                             sceneId\n
01066                         );
01067
01068
01079 #define
01080     emberAfFillCommandScenesClusterCopyScene(mode,groupIdFrom,sceneIdFrom,groupIdTo,sceneIdTo) \
01081     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
01082                             ZCL_SCENES_CLUSTER_ID,\n
01083                             ZCL_COPY_SCENE_COMMAND_ID,\n
01084                             "uvuvuu",\n
01085                             mode,\n

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01085             groupIdFrom,\ 
01086             sceneIdFrom,\ 
01087             groupIdTo,\ 
01088             sceneIdTo\ 
01089         );
01090 
01091 
01100 #define
01101     emberAfFillCommandScenesClusterEnhancedAddSceneResponse(status,groupId,sceneId) \
01102         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
01103             ZCL_SCENES_CLUSTER_ID,\ 
01104             ZCL_ENHANCED_ADD_SCENE_RESPONSE_COMMAND_ID,\ 
01105             "uvu",\ 
01106             status,\ 
01107             groupId,\ 
01108             sceneId\ 
01109         );
01110 
01111 
01123 #define
01124     emberAfFillCommandScenesClusterEnhancedViewSceneResponse(status,groupId,sceneId,transitionTime,sceneName,extensionFieldSets,extensionFieldSetsLen) \
01125         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
01126             ZCL_SCENES_CLUSTER_ID,\ 
01127             ZCL_ENHANCED_VIEW_SCENE_RESPONSE_COMMAND_ID,\ 
01128             "uvuvsb",\ 
01129             status,\ 
01130             groupId,\ 
01131             sceneId,\ 
01132             transitionTime,\ 
01133             sceneName,\ 
01134             extensionFieldSets,\ 
01135             extensionFieldSetsLen\ 
01136         );
01137 
01138 
01146 #define
01147     emberAfFillCommandScenesClusterCopySceneResponse(status,groupIdFrom,sceneIdFrom) \
01148         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
01149             ZCL_SCENES_CLUSTER_ID,\ 
01150             ZCL_COPY_SCENE_RESPONSE_COMMAND_ID,\ 
01151             "uvu",\ 
01152             status,\ 
01153             groupIdFrom,\ 
01154             sceneIdFrom\ 
01155         );
01156 
01157 
01161 // @@
01167 #define emberAfFillCommandOnOffClusterOff() \
01168     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01169         ZCL_ON_OFF_CLUSTER_ID,\ 
01170         ZCL_OFF_COMMAND_ID,\ 
01171         ""\ 
01172     );
01173 
01174 
01180 #define emberAfFillCommandOnOffClusterOn() \
01181     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01182         ZCL_ON_OFF_CLUSTER_ID,\ 
01183         ZCL_ON_COMMAND_ID,\ 
01184         ""\ 
01185     );
01186 
01187 
01193 #define emberAfFillCommandOnOffClusterToggle() \
01194     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01195         ZCL_ON_OFF_CLUSTER_ID,\ 
01196         ZCL_TOGGLE_COMMAND_ID,\ 
01197         ""\ 
01198     );
01199 
01200 
01208 #define emberAfFillCommandOnOffClusterOffWithEffect(effectId,effectVariant) \
01209

```

```

01210     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01211             ZCL_ON_OFF_CLUSTER_ID, \
01212             ZCL_OFF_WITH_EFFECT_COMMAND_ID, \
01213             "uu", \
01214             effectId, \
01215             effectVariant \
01216         );
01217
01223 #define emberAfFillCommandOnOffClusterOnWithRecallGlobalScene() \
01224     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01225             ZCL_ON_OFF_CLUSTER_ID, \
01226             ZCL_ON_WITH_RECALL_GLOBAL_SCENE_COMMAND_ID, \
01227             "" \
01228         );
01229
01230
01239 #define \
01240     emberAfFillCommandOnOffClusterOnWithTimedOff(onOffControl, onTime, offWaitTime) \
01241     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01242             ZCL_ON_OFF_CLUSTER_ID, \
01243             ZCL_ON_WITH_TIMED_OFF_COMMAND_ID, \
01244             "uvv", \
01245             onOffControl, \
01246             onTime, \
01247             offWaitTime \
01248         );
01249
01256 #define emberAfFillCommandOnOffClusterSampleMfgSpecificOffWithTransition() \
01257     emberAfFillExternalManufacturerSpecificBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01258             ZCL_ON_OFF_CLUSTER_ID, \
01259             0x1002, \
01260             ZCL_SAMPLE_MFG_SPECIFIC_OFF_WITH_TRANSITION_COMMAND_ID, \
01261             "" \
01262         );
01263
01264
01271 #define emberAfFillCommandOnOffClusterSampleMfgSpecificOnWithTransition() \
01272     emberAfFillExternalManufacturerSpecificBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01273             ZCL_ON_OFF_CLUSTER_ID, \
01274             0x1002, \
01275             ZCL_SAMPLE_MFG_SPECIFIC_ON_WITH_TRANSITION_COMMAND_ID, \
01276             "" \
01277         );
01278
01279
01286 #define emberAfFillCommandOnOffClusterSampleMfgSpecificToggleWithTransition() \
01287     emberAfFillExternalManufacturerSpecificBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01288             ZCL_ON_OFF_CLUSTER_ID, \
01289             0x1002, \
01290             ZCL_SAMPLE_MFG_SPECIFIC_TOGGLE_WITH_TRANSITION_COMMAND_ID, \
01291             "" \
01292         );
01293
01294
01299 // @@
01304 // @@
01312 #define emberAfFillCommandLevelControlClusterMoveToLevel(level, transitionTime) \
01313     \
01314     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01315             ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01316             ZCL_MOVE_TO_LEVEL_COMMAND_ID, \
01317             "uv", \
01318             level, \
01319             transitionTime \
01320         );
01321
01329 #define emberAfFillCommandLevelControlClusterMove(moveMode, rate) \
01330

```

```

01331 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01332     ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01333     ZCL_MOVE_COMMAND_ID, \
01334     "uu", \
01335     moveMode, \
01336     rate \
01337     );
01338
01339 #define
01340     emberAfFillCommandLevelControlClusterStep(stepMode,stepSize,transitionTime) \
01341     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01342         ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01343         ZCL_STEP_COMMAND_ID, \
01344         "uuv", \
01345         stepMode, \
01346         stepSize, \
01347         transitionTime \
01348     );
01349
01350 #define emberAfFillCommandLevelControlClusterStop() \
01351     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01352         ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01353         ZCL_STOP_COMMAND_ID, \
01354         "" \
01355     );
01356
01357
01358 #define emberAfFillCommandLevelControlClusterMoveToLevelWithOnOff(level,transitionTime) \
01359     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01360         ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01361         ZCL_MOVE_TO_LEVEL_WITH_ON_OFF_COMMAND_ID, \
01362         "uv", \
01363         level, \
01364         transitionTime \
01365     );
01366
01367
01368 #define emberAfFillCommandLevelControlClusterMoveWithOnOff(moveMode,rate) \
01369     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01370         ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01371         ZCL_MOVE_WITH_ON_OFF_COMMAND_ID, \
01372         "uu", \
01373         moveMode, \
01374         rate \
01375     );
01376
01377
01378 #define emberAfFillCommandLevelControlClusterStepWithOnOff(stepMode,stepSize,transitionTime) \
01379     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01380         ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01381         ZCL_STEP_WITH_ON_OFF_COMMAND_ID, \
01382         "uuv", \
01383         stepMode, \
01384         stepSize, \
01385         transitionTime \
01386     );
01387
01388
01389 #define emberAfFillCommandLevelControlClusterStopWithOnOff() \
01390     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01391         ZCL_LEVEL_CONTROL_CLUSTER_ID, \
01392         ZCL_STOP_WITH_ON_OFF_COMMAND_ID, \
01393         "" \
01394     );
01395
01396
01397 // @@
01398 #define emberAfFillCommandAlarmClusterResetAlarm(alarmCode,clusterId) \
01399     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \

```

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01451             ZCL_ALARM_CLUSTER_ID,\ 
01452             ZCL_RESET_ALARM_COMMAND_ID,\ 
01453             "uv"\ 
01454             alarmCode,\ 
01455             clusterId\ 
01456             );
01457 
01458 
01464 #define emberAfFillCommandAlarmClusterResetAllAlarms() \
01465     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01466                                 ZCL_ALARM_CLUSTER_ID,\ 
01467                                 ZCL_RESET_ALL_ALARMS_COMMAND_ID,\ 
01468                                 ""\ 
01469                                 );
01470 
01471 
01477 #define emberAfFillCommandAlarmClusterGetAlarm() \
01478     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01479                                 ZCL_ALARM_CLUSTER_ID,\ 
01480                                 ZCL_GET_ALARM_COMMAND_ID,\ 
01481                                 ""\ 
01482                                 );
01483 
01484 
01490 #define emberAfFillCommandAlarmClusterResetAlarmLog() \
01491     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01492                                 ZCL_ALARM_CLUSTER_ID,\ 
01493                                 ZCL_RESET_ALARM_LOG_COMMAND_ID,\ 
01494                                 ""\ 
01495                                 );
01496 
01497 
01505 #define emberAfFillCommandAlarmClusterAlarm(alarmCode,clusterId) \
01506     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
01507                                 ZCL_ALARM_CLUSTER_ID,\ 
01508                                 ZCL_ALARM_COMMAND_ID,\ 
01509                                 "uv"\ 
01510                                 alarmCode,\ 
01511                                 clusterId\ 
01512                                 );
01513 
01514 
01524 #define 
01525     emberAfFillCommandAlarmClusterGetAlarmResponse(status,alarmCode,clusterId,timeStamp) \
01526     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
01527                                 ZCL_ALARM_CLUSTER_ID,\ 
01528                                 ZCL_GET_ALARM_RESPONSE_COMMAND_ID,\ 
01529                                 "uuuw"\ 
01530                                 status,\ 
01531                                 alarmCode,\ 
01532                                 clusterId,\ 
01533                                 timeStamp\ 
01534                                 );
01535 
01535 
01540 // @@
01545 // @@
01556 #define 
01557     emberAfFillCommandRssiLocationClusterSetAbsoluteLocation(coordinate1,coordinate2,coordinate3,power,pathLossExponent) \
01558     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
01559                                 ZCL_RSSI_LOCATION_CLUSTER_ID,\ 
01560                                 ZCL_SET_ABSOLUTE_LOCATION_COMMAND_ID,\ 
01561                                 "vvvvv"\ 
01562                                 coordinate1,\ 
01563                                 coordinate2,\ 
01564                                 coordinate3,\ 
01565                                 power,\ 
01566                                 pathLossExponent\ 
01567                                 );
01568 
01569 #define 
01570     emberAfFillCommandRssiLocationClusterSetDeviceConfiguration(power,pathLossExponent,calculationPeriod,numberRssiMeasure
01580

```

```

01581 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01582     ZCL_RSSI_LOCATION_CLUSTER_ID, \
01583     ZCL_SET_DEVICE_CONFIGURATION_COMMAND_ID, \
01584     "vvvvv", \
01585     power, \
01586     pathLossExponent, \
01587     calculationPeriod, \
01588     numberRssiMeasurements, \
01589     reportingPeriod \
01590 );
01591
01592 #define
01593     emberAfFillCommandRssiLocationClusterGetDeviceConfiguration(targetAddress) \
01594     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01595         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01596         ZCL_GET_DEVICE_CONFIGURATION_COMMAND_ID, \
01597         "8", \
01598         targetAddress \
01599 );
01600
01601
01602
01603
01604
01605
01606
01607
01608
01609
01610
01611
01612
01613
01614
01615 #define
01616     emberAfFillCommandRssiLocationClusterGetLocationData(flags,numberResponses,targetAddress) \
01617     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01618         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01619         ZCL_GET_LOCATION_DATA_COMMAND_ID, \
01620         "uu8", \
01621         flags, \
01622         numberResponses, \
01623         targetAddress \
01624 );
01625
01626
01627 #define
01628     emberAfFillCommandRssiLocationClusterRssiResponse(relyingDevice,coordinate1,coordinate2,coordinate3,rssi,numberRssiMe
01629     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01630         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01631         ZCL_RSSI_RESPONSE_COMMAND_ID, \
01632         "8vvuu", \
01633         relyingDevice, \
01634         coordinate1, \
01635         coordinate2, \
01636         coordinate3, \
01637         rssi, \
01638         numberRssiMeasurements \
01639 );
01640
01641
01642
01643
01644
01645
01646
01647
01648
01649
01650
01651
01652
01653
01654
01655
01656
01657
01658
01659 #define
01660     emberAfFillCommandRssiLocationClusterSendPings(targetAddress,numberRssiMeasurements,calculationPeriod) \
01661     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01662         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01663         ZCL_SEND_PINGS_COMMAND_ID, \
01664         "8uv", \
01665         targetAddress, \
01666         numberRssiMeasurements, \
01667         calculationPeriod \
01668 );
01669
01670
01671
01672
01673
01674
01675
01676
01677
01678
01679 #define
01680     emberAfFillCommandRssiLocationClusterAnchorNodeAnnounce(anchorNodeIeeeAddress,coordinate1,coordinate2,coordinate3) \
01681     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01682         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01683         ZCL_ANCHOR_NODE_ANNOUNCE_COMMAND_ID, \
01684         "8vvv", \
01685         anchorNodeIeeeAddress, \
01686         coordinate1, \
01687         coordinate2, \
01688         coordinate3 \
01689 );
01690
01691
01692
01693
01694
01695
01696
01697
01698
01699
01700
01701
01702 #define

```

```

        emberAfFillCommandRssiLocationClusterDeviceConfigurationResponse(status,
power, pathLossExponent, calculationPeriod, numberRssiMeasurements, reportingPeriod) \
01703     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01704         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01705         ZCL_DEVICE_CONFIGURATION_RESPONSE_COMMAND_ID, \
01706         "uvvvuv", \
01707         status, \
01708         power, \
01709         pathLossExponent, \
01710         calculationPeriod, \
01711         numberRssiMeasurements, \
01712         reportingPeriod \
01713     );
01714
01715
01731 #define
01732     emberAfFillCommandRssiLocationClusterLocationDataResponse(status, locatio
nType, coordinate1, coordinate2, coordinate3, power, pathLossExponent, locationMethod, qualityMeasure, locationAge) \
01732     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01733         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01734         ZCL_LOCATION_DATA_RESPONSE_COMMAND_ID, \
01735         "uuvvvvvuuv", \
01736         status, \
01737         locationType, \
01738         coordinate1, \
01739         coordinate2, \
01740         coordinate3, \
01741         power, \
01742         pathLossExponent, \
01743         locationMethod, \
01744         qualityMeasure, \
01745         locationAge \
01746     );
01747
01748
01763 #define
01764     emberAfFillCommandRssiLocationClusterLocationDataNotification(locationTy
pe, coordinate1, coordinate2, coordinate3, power, pathLossExponent, locationMethod, qualityMeasure, locationAge) \
01764     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01765         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01766         ZCL_LOCATION_DATA_NOTIFICATION_COMMAND_ID, \
01767         "uuvvvvvuuv", \
01768         locationType, \
01769         coordinate1, \
01770         coordinate2, \
01771         coordinate3, \
01772         power, \
01773         pathLossExponent, \
01774         locationMethod, \
01775         qualityMeasure, \
01776         locationAge \
01777     );
01778
01779
01791 #define
01792     emberAfFillCommandRssiLocationClusterCompactLocationDataNotification(locationType, coordinate1, coordinate2, coordinate3, \
01792     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01793         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01794         ZCL_COMPACT_LOCATION_DATA_NOTIFICATION_COMMAND_ID, \
01795         "uvvvuv", \
01796         locationType, \
01797         coordinate1, \
01798         coordinate2, \
01799         coordinate3, \
01800         qualityMeasure, \
01801         locationAge \
01802     );
01803
01804
01811 #define emberAfFillCommandRssiLocationClusterRssiPing(locationType) \
01812     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01813         ZCL_RSSI_LOCATION_CLUSTER_ID, \
01814         ZCL_RSSI_PING_COMMAND_ID, \
01815         "u", \
01816         locationType \

```

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01817         );
01818
01819
01820 #define emberAfFillCommandRssiLocationClusterRssiRequest() \
01821     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01822                             ZCL_RSSI_LOCATION_CLUSTER_ID, \
01823                             ZCL_RSSI_REQUEST_COMMAND_ID, \
01824                             "" \
01825                             );
01826
01827
01828
01829
01830
01831
01832
01833
01834
01835
01836
01837
01838
01839
01840
01841
01842 #define
01843     emberAfFillCommandRssiLocationClusterReportRssiMeasurements(measuringDevice,neighbors,neighborsInfo,neighborsInfoLen)
01844     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01845                             ZCL_RSSI_LOCATION_CLUSTER_ID, \
01846                             ZCL_REPORT_RSSI_MEASUREMENTS_COMMAND_ID, \
01847                             "8ub", \
01848                             measuringDevice, \
01849                             neighbors, \
01850                             neighborsInfo, \
01851                             neighborsInfoLen \
01852                             );
01853
01854
01855
01856
01857
01858
01859
01860 #define emberAfFillCommandRssiLocationClusterRequestOwnLocation(blindNode) \
01861     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01862                             ZCL_RSSI_LOCATION_CLUSTER_ID, \
01863                             ZCL_REQUEST_OWN_LOCATION_COMMAND_ID, \
01864                             "8", \
01865                             blindNode \
01866                             );
01867
01868
01869
01870
01871
01872 // @@
01873 // @@
01874 #define
01875     emberAfFillCommandCommissioningClusterRestartDevice(options,delay,jitter) \
01876     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01877                             ZCL_COMMISSIONING_CLUSTER_ID, \
01878                             ZCL_RESTART_DEVICE_COMMAND_ID, \
01879                             "uuu", \
01880                             options, \
01881                             delay, \
01882                             jitter \
01883                             );
01884
01885
01886
01887
01888
01889
01890
01891
01892
01893
01894
01895
01896
01897
01898
01899
01900
01901
01902
01903
01904
01905 #define
01906     emberAfFillCommandCommissioningClusterSaveStartupParameters(options,index) \
01907     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01908                             ZCL_COMMISSIONING_CLUSTER_ID, \
01909                             ZCL_SAVE_STARTUP_PARAMETERS_COMMAND_ID, \
01910                             "uu", \
01911                             options, \
01912                             index \
01913                             );
01914
01915
01916
01917
01918
01919
01920
01921
01922 #define
01923     emberAfFillCommandCommissioningClusterRestoreStartupParameters(options,index) \
01924     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01925                             ZCL_COMMISSIONING_CLUSTER_ID, \
01926                             ZCL_RESTORE_STARTUP_PARAMETERS_COMMAND_ID, \
01927                             "uu", \
01928                             options, \
01929                             index \
01930                             );
01931
01932
01933
01934
01935
01936
01937
01938
01939 #define
01940     emberAfFillCommandCommissioningClusterResetStartupParameters(options,index) \
01941     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
01942                             ZCL_COMMISSIONING_CLUSTER_ID, \

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01942     ZCL_RESET_STARTUP_PARAMETERS_COMMAND_ID, \
01943     "uu", \
01944     options, \
01945     index \
01946     );
01947
01948
01955 #define emberAfFillCommandCommissioningClusterRestartDeviceResponse(status) \
01956     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01957         ZCL_COMMISSIONING_CLUSTER_ID, \
01958         ZCL_RESTART_DEVICE_RESPONSE_COMMAND_ID, \
01959         "u", \
01960         status \
01961     );
01962
01963
01970 #define
01971     emberAfFillCommandCommissioningClusterSaveStartupParametersResponse(status) \
01972     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01973         ZCL_COMMISSIONING_CLUSTER_ID, \
01974         ZCL_SAVE_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID, \
01975         "u", \
01976         status \
01977     );
01978
01985 #define
01986     emberAfFillCommandCommissioningClusterRestoreStartupParametersResponse(status) \
01987     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
01988         ZCL_COMMISSIONING_CLUSTER_ID, \
01989         ZCL_RESTORE_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID,
01990         "u", \
01991         status \
01992     );
01993
02000 #define
02001     emberAfFillCommandCommissioningClusterResetStartupParametersResponse(status) \
02002     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02003         ZCL_COMMISSIONING_CLUSTER_ID, \
02004         ZCL_RESET_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID, \
02005         "u", \
02006         status \
02007     );
02008
02013 // @{
02018 // @@
02023 // @@
02031 #define emberAfFillCommandThermostatClusterSetpointRaiseLower(mode,amount) \
02032     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02033         ZCL_THERMOSTAT_CLUSTER_ID, \
02034         ZCL_SETPOINT_RAISE_LOWER_COMMAND_ID, \
02035         "uu", \
02036         mode, \
02037         amount \
02038     );
02039
02040
02051 #define
02052     emberAfFillCommandThermostatClusterSetWeeklySchedule(numberOfTransitionsForSequence,dayOfWeekForSequence,modeForSeque
02053     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02054         ZCL_THERMOSTAT_CLUSTER_ID, \
02055         ZCL_SET_WEEKLY_SCHEDULE_COMMAND_ID, \
02056         "uuub", \
02057         numberOfTransitionsForSequence, \
02058         dayOfWeekForSequence, \
02059         modeForSequence, \
02060         payload, \
02061         payloadLen \
02062     );
02063

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02071 #define
02072     emberAfFillCommandThermostatClusterGetWeeklySchedule(daysToReturn, modeToReturn) \
02073     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02074                                     ZCL_THERMOSTAT_CLUSTER_ID,\ \
02075                                     ZCL_GET_WEEKLY_SCHEDULE_COMMAND_ID,\ \
02076                                     "uu", \
02077                                     daysToReturn, \
02078                                     modeToReturn\
02079                                     );
02080
02086 #define emberAfFillCommandThermostatClusterClearWeeklySchedule() \
02087     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02088                                     ZCL_THERMOSTAT_CLUSTER_ID,\ \
02089                                     ZCL_CLEAR_WEEKLY_SCHEDULE_COMMAND_ID,\ \
02090                                     ""\
02091                                     );
02092
02093
02099 #define emberAfFillCommandThermostatClusterGetRelayStatusLog() \
02100     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02101                                     ZCL_THERMOSTAT_CLUSTER_ID,\ \
02102                                     ZCL_GET_RELAY_STATUS_LOG_COMMAND_ID,\ \
02103                                     ""\
02104                                     );
02105
02106
02117 #define
02118     emberAfFillCommandThermostatClusterCurrentWeeklySchedule(numberOfTransitionsForSequence, dayOfWeekForSequence, modeForSe
02119     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02120                                     ZCL_THERMOSTAT_CLUSTER_ID,\ \
02121                                     ZCL_CURRENT_WEEKLY_SCHEDULE_COMMAND_ID,\ \
02122                                     "uuub", \
02123                                     numberOfTransitionsForSequence, \
02124                                     dayOfWeekForSequence, \
02125                                     modeForSequence, \
02126                                     payload, \
02127                                     payloadLen\
02128                                     );
02129
02141 #define
02142     emberAfFillCommandThermostatClusterRelayStatusLog(timeOfDay, relayStatus, localTemperature, humidityInPercentage, setpoint
02143     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02144                                     ZCL_THERMOSTAT_CLUSTER_ID,\ \
02145                                     ZCL_RELAY_STATUS_LOG_COMMAND_ID,\ \
02146                                     "vvvvvu", \
02147                                     timeOfDay, \
02148                                     relayStatus, \
02149                                     localTemperature, \
02150                                     humidityInPercentage, \
02151                                     setpoint, \
02152                                     unreadEntries\
02153                                     );
02154
02159 // @@
02164 // @@
02169 // @@
02174 // @@
02183 #define
02184     emberAfFillCommandColorControlClusterMoveToHue(hue, direction, transitionTime) \
02185     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02186                                     ZCL_COLOR_CONTROL_CLUSTER_ID,\ \
02187                                     ZCL_MOVE_TO_HUE_COMMAND_ID,\ \
02188                                     "uuv", \
02189                                     hue, \
02190                                     direction, \
02191                                     transitionTime\
02192                                     );
02193
02201 #define emberAfFillCommandColorControlClusterMoveHue(moveMode, rate) \
02202

```

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02203 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02204     ZCL_COLOR_CONTROL_CLUSTER_ID, \
02205     ZCL_MOVE_HUE_COMMAND_ID, \
02206     "uu", \
02207     moveMode, \
02208     rate \
02209     );
02210
02219 #define
02220     emberAfFillCommandColorControlClusterStepHue(stepMode,stepSize,transitionTime) \
02221     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02222         ZCL_COLOR_CONTROL_CLUSTER_ID, \
02223         ZCL_STEP_HUE_COMMAND_ID, \
02224         "uuu", \
02225         stepMode, \
02226         stepSize, \
02227         transitionTime \
02228     );
02229
02237 #define
02238     emberAfFillCommandColorControlClusterMoveToSaturation(saturation,transitionTime) \
02239     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02240         ZCL_COLOR_CONTROL_CLUSTER_ID, \
02241         ZCL_MOVE_TO_SATURATION_COMMAND_ID, \
02242         "uv", \
02243         saturation, \
02244         transitionTime \
02245     );
02246
02254 #define emberAfFillCommandColorControlClusterMoveSaturation(moveMode,rate) \
02255     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02256         ZCL_COLOR_CONTROL_CLUSTER_ID, \
02257         ZCL_MOVE_SATURATION_COMMAND_ID, \
02258         "uu", \
02259         moveMode, \
02260         rate \
02261     );
02262
02263
02272 #define
02273     emberAfFillCommandColorControlClusterStepSaturation(stepMode,stepSize,transitionTime) \
02274     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02275         ZCL_COLOR_CONTROL_CLUSTER_ID, \
02276         ZCL_STEP_SATURATION_COMMAND_ID, \
02277         "uuu", \
02278         stepMode, \
02279         stepSize, \
02280         transitionTime \
02281     );
02282
02291 #define
02292     emberAfFillCommandColorControlClusterMoveToHueAndSaturation(hue,saturation,transitionTime) \
02293     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02294         ZCL_COLOR_CONTROL_CLUSTER_ID, \
02295         ZCL_MOVE_TO_HUE_AND_SATURATION_COMMAND_ID, \
02296         "uuv", \
02297         hue, \
02298         saturation, \
02299         transitionTime \
02300     );
02301
02310 #define
02311     emberAfFillCommandColorControlClusterMoveToColor(colorX,colorY,transitionTime) \
02312     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02313         ZCL_COLOR_CONTROL_CLUSTER_ID, \
02314         ZCL_MOVE_TO_COLOR_COMMAND_ID, \
02315         "vvv", \
02316         colorX, \
02317         colorY, \
02318     );

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02317             transitionTime\
02318         );
02319
02320
02328 #define emberAfFillCommandColorControlClusterMoveColor(rateX,rateY) \
02329     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
02330                             ZCL_COLOR_CONTROL_CLUSTER_ID,\n
02331                             ZCL_MOVE_COLOR_COMMAND_ID,\n
02332                             "vv",\n
02333                             rateX,\n
02334                             rateY\n
02335         );
02336
02337
02346 #define
02347     emberAfFillCommandColorControlClusterStepColor(stepX,stepY,transitionTime) \
02348     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
02349                             ZCL_COLOR_CONTROL_CLUSTER_ID,\n
02350                             ZCL_STEP_COLOR_COMMAND_ID,\n
02351                             "vvv",\n
02352                             stepX,\n
02353                             stepY,\n
02354                             transitionTime\n
02355         );
02356
02364 #define
02365     emberAfFillCommandColorControlClusterMoveToColorTemperature(colorTemperature,transitionTime) \
02366     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
02367                             ZCL_COLOR_CONTROL_CLUSTER_ID,\n
02368                             ZCL_MOVE_TO_COLOR_TEMPERATURE_COMMAND_ID,\n
02369                             "vv",\n
02370                             colorTemperature,\n
02371                             transitionTime\n
02372         );
02373
02382 #define
02383     emberAfFillCommandColorControlClusterEnhancedMoveToHue(enhancedHue,direction,transitionTime) \
02384     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
02385                             ZCL_COLOR_CONTROL_CLUSTER_ID,\n
02386                             ZCL_ENHANCED_MOVE_TO_HUE_COMMAND_ID,\n
02387                             "vuv",\n
02388                             enhancedHue,\n
02389                             direction,\n
02390                             transitionTime\n
02391         );
02392
02400 #define emberAfFillCommandColorControlClusterEnhancedMoveHue(moveMode,rate) \
02401     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
02402                             ZCL_COLOR_CONTROL_CLUSTER_ID,\n
02403                             ZCL_ENHANCED_MOVE_HUE_COMMAND_ID,\n
02404                             "uv",\n
02405                             moveMode,\n
02406                             rate\n
02407         );
02408
02409
02418 #define
02419     emberAfFillCommandColorControlClusterEnhancedStepHue(stepMode,stepSize,transitionTime) \
02420     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
02421                             ZCL_COLOR_CONTROL_CLUSTER_ID,\n
02422                             ZCL_ENHANCED_STEP_HUE_COMMAND_ID,\n
02423                             "uvv",\n
02424                             stepMode,\n
02425                             stepSize,\n
02426                             transitionTime\n
02427         );
02428
02437 #define
02438     emberAfFillCommandColorControlClusterEnhancedMoveToHueAndSaturation(enhancedHue,saturation,transitionTime) \
02439

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02439 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02440                               ZCL_COLOR_CONTROL_CLUSTER_ID, \
02441                               ZCL_ENHANCED_MOVE_TO_HUE_AND_SATURATION_COMMAND_ID,
02442                               "vuv", \
02443                               enhancedHue, \
02444                               saturation, \
02445                               transitionTime \
02446                               );
02447
02448 #define
02449   emberAfFillCommandColorControlClusterColorLoopSet(updateFlags,action,direction,time,startHue) \
02450   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02451                             ZCL_COLOR_CONTROL_CLUSTER_ID, \
02452                             ZCL_COLOR_LOOP_SET_COMMAND_ID, \
02453                             "uuuvv", \
02454                             updateFlags, \
02455                             action, \
02456                             direction, \
02457                             time, \
02458                             startHue \
02459                             );
02460
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02470
02471 #define emberAfFillCommandColorControlClusterStopMoveStep() \
02472
02473   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02474                             ZCL_COLOR_CONTROL_CLUSTER_ID, \
02475                             ZCL_STOP_MOVE_STEP_COMMAND_ID, \
02476                             "" \
02477                             );
02478
02479
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02483
02484 #define
02485   emberAfFillCommandColorControlClusterMoveColorTemperature(moveMode,rate,colorTemperatureMinimum,colorTemperatureMaximum)
02486
02487   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02488                             ZCL_COLOR_CONTROL_CLUSTER_ID, \
02489                             ZCL_MOVE_COLOR_TEMPERATURE_COMMAND_ID, \
02490                             "uvvv", \
02491                             moveMode, \
02492                             rate, \
02493                             colorTemperatureMinimum, \
02494                             colorTemperatureMaximum \
02495                             );
02496
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02504
02505 #define
02506   emberAfFillCommandColorControlClusterStepColorTemperature(stepMode,stepSize,transitionTime,colorTemperatureMinimum,colorTemperatureMaximum)
02507
02508   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02509                             ZCL_COLOR_CONTROL_CLUSTER_ID, \
02510                             ZCL_STEP_COLOR_TEMPERATURE_COMMAND_ID, \
02511                             "uvvvv", \
02512                             stepMode, \
02513                             stepSize, \
02514                             transitionTime, \
02515                             colorTemperatureMinimum, \
02516                             colorTemperatureMaximum \
02517                             );
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02547 // @@
02548 // @@
02549 #define
02550   emberAfFillCommandIasZoneClusterZoneEnrollResponse(enrollResponseCode,zoneId) \
02551
02552   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02553                             ZCL_IAS_ZONE_CLUSTER_ID, \
02554                             ZCL_ZONE_ENROLL_RESPONSE_COMMAND_ID, \
02555                             "uu", \
02556                             );
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02585             enrollResponseCode, \
02586             zoneId\
02587         );
02588
02589 #define
02590     emberAfFillCommandIasZoneClusterZoneStatusChangeNotification(zoneStatus,extendedStatus) \
02591     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02592                             ZCL_IAS_ZONE_CLUSTER_ID,\ \
02593                             ZCL_ZONE_STATUS_CHANGE_NOTIFICATION_COMMAND_ID,\ \
02594                             "vu", \
02595                             zoneStatus, \
02596                             extendedStatus\
02597                         );
02598
02599 #define
02600     emberAfFillCommandIasZoneClusterZoneEnrollRequest(zoneType,manufacturerCode) \
02601     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02602                             ZCL_IAS_ZONE_CLUSTER_ID,\ \
02603                             ZCL_ZONE_ENROLL_REQUEST_COMMAND_ID,\ \
02604                             "vv", \
02605                             zoneType, \
02606                             manufacturerCode\
02607                         );
02608
02609 // @@
02610 #define emberAfFillCommandIasAceClusterArm(armMode) \
02611     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02612                             ZCL_IAS_ACE_CLUSTER_ID,\ \
02613                             ZCL_ARM_COMMAND_ID,\ \
02614                             "u", \
02615                             armMode\
02616                         );
02617
02618 #define emberAfFillCommandIasAceClusterBypass(numberOfZones,zoneIds,zoneIdsLen)
02619     \
02620     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02621                             ZCL_IAS_ACE_CLUSTER_ID,\ \
02622                             ZCL_BYPASS_COMMAND_ID,\ \
02623                             "ub", \
02624                             numberOfZones, \
02625                             zoneIds, \
02626                             zoneIdsLen\
02627                         );
02628
02629 #define emberAfFillCommandIasAceClusterEmergency() \
02630     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02631                             ZCL_IAS_ACE_CLUSTER_ID,\ \
02632                             ZCL_EMERGENCY_COMMAND_ID,\ \
02633                             ""\
02634                         );
02635
02636 #define emberAfFillCommandIasAceClusterFire() \
02637     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02638                             ZCL_IAS_ACE_CLUSTER_ID,\ \
02639                             ZCL_FIRE_COMMAND_ID,\ \
02640                             ""\
02641                         );
02642
02643
02644 #define emberAfFillCommandIasAceClusterPanic() \
02645     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02646                             ZCL_IAS_ACE_CLUSTER_ID,\ \
02647                             ZCL_PANIC_COMMAND_ID,\ \
02648                             ""\
02649                         );
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02707 #define emberAfFillCommandIasAceClusterGetZoneIdMap() \
02708     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02709         ZCL_IAS_ACE_CLUSTER_ID, \
02710         ZCL_GET_ZONE_ID_MAP_COMMAND_ID, \
02711         ""); \
02712     ); \
02713 \
02714 \
02715 #define emberAfFillCommandIasAceClusterGetZoneInformation(zoneId) \
02716     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02717         ZCL_IAS_ACE_CLUSTER_ID, \
02718         ZCL_GET_ZONE_INFORMATION_COMMAND_ID, \
02719         "u", \
02720         zoneId, \
02721         ); \
02722 \
02723 \
02724 #define emberAfFillCommandIasAceClusterArmResponse(armNotification) \
02725     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02726         ZCL_IAS_ACE_CLUSTER_ID, \
02727         ZCL_ARM_RESPONSE_COMMAND_ID, \
02728         "u", \
02729         armNotification, \
02730         ); \
02731 \
02732 \
02733 #define \
02734     emberAfFillCommandIasAceClusterGetZoneIdMapResponse(section0,section1,se \
02735 ction2,section3,section4,section5,section6,section7,section8,section9,section10,section11,section12,section13,section14 \
02736 \
02737     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02738         ZCL_IAS_ACE_CLUSTER_ID, \
02739         ZCL_GET_ZONE_ID_MAP_RESPONSE_COMMAND_ID, \
02740         "vvvvvvvvvvvvvvvv", \
02741         section0, \
02742         section1, \
02743         section2, \
02744         section3, \
02745         section4, \
02746         section5, \
02747         section6, \
02748         section7, \
02749         section8, \
02750         section9, \
02751         section10, \
02752         section11, \
02753         section12, \
02754         section13, \
02755         section14, \
02756         section15, \
02757         ); \
02758 \
02759 \
02760 #define \
02761     emberAfFillCommandIasAceClusterGetZoneInformationResponse(zoneId,zoneType,ieeeAddress) \
02762 \
02763     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02764         ZCL_IAS_ACE_CLUSTER_ID, \
02765         ZCL_GET_ZONE_INFORMATION_RESPONSE_COMMAND_ID, \
02766         "uv8", \
02767         zoneId, \
02768         zoneType, \
02769         ieeeAddress, \
02770         ); \
02771 \
02772 \
02773 // @{ \
02774 #define emberAfFillCommandIasWdClusterStartWarning(warningInfo,warningDuration) \
02775     \
02776     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02777         ZCL_IAS_WD_CLUSTER_ID, \
02778         ZCL_START_WARNING_COMMAND_ID, \
02779         "uv", \
02780         warningInfo, \
02781         warningDuration, \
02782         ); \
02783 \
02784 \
02785 
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02829
02830
02837 #define emberAfFillCommandIasWdClusterSquawk(squawkInfo) \
02838     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02839         ZCL_IAS_WD_CLUSTER_ID,\ \
02840         ZCL_SQUAWK_COMMAND_ID,\ \
02841         "u",\ \
02842         squawkInfo\
02843         );
02844
02845
02850 // @{
02856 #define emberAfFillCommandDoorLockClusterLockDoor() \
02857     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02858         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02859         ZCL_LOCK_DOOR_COMMAND_ID,\ \
02860         ""\
02861         );
02862
02863
02869 #define emberAfFillCommandDoorLockClusterUnlockDoor() \
02870     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02871         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02872         ZCL_UNLOCK_DOOR_COMMAND_ID,\ \
02873         ""\
02874         );
02875
02876
02883 #define emberAfFillCommandDoorLockClusterLockDoorResponse(status) \
02884     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02885         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02886         ZCL_LOCK_DOOR_RESPONSE_COMMAND_ID,\ \
02887         "u",\ \
02888         status\
02889         );
02890
02891
02898 #define emberAfFillCommandDoorLockClusterUnlockDoorResponse(status) \
02899     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
02900         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02901         ZCL_UNLOCK_DOOR_RESPONSE_COMMAND_ID,\ \
02902         "u",\ \
02903         status\
02904         );
02905
02906
02912 #define emberAfFillCommandDoorLockClusterGetLockStatus() \
02913     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02914         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02915         ZCL_GET_LOCK_STATUS_COMMAND_ID,\ \
02916         ""\
02917         );
02918
02919
02926 #define emberAfFillCommandDoorLockClusterUnlockWithTimeout(timeoutInSeconds) \
02927     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02928         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02929         ZCL_UNLOCK_WITH_TIMEOUT_COMMAND_ID,\ \
02930         "u",\ \
02931         timeoutInSeconds\
02932         );
02933
02934
02940 #define emberAfFillCommandDoorLockClusterGetBatteryLevel() \
02941     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02942         ZCL_DOOR_LOCK_CLUSTER_ID,\ \
02943         ZCL_GET_BATTERYLEVEL_COMMAND_ID,\ \
02944         ""\
02945         );
02946
02947
02956 #define

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02957 emberAfFillCommandDoorLockClusterSetRfLockoutTime(dayOfWeek, startTimeInMinutesAfterMidnight, stopTimeInMinutesAfterMidnight)
02958 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02959                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
02960                                     ZCL_SET_RF_LOCKOUT_TIME_COMMAND_ID, \
02961                                     "uvv", \
02962                                     dayOfWeek, \
02963                                     startTimeInMinutesAfterMidnight, \
02964                                     stopTimeInMinutesAfterMidnight \
02965                                     );
02966
02973 #define emberAfFillCommandDoorLockClusterGetRfLockoutTime(dayOfWeek) \
02974     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02975                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
02976                                     ZCL_GET_RF_LOCKOUT_TIME_COMMAND_ID, \
02977                                     "u", \
02978                                     dayOfWeek \
02979                                     );
02980
02981
02988 #define emberAfFillCommandDoorLockClusterGetLogRecord(logNumber) \
02989     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
02990                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
02991                                     ZCL_GET_LOG_RECORD_COMMAND_ID, \
02992                                     "v", \
02993                                     logNumber \
02994                                     );
02995
02996
03005 #define emberAfFillCommandDoorLockClusterUserCodeSet(userId, userStatus, code) \
03006     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03007                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
03008                                     ZCL_USER_CODE_SET_COMMAND_ID, \
03009                                     "uus", \
03010                                     userId, \
03011                                     userStatus, \
03012                                     code \
03013                                     );
03014
03015
03022 #define emberAfFillCommandDoorLockClusterUserCodeGet(userId) \
03023     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03024                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
03025                                     ZCL_USER_CODE_GET_COMMAND_ID, \
03026                                     "u", \
03027                                     userId \
03028                                     );
03029
03030
03037 #define emberAfFillCommandDoorLockClusterUserCodeClear(userId) \
03038     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03039                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
03040                                     ZCL_USER_CODE_CLEAR_COMMAND_ID, \
03041                                     "u", \
03042                                     userId \
03043                                     );
03044
03045
03051 #define emberAfFillCommandDoorLockClusterClearAllUserCodes() \
03052     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03053                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
03054                                     ZCL_CLEAR_ALL_USER_CODES_COMMAND_ID, \
03055                                     "" \
03056                                     );
03057
03058
03066 #define emberAfFillCommandDoorLockClusterSetUserCodeStatus(userId, userStatus) \
03067     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03068                                     ZCL_DOOR_LOCK_CLUSTER_ID, \
03069                                     ZCL_SET_USER_CODE_STATUS_COMMAND_ID, \
03070                                     "uu", \
03071                                     userId, \

```

```

03072             userStatus\
03073         );
03074
03075
03082 #define emberAfFillCommandDoorLockClusterGetUserCodeStatus(userId) \
03083     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03084                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \
03085                             ZCL_GET_USER_CODE_STATUS_COMMAND_ID,\ \
03086                             "u", \
03087                             userId\
03088         );
03089
03090
03096 #define emberAfFillCommandDoorLockClusterGetLastUserIdEntered() \
03097     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03098                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \
03099                             ZCL_GET_LAST_USER_ID_ENTERED_COMMAND_ID,\ \
03100                             ""\
03101         );
03102
03103
03116 #define
03117     emberAfFillCommandDoorLockClusterSetScheduleSlot(slotNumber,userId,daysMask,startHour,startMinute,durationHour,duration\
03118     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03119                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \
03120                             ZCL_SET_SCHEDULE_SLOT_COMMAND_ID,\ \
03121                             "uuuuuuu", \
03122                             slotNumber, \
03123                             userId, \
03124                             daysMask, \
03125                             startHour, \
03126                             startMinute, \
03127                             durationHour, \
03128                             durationMinute\
03129         );
03130
03138 #define emberAfFillCommandDoorLockClusterGetScheduleSlot(slotNumber,userId) \
03139     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03140                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \
03141                             ZCL_GET_SCHEDULE_SLOT_COMMAND_ID,\ \
03142                             "uu", \
03143                             slotNumber, \
03144                             userId\
03145         );
03146
03147
03156 #define
03157     emberAfFillCommandDoorLockClusterSetScheduleSlotStatus(slotNumber,userId,status) \
03158     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03159                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \
03160                             ZCL_SET_SCHEDULE_SLOT_STATUS_COMMAND_ID,\ \
03161                             "uuu", \
03162                             slotNumber, \
03163                             userId, \
03164                             status\
03165         );
03166
03174 #define emberAfFillCommandDoorLockClusterSetIndicator(indicatorNumber,state) \
03175     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03176                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \
03177                             ZCL_SET_INDICATOR_COMMAND_ID,\ \
03178                             "uu", \
03179                             indicatorNumber, \
03180                             state\
03181         );
03182
03183
03193 #define
03194     emberAfFillCommandDoorLockClusterGetLockStatusResponse(lockMode,boltCondition,handleCondition,relockTimeout) \
03195     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03196                             ZCL_DOOR_LOCK_CLUSTER_ID,\ \

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03196     ZCL_GET_LOCK_STATUS_RESPONSE_COMMAND_ID, \
03197     "uuuu", \
03198     lockMode, \
03199     boltCondition, \
03200     handleCondition, \
03201     relockTimeout \
03202   );
03203
03204
03211 #define emberAfFillCommandDoorLockClusterUnlockWithTimeoutResponse(status) \
03212   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03213     ZCL_DOOR_LOCK_CLUSTER_ID, \
03214     ZCL_UNLOCK_WITH_TIMEOUT_RESPONSE_COMMAND_ID, \
03215     "u", \
03216     status \
03217   );
03218
03219
03226 #define emberAfFillCommandDoorLockClusterGetBatteryLevelResponse(batteryLevel) \
03227 \
03228   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03229     ZCL_DOOR_LOCK_CLUSTER_ID, \
03230     ZCL_GET_BATTERY_LEVEL_RESPONSE_COMMAND_ID, \
03231     "u", \
03232     batteryLevel \
03233   );
03234
03241 #define emberAfFillCommandDoorLockClusterSetRfLockoutTimeResponse(status) \
03242   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03243     ZCL_DOOR_LOCK_CLUSTER_ID, \
03244     ZCL_SET_RF_LOCKOUT_TIME_RESPONSE_COMMAND_ID, \
03245     "u", \
03246     status \
03247   );
03248
03249
03258 #define
03259   emberAfFillCommandDoorLockClusterGetRfLockoutTimeResponse(dayOfWeek, startTimeInMinutesAfterMidnight, stopTimeInMinutesA
03260
03261   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03262     ZCL_DOOR_LOCK_CLUSTER_ID, \
03263     ZCL_GET_RF_LOCKOUT_TIME_RESPONSE_COMMAND_ID, \
03264     "uvv", \
03265     dayOfWeek, \
03266     startTimeInMinutesAfterMidnight, \
03267     stopTimeInMinutesAfterMidnight \
03268   );
03269
03278 #define
03279   emberAfFillCommandDoorLockClusterGetLogRecordResponse(logEntryId, timestamp, eventType, userId) \
03280   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03281     ZCL_DOOR_LOCK_CLUSTER_ID, \
03282     ZCL_GET_LOG_RECORD_RESPONSE_COMMAND_ID, \
03283     "vwuu", \
03284     logEntryId, \
03285     timestamp, \
03286     eventType, \
03287     userId \
03288   );
03289
03296 #define emberAfFillCommandDoorLockClusterUserCodeSetResponse(status) \
03297   emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03298     ZCL_DOOR_LOCK_CLUSTER_ID, \
03299     ZCL_USER_CODE_SET_RESPONSE_COMMAND_ID, \
03300     "u", \
03301     status \
03302   );
03303
03304
03313 #define
03314   emberAfFillCommandDoorLockClusterUserCodeGetResponse(userId, userStatus, code) \

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03315 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03316     ZCL_DOOR_LOCK_CLUSTER_ID, \
03317     ZCL_USER_CODE_GET_RESPONSE_COMMAND_ID, \
03318     "uus", \
03319     userId, \
03320     userStatus, \
03321     code \
03322 );
03323
03324
03325 #define emberAfFillCommandDoorLockClusterUserCodeClearResponse(status) \
03326     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03327         ZCL_DOOR_LOCK_CLUSTER_ID, \
03328         ZCL_USER_CODE_CLEAR_RESPONSE_COMMAND_ID, \
03329         "u", \
03330         status \
03331 );
03332
03333
03334
03335
03336
03337
03338
03339 #define emberAfFillCommandDoorLockClusterClearAllUserCodeResponse(status) \
03340     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03341         ZCL_DOOR_LOCK_CLUSTER_ID, \
03342         ZCL_CLEAR_ALL_USER_CODES_RESPONSE_COMMAND_ID, \
03343         "u", \
03344         status \
03345 );
03346
03347
03348
03349
03350
03351
03352
03353
03354 #define emberAfFillCommandDoorLockClusterSetUserCodeStatusResponse(status) \
03355     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03356         ZCL_DOOR_LOCK_CLUSTER_ID, \
03357         ZCL_SET_USER_CODE_STATUS_RESPONSE_COMMAND_ID, \
03358         "u", \
03359         status \
03360 );
03361
03362
03363
03364
03365
03366
03367
03368
03369 #define
03370     emberAfFillCommandDoorLockClusterGetUserCodeStatusResponse(userId, userStatus) \
03371     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03372         ZCL_DOOR_LOCK_CLUSTER_ID, \
03373         ZCL_GET_USER_CODE_STATUS_RESPONSE_COMMAND_ID, \
03374         "uu", \
03375         userId, \
03376         userStatus \
03377 );
03378
03379
03380
03381
03382
03383
03384
03385
03386 #define
03387     emberAfFillCommandDoorLockClusterGetLastUserIdEnteredResponse(userId, reason) \
03388     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03389         ZCL_DOOR_LOCK_CLUSTER_ID, \
03390         ZCL_GET_LAST_USER_ID_ENTERED_RESPONSE_COMMAND_ID, \
03391         "uu", \
03392         userId, \
03393         reason \
03394 );
03395
03396
03397
03398
03399
03400
03401
03402
03403 #define emberAfFillCommandDoorLockClusterUserAdded(userId, userStatus, code) \
03404     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03405         ZCL_DOOR_LOCK_CLUSTER_ID, \
03406         ZCL_USER_ADDED_COMMAND_ID, \
03407         "uus", \
03408         userId, \
03409         userStatus, \
03410         code \
03411 );
03412
03413
03414
03415
03416
03417
03418
03419
03420
03421
03422 #define emberAfFillCommandDoorLockClusterUserDeleted(userId) \
03423     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03424         ZCL_DOOR_LOCK_CLUSTER_ID, \
03425

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```

03431     ZCL_USER_DELETED_COMMAND_ID,\n
03432     "u",\\
03433     userId\\
03434     );
03435
03436
03443 #define emberAfFillCommandDoorLockClusterSetScheduleSlotResponse(status) \
03444     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03445             ZCL_DOOR_LOCK_CLUSTER_ID, \
03446             ZCL_SET_SCHEDULE_SLOT_RESPONSE_COMMAND_ID, \
03447             "u", \
03448             status\\
03449             );
03450
03451
03464 #define
03465     emberAfFillCommandDoorLockClusterGetScheduleSlotResponse(slotNumber,userId,daysMask,startHour,startMinute,durationHour
03466     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03467             ZCL_DOOR_LOCK_CLUSTER_ID, \
03468             ZCL_GET_SCHEDULE_SLOT_RESPONSE_COMMAND_ID, \
03469             "uuuuuu", \
03470             slotNumber, \
03471             userId, \
03472             daysMask, \
03473             startHour, \
03474             startMinute, \
03475             durationHour, \
03476             durationMinute\\
03477             );
03478
03485 #define emberAfFillCommandDoorLockClusterSetScheduleSlotStatusResponse(status)
03486     \
03487     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03488             ZCL_DOOR_LOCK_CLUSTER_ID, \
03489             ZCL_SET_SCHEDULE_SLOT_STATUS_RESPONSE_COMMAND_ID, \
03490             "u", \
03491             status\\
03492
03493
03498 // @{
03504 #define emberAfFillCommandWindowCoveringClusterWindowCoveringUpOpen() \
03505     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03506             ZCL_WINDOW_COVERING_CLUSTER_ID, \
03507             ZCL_WINDOW_COVERING_UP_OPEN_COMMAND_ID, \
03508             ""\\
03509             );
03510
03511
03517 #define emberAfFillCommandWindowCoveringClusterWindowCoveringDownClose() \
03518     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03519             ZCL_WINDOW_COVERING_CLUSTER_ID, \
03520             ZCL_WINDOW_COVERING_DOWN_CLOSE_COMMAND_ID, \
03521             ""\\
03522             );
03523
03524
03530 #define emberAfFillCommandWindowCoveringClusterWindowCoveringStop() \
03531     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03532             ZCL_WINDOW_COVERING_CLUSTER_ID, \
03533             ZCL_WINDOW_COVERING_STOP_COMMAND_ID, \
03534             ""\\
03535             );
03536
03537
03544 #define
03545     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftSetpoint(indexOfLiftSetpoint) \
03546     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03547             ZCL_WINDOW_COVERING_CLUSTER_ID, \
03548             ZCL_WINDOW_COVERING_GO_TO_LIFT_SETPOINT_COMMAND_ID,
03549             "u", \

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03549             indexOfLiftSetpoint\
03550             );
03551
03552
03559 #define
03560     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftValue(liftValue) \
03560
03561     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
03562         ZCL_WINDOW_COVERING_CLUSTER_ID,\n
03563         ZCL_WINDOW_COVERING_GO_TO_LIFT_VALUE_COMMAND_ID,\n
03564         "v",\n
03565         liftValue\
03566         );
03567
03568
03574 #define
03575     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToLiftPercentage(percentageLiftValue) \
03575
03576     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
03577         ZCL_WINDOW_COVERING_CLUSTER_ID,\n
03578         ZCL_WINDOW_COVERING_GO_TO_LIFT_PERCENTAGE_COMMAND_ID,\n
03579         "u",\n
03580         percentageLiftValue\
03581         );
03582
03583
03589 #define
03590     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltSetpoint(indexOfTiltSetpoint) \
03590
03591     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
03592         ZCL_WINDOW_COVERING_CLUSTER_ID,\n
03593         ZCL_WINDOW_COVERING_GO_TO_TILT_SETPOINT_COMMAND_ID,
03594         "u",\n
03595         indexOfTiltSetpoint\
03596         );
03597
03604 #define
03605     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltValue(tiltValue) \
03605
03606     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
03607         ZCL_WINDOW_COVERING_CLUSTER_ID,\n
03608         ZCL_WINDOW_COVERING_GO_TO_TILT_VALUE_COMMAND_ID,\n
03609         "v",\n
03610         tiltValue\
03611         );
03612
03613
03619 #define
03620     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToTiltPercentage(percentageTiltValue) \
03620
03621     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
03622         ZCL_WINDOW_COVERING_CLUSTER_ID,\n
03623         ZCL_WINDOW_COVERING_GO_TO_TILT_PERCENTAGE_COMMAND_ID,\n
03624         "u",\n
03625         percentageTiltValue\
03626         );
03627
03636 #define
03637     emberAfFillCommandWindowCoveringClusterWindowCoveringGoToProgramSetpoint(setpointType, setpointIndex, setpointValue) \
03637
03638     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
03639         ZCL_WINDOW_COVERING_CLUSTER_ID,\n
03640         ZCL_WINDOW_COVERING_GO_TO_PROGRAM_SETPOINT_COMMAND_ID,\n
03641         "uuv",\n
03642         setpointType,\n
03643         setpointIndex,\n
03644         setpointValue\
03645         );
03646
03646
03651 // @@
03658 #define
03659     emberAfFillCommandPowerProfileClusterPowerProfileRequest(powerProfileId) \

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03660 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03661     ZCL_POWER_PROFILE_CLUSTER_ID, \
03662     ZCL_POWER_PROFILE_REQUEST_COMMAND_ID, \
03663     "u", \
03664     powerProfileId \
03665 );
03666
03667 #define emberAfFillCommandPowerProfileClusterPowerProfileStateRequest() \
03668     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03669         ZCL_POWER_PROFILE_CLUSTER_ID, \
03670         ZCL_POWER_PROFILE_STATE_REQUEST_COMMAND_ID, \
03671         "" \
03672 );
03673
03674 #define emberAfFillCommandPowerProfileClusterGetPowerProfilePriceResponse(powerProfileId,currency,price,priceTrailingDigit) \
03675     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03676         ZCL_POWER_PROFILE_CLUSTER_ID, \
03677         ZCL_GET_POWER_PROFILE_PRICE_RESPONSE_COMMAND_ID, \
03678         "uvwu", \
03679         powerProfileId, \
03680         currency, \
03681         price, \
03682         priceTrailingDigit \
03683 );
03684
03685 #define \
03686     emberAfFillCommandPowerProfileClusterGetOverallSchedulePriceResponse(currency,price,priceTrailingDigit) \
03687     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03688         ZCL_POWER_PROFILE_CLUSTER_ID, \
03689         ZCL_GET_OVERALL_SCHEDULE_PRICE_RESPONSE_COMMAND_ID, \
03690         \
03691         "vwu", \
03692         currency, \
03693         price, \
03694         priceTrailingDigit \
03695 );
03696
03697 #define \
03698     emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleNotification(powerProfileId,numOfScheduledPhases,scheduledPha
03699
03700 #define \
03701     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03702         ZCL_POWER_PROFILE_CLUSTER_ID, \
03703         ZCL_ENERGY_PHASES_SCHEDULE_NOTIFICATION_COMMAND_ID, \
03704         \
03705         "uub", \
03706         powerProfileId, \
03707         numOfScheduledPhases, \
03708         scheduledPhases, \
03709         scheduledPhasesLen \
03710 );
03711
03712 \
03713         "vuw", \
03714         currency, \
03715         price, \
03716         priceTrailingDigit \
03717 );
03718
03719 #define \
03720     emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleResponse(powerProfileId,numOfScheduledPhases,scheduledPhases,
03721
03722     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03723         ZCL_POWER_PROFILE_CLUSTER_ID, \
03724         ZCL_ENERGY_PHASES_SCHEDULE_RESPONSE_COMMAND_ID, \
03725         "uub", \
03726         powerProfileId, \
03727         numOfScheduledPhases, \
03728         scheduledPhases, \
03729         scheduledPhasesLen \
03730 );
03731
03732 \
03733         "uuu", \
03734         powerProfileId, \
03735         numOfScheduledPhases, \
03736         scheduledPhases, \
03737         scheduledPhasesLen \
03738 );
03739
03740
03741 #define \
03742     emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsRequest(powerProfileId) \
03743
03744     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03745         ZCL_POWER_PROFILE_CLUSTER_ID, \
03746

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```

03772     ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_REQUEST_COMMAND_ID, \
03773             "u", \
03774             powerProfileId \
03775         );
03776
03783 #define
03784     emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateRequest (powerProfileId) \
03785     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
03786         ZCL_POWER_PROFILE_CLUSTER_ID, \
03787         ZCL_ENERGY_PHASES_SCHEDULE_STATE_REQUEST_COMMAND_ID, \
03788             "u", \
03789             powerProfileId \
03790         );
03791
03802 #define
03803     emberAfFillCommandPowerProfileClusterPowerProfileNotification (totalProfi
03804     leNum, powerProfileId, numOfTransferredPhases, transferredPhases, transferredPhasesLen) \
03805     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03806         ZCL_POWER_PROFILE_CLUSTER_ID, \
03807         ZCL_POWER_PROFILE_NOTIFICATION_COMMAND_ID, \
03808             "uuub", \
03809             totalProfileNum, \
03810             powerProfileId, \
03811             numOfTransferredPhases, \
03812             transferredPhases, \
03813             transferredPhasesLen \
03814         );
03814
03825 #define
03826     emberAfFillCommandPowerProfileClusterPowerProfileResponse (totalProfileNum, powerProfileId, numOfTransferredPhases, trans
03827     \f
03828     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03829         ZCL_POWER_PROFILE_CLUSTER_ID, \
03830         ZCL_POWER_PROFILE_RESPONSE_COMMAND_ID, \
03831             "uuub", \
03832             totalProfileNum, \
03833             powerProfileId, \
03834             numOfTransferredPhases, \
03835             transferredPhases, \
03836             transferredPhasesLen \
03837         );
03846 #define
03847     emberAfFillCommandPowerProfileClusterPowerProfileStateResponse (powerProfileCount, powerProfileRecords, powerProfileRecor
03848     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03849         ZCL_POWER_PROFILE_CLUSTER_ID, \
03850         ZCL_POWER_PROFILE_STATE_RESPONSE_COMMAND_ID, \
03851             "ub", \
03852             powerProfileCount, \
03853             powerProfileRecords, \
03854             powerProfileRecordsLen \
03855         );
03856
03863 #define
03864     emberAfFillCommandPowerProfileClusterGetPowerProfilePrice (powerProfileId) \
03865     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03866         ZCL_POWER_PROFILE_CLUSTER_ID, \
03867         ZCL_GET_POWER_PROFILE_PRICE_COMMAND_ID, \
03868             "u", \
03869             powerProfileId \
03870         );
03871
03880 #define
03881     emberAfFillCommandPowerProfileClusterPowerProfilesStateNotification (powerProfileCount, powerProfileRecords, powerProfile
03882     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03883         ZCL_POWER_PROFILE_CLUSTER_ID, \
03884         ZCL_POWER_PROFILES_STATE_NOTIFICATION_COMMAND_ID, \

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03884         "ub", \
03885         powerProfileCount, \
03886         powerProfileRecords, \
03887         powerProfileRecordsLen \
03888     );
03889
03890
03891 #define emberAfFillCommandPowerProfileClusterGetOverallSchedulePrice() \
03892     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03893         ZCL_POWER_PROFILE_CLUSTER_ID, \
03894         ZCL_GET_OVERALL_SCHEDULE_PRICE_COMMAND_ID, \
03895         "") \
03896     );
03897
03898
03899
03900
03901
03902
03903
03904 #define
03905     emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleRequest(powerProfileId) \
03906     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03907         ZCL_POWER_PROFILE_CLUSTER_ID, \
03908         ZCL_ENERGY_PHASES_SCHEDULE_REQUEST_COMMAND_ID, \
03909         "u", \
03910         powerProfileId \
03911     );
03912
03913
03914
03915
03916
03917
03918
03919
03920 #define
03921     emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateResponse(powerProfileId, numOfScheduledPhases, scheduledPhasesLen) \
03922     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03923         ZCL_POWER_PROFILE_CLUSTER_ID, \
03924         ZCL_ENERGY_PHASES_SCHEDULE_STATE_RESPONSE_COMMAND_ID, \
03925         "uub", \
03926         powerProfileId, \
03927         numOfScheduledPhases, \
03928         scheduledPhases, \
03929         scheduledPhasesLen \
03930     );
03931
03932
03933
03934
03935
03936
03937
03938
03939
03940 #define
03941     emberAfFillCommandPowerProfileClusterEnergyPhasesScheduleStateNotification(powerProfileId, numOfScheduledPhases, scheduledPhasesLen) \
03942     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03943         ZCL_POWER_PROFILE_CLUSTER_ID, \
03944         ZCL_ENERGY_PHASES_SCHEDULE_STATE_NOTIFICATION_COMMAND_ID, \
03945         "uub", \
03946         powerProfileId, \
03947         numOfScheduledPhases, \
03948         scheduledPhases, \
03949         scheduledPhasesLen \
03950     );
03951
03952
03953
03954
03955
03956
03957
03958
03959
03960
03961 #define
03962     emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsNotification(powerProfileId, startAfter, stopBefore) \
03963     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03964         ZCL_POWER_PROFILE_CLUSTER_ID, \
03965         ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_NOTIFICATION_COMMAND_ID, \
03966         "uvv", \
03967         powerProfileId, \
03968         startAfter, \
03969         stopBefore \
03970     );
03971
03972
03973
03974
03975
03976
03977
03978
03979
03980
03981 #define
03982     emberAfFillCommandPowerProfileClusterPowerProfileScheduleConstraintsResponse(powerProfileId, startAfter, stopBefore) \
03983     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
03984         ZCL_POWER_PROFILE_CLUSTER_ID, \
03985         ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_RESPONSE_COMMAND_ID, \
03986         "uvv", \
03987         powerProfileId, \
03988
03989
03990
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03992
03993

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03994         startAfter,\n
03995         stopBefore\\
03996     );\n
03997\n
03998 // @{
04003 #define emberAfFillCommandApplianceControlClusterExecutionOfACommand(commandId)\n
04004     \\\n
04011     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\
04012             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04013             ZCL_EXECUTION_OF_A_COMMAND_COMMAND_ID,\\
04014             "u",\\
04015             commandId\\
04016         );\n
04017\n
04018\n
04024 #define emberAfFillCommandApplianceControlClusterSignalState() \
04025     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\
04026             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04027             ZCL_SIGNAL_STATE_COMMAND_ID,\\
04028             ""\\
04029         );\n
04030\n
04031\n
04041 #define
04042     emberAfFillCommandApplianceControlClusterWriteFunctions(functionId,functionDataType,functionData,functionDataLen) \
04043     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\
04044             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04045             ZCL_WRITE_FUNCTIONS_COMMAND_ID,\\
04046             "vub",\\
04047             functionId,\\
04048             functionDataType,\\
04049             functionData,\\
04050             functionDataLen\\
04051         );\n
04052\n
04058 #define emberAfFillCommandApplianceControlClusterOverloadPauseResume() \
04059     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\
04060             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04061             ZCL_OVERLOAD_PAUSE_RESUME_COMMAND_ID,\\
04062             ""\\
04063         );\n
04064\n
04065\n
04071 #define emberAfFillCommandApplianceControlClusterOverloadPause() \
04072     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\
04073             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04074             ZCL_OVERLOAD_PAUSE_COMMAND_ID,\\
04075             ""\\
04076         );\n
04077\n
04078\n
04085 #define emberAfFillCommandApplianceControlClusterOverloadWarning(warningEvent)
04086     \
04087     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\
04088             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04089             ZCL_OVERLOAD_WARNING_COMMAND_ID,\\
04090             "u",\\
04091             warningEvent\\
04092         );\n
04093\n
04102 #define
04103     emberAfFillCommandApplianceControlClusterSignalStateResponse(applianceStatus,remoteEnableFlagsAndDeviceStatus2,applianceStatus2)
04104     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\\
04105             ZCL_APPLIANCE_CONTROL_CLUSTER_ID,\\
04106             ZCL_SIGNAL_STATE_RESPONSE_COMMAND_ID,\\
04107             "uu3",\\
04108             applianceStatus,\\
04109             remoteEnableFlagsAndDeviceStatus2,\\
04110             applianceStatus2\\
04111         );

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04111
04112
04121 #define
04122     emberAfFillCommandApplianceControlClusterSignalStateNotification(applianceStatus, remoteEnableFlagsAndDeviceStatus2, app
04122
04123     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
04123         ZCL_APPLIANCE_CONTROL_CLUSTER_ID, \
04124         ZCL_SIGNAL_STATE_NOTIFICATION_COMMAND_ID, \
04125         "uu3", \
04126         applianceStatus, \
04127         remoteEnableFlagsAndDeviceStatus2, \
04128         applianceStatus2 \
04129     );
04130
04131
04136 // @@
04142 #define emberAfFillCommandPollControlClusterCheckIn() \
04143
04144     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
04144         ZCL_POLL_CONTROL_CLUSTER_ID, \
04145         ZCL_CHECK_IN_COMMAND_ID, \
04146         "" \
04147     );
04148
04149
04157 #define
04158     emberAfFillCommandPollControlClusterCheckInResponse(startFastPolling, fastPollTimeout) \
04159
04160     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04160         ZCL_POLL_CONTROL_CLUSTER_ID, \
04161         ZCL_CHECK_IN_RESPONSE_COMMAND_ID, \
04162         "uv", \
04163         startFastPolling, \
04164         fastPollTimeout \
04165     );
04166
04167 #define emberAfFillCommandPollControlClusterFastPollStop() \
04168
04169     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04170         ZCL_POLL_CONTROL_CLUSTER_ID, \
04171         ZCL_FAST_POLL_STOP_COMMAND_ID, \
04172         "" \
04173     );
04174
04175
04186 #define
04187     emberAfFillCommandPollControlClusterSetLongPollInterval(newLongPollInterval) \
04188
04189     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04189         ZCL_POLL_CONTROL_CLUSTER_ID, \
04190         ZCL_SET_LONG_POLL_INTERVAL_COMMAND_ID, \
04191         "w", \
04192         newLongPollInterval \
04193     );
04194
04201 #define
04202     emberAfFillCommandPollControlClusterSetShortPollInterval(newShortPollInterval) \
04203
04204     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04204         ZCL_POLL_CONTROL_CLUSTER_ID, \
04205         ZCL_SET_SHORT_POLL_INTERVAL_COMMAND_ID, \
04206         "v", \
04207         newShortPollInterval \
04208     );
04209
04214 // @@
04219 // @@
04224 // @@
04230 #define emberAfFillCommandApplianceEventsAndAlertClusterGetAlerts() \
04231
04232     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04232         ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID, \
04233         ZCL_GET_ALERTS_COMMAND_ID, \
04234         "" \
04235     );
04236
04237

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04246 #define
04247     emberAfFillCommandApplianceEventsAndAlertClusterGetAlertsResponse(alertsCount,alertStructures,alertStructuresLen) \
04248     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04249             ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID,\n
04250             ZCL_GET_ALERTS_RESPONSE_COMMAND_ID,\n
04251             "ub",\n
04252             alertsCount,\n
04253             alertStructures,\n
04254             alertStructuresLen\n
04255         );
04256
04257 #define
04258     emberAfFillCommandApplianceEventsAndAlertClusterAlertsNotification(alertsCount,alertStructures,alertStructuresLen) \
04259     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04260             ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID,\n
04261             ZCL_ALERTS_NOTIFICATION_COMMAND_ID,\n
04262             "ub",\n
04263             alertsCount,\n
04264             alertStructures,\n
04265             alertStructuresLen\n
04266         );
04267
04268 #define
04269     emberAfFillCommandApplianceEventsAndAlertClusterEventsNotification(eventHeader,eventId) \
04270     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04271             ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID,\n
04272             ZCL_EVENTS_NOTIFICATION_COMMAND_ID,\n
04273             "uu",\n
04274             eventHeader,\n
04275             eventId\n
04276         );
04277
04278 // @@
04279 #define
04280     emberAfFillCommandGenericTunnelClusterMatchProtocolAddress(protocolAddress) \
04281     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
04282             ZCL_GENERIC_TUNNEL_CLUSTER_ID,\n
04283             ZCL_MATCH_PROTOCOL_ADDRESS_COMMAND_ID,\n
04284             "s",\n
04285             protocolAddress\n
04286         );
04287
04288 #define
04289     emberAfFillCommandGenericTunnelClusterMatchProtocolAddressResponse(deviceIeeeAddress,protocolAddress) \
04290     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04291             ZCL_GENERIC_TUNNEL_CLUSTER_ID,\n
04292             ZCL_MATCH_PROTOCOL_ADDRESS_RESPONSE_COMMAND_ID,\n
04293             "8s",\n
04294             deviceIeeeAddress,\n
04295             protocolAddress\n
04296         );
04297
04298 #define
04299     emberAfFillCommandGenericTunnelClusterAdvertiseProtocolAddress(protocolAddress) \
04300     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04301             ZCL_GENERIC_TUNNEL_CLUSTER_ID,\n
04302             ZCL_ADVERTISE_PROTOCOL_ADDRESS_COMMAND_ID,\n
04303             "s",\n
04304             protocolAddress\n
04305         );
04306
04307 // @@
04308 #define emberAfFillCommandBacnetProtocolTunnelClusterTransferNpdu(npdu,npduLen)
04309 \
04310     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
04311             ZCL_BACNET_PROTOCOL_TUNNEL_CLUSTER_ID,\n
04312             ZCL_TRANSFER_NPDU_COMMAND_ID,\n
04313
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04361      "b", \
04362      npdu, \
04363      npduLen \
04364      );
04365
04366
04371 // @@
04382 #define
    emberAfFillCommandOtaBootloadClusterImageNotify(payloadType, queryJitter, manufacturerId, imageType, newFileVersion) \
04383     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
04384         ZCL_OTA_BOOTLOAD_CLUSTER_ID, \
04385         ZCL_IMAGE_NOTIFY_COMMAND_ID, \
04386         "uuuvw", \
04387         payloadType, \
04388         queryJitter, \
04389         manufacturerId, \
04390         imageType, \
04391         newFileVersion \
04392     );
04393
04394
04405 #define
    emberAfFillCommandOtaBootloadClusterQueryNextImageRequest(fieldControl, manufacturerId, imageType, currentFileVersion, han
04406     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04407         ZCL_OTA_BOOTLOAD_CLUSTER_ID, \
04408         ZCL_QUERY_NEXT_IMAGE_REQUEST_COMMAND_ID, \
04409         "uvvuw", \
04410         fieldControl, \
04411         manufacturerId, \
04412         imageType, \
04413         currentFileVersion, \
04414         hardwareVersion \
04415     );
04416
04417
04428 #define
    emberAfFillCommandOtaBootloadClusterQueryNextImageResponse(status, manufacturerId, imageType, fileVersion, imageSize) \
04429     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
04430         ZCL_OTA_BOOTLOAD_CLUSTER_ID, \
04431         ZCL_QUERY_NEXT_IMAGE_RESPONSE_COMMAND_ID, \
04432         "uvvw", \
04433         status, \
04434         manufacturerId, \
04435         imageType, \
04436         fileVersion, \
04437         imageSize \
04438     );
04439
04440
04453 #define
    emberAfFillCommandOtaBootloadClusterImageBlockRequest(fieldControl, manufacturerId, imageType, fileVersion, fileOffset, max
04454     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04455         ZCL_OTA_BOOTLOAD_CLUSTER_ID, \
04456         ZCL_IMAGE_BLOCK_REQUEST_COMMAND_ID, \
04457         "uvwwu8", \
04458         fieldControl, \
04459         manufacturerId, \
04460         imageType, \
04461         fileVersion, \
04462         fileOffset, \
04463         maxDataSize, \
04464         requestNodeAddress \
04465     );
04466
04467
04482 #define
    emberAfFillCommandOtaBootloadClusterImagePageRequest(fieldControl, manufa
cturerId, imageType, fileVersion, fileOffset, maxDataSize, pageSize, responseSpacing, requestNodeAddress) \
04483     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04484         ZCL_OTA_BOOTLOAD_CLUSTER_ID, \
04485         ZCL_IMAGE_PAGE_REQUEST_COMMAND_ID, \
04486         "uvwwuvv8", \
04487         fieldControl, \
04488         manufacturerId, \
04489         imageType, \

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04490         fileVersion,\ 
04491         fileOffset,\ 
04492         maxDataSize,\ 
04493         pageSize,\ 
04494         responseSpacing,\ 
04495         requestNodeAddress\ 
04496     );
04497 
04498 
04511 #define
04512     emberAfFillCommandOtaBootloadClusterImageBlockResponse(status,manufacturerId,imageType,fileVersion,fileOffset,dataSize
04512
04513     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
04513         ZCL_OTA_BOOTLOAD_CLUSTER_ID,\ 
04514         ZCL_IMAGE_BLOCK_RESPONSE_COMMAND_ID,\ 
04515         "uvwwus",\ 
04516         status,\ 
04517         manufacturerId,\ 
04518         imageType,\ 
04519         fileVersion,\ 
04520         fileOffset,\ 
04521         dataSize,\ 
04522         imageData\ 
04523     );
04524 
04525 
04535 #define
04536     emberAfFillCommandOtaBootloadClusterUpgradeEndRequest(status,manufacturerId,imageType,fileVersion) \
04536
04537     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
04537         ZCL_OTA_BOOTLOAD_CLUSTER_ID,\ 
04538         ZCL_UPGRADE_END_REQUEST_COMMAND_ID,\ 
04539         "uvvw",\ 
04540         status,\ 
04541         manufacturerId,\ 
04542         imageType,\ 
04543         fileVersion\ 
04544     );
04545 
04546 
04557 #define
04558     emberAfFillCommandOtaBootloadClusterUpgradeEndResponse(manufacturerId,imageType,fileVersion,currentTime,upgradeTime) \
04558
04559     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
04559         ZCL_OTA_BOOTLOAD_CLUSTER_ID,\ 
04560         ZCL_UPGRADE_END_RESPONSE_COMMAND_ID,\ 
04561         "vwww",\ 
04562         manufacturerId,\ 
04563         imageType,\ 
04564         fileVersion,\ 
04565         currentTime,\ 
04566         upgradeTime\ 
04567     );
04568 
04569 
04580 #define
04581     emberAfFillCommandOtaBootloadClusterQuerySpecificFileRequest(requestNodeAddress,manufacturerId,imageType,fileVersion,co
04581
04582     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ 
04582         ZCL_OTA_BOOTLOAD_CLUSTER_ID,\ 
04583         ZCL_QUERY_SPECIFIC_FILE_REQUEST_COMMAND_ID,\ 
04584         "8vvw",\ 
04585         requestNodeAddress,\ 
04586         manufacturerId,\ 
04587         imageType,\ 
04588         fileVersion,\ 
04589         currentZigbeeStackVersion\ 
04590     );
04591 
04592 
04603 #define
04604     emberAfFillCommandOtaBootloadClusterQuerySpecificFileResponse(status,manufacturerId,imageType,fileVersion,imageSize) \
04604
04605     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
04605         ZCL_OTA_BOOTLOAD_CLUSTER_ID,\ 
04606         ZCL_QUERY_SPECIFIC_FILE_RESPONSE_COMMAND_ID,\ 
04607         "uvww",\ 
04608         status,\ 
04609         manufacturerId,\ 
04610         imageType,\ 

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04611         fileVersion,\n
04612         imageSize\n
04613     );\n
04614\n
04615\n
04620 // @{\n
04639 #define\n
    emberAfFillCommandDemandResponseLoadControlClusterLoadControlEvent(issue\n
rEventId,deviceClass,utilityEnrollmentGroup,startTime,durationInMinutes,critical\n
ityLevel,coolingTemperatureOffset,heatingTemperatureOffset,coolingTemperatureSet\n
Point,heatingTemperatureSetPoint,averageLoadAdjustmentPercentage,dutyCycle,eventControl) \\\n
04640     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\\\n
04641         ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID,\\\n
04642         ZCL_LOAD_CONTROL_EVENT_COMMAND_ID,\\\n
04643         "wvuvvvvvvvvuuu",\\\n
04644         issuerEventId,\\\n
04645         deviceClass,\\\n
04646         utilityEnrollmentGroup,\\\n
04647         startTime,\\\n
04648         durationInMinutes,\\\n
04649         criticalityLevel,\\\n
04650         coolingTemperatureOffset,\\\n
04651         heatingTemperatureOffset,\\\n
04652         coolingTemperatureSetPoint,\\\n
04653         heatingTemperatureSetPoint,\\\n
04654         averageLoadAdjustmentPercentage,\\\n
04655         dutyCycle,\\\n
04656         eventControl\\\n
04657     );\n
04658\n
04659\n
04670 #define\n
    emberAfFillCommandDemandResponseLoadControlClusterCancelLoadControlEvent(issuerEventId,deviceClass,utilityEnrollmentGr\n
\\\n
04671     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\\\n
04672         ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID,\\\n
04673         ZCL_CANCEL_LOAD_CONTROL_EVENT_COMMAND_ID,\\\n
04674         "wvuuuw",\\\n
04675         issuerEventId,\\\n
04676         deviceClass,\\\n
04677         utilityEnrollmentGroup,\\\n
04678         cancelControl,\\\n
04679         effectiveTime\\\n
04680     );\n
04681\n
04682\n
04689 #define\n
    emberAfFillCommandDemandResponseLoadControlClusterCancelAllLoadControlEvents(cancelControl) \\\n
04690     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\\\n
04691         ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID,\\\n
04692         ZCL_CANCEL_ALL_LOAD_CONTROL_EVENTS_COMMAND_ID,\\\n
04693         "u",\\\n
04694         cancelControl\\\n
04695     );\n
04696\n
04697\n
04714 #define\n
    emberAfFillCommandDemandResponseLoadControlClusterReportEventStatus(issu\n
erEventId,eventStatus,eventStatusTime,criticalityLevelApplied,coolingTemperature\n
SetPointApplied,heatingTemperatureSetPointApplied,averageLoadAdjustmentPercentageApplied,dutyCycleApplied,eventControl,\n
04715\n
    emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\\\n
04716         ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID,\\\n
04717         ZCL_REPORT_EVENT_STATUS_COMMAND_ID,\\\n
04718         "wuwuvvvuuub",\\\n
04719         issuerEventId,\\\n
04720         eventStatus,\\\n
04721         eventStatusTime,\\\n
04722         criticalityLevelApplied,\\\n
04723         coolingTemperatureSetPointApplied,\\\n
04724         heatingTemperatureSetPointApplied,\\\n
04725         averageLoadAdjustmentPercentageApplied,\\\n
04726         dutyCycleApplied,\\\n
04727         eventControl,\\\n
04728         signatureType,\\\n
04729         signature,\\\n
04730         42\\\n

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04731         );
04732
04733
04741 #define
04742     emberAfFillCommandDemandResponseLoadControlClusterGetScheduledEvents(startTime,numberOfEvents) \
04743         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
04744                                     ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID,\n
04745                                     ZCL_GET_SCHEDULED_EVENTS_COMMAND_ID,\n
04746                                     "wu",\n
04747                                     startTime,\n
04748                                     numberOfEvents\n
04749         );
04750
04751
04755 // @@
04767 #define
04768     emberAfFillCommandSimpleMeteringClusterGetProfileResponse(endTime,status,profileIntervalPeriod,numberOfPeriodsDelivered)
04769         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04770                                     ZCL_SIMPLE_METERING_CLUSTER_ID,\n
04771                                     ZCL_GET_PROFILE_RESPONSE_COMMAND_ID,\n
04772                                     "wuuub",\n
04773                                     endTime,\n
04774                                     status,\n
04775                                     profileIntervalPeriod,\n
04776                                     numberOfPeriodsDelivered,\n
04777                                     intervals,\n
04778                                     intervalsLen\n
04779         );
04780
04786 #define emberAfFillCommandSimpleMeteringClusterRequestMirror() \
04787     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04788                                     ZCL_SIMPLE_METERING_CLUSTER_ID,\n
04789                                     ZCL_REQUEST_MIRROR_COMMAND_ID,\n
04790                                     ""\n
04791         );
04792
04793
04799 #define emberAfFillCommandSimpleMeteringClusterRemoveMirror() \
04800     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04801                                     ZCL_SIMPLE_METERING_CLUSTER_ID,\n
04802                                     ZCL_REMOVE_MIRROR_COMMAND_ID,\n
04803                                     ""\n
04804         );
04805
04806
04814 #define
04815     emberAfFillCommandSimpleMeteringClusterRequestFastPollModeResponse(appliedUpdatePeriod,fastPollModeEndtime) \
04816         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
04817                                     ZCL_SIMPLE_METERING_CLUSTER_ID,\n
04818                                     ZCL_REQUEST_FAST_POLL_MODE_RESPONSE_COMMAND_ID,\n
04819                                     "uw",\n
04820                                     appliedUpdatePeriod,\n
04821                                     fastPollModeEndtime\n
04822         );
04823
04832 #define
04833     emberAfFillCommandSimpleMeteringClusterGetProfile(intervalChannel,endTime,numberOfPeriods) \
04834         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
04835                                     ZCL_SIMPLE_METERING_CLUSTER_ID,\n
04836                                     ZCL_GET_PROFILE_COMMAND_ID,\n
04837                                     "uwu",\n
04838                                     intervalChannel,\n
04839                                     endTime,\n
04840                                     numberOfPeriods\n
04841         );
04842
04849 #define
04850     emberAfFillCommandSimpleMeteringClusterRequestMirrorResponse(endpointId) \
04851         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
04852                                     ZCL_SIMPLE_METERING_CLUSTER_ID,\n
04853                                     ZCL_REQUEST_MIRROR_RESPONSE_COMMAND_ID,\n
04854                                     endpointId\n
04855         );

```

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04852     ZCL_REQUEST_MIRROR_RESPONSE_COMMAND_ID,\ \
04853     "v", \
04854     endpointId \
04855     );
04856 
04857 
04858 #define emberAfFillCommandSimpleMeteringClusterMirrorRemoved(endpointId) \
04859     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ \
04860         ZCL_SIMPLE_METERING_CLUSTER_ID,\ \
04861         ZCL_MIRROR_REMOVED_COMMAND_ID,\ \
04862         "v", \
04863         endpointId \
04864         );
04865 
04866 
04867 
04868 #define emberAfFillCommandSimpleMeteringClusterRequestFastPollMode(fastPollUpdatePeriod,duration) \
04869     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\ \
04870         ZCL_SIMPLE_METERING_CLUSTER_ID,\ \
04871         ZCL_REQUEST_FAST_POLL_MODE_COMMAND_ID,\ \
04872         "uu", \
04873         fastPollUpdatePeriod, \
04874         duration \
04875         );
04876 
04877 
04878 
04879 
04880 // @{
04881 #define emberAfFillCommandPriceClusterPublishPrice(providerId,rateLabel,issuerEv \
04882 entId,currentTime,unitOfMeasure,currency,priceTrailingDigitAndPriceTier,numberOf \
04883 PriceTiersAndRegisterTier,startTime,durationInMinutes,price,priceRatio,generatio \
04884 nPrice,generationPriceRatio,alternateCostDelivered,alternateCostUnit,alternateCostTrailingDigit,numberOfBlockThresholds \
04885 
04886 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ \
04887     ZCL_PRICE_CLUSTER_ID,\ \
04888     ZCL_PUBLISH_PRICE_COMMAND_ID,\ \
04889     "wswwuvuvuvwwwwuuuu", \
04890     providerId, \
04891     rateLabel, \
04892     issuerEventId, \
04893     currentTime, \
04894     unitOfMeasure, \
04895     currency, \
04896     priceTrailingDigitAndPriceTier, \
04897     numberOfPriceTiersAndRegisterTier, \
04898     startTime, \
04899     durationInMinutes, \
04900     price, \
04901     priceRatio, \
04902     generationPrice, \
04903     generationPriceRatio, \
04904     alternateCostDelivered, \
04905     alternateCostUnit, \
04906     alternateCostTrailingDigit, \
04907     numberOfBlockThresholds, \
04908     priceControl \
04909     );
04910 
04911 
04912 
04913 #define emberAfFillCommandPriceClusterPublishBlockPeriod(providerId,issuerEventI \
04914 d,blockPeriodStartTime,blockPeriodDurationInMinutes,numberOfPriceTiersAndNumberOfBlockThresholds,blockPeriodControl) \
04915 
04916 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ \
04917     ZCL_PRICE_CLUSTER_ID,\ \
04918     ZCL_PUBLISH_BLOCK_PERIOD_COMMAND_ID,\ \
04919     "www3uu", \
04920     providerId, \
04921     issuerEventId, \
04922     blockPeriodStartTime, \
04923     blockPeriodDurationInMinutes, \
04924     numberOfPriceTiersAndNumberOfBlockThresholds, \
04925     blockPeriodControl \
04926     );
04927 
04928 
04929 
04930 #define emberAfFillCommandPriceClusterGetCurrentPrice(commandOptions) \
04931 
04932 
```

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04979 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04980     ZCL_PRICE_CLUSTER_ID, \
04981     ZCL_GET_CURRENT_PRICE_COMMAND_ID, \
04982     "u", \
04983     commandOptions \
04984 );
04985
04986
04987 #define
04988     emberAfFillCommandPriceClusterGetScheduledPrices(startTime,numberOfEvents) \
04989     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
04990         ZCL_PRICE_CLUSTER_ID, \
04991         ZCL_GET_SCHEDULED_PRICES_COMMAND_ID, \
04992         "wu", \
04993         startTime, \
04994         numberOfEvents \
04995 );
04996
04997
04998 #define
04999     emberAfFillCommandPriceClusterPriceAcknowledgement(providerId,issuerEventId,priceAckTime,control) \
05000     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05001         ZCL_PRICE_CLUSTER_ID, \
05002         ZCL_PRICE_ACKNOWLEDGEMENT_COMMAND_ID, \
05003         "wwwu", \
05004         providerId, \
05005         issuerEventId, \
05006         priceAckTime, \
05007         control \
05008 );
05009
05010
05011 #define emberAfFillCommandPriceClusterGetBlockPeriods(startTime,numberOfEvents)
05012 \
05013     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05014         ZCL_PRICE_CLUSTER_ID, \
05015         ZCL_GET_BLOCK_PERIODS_COMMAND_ID, \
05016         "wu", \
05017         startTime, \
05018         numberOfEvents \
05019 );
05020
05021
05022
05023
05024 // @@
05025 #define
05026     emberAfFillCommandMessagingClusterDisplayMessage(messageId,messageControl,startTime,durationInMinutes,message) \
05027     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05028         ZCL_MESSAGING_CLUSTER_ID, \
05029         ZCL_DISPLAY_MESSAGE_COMMAND_ID, \
05030         "wuwvs", \
05031         messageId, \
05032         messageControl, \
05033         startTime, \
05034         durationInMinutes, \
05035         message \
05036 );
05037
05038
05039
05040
05041 #define
05042     emberAfFillCommandMessagingClusterCancelMessage(messageId,messageControl) \
05043     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05044         ZCL_MESSAGING_CLUSTER_ID, \
05045         ZCL_CANCEL_MESSAGE_COMMAND_ID, \
05046         "wu", \
05047         messageId, \
05048         messageControl \
05049 );
05050
05051
05052 #define
05053     emberAfFillCommandMessagingClusterGetLastMessage() \
05054     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05055         ZCL_MESSAGING_CLUSTER_ID, \
05056         ZCL_GET_LAST_MESSAGE_COMMAND_ID, \
05057         "" \
05058 );
05059
05060
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05096         );
05097
05098
05106 #define
05107     emberAfFillCommandMessagingClusterMessageConfirmation(messageId, confirmationTime) \
05108     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05109                             ZCL_MESSAGING_CLUSTER_ID,\ \
05110                             ZCL_MESSAGE_CONFIRMATION_COMMAND_ID,\ \
05111                             "ww",\ \
05112                             messageId,\ \
05113                             confirmationTime\
05114             );
05115
05120 // @@
05130 #define
05131     emberAfFillCommandTunnelingClusterRequestTunnel(protocolId, manufacturerCode, flowControlSupport, maximumIncomingTransferSize)
05131     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05132                             ZCL_TUNNELING_CLUSTER_ID,\ \
05133                             ZCL_REQUEST_TUNNEL_COMMAND_ID,\ \
05134                             "uvuv",\ \
05135                             protocolId,\ \
05136                             manufacturerCode,\ \
05137                             flowControlSupport,\ \
05138                             maximumIncomingTransferSize\
05139             );
05140
05141
05148 #define emberAfFillCommandTunnelingClusterCloseTunnel(tunnelId) \
05149     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05150                             ZCL_TUNNELING_CLUSTER_ID,\ \
05151                             ZCL_CLOSE_TUNNEL_COMMAND_ID,\ \
05152                             "v",\ \
05153                             tunnelId\
05154             );
05155
05156
05165 #define
05166     emberAfFillCommandTunnelingClusterTransferDataClientToServer(tunnelId, data, dataLen) \
05167     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05168                             ZCL_TUNNELING_CLUSTER_ID,\ \
05169                             ZCL_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID,\ \
05170                             "vb",\ \
05171                             tunnelId,\ \
05172                             data,\ \
05173                             dataLen\
05174             );
05175
05183 #define
05184     emberAfFillCommandTunnelingClusterTransferDataErrorClientToServer(tunnelId, transferDataStatus) \
05185     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05186                             ZCL_TUNNELING_CLUSTER_ID,\ \
05187                             ZCL_TRANSFER_DATA_ERROR_CLIENT_TO_SERVER_COMMAND_ID,\ \
05188                             "vu",\ \
05189                             tunnelId,\ \
05190                             transferDataStatus\
05191             );
05192
05200 #define
05201     emberAfFillCommandTunnelingClusterAckTransferDataClientToServer(tunnelId, numberOfBytesLeft) \
05202     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05203                             ZCL_TUNNELING_CLUSTER_ID,\ \
05204                             ZCL_ACK_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID,\ \
05205                             "vv",\ \
05206                             tunnelId,\ \
05207                             numberOfBytesLeft\
05208             );
05209
05217 #define
05218     emberAfFillCommandTunnelingClusterReadyDataClientToServer(tunnelId, numberOfOctetsLeft) \

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05218 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05219     ZCL_TUNNELING_CLUSTER_ID,\n
05220     ZCL_READY_DATA_CLIENT_TO_SERVER_COMMAND_ID,\n
05221     "vv",\n
05222     tunnelId,\n
05223     numberOfOctetsLeft\n
05224 );
05225
05226
05227 #define\n
05228     emberAfFillCommandTunnelingClusterGetSupportedTunnelProtocols(protocolOffset) \
05229
05230     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05231         ZCL_TUNNELING_CLUSTER_ID,\n
05232         ZCL_GET_SUPPORTED_TUNNEL_PROTOCOLS_COMMAND_ID,\n
05233         "u",\n
05234         protocolOffset\n
05235 );
05236
05237
05238 #define\n
05239     emberAfFillCommandTunnelingClusterRequestTunnelResponse(tunnelId,tunnelStatus,maximumIncomingTransferSize) \
05240
05241     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05242         ZCL_TUNNELING_CLUSTER_ID,\n
05243         ZCL_REQUEST_TUNNEL_RESPONSE_COMMAND_ID,\n
05244         "vuv",\n
05245         tunnelId,\n
05246         tunnelStatus,\n
05247         maximumIncomingTransferSize\n
05248 );
05249
05250
05251 #define\n
05252     emberAfFillCommandTunnelingClusterTransferDataServerToClient(tunnelId,data,dataLen) \
05253
05254     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05255         ZCL_TUNNELING_CLUSTER_ID,\n
05256         ZCL_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID,\n
05257         "vb",\n
05258         tunnelId,\n
05259         data,\n
05260         dataLen\n
05261 );
05262
05263
05264 #define\n
05265     emberAfFillCommandTunnelingClusterTransferDataServerErrorServerToClient(tunnelId,transferDataStatus) \
05266
05267     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05268         ZCL_TUNNELING_CLUSTER_ID,\n
05269         ZCL_TRANSFER_DATA_ERROR_SERVER_TO_CLIENT_COMMAND_ID,\n
05270         "vu",\n
05271         tunnelId,\n
05272         transferDataStatus\n
05273 );
05274
05275
05276
05277
05278
05279
05280 #define\n
05281     emberAfFillCommandTunnelingClusterAckTransferDataServerToClient(tunnelId,numberOfBytesLeft) \
05282
05283     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05284         ZCL_TUNNELING_CLUSTER_ID,\n
05285         ZCL_ACK_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID,\n
05286         "vv",\n
05287         tunnelId,\n
05288         numberOfBytesLeft\n
05289 );
05290
05291
05292
05293
05294
05295
05296
05297 #define\n
05298     emberAfFillCommandTunnelingClusterReadyDataServerToClient(tunnelId,numberOfOctetsLeft) \
05299
05300     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05301         ZCL_TUNNELING_CLUSTER_ID,\n
05302         ZCL_READY_DATA_SERVER_TO_CLIENT_COMMAND_ID,\n
05303         "vv",\n
05304         tunnelId,\n
05305
05306
05307
05308
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05315
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05320
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05327             numberOfOctetsLeft \
05328         );
05329
05330
05340 #define
05341     emberAfFillCommandTunnelingClusterSupportedTunnelProtocolsResponse(protocolListComplete, protocolCount, protocolList, pro
05341
05342     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05343         ZCL_TUNNELING_CLUSTER_ID, \
05343         ZCL_SUPPORTED_TUNNEL_PROTOCOLS_RESPONSE_COMMAND_ID,
05343
05344         "uub", \
05345         protocolListComplete, \
05346         protocolCount, \
05347         protocolList, \
05348         protocolListLen \
05349     );
05350
05351
05358 #define emberAfFillCommandTunnelingClusterTunnelClosureNotification(tunnelId) \
05359
05360     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05361         ZCL_TUNNELING_CLUSTER_ID, \
05362         ZCL_TUNNEL_CLOSURE_NOTIFICATION_COMMAND_ID, \
05363         "v", \
05364         tunnelId \
05365     );
05366
05371 // @@
05381 #define
05382     emberAfFillCommandPrepaymentClusterSelectAvailableEmergencyCredit(commandDateTime, originatingDevice, siteId, meterSerial
05382
05383     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05384         ZCL_PREPAYMENT_CLUSTER_ID, \
05385         ZCL_SELECT_AVAILABLE_EMERGENCY_CREDIT_COMMAND_ID, \
05386         "wuss", \
05387         commandDateTime, \
05388         originatingDevice, \
05389         siteId, \
05390         meterSerialNumber \
05391     );
05392
05405 #define
05406     emberAfFillCommandPrepaymentClusterChangeSupply(providerId, requestDateTi
05406     me, siteId, meterSerialNumber, implementationDateTime, proposedSupplyStatus, originatorIdSupplyControlBits) \
05406
05407     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05408         ZCL_PREPAYMENT_CLUSTER_ID, \
05409         ZCL_CHANGE_SUPPLY_COMMAND_ID, \
05410         "wwsswu", \
05411         providerId, \
05412         requestDateTime, \
05413         siteId, \
05414         meterSerialNumber, \
05415         implementationDateTime, \
05416         proposedSupplyStatus, \
05417         originatorIdSupplyControlBits \
05418     );
05419
05428 #define
05429     emberAfFillCommandPrepaymentClusterSupplyStatusResponse(providerId, implementationDateTime, supplyStatus) \
05429
05430     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05431         ZCL_PREPAYMENT_CLUSTER_ID, \
05432         ZCL_SUPPLY_STATUS_RESPONSE_COMMAND_ID, \
05433         "wwu", \
05434         providerId, \
05435         implementationDateTime, \
05436         supplyStatus \
05437     );
05438
05443 // @@
05453 #define
05454     emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentRequest
05454     (keyEstablishmentSuite, ephemeralDataGenerateTime, confirmKeyGenerateTime, identity) \
05454

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05455 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05456     ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, \
05457     ZCL_INITIATE_KEY_ESTABLISHMENT_REQUEST_COMMAND_ID, \
05458     "vuub", \
05459     keyEstablishmentSuite, \
05460     ephemeralDataGenerateTime, \
05461     confirmKeyGenerateTime, \
05462     identity, \
05463     48 \
05464 );
05465
05466
05467
05468 #define
05469     emberAfFillCommandKeyEstablishmentClusterEphemeralDataRequest(ephemeralData) \
05470     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05471         ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, \
05472         ZCL_EPHEMERAL_DATA_REQUEST_COMMAND_ID, \
05473         "b", \
05474         ephemeralData, \
05475         22 \
05476 );
05477
05478
05479
05480
05481
05482
05483 #define
05484     emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataRequest(secureMessageAuthenticationCode) \
05485     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05486         ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, \
05487         ZCL_CONFIRM_KEY_DATA_REQUEST_COMMAND_ID, \
05488         "G", \
05489         secureMessageAuthenticationCode \
05490 );
05491
05492
05493
05494
05495
05496
05497 #define
05498     emberAfFillCommandKeyEstablishmentClusterServerToClientTerminateKeyEstablishment(statusCode,waitTime,keyEstablishments \
05499
05500     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05501         ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, \
05502         ZCL_TERMINATE_KEY_ESTABLISHMENT_COMMAND_ID, \
05503         "uuv", \
05504         statusCode, \
05505         waitTime, \
05506         keyEstablishmentSuite \
05507 );
05508
05509
05510
05511
05512
05513
05514
05515
05516 #define
05517     emberAfFillCommandKeyEstablishmentClusterClientToServerTerminateKeyEstablishment(statusCode,waitTime,keyEstablishments \
05518
05519     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05520         ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, \
05521         ZCL_TERMINATE_KEY_ESTABLISHMENT_COMMAND_ID, \
05522         "uuv", \
05523         statusCode, \
05524         waitTime, \
05525         keyEstablishmentSuite \
05526 );
05527
05528
05529
05530
05531
05532
05533
05534
05535 #define
05536     emberAfFillCommandKeyEstablishmentClusterInitiateKeyEstablishmentResponse \
05537     e(requestedKeyEstablishmentSuite,ephemeralDataGenerateTime,confirmKeyGenerateTime,identity) \
05538
05539     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT, \
05540         ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, \
05541         ZCL_INITIATE_KEY_ESTABLISHMENT_RESPONSE_COMMAND_ID, \
05542         \
05543         "vuub", \
05544         requestedKeyEstablishmentSuite, \
05545         ephemeralDataGenerateTime, \
05546         confirmKeyGenerateTime, \
05547         identity, \
05548         48 \
05549 );
05550
05551
05552
05553
05554
05555
05556
05557 #define
05558     emberAfFillCommandKeyEstablishmentClusterEphemeralDataResponse(ephemeralData) \

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05564 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05565     ZCL_KEY_ESTABLISHMENT_CLUSTER_ID,\n
05566     ZCL_EPHEMERAL_DATA_RESPONSE_COMMAND_ID,\n
05567     "b",\n
05568     ephemeralData,\n
05569     22\n
05570 );
05571
05572
05579 #define\n
05580     emberAfFillCommandKeyEstablishmentClusterConfirmKeyDataResponse(secureMessageAuthenticationCode) \\\n
05581         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05582             ZCL_KEY_ESTABLISHMENT_CLUSTER_ID,\n
05583             ZCL_CONFIRM_KEY_DATA_RESPONSE_COMMAND_ID,\n
05584             "G",\n
05585             secureMessageAuthenticationCode\\\n
05586 );
05587
05592 // @{\n
05601 #define\n
05602     emberAfFillCommandZllCommissioningClusterScanRequest(transaction,zigbeeInformation,zllInformation) \\\n
05603         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05604             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05605             ZCL_SCAN_REQUEST_COMMAND_ID,\n
05606             "wuu",\n
05607             transaction,\n
05608             zigbeeInformation,\n
05609             zllInformation\\\n
05610 );
05611
05619 #define\n
05620     emberAfFillCommandZllCommissioningClusterDeviceInformationRequest(transaction,startIndex) \\\n
05621         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05622             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05623             ZCL_DEVICE_INFORMATION_REQUEST_COMMAND_ID,\n
05624             "wu",\n
05625             transaction,\n
05626             startIndex\\\n
05627 );
05628
05636 #define\n
05637     emberAfFillCommandZllCommissioningClusterIdentifyRequest(transaction,identifyDuration) \\\n
05638         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05639             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05640             ZCL_IDENTIFY_REQUEST_COMMAND_ID,\n
05641             "wv",\n
05642             transaction,\n
05643             identifyDuration\\\n
05644 );
05645
05652 #define\n
05653     emberAfFillCommandZllCommissioningClusterResetToFactoryNewRequest(transaction) \\\n
05654         emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05655             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05656             ZCL_RESET_TO_FACTORY_NEW_REQUEST_COMMAND_ID,\n
05657             "w",\n
05658             transaction\\\n
05659 );
05660
05681 #define\n
05682     emberAfFillCommandZllCommissioningClusterNetworkStartRequest(transaction,\n
05683         extendedPanId,keyIndex,encryptedNetworkKey,logicalChannel,panId,networkAddress,\n
05684         groupIdentifiersBegin,groupIdentifiersEnd,freeNetworkAddressRangeBegin,freeNetwo\n
05685         rkAddressRangeEnd,freeGroupIdentifierRangeBegin,freeGroupIdentifierRangeEnd,initiatorIeeeAddress,initiatorNetworkAddres
05686
05687     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER,\n
05688         ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05689         ZCL_NETWORK_START_REQUEST_COMMAND_ID,\n
05690         "w8uGuvvvvvvvv8v",\n

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```

05686     transaction,\           \
05687     extendedPanId,\        \
05688     keyIndex,\             \
05689     encryptedNetworkKey,\  \
05690     logicalChannel,\       \
05691     panId,\                \
05692     networkAddress,\        \
05693     groupIdentifiersBegin,\ \
05694     groupIdentifiersEnd,\   \
05695     freeNetworkAddressRangeBegin,\ \
05696     freeNetworkAddressRangeEnd,\ \
05697     freeGroupIdentifierRangeBegin,\ \
05698     freeGroupIdentifierRangeEnd,\ \
05699     initiatorIeeeAddress,\ \
05700     initiatorNetworkAddress\ \
05701     );
05702
05703
05723 #define
    emberAfFillCommandZllCommissioningClusterNetworkJoinRouterRequest (transa
ction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChannel,
panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAddres
sRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd) \
05724
    emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
                                ZCL_ZLL_COMMISIONING_CLUSTER_ID, \
                                ZCL_NETWORK_JOIN_ROUTER_REQUEST_COMMAND_ID, \
                                "w8uGuuvvvvvvvv", \
                                transaction, \
                                extendedPanId, \
                                keyIndex, \
                                encryptedNetworkKey, \
                                networkUpdateId, \
                                logicalChannel, \
                                panId, \
                                networkAddress, \
                                groupIdentifiersBegin, \
                                groupIdentifiersEnd, \
                                freeNetworkAddressRangeBegin, \
                                freeNetworkAddressRangeEnd, \
                                freeGroupIdentifierRangeBegin, \
                                freeGroupIdentifierRangeEnd \
                                );
05743
05744
05764 #define
    emberAfFillCommandZllCommissioningClusterNetworkJoinEndDeviceRequest (tra
nsaction, extendedPanId, keyIndex, encryptedNetworkKey, networkUpdateId, logicalChann
el, panId, networkAddress, groupIdentifiersBegin, groupIdentifiersEnd, freeNetworkAdd
ressRangeBegin, freeNetworkAddressRangeEnd, freeGroupIdentifierRangeBegin, freeGroupIdentifierRangeEnd) \
05765
    emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
                                ZCL_ZLL_COMMISIONING_CLUSTER_ID, \
                                ZCL_NETWORK_JOIN_END_DEVICE_REQUEST_COMMAND_ID, \
                                "w8uGuuvvvvvvvv", \
                                transaction, \
                                extendedPanId, \
                                keyIndex, \
                                encryptedNetworkKey, \
                                networkUpdateId, \
                                logicalChannel, \
                                panId, \
                                networkAddress, \
                                groupIdentifiersBegin, \
                                groupIdentifiersEnd, \
                                freeNetworkAddressRangeBegin, \
                                freeNetworkAddressRangeEnd, \
                                freeGroupIdentifierRangeBegin, \
                                freeGroupIdentifierRangeEnd \
                                );
05785
05797 #define
    emberAfFillCommandZllCommissioningClusterNetworkUpdateRequest (transaction, extendedPanId, networkUpdateId, logicalChannel
05798
    emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
                                ZCL_ZLL_COMMISIONING_CLUSTER_ID, \
                                ZCL_NETWORK_UPDATE_REQUEST_COMMAND_ID, \
                                "w8uuuv", \
                                transaction, \

```

```

05803         extendedPanId,\ 
05804         networkUpdateId,\ 
05805         logicalChannel,\ 
05806         panId,\ 
05807         networkAddress\ 
05808     );
05809
05810
05811 #define
05812     emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersRequest (startIndex) \
05813     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05814             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\ 
05815             ZCL_GET_GROUP_IDENTIFIERS_REQUEST_COMMAND_ID,\ 
05816             "u",\
05817             startIndex\
05818     );
05819
05820
05821 #define
05822     emberAfFillCommandZllCommissioningClusterGetEndpointListRequest (startIndex) \
05823     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
05824             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\ 
05825             ZCL_GET_ENDPOINT_LIST_REQUEST_COMMAND_ID,\ 
05826             "u",\
05827             startIndex\
05828     );
05829
05830
05831 #define
05832     emberAfFillCommandZllCommissioningClusterScanResponse (transaction,rssiCo
05833     rrection,zigbeeInformation,zllInformation,keyBitmask,responseId,extendedPanId,ne
05834     tworkUpdateId,logicalChannel,panId,networkAddress,numberOfSubDevices,totalGroupIds,endpointId,profileId,deviceId,versio
05835
05836     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
05837             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\ 
05838             ZCL_SCAN_RESPONSE_COMMAND_ID,\ 
05839             "wuuuvw8uvvvvuvvuu",\
05840             transaction,\ 
05841             rssiCorrection,\ 
05842             zigbeeInformation,\ 
05843             zllInformation,\ 
05844             keyBitmask,\ 
05845             responseId,\ 
05846             extendedPanId,\ 
05847             networkUpdateId,\ 
05848             logicalChannel,\ 
05849             panId,\ 
05850             networkAddress,\ 
05851             numberOfSubDevices,\ 
05852             totalGroupIds,\ 
05853             endpointId,\ 
05854             profileId,\ 
05855             deviceId,\ 
05856             version,\ 
05857             groupIdCount\
05858     );
05859
05860
05861 #define
05862     emberAfFillCommandZllCommissioningClusterDeviceInformationResponse(trans
05863     action,numberOfSubDevices,startIndex,deviceInformationRecordCount,deviceInformationRecordLi
05864
05865     emberAfFillExternalBuffer (ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\ 
05866             ZCL_ZLL_COMMISIONING_CLUSTER_ID,\ 
05867             ZCL_DEVICE_INFORMATION_RESPONSE_COMMAND_ID,\ 
05868             "wuuub",\
05869             transaction,\ 
05870             numberOfSubDevices,\ 
05871             startIndex,\ 
05872             deviceInformationRecordCount,\ 
05873             deviceInformationRecordList,\ 
05874             deviceInformationRecordListLen\
05875     );
05876
05877
05878 #define
05879     emberAfFillCommandZllCommissioningClusterNetworkStartResponse (transaction,status,extendedPanId,networkUpdateId,logical
05880
05881
05882
05883
05884
05885
05886
05887
05888
05889
05890
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05928 emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05929     ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05930     ZCL_NETWORK_START_RESPONSE_COMMAND_ID,\n
05931     "wu8uvv",\n
05932     transaction,\n
05933     status,\n
05934     extendedPanId,\n
05935     networkUpdateId,\n
05936     logicalChannel,\n
05937     panId\n
05938 );
05939
05947 #define\n
05948     emberAfFillCommandZllCommissioningClusterNetworkJoinRouterResponse(transaction,status) \
05949     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05950         ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05951         ZCL_NETWORK_JOIN_ROUTER_RESPONSE_COMMAND_ID,\n
05952         "wu",\n
05953         transaction,\n
05954         status\
05955 );
05956
05964 #define\n
05965     emberAfFillCommandZllCommissioningClusterNetworkJoinEndDeviceResponse(transaction,status) \
05966     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05967         ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05968         ZCL_NETWORK_JOIN_END_DEVICE_RESPONSE_COMMAND_ID,\n
05969         "wu",\n
05970         transaction,\n
05971         status\
05972 );
05973
05985 #define\n
05986     emberAfFillCommandZllCommissioningClusterEndpointInformation(ieeeAddress, networkAddress, endpointId, profileId, deviceId,\n
05987     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
05988         ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
05989         ZCL_ENDPOINT_INFORMATION_COMMAND_ID,\n
05990         "8uvvvu",\n
05991         ieeeAddress,\n
05992         networkAddress,\n
05993         endpointId,\n
05994         profileId,\n
05995         deviceId,\n
05996         version\
05997 );
05998
06009 #define\n
06010     emberAfFillCommandZllCommissioningClusterGetGroupIdentifiersResponse(total, startIndex, count, groupInformationRecordList,\n
06011     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
06012         ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
06013         ZCL_GET_GROUP_IDENTIFIERS_RESPONSE_COMMAND_ID,\n
06014         "uuub",\n
06015         total,\n
06016         startIndex,\n
06017         count,\n
06018         groupInformationRecordList,\n
06019         groupInformationRecordListLen\
06020 );
06021
06032 #define\n
06033     emberAfFillCommandZllCommissioningClusterGetEndpointListResponse(total, startIndex, count, endpointInformationRecordList,\n
06034     emberAfFillExternalBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND|ZCL_FRAME_CONTROL_SERVER_TO_CLIENT,\n
06035         ZCL_ZLL_COMMISIONING_CLUSTER_ID,\n
06036         ZCL_GET_ENDPOINT_LIST_RESPONSE_COMMAND_ID,\n
06037         "uuub",\n
06038         total,\n
06039         startIndex,\n
06040         count,\n
06041         endpointInformationRecordList,\n
06042 );

```

```

06041             endpointInformationRecordListLen\
06042             );
06043
06044
06045 // @@
06058 #define emberAfFillCommandSampleMfgSpecificClusterCommandOne(argOne) \
06059     emberAfFillExternalManufacturerSpecificBuffer(ZCL_CLUSTER_SPECIFIC_COMMAND | ZCL_FRAME_CONTROL_CLIENT_TO_SERVER, \
06060             ZCL_SAMPLE_MFG_SPECIFIC_CLUSTER_ID, \
06061             0x1002, \
06062             ZCL_COMMAND_ONE_COMMAND_ID, \
06063             "u", \
06064             argOne \
06065             );
06066
06067
06075 #endif // CLUSTER_CLIENT_API

```

9.33 cluster-id.h File Reference

Defines

- #define ZCL_BASIC_CLUSTER_ID
- #define ZCL_POWER_CONFIG_CLUSTER_ID
- #define ZCL_DEVICE_TEMP_CLUSTER_ID
- #define ZCL_IDENTIFY_CLUSTER_ID
- #define ZCL_GROUPS_CLUSTER_ID
- #define ZCL_SCENES_CLUSTER_ID
- #define ZCL_ON_OFF_CLUSTER_ID
- #define ZCL_ON_OFF_SWITCH_CONFIG_CLUSTER_ID
- #define ZCL_LEVEL_CONTROL_CLUSTER_ID
- #define ZCL_ALARM_CLUSTER_ID
- #define ZCL_TIME_CLUSTER_ID
- #define ZCL_RSSI_LOCATION_CLUSTER_ID
- #define ZCL_BINARY_INPUT_BASIC_CLUSTER_ID
- #define ZCL_COMMISSIONING_CLUSTER_ID
- #define ZCL_SHADE_CONFIG_CLUSTER_ID
- #define ZCL_PUMP_CONFIG_CONTROL_CLUSTER_ID
- #define ZCL_THERMOSTAT_CLUSTER_ID
- #define ZCL_FAN_CONTROL_CLUSTER_ID
- #define ZCL_DEHUMID_CONTROL_CLUSTER_ID
- #define ZCL_THERMOSTAT_UI_CONFIG_CLUSTER_ID
- #define ZCL_COLOR_CONTROL_CLUSTER_ID
- #define ZCL_BALAST_CONFIGURATION_CLUSTER_ID
- #define ZCL_ILLUM_MEASUREMENT_CLUSTER_ID
- #define ZCL_ILLUM_LEVEL_SENSING_CLUSTER_ID
- #define ZCL_TEMP_MEASUREMENT_CLUSTER_ID
- #define ZCL_PRESSURE_MEASUREMENT_CLUSTER_ID
- #define ZCL_FLOW_MEASUREMENT_CLUSTER_ID
- #define ZCL_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER_ID
- #define ZCL_OCCUPANCY_SENSING_CLUSTER_ID
- #define ZCL_IAS_ZONE_CLUSTER_ID
- #define ZCL_IAS_ACE_CLUSTER_ID
- #define ZCL_IAS_WD_CLUSTER_ID
- #define ZCL_DOOR_LOCK_CLUSTER_ID

- #define ZCL_WINDOW_COVERING_CLUSTER_ID
- #define ZCL_POWER_PROFILE_CLUSTER_ID
- #define ZCL_APPLIANCE_CONTROL_CLUSTER_ID
- #define ZCL_POLL_CONTROL_CLUSTER_ID
- #define ZCL_APPLIANCE_IDENTIFICATION_CLUSTER_ID
- #define ZCL_METER_IDENTIFICATION_CLUSTER_ID
- #define ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID
- #define ZCL_GENERIC_TUNNEL_CLUSTER_ID
- #define ZCL_BACNET_PROTOCOL_TUNNEL_CLUSTER_ID
- #define ZCL_OTA_BOOTLOAD_CLUSTER_ID
- #define ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID
- #define ZCL_SIMPLE_METERING_CLUSTER_ID
- #define ZCL_PRICE_CLUSTER_ID
- #define ZCL_MESSAGING_CLUSTER_ID
- #define ZCL_TUNNELING_CLUSTER_ID
- #define ZCL_PREPAYMENT_CLUSTER_ID
- #define ZCL_KEY_ESTABLISHMENT_CLUSTER_ID
- #define ZCL_ZLL_COMMISSIONING_CLUSTER_ID
- #define ZCL_SAMPLE_MFG_SPECIFIC_CLUSTER_ID

9.33.1 Define Documentation

9.33.1.1 #define ZCL_BASIC_CLUSTER_ID

Definition at line 25 of file [cluster-id.h](#).

9.33.1.2 #define ZCL_POWER_CONFIG_CLUSTER_ID

Definition at line 26 of file [cluster-id.h](#).

9.33.1.3 #define ZCL_DEVICE_TEMP_CLUSTER_ID

Definition at line 27 of file [cluster-id.h](#).

9.33.1.4 #define ZCL_IDENTIFY_CLUSTER_ID

Definition at line 28 of file [cluster-id.h](#).

9.33.1.5 #define ZCL_GROUPS_CLUSTER_ID

Definition at line 29 of file [cluster-id.h](#).

9.33.1.6 #define ZCL_SCENES_CLUSTER_ID

Definition at line 30 of file [cluster-id.h](#).

9.33.1.7 #define ZCL_ON_OFF_CLUSTER_ID

Definition at line 31 of file [cluster-id.h](#).

9.33.1.8 #define ZCL_ON_OFF_SWITCH_CONFIG_CLUSTER_ID

Definition at line 32 of file [cluster-id.h](#).

9.33.1.9 #define ZCL_LEVEL_CONTROL_CLUSTER_ID

Definition at line 33 of file [cluster-id.h](#).

9.33.1.10 #define ZCL_ALARM_CLUSTER_ID

Definition at line 34 of file [cluster-id.h](#).

9.33.1.11 #define ZCL_TIME_CLUSTER_ID

Definition at line 35 of file [cluster-id.h](#).

9.33.1.12 #define ZCL_RSSI_LOCATION_CLUSTER_ID

Definition at line 36 of file [cluster-id.h](#).

9.33.1.13 #define ZCL_BINARY_INPUT_BASIC_CLUSTER_ID

Definition at line 37 of file [cluster-id.h](#).

9.33.1.14 #define ZCL_COMMISIONING_CLUSTER_ID

Definition at line 38 of file [cluster-id.h](#).

9.33.1.15 #define ZCL_SHADE_CONFIG_CLUSTER_ID

Definition at line 39 of file [cluster-id.h](#).

9.33.1.16 #define ZCL_PUMP_CONFIG_CONTROL_CLUSTER_ID

Definition at line 40 of file [cluster-id.h](#).

9.33.1.17 #define ZCL_THERMOSTAT_CLUSTER_ID

Definition at line 41 of file [cluster-id.h](#).

9.33.1.18 #define ZCL_FAN_CONTROL_CLUSTER_ID

Definition at line [42](#) of file [cluster-id.h](#).

9.33.1.19 #define ZCL_DEHUMID_CONTROL_CLUSTER_ID

Definition at line [43](#) of file [cluster-id.h](#).

9.33.1.20 #define ZCL_THERMOSTAT_UI_CONFIG_CLUSTER_ID

Definition at line [44](#) of file [cluster-id.h](#).

9.33.1.21 #define ZCL_COLOR_CONTROL_CLUSTER_ID

Definition at line [45](#) of file [cluster-id.h](#).

9.33.1.22 #define ZCL_BALLAST_CONFIGURATION_CLUSTER_ID

Definition at line [46](#) of file [cluster-id.h](#).

9.33.1.23 #define ZCL_ILLUM_MEASUREMENT_CLUSTER_ID

Definition at line [47](#) of file [cluster-id.h](#).

9.33.1.24 #define ZCL_ILLUM_LEVEL_SENSING_CLUSTER_ID

Definition at line [48](#) of file [cluster-id.h](#).

9.33.1.25 #define ZCL_TEMP_MEASUREMENT_CLUSTER_ID

Definition at line [49](#) of file [cluster-id.h](#).

9.33.1.26 #define ZCL_PRESSURE_MEASUREMENT_CLUSTER_ID

Definition at line [50](#) of file [cluster-id.h](#).

9.33.1.27 #define ZCL_FLOW_MEASUREMENT_CLUSTER_ID

Definition at line [51](#) of file [cluster-id.h](#).

9.33.1.28 #define ZCL_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER_ID

Definition at line [52](#) of file [cluster-id.h](#).

9.33.1.29 #define ZCL_OCCUPANCY_SENSING_CLUSTER_ID

Definition at line 53 of file [cluster-id.h](#).

9.33.1.30 #define ZCL_IAS_ZONE_CLUSTER_ID

Definition at line 54 of file [cluster-id.h](#).

9.33.1.31 #define ZCL_IAS_ACE_CLUSTER_ID

Definition at line 55 of file [cluster-id.h](#).

9.33.1.32 #define ZCL_IAS_WD_CLUSTER_ID

Definition at line 56 of file [cluster-id.h](#).

9.33.1.33 #define ZCL_DOOR_LOCK_CLUSTER_ID

Definition at line 57 of file [cluster-id.h](#).

9.33.1.34 #define ZCL_WINDOW_COVERING_CLUSTER_ID

Definition at line 58 of file [cluster-id.h](#).

9.33.1.35 #define ZCL_POWER_PROFILE_CLUSTER_ID

Definition at line 59 of file [cluster-id.h](#).

9.33.1.36 #define ZCL_APPLIANCE_CONTROL_CLUSTER_ID

Definition at line 60 of file [cluster-id.h](#).

9.33.1.37 #define ZCL_POLL_CONTROL_CLUSTER_ID

Definition at line 61 of file [cluster-id.h](#).

9.33.1.38 #define ZCL_APPLIANCE_IDENTIFICATION_CLUSTER_ID

Definition at line 62 of file [cluster-id.h](#).

9.33.1.39 #define ZCL_METER_IDENTIFICATION_CLUSTER_ID

Definition at line 63 of file [cluster-id.h](#).

9.33.1.40 #define ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID

Definition at line [64](#) of file [cluster-id.h](#).

9.33.1.41 #define ZCL_GENERIC_TUNNEL_CLUSTER_ID

Definition at line [65](#) of file [cluster-id.h](#).

9.33.1.42 #define ZCL_BACNET_PROTOCOL_TUNNEL_CLUSTER_ID

Definition at line [66](#) of file [cluster-id.h](#).

9.33.1.43 #define ZCL_OTA_BOOTLOAD_CLUSTER_ID

Definition at line [67](#) of file [cluster-id.h](#).

9.33.1.44 #define ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID

Definition at line [68](#) of file [cluster-id.h](#).

9.33.1.45 #define ZCL_SIMPLE_METERING_CLUSTER_ID

Definition at line [69](#) of file [cluster-id.h](#).

9.33.1.46 #define ZCL_PRICE_CLUSTER_ID

Definition at line [70](#) of file [cluster-id.h](#).

9.33.1.47 #define ZCL_MESSAGING_CLUSTER_ID

Definition at line [71](#) of file [cluster-id.h](#).

9.33.1.48 #define ZCL_TUNNELING_CLUSTER_ID

Definition at line [72](#) of file [cluster-id.h](#).

9.33.1.49 #define ZCL_PREPAYMENT_CLUSTER_ID

Definition at line [73](#) of file [cluster-id.h](#).

9.33.1.50 #define ZCL_KEY_ESTABLISHMENT_CLUSTER_ID

Definition at line [74](#) of file [cluster-id.h](#).

9.33.1.51 #define ZCL_ZLL_COMMISSIONING_CLUSTER_ID

Definition at line 75 of file [cluster-id.h](#).

9.33.1.52 #define ZCL_SAMPLE_MFG_SPECIFIC_CLUSTER_ID

Definition at line 76 of file [cluster-id.h](#).

9.34 cluster-id.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_CLUSTER_ID__
00009 #define __EMBER_AF_CLUSTER_ID__
00010
00011
00012 // Cluster domain specification levels:
00013 // * General: zcl-1.0-07-5123-03
00014 // * Closures: zcl-1.0-07-5123-03
00015 // * HA: ha-1.1-05-3520-27
00016 // * HVAC: zcl-1.0-07-5123-03
00017 // * Lighting: zcl-1.0-07-5123-03
00018 // * Measurement & Sensing: zcl-1.0-07-5123-03
00019 // * Security & Safety: zcl-1.0-07-5123-03
00020 // * Home Automation: UNKNOWN
00021 // * CBA: cba-1.0-05-3516-12
00022 // * SE: se-1.1-07-5356-17
00023 // * ZLL: zll-1.0-11-0037-10
00024 // * Ember: UNKNOWN
00025 #define ZCL_BASIC_CLUSTER_ID 0x0000
00026 #define ZCL_POWER_CONFIG_CLUSTER_ID 0x0001
00027 #define ZCL_DEVICE_TEMP_CLUSTER_ID 0x0002
00028 #define ZCL_IDENTIFY_CLUSTER_ID 0x0003
00029 #define ZCL_GROUPS_CLUSTER_ID 0x0004
00030 #define ZCL_SCENES_CLUSTER_ID 0x0005
00031 #define ZCL_ON_OFF_CLUSTER_ID 0x0006
00032 #define ZCL_ON_OFF_SWITCH_CONFIG_CLUSTER_ID 0x0007
00033 #define ZCL_LEVEL_CONTROL_CLUSTER_ID 0x0008
00034 #define ZCL_ALARM_CLUSTER_ID 0x0009
00035 #define ZCL_TIME_CLUSTER_ID 0x000A
00036 #define ZCL_RSSI_LOCATION_CLUSTER_ID 0x000B
00037 #define ZCL_BINARY_INPUT_BASIC_CLUSTER_ID 0x000F
00038 #define ZCL_COMMISSIONING_CLUSTER_ID 0x0015
00039 #define ZCL_SHADE_CONFIG_CLUSTER_ID 0x0100
00040 #define ZCL_PUMP_CONFIG_CONTROL_CLUSTER_ID 0x0200
00041 #define ZCL_THERMOSTAT_CLUSTER_ID 0x0201
00042 #define ZCL_FAN_CONTROL_CLUSTER_ID 0x0202
00043 #define ZCL_DEHUMID_CONTROL_CLUSTER_ID 0x0203
00044 #define ZCL_THERMOSTAT_UI_CONFIG_CLUSTER_ID 0x0204
00045 #define ZCL_COLOR_CONTROL_CLUSTER_ID 0x0300
00046 #define ZCL_BALLAST_CONFIGURATION_CLUSTER_ID 0x0301
00047 #define ZCL_ILLUM_MEASUREMENT_CLUSTER_ID 0x0400
00048 #define ZCL_ILLUM_LEVEL_SENSING_CLUSTER_ID 0x0401
00049 #define ZCL_TEMP_MEASUREMENT_CLUSTER_ID 0x0402
00050 #define ZCL_PRESSURE_MEASUREMENT_CLUSTER_ID 0x0403
00051 #define ZCL_FLOW_MEASUREMENT_CLUSTER_ID 0x0404
00052 #define ZCL_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER_ID 0x0405
00053 #define ZCL_OCCUPANCY_SENSING_CLUSTER_ID 0x0406
00054 #define ZCL_IAS_ZONE_CLUSTER_ID 0x0500
00055 #define ZCL_IAS_ACE_CLUSTER_ID 0x0501
00056 #define ZCL_IAS_WD_CLUSTER_ID 0x0502
00057 #define ZCL_DOOR_LOCK_CLUSTER_ID 0x0101
00058 #define ZCL_WINDOW_COVERING_CLUSTER_ID 0x0102
00059 #define ZCL_POWER_PROFILE_CLUSTER_ID 0x001A
00060 #define ZCL_APPLIANCE_CONTROL_CLUSTER_ID 0x001B
00061 #define ZCL_POLL_CONTROL_CLUSTER_ID 0x0020
00062 #define ZCL_APPLIANCE_IDENTIFICATION_CLUSTER_ID 0x0B00

```

```

00063 #define ZCL_METER_IDENTIFICATION_CLUSTER_ID          0x0B01
00064 #define ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID    0x0B02
00065 #define ZCL_GENERIC_TUNNEL_CLUSTER_ID                 0x0600
00066 #define ZCL_BACNET_PROTOCOL_TUNNEL_CLUSTER_ID         0x0601
00067 #define ZCL_OTA_BOOTLOAD_CLUSTER_ID                   0x0019
00068 #define ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID   0x0701
00069 #define ZCL_SIMPLE_METERING_CLUSTER_ID                0x0702
00070 #define ZCL_PRICE_CLUSTER_ID                          0x0700
00071 #define ZCL_MESSAGING_CLUSTER_ID                      0x0703
00072 #define ZCL_TUNNELING_CLUSTER_ID                     0x0704
00073 #define ZCL_PREPAYMENT_CLUSTER_ID                    0x0705
00074 #define ZCL_KEY_ESTABLISHMENT_CLUSTER_ID            0x0800
00075 #define ZCL_ZLL_COMMISSIONING_CLUSTER_ID           0x1000
00076 #define ZCL_SAMPLE_MFG_SPECIFIC_CLUSTER_ID        0xFC00
00077 #endif // __EMBER_AF_CLUSTER_ID__

```

9.35 color-control.h File Reference

Defines

- #define [ZCL_COLOR_CONTROL_HUE_STEP_UNIT](#)
- #define [ZCL_COLOR_CONTROL_SATURATION_STEP_UNIT](#)
- #define [ZCL_INVALID_COLOR_CONTROL_COMMAND_ID](#)

9.35.1 Define Documentation

9.35.1.1 #define ZCL_COLOR_CONTROL_HUE_STEP_UNIT

Definition at line 15 of file [color-control.h](#).

9.35.1.2 #define ZCL_COLOR_CONTROL_SATURATION_STEP_UNIT

Definition at line 16 of file [color-control.h](#).

9.35.1.3 #define ZCL_INVALID_COLOR_CONTROL_COMMAND_ID

Definition at line 17 of file [color-control.h](#).

9.36 color-control.h

```

00001 // ****
00002 // * color-control.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // *
00007
00008 // These two define the value of a "step". Color control
00009 // spec mentions stepping commands as units, which may be different
00010 // than changing the value of the actual hue and/or saturation by 1.
00011 // Therefore step or move functions use these. You may set this to 1
00012 // so that the "step" will be the same as changing value by 1.
00013 // Note: the moveTo command will not use these value as they
00014 // move continuously by 1 (or whatever needed by the tick).
00015 #define ZCL_COLOR_CONTROL_HUE_STEP_UNIT 1
00016 #define ZCL_COLOR_CONTROL_SATURATION_STEP_UNIT 1
00017 #define ZCL_INVALID_COLOR_CONTROL_COMMAND_ID 0xFF

```

9.37 command-id.h File Reference

Defines

- #define ZCL_READ_ATTRIBUTES_COMMAND_ID
- #define ZCL_READ_ATTRIBUTES_RESPONSE_COMMAND_ID
- #define ZCL_WRITE_ATTRIBUTES_COMMAND_ID
- #define ZCL_WRITE_ATTRIBUTES_UNDIVIDED_COMMAND_ID
- #define ZCL_WRITE_ATTRIBUTES_RESPONSE_COMMAND_ID
- #define ZCL_WRITE_ATTRIBUTES_NO_RESPONSE_COMMAND_ID
- #define ZCL_CONFIGURE_REPORTING_COMMAND_ID
- #define ZCL_CONFIGURE_REPORTING_RESPONSE_COMMAND_ID
- #define ZCL_READ_REPORTING_CONFIGURATION_COMMAND_ID
- #define ZCL_READ_REPORTING_CONFIGURATION_RESPONSE_COMMAND_ID
- #define ZCL_REPORT_ATTRIBUTES_COMMAND_ID
- #define ZCL_DEFAULT_RESPONSE_COMMAND_ID
- #define ZCL_DISCOVER_ATTRIBUTES_COMMAND_ID
- #define ZCL_DISCOVER_ATTRIBUTES_RESPONSE_COMMAND_ID
- #define ZCL_RESET_TO_FACTORY_DEFAULTS_COMMAND_ID
- #define ZCL_IDENTIFY_QUERY_RESPONSE_COMMAND_ID
- #define ZCL_IDENTIFY_COMMAND_ID
- #define ZCL_IDENTIFY_QUERY_COMMAND_ID
- #define ZCL_TRIGGER_EFFECT_COMMAND_ID
- #define ZCL_ADD_GROUP_RESPONSE_COMMAND_ID
- #define ZCL_VIEW_GROUP_RESPONSE_COMMAND_ID
- #define ZCL_GET_GROUP_MEMBERSHIP_RESPONSE_COMMAND_ID
- #define ZCL_REMOVE_GROUP_RESPONSE_COMMAND_ID
- #define ZCL_ADD_GROUP_COMMAND_ID
- #define ZCL_VIEW_GROUP_COMMAND_ID
- #define ZCL_GET_GROUP_MEMBERSHIP_COMMAND_ID
- #define ZCL_REMOVE_GROUP_COMMAND_ID
- #define ZCL_REMOVE_ALL_GROUPS_COMMAND_ID
- #define ZCL_ADD_GROUP_IF_IDENTIFYING_COMMAND_ID
- #define ZCL_ADD_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_VIEW_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_REMOVE_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_REMOVE_ALL_SCENES_RESPONSE_COMMAND_ID
- #define ZCL_STORE_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_GET_SCENE_MEMBERSHIP_RESPONSE_COMMAND_ID
- #define ZCL_ENHANCED_ADD_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_ENHANCED_VIEW_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_COPY_SCENE_RESPONSE_COMMAND_ID
- #define ZCL_ADD_SCENE_COMMAND_ID
- #define ZCL_VIEW_SCENE_COMMAND_ID
- #define ZCL_REMOVE_SCENE_COMMAND_ID
- #define ZCL_REMOVE_ALL_SCENES_COMMAND_ID
- #define ZCL_STORE_SCENE_COMMAND_ID
- #define ZCL_RECALL_SCENE_COMMAND_ID
- #define ZCL_GET_SCENE_MEMBERSHIP_COMMAND_ID
- #define ZCL_ENHANCED_ADD_SCENE_COMMAND_ID

- #define ZCL_ENHANCED_VIEW_SCENE_COMMAND_ID
- #define ZCL_COPY_SCENE_COMMAND_ID
- #define ZCL_OFF_COMMAND_ID
- #define ZCL_ON_COMMAND_ID
- #define ZCL_TOGGLE_COMMAND_ID
- #define ZCL_OFF_WITH_EFFECT_COMMAND_ID
- #define ZCL_ON_WITH_RECALL_GLOBAL_SCENE_COMMAND_ID
- #define ZCL_ON_WITH_TIMED_OFF_COMMAND_ID
- #define ZCL_SAMPLE_MFG_SPECIFIC_OFF_WITH_TRANSITION_COMMAND_ID
- #define ZCL_SAMPLE_MFG_SPECIFIC_ON_WITH_TRANSITION_COMMAND_ID
- #define ZCL_SAMPLE_MFG_SPECIFIC_TOGGLE_WITH_TRANSITION_COMMAND_ID
- #define ZCL_MOVE_TO_LEVEL_COMMAND_ID
- #define ZCL_MOVE_COMMAND_ID
- #define ZCL_STEP_COMMAND_ID
- #define ZCL_STOP_COMMAND_ID
- #define ZCL_MOVE_TO_LEVEL_WITH_ON_OFF_COMMAND_ID
- #define ZCL_MOVE_WITH_ON_OFF_COMMAND_ID
- #define ZCL_STEP_WITH_ON_OFF_COMMAND_ID
- #define ZCL_STOP_WITH_ON_OFF_COMMAND_ID
- #define ZCL_ALARM_COMMAND_ID
- #define ZCL_GET_ALARM_RESPONSE_COMMAND_ID
- #define ZCL_RESET_ALARM_COMMAND_ID
- #define ZCL_RESET_ALL_ALARMS_COMMAND_ID
- #define ZCL_GET_ALARM_COMMAND_ID
- #define ZCL_RESET_ALARM_LOG_COMMAND_ID
- #define ZCL_DEVICE_CONFIGURATION_RESPONSE_COMMAND_ID
- #define ZCL_LOCATION_DATA_RESPONSE_COMMAND_ID
- #define ZCL_LOCATION_DATA_NOTIFICATION_COMMAND_ID
- #define ZCL_COMPACT_LOCATION_DATA_NOTIFICATION_COMMAND_ID
- #define ZCL_RSSI_PING_COMMAND_ID
- #define ZCL_RSSI_REQUEST_COMMAND_ID
- #define ZCL_REPORT_RSSI_MEASUREMENTS_COMMAND_ID
- #define ZCL_REQUEST_OWN_LOCATION_COMMAND_ID
- #define ZCL_SET_ABSOLUTE_LOCATION_COMMAND_ID
- #define ZCL_SET_DEVICE_CONFIGURATION_COMMAND_ID
- #define ZCL_GET_DEVICE_CONFIGURATION_COMMAND_ID
- #define ZCL_GET_LOCATION_DATA_COMMAND_ID
- #define ZCL_RSSI_RESPONSE_COMMAND_ID
- #define ZCL_SEND_PINGS_COMMAND_ID
- #define ZCL_ANCHOR_NODE_ANNOUNCE_COMMAND_ID
- #define ZCL_RESTART_DEVICE_RESPONSE_COMMAND_ID
- #define ZCL_SAVE_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID
- #define ZCL_RESTORE_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID
- #define ZCL_RESET_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID
- #define ZCL_RESTART_DEVICE_COMMAND_ID
- #define ZCL_SAVE_STARTUP_PARAMETERS_COMMAND_ID
- #define ZCL_RESTORE_STARTUP_PARAMETERS_COMMAND_ID
- #define ZCL_RESET_STARTUP_PARAMETERS_COMMAND_ID
- #define ZCL_CURRENT_WEEKLY_SCHEDULE_COMMAND_ID
- #define ZCL_RELAY_STATUS_LOG_COMMAND_ID

- #define ZCL_SETPOINT_RAISE_LOWER_COMMAND_ID
- #define ZCL_SET_WEEKLY_SCHEDULE_COMMAND_ID
- #define ZCL_GET_WEEKLY_SCHEDULE_COMMAND_ID
- #define ZCL_CLEAR_WEEKLY_SCHEDULE_COMMAND_ID
- #define ZCL_GET_RELAY_STATUS_LOG_COMMAND_ID
- #define ZCL_MOVE_TO_HUE_COMMAND_ID
- #define ZCL_MOVE_HUE_COMMAND_ID
- #define ZCL_STEP_HUE_COMMAND_ID
- #define ZCL_MOVE_TO_SATURATION_COMMAND_ID
- #define ZCL_MOVE_SATURATION_COMMAND_ID
- #define ZCL_STEP_SATURATION_COMMAND_ID
- #define ZCL_MOVE_TO_HUE_AND_SATURATION_COMMAND_ID
- #define ZCL_MOVE_TO_COLOR_COMMAND_ID
- #define ZCL_MOVE_COLOR_COMMAND_ID
- #define ZCL_STEP_COLOR_COMMAND_ID
- #define ZCL_MOVE_TO_COLOR_TEMPERATURE_COMMAND_ID
- #define ZCL_ENHANCED_MOVE_TO_HUE_COMMAND_ID
- #define ZCL_ENHANCED_MOVE_HUE_COMMAND_ID
- #define ZCL_ENHANCED_STEP_HUE_COMMAND_ID
- #define ZCL_ENHANCED_MOVE_TO_HUE_AND_SATURATION_COMMAND_ID
- #define ZCL_COLOR_LOOP_SET_COMMAND_ID
- #define ZCL_STOP_MOVE_STEP_COMMAND_ID
- #define ZCL_MOVE_COLOR_TEMPERATURE_COMMAND_ID
- #define ZCL_STEP_COLOR_TEMPERATUE_COMMAND_ID
- #define ZCL_ZONE_STATUS_CHANGE_NOTIFICATION_COMMAND_ID
- #define ZCL_ZONE_ENROLL_REQUEST_COMMAND_ID
- #define ZCL_ZONE_ENROLL_RESPONSE_COMMAND_ID
- #define ZCL_ARM_RESPONSE_COMMAND_ID
- #define ZCL_GET_ZONE_ID_MAP_RESPONSE_COMMAND_ID
- #define ZCL_GET_ZONE_INFORMATION_RESPONSE_COMMAND_ID
- #define ZCL_ARM_COMMAND_ID
- #define ZCL_BYPASS_COMMAND_ID
- #define ZCL_EMERGENCY_COMMAND_ID
- #define ZCL_FIRE_COMMAND_ID
- #define ZCL_PANIC_COMMAND_ID
- #define ZCL_GET_ZONE_ID_MAP_COMMAND_ID
- #define ZCL_GET_ZONE_INFORMATION_COMMAND_ID
- #define ZCL_START_WARNING_COMMAND_ID
- #define ZCL_SQUAWK_COMMAND_ID
- #define ZCL_LOCK_DOOR_RESPONSE_COMMAND_ID
- #define ZCL_UNLOCK_DOOR_RESPONSE_COMMAND_ID
- #define ZCL_GET_LOCK_STATUS_RESPONSE_COMMAND_ID
- #define ZCL_UNLOCK_WITH_TIMEOUT_RESPONSE_COMMAND_ID
- #define ZCL_GET_BATTERY_LEVEL_RESPONSE_COMMAND_ID
- #define ZCL_SET_RF_LOCKOUT_TIME_RESPONSE_COMMAND_ID
- #define ZCL_GET_RF_LOCKOUT_TIME_RESPONSE_COMMAND_ID
- #define ZCL_GET_LOG_RECORD_RESPONSE_COMMAND_ID
- #define ZCL_USER_CODE_SET_RESPONSE_COMMAND_ID
- #define ZCL_USER_CODE_GET_RESPONSE_COMMAND_ID
- #define ZCL_USER_CODE_CLEAR_RESPONSE_COMMAND_ID

- #define ZCL_CLEAR_ALL_USER_CODES_RESPONSE_COMMAND_ID
- #define ZCL_SET_USER_CODE_STATUS_RESPONSE_COMMAND_ID
- #define ZCL_GET_USER_CODE_STATUS_RESPONSE_COMMAND_ID
- #define ZCL_GET_LAST_USER_ID_ENTERED_RESPONSE_COMMAND_ID
- #define ZCL_USER_ADDED_COMMAND_ID
- #define ZCL_USER_DELETED_COMMAND_ID
- #define ZCL_SET_SCHEDULE_SLOT_RESPONSE_COMMAND_ID
- #define ZCL_GET_SCHEDULE_SLOT_RESPONSE_COMMAND_ID
- #define ZCL_SET_SCHEDULE_SLOT_STATUS_RESPONSE_COMMAND_ID
- #define ZCL_LOCK_DOOR_COMMAND_ID
- #define ZCL_UNLOCK_DOOR_COMMAND_ID
- #define ZCL_GET_LOCK_STATUS_COMMAND_ID
- #define ZCL_UNLOCK_WITH_TIMEOUT_COMMAND_ID
- #define ZCL_GET_BATTERYLEVEL_COMMAND_ID
- #define ZCL_SET_RF_LOCKOUT_TIME_COMMAND_ID
- #define ZCL_GET_RF_LOCKOUT_TIME_COMMAND_ID
- #define ZCL_GET_LOG_RECORD_COMMAND_ID
- #define ZCL_USER_CODE_SET_COMMAND_ID
- #define ZCL_USER_CODE_GET_COMMAND_ID
- #define ZCL_USER_CODE_CLEAR_COMMAND_ID
- #define ZCL_CLEAR_ALL_USER_CODES_COMMAND_ID
- #define ZCL_SET_USER_CODE_STATUS_COMMAND_ID
- #define ZCL_GET_USER_CODE_STATUS_COMMAND_ID
- #define ZCL_GET_LAST_USER_ID_ENTERED_COMMAND_ID
- #define ZCL_SET_SCHEDULE_SLOT_COMMAND_ID
- #define ZCL_GET_SCHEDULE_SLOT_COMMAND_ID
- #define ZCL_SET_SCHEDULE_SLOT_STATUS_COMMAND_ID
- #define ZCL_SET_INDICATOR_COMMAND_ID
- #define ZCL_WINDOW_COVERING_UP_OPEN_COMMAND_ID
- #define ZCL_WINDOW_COVERING_DOWN_CLOSE_COMMAND_ID
- #define ZCL_WINDOW_COVERING_STOP_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_LIFT_SetPOINT_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_LIFT_VALUE_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_LIFT_PERCENTAGE_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_TILT_SetPOINT_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_TILT_VALUE_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_TILT_PERCENTAGE_COMMAND_ID
- #define ZCL_WINDOW_COVERING_GO_TO_PROGRAM_SetPOINT_COMMAND_ID
- #define ZCL_POWER_PROFILE_NOTIFICATION_COMMAND_ID
- #define ZCL_POWER_PROFILE_RESPONSE_COMMAND_ID
- #define ZCL_POWER_PROFILE_STATE_RESPONSE_COMMAND_ID
- #define ZCL_GET_POWER_PROFILE_PRICE_COMMAND_ID
- #define ZCL_POWER_PROFILES_STATE_NOTIFICATION_COMMAND_ID
- #define ZCL_GET_OVERALL_SCHEDULE_PRICE_COMMAND_ID
- #define ZCL_ENERGY_PHASES_SCHEDULE_REQUEST_COMMAND_ID
- #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_RESPONSE_COMMAND_ID
- #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_NOTIFICATION_COMMAND_ID
- #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_NOTIFICATION_COMMAND_ID
- #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_RESPONSE_COMMAND_ID

- #define ZCL_POWER_PROFILE_REQUEST_COMMAND_ID
- #define ZCL_POWER_PROFILE_STATE_REQUEST_COMMAND_ID
- #define ZCL_GET_POWER_PROFILE_PRICE_RESPONSE_COMMAND_ID
- #define ZCL_GET_OVERALL_SCHEDULE_PRICE_RESPONSE_COMMAND_ID
- #define ZCL_ENERGY_PHASES_SCHEDULE_NOTIFICATION_COMMAND_ID
- #define ZCL_ENERGY_PHASES_SCHEDULE_RESPONSE_COMMAND_ID
- #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_REQUEST_COMMAND_ID
- #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_REQUEST_COMMAND_ID
- #define ZCL_SIGNAL_STATE_RESPONSE_COMMAND_ID
- #define ZCL_SIGNAL_STATE_NOTIFICATION_COMMAND_ID
- #define ZCL_EXECUTION_OF_A_COMMAND_COMMAND_ID
- #define ZCL_SIGNAL_STATE_COMMAND_ID
- #define ZCL_WRITE_FUNCTIONS_COMMAND_ID
- #define ZCL_OVERLOAD_PAUSE_RESUME_COMMAND_ID
- #define ZCL_OVERLOAD_PAUSE_COMMAND_ID
- #define ZCL_OVERLOAD_WARNING_COMMAND_ID
- #define ZCL_CHECK_IN_COMMAND_ID
- #define ZCL_CHECK_IN_RESPONSE_COMMAND_ID
- #define ZCL_FAST_POLL_STOP_COMMAND_ID
- #define ZCL_SET_LONG_POLL_INTERVAL_COMMAND_ID
- #define ZCL_SET_SHORT_POLL_INTERVAL_COMMAND_ID
- #define ZCL_GET_ALERTS_RESPONSE_COMMAND_ID
- #define ZCL_ALERTS_NOTIFICATION_COMMAND_ID
- #define ZCL_EVENTS_NOTIFICATION_COMMAND_ID
- #define ZCL_GET_ALERTS_COMMAND_ID
- #define ZCL_MATCH_PROTOCOL_ADDRESS_RESPONSE_COMMAND_ID
- #define ZCL_ADVERTISE_PROTOCOL_ADDRESS_COMMAND_ID
- #define ZCL_MATCH_PROTOCOL_ADDRESS_COMMAND_ID
- #define ZCL_TRANSFER_NPDU_COMMAND_ID
- #define ZCL_IMAGE_NOTIFY_COMMAND_ID
- #define ZCL_QUERY_NEXT_IMAGE_RESPONSE_COMMAND_ID
- #define ZCL_IMAGE_BLOCK_RESPONSE_COMMAND_ID
- #define ZCL_UPGRADE_END_RESPONSE_COMMAND_ID
- #define ZCL_QUERY_SPECIFIC_FILE_RESPONSE_COMMAND_ID
- #define ZCL_QUERY_NEXT_IMAGE_REQUEST_COMMAND_ID
- #define ZCL_IMAGE_BLOCK_REQUEST_COMMAND_ID
- #define ZCL_IMAGE_PAGE_REQUEST_COMMAND_ID
- #define ZCL_UPGRADE_END_REQUEST_COMMAND_ID
- #define ZCL_QUERY_SPECIFIC_FILE_REQUEST_COMMAND_ID
- #define ZCL_LOAD_CONTROL_EVENT_COMMAND_ID
- #define ZCL_CANCEL_LOAD_CONTROL_EVENT_COMMAND_ID
- #define ZCL_CANCEL_ALL_LOAD_CONTROL_EVENTS_COMMAND_ID
- #define ZCL_REPORT_EVENT_STATUS_COMMAND_ID
- #define ZCL_GET_SCHEDULED_EVENTS_COMMAND_ID
- #define ZCL_GET_PROFILE_RESPONSE_COMMAND_ID
- #define ZCL_REQUEST_MIRROR_COMMAND_ID
- #define ZCL_REMOVE_MIRROR_COMMAND_ID
- #define ZCL_REQUEST_FAST_POLL_MODE_RESPONSE_COMMAND_ID
- #define ZCL_GET_PROFILE_COMMAND_ID
- #define ZCL_REQUEST_MIRROR_RESPONSE_COMMAND_ID

- #define ZCL_MIRROR_REMOVED_COMMAND_ID
- #define ZCL_REQUEST_FAST_POLL_MODE_COMMAND_ID
- #define ZCL_PUBLISH_PRICE_COMMAND_ID
- #define ZCL_PUBLISH_BLOCK_PERIOD_COMMAND_ID
- #define ZCL_GET_CURRENT_PRICE_COMMAND_ID
- #define ZCL_GET_SCHEDULED_PRICES_COMMAND_ID
- #define ZCL_PRICE_ACKNOWLEDGEMENT_COMMAND_ID
- #define ZCL_GET_BLOCK_PERIODS_COMMAND_ID
- #define ZCL_DISPLAY_MESSAGE_COMMAND_ID
- #define ZCL_CANCEL_MESSAGE_COMMAND_ID
- #define ZCL_GET_LAST_MESSAGE_COMMAND_ID
- #define ZCL_MESSAGE_CONFIRMATION_COMMAND_ID
- #define ZCL_REQUEST_TUNNEL_RESPONSE_COMMAND_ID
- #define ZCL_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID
- #define ZCL_TRANSFER_DATA_ERROR_SERVER_TO_CLIENT_COMMAND_ID
- #define ZCL_ACK_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID
- #define ZCL_READY_DATA_SERVER_TO_CLIENT_COMMAND_ID
- #define ZCL_SUPPORTED_TUNNEL_PROTOCOLS_RESPONSE_COMMAND_ID
- #define ZCL_TUNNEL_CLOSURE_NOTIFICATION_COMMAND_ID
- #define ZCL_REQUEST_TUNNEL_COMMAND_ID
- #define ZCL_CLOSE_TUNNEL_COMMAND_ID
- #define ZCL_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID
- #define ZCL_TRANSFER_DATA_ERROR_CLIENT_TO_SERVER_COMMAND_ID
- #define ZCL_ACK_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID
- #define ZCL_READY_DATA_CLIENT_TO_SERVER_COMMAND_ID
- #define ZCL_GET_SUPPORTED_TUNNEL_PROTOCOLS_COMMAND_ID
- #define ZCL_SUPPLY_STATUS_RESPONSE_COMMAND_ID
- #define ZCL_SELECT_AVAILABLE_EMERGENCY_CREDIT_COMMAND_ID
- #define ZCL_CHANGE_SUPPLY_COMMAND_ID
- #define ZCL_INITIATE_KEY_ESTABLISHMENT_RESPONSE_COMMAND_ID
- #define ZCL_EPHEMERAL_DATA_RESPONSE_COMMAND_ID
- #define ZCL_CONFIRM_KEY_DATA_RESPONSE_COMMAND_ID
- #define ZCL_INITIATE_KEY_ESTABLISHMENT_REQUEST_COMMAND_ID
- #define ZCL_EPHEMERAL_DATA_REQUEST_COMMAND_ID
- #define ZCL_CONFIRM_KEY_DATA_REQUEST_COMMAND_ID
- #define ZCL_TERMINATE_KEY_ESTABLISHMENT_COMMAND_ID
- #define ZCL_SCAN_RESPONSE_COMMAND_ID
- #define ZCL_DEVICE_INFORMATION_RESPONSE_COMMAND_ID
- #define ZCL_NETWORK_START_RESPONSE_COMMAND_ID
- #define ZCL_NETWORK_JOIN_ROUTER_RESPONSE_COMMAND_ID
- #define ZCL_NETWORK_JOIN_END_DEVICE_RESPONSE_COMMAND_ID
- #define ZCL_ENDPOINT_INFORMATION_COMMAND_ID
- #define ZCL_GET_GROUP_IDENTIFIERS_RESPONSE_COMMAND_ID
- #define ZCL_GET_ENDPOINT_LIST_RESPONSE_COMMAND_ID
- #define ZCL_SCAN_REQUEST_COMMAND_ID
- #define ZCL_DEVICE_INFORMATION_REQUEST_COMMAND_ID
- #define ZCL_IDENTIFY_REQUEST_COMMAND_ID
- #define ZCL_RESET_TO_FACTORY_NEW_REQUEST_COMMAND_ID
- #define ZCL_NETWORK_START_REQUEST_COMMAND_ID
- #define ZCL_NETWORK_JOIN_ROUTER_REQUEST_COMMAND_ID

- #define ZCL_NETWORK_JOIN_END_DEVICE_REQUEST_COMMAND_ID
- #define ZCL_NETWORK_UPDATE_REQUEST_COMMAND_ID
- #define ZCL_GET_GROUP_IDENTIFIERS_REQUEST_COMMAND_ID
- #define ZCL_GET_ENDPOINT_LIST_REQUEST_COMMAND_ID
- #define ZCL_COMMAND_ONE_COMMAND_ID

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9.37.1.1 #define ZCL_READ_ATTRIBUTES_COMMAND_ID

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9.37.1.2 #define ZCL_READ_ATTRIBUTES_RESPONSE_COMMAND_ID

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9.37.1.3 #define ZCL_WRITE_ATTRIBUTES_COMMAND_ID

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9.37.1.4 #define ZCL_WRITE_ATTRIBUTES_UNDIVIDED_COMMAND_ID

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9.37.1.5 #define ZCL_WRITE_ATTRIBUTES_RESPONSE_COMMAND_ID

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9.37.1.6 #define ZCL_WRITE_ATTRIBUTES_NO_RESPONSE_COMMAND_ID

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9.37.1.7 #define ZCL_CONFIGURE_REPORTING_COMMAND_ID

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9.37.1.8 #define ZCL_CONFIGURE_REPORTING_RESPONSE_COMMAND_ID

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9.37.1.9 #define ZCL_READ_REPORTING_CONFIGURATION_COMMAND_ID

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9.37.1.10 #define ZCL_READ_REPORTING_CONFIGURATION_RESPONSE_COMMAND_ID

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9.37.1.11 #define ZCL_REPORT_ATTRIBUTES_COMMAND_ID

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9.37.1.12 #define ZCL_DEFAULT_RESPONSE_COMMAND_ID

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9.37.1.21 #define ZCL_VIEW_GROUP_RESPONSE_COMMAND_ID

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9.37.1.22 #define ZCL_GET_GROUP_MEMBERSHIP_RESPONSE_COMMAND_ID

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9.37.1.25 #define ZCL_VIEW_GROUP_COMMAND_ID

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9.37.1.28 #define ZCL_REMOVE_ALL_GROUPS_COMMAND_ID

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9.37.1.33 #define ZCL_REMOVE_ALL_SCENES_RESPONSE_COMMAND_ID

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9.37.1.59 #define ZCL_MOVE_COMMAND_ID

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9.37.1.63 #define ZCL_MOVE_WITH_ON_OFF_COMMAND_ID

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9.37.1.114 #define ZCL_ENHANCED_MOVE_HUE_COMMAND_ID

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9.37.1.178 #define ZCL_WINDOW_COVERING_GO_TO_LIFT_SETPOINT_COMMAND_ID

Definition at line [306](#) of file [command-id.h](#).

9.37.1.179 #define ZCL_WINDOW_COVERING_GO_TO_LIFT_VALUE_COMMAND_ID

Definition at line [307](#) of file [command-id.h](#).

9.37.1.180 #define ZCL_WINDOW_COVERING_GO_TO_LIFT_PERCENTAGE_COMMAND_ID

Definition at line [308](#) of file [command-id.h](#).

9.37.1.181 #define ZCL_WINDOW_COVERING_GO_TO_TILT_SETPOINT_COMMAND_ID

Definition at line [309](#) of file [command-id.h](#).

9.37.1.182 #define ZCL_WINDOW_COVERING_GO_TO_TILT_VALUE_COMMAND_ID

Definition at line [310](#) of file [command-id.h](#).

9.37.1.183 #define ZCL_WINDOW_COVERING_GO_TO_TILT_PERCENTAGE_COMMAND_ID

Definition at line [311](#) of file [command-id.h](#).

9.37.1.184 #define ZCL_WINDOW_COVERING_GO_TO_PROGRAM_SETPOINT_COMMAND_ID

Definition at line [312](#) of file [command-id.h](#).

9.37.1.185 #define ZCL_POWER_PROFILE_NOTIFICATION_COMMAND_ID

Definition at line [319](#) of file [command-id.h](#).

9.37.1.186 #define ZCL_POWER_PROFILE_RESPONSE_COMMAND_ID

Definition at line [320](#) of file [command-id.h](#).

9.37.1.187 #define ZCL_POWER_PROFILE_STATE_RESPONSE_COMMAND_ID

Definition at line [321](#) of file [command-id.h](#).

9.37.1.188 #define ZCL_GET_POWER_PROFILE_PRICE_COMMAND_ID

Definition at line [322](#) of file [command-id.h](#).

9.37.1.189 #define ZCL_POWER_PROFILES_STATE_NOTIFICATION_COMMAND_ID

Definition at line [323](#) of file [command-id.h](#).

9.37.1.190 #define ZCL_GET_OVERALL_SCHEDULE_PRICE_COMMAND_ID

Definition at line [324](#) of file [command-id.h](#).

9.37.1.191 #define ZCL_ENERGY_PHASES_SCHEDULE_REQUEST_COMMAND_ID

Definition at line [325](#) of file [command-id.h](#).

9.37.1.192 #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_RESPONSE_COMMAND_ID

Definition at line [326](#) of file [command-id.h](#).

9.37.1.193 #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_NOTIFICATION_COMMAND_ID

Definition at line [327](#) of file [command-id.h](#).

9.37.1.194 #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_NOTIFICATION_COMMAND_ID

Definition at line [328](#) of file [command-id.h](#).

9.37.1.195 #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_RESPONSE_COMMAND_ID

Definition at line [329](#) of file [command-id.h](#).

9.37.1.196 #define ZCL_POWER_PROFILE_REQUEST_COMMAND_ID

Definition at line [332](#) of file [command-id.h](#).

9.37.1.197 #define ZCL_POWER_PROFILE_STATE_REQUEST_COMMAND_ID

Definition at line [333](#) of file [command-id.h](#).

9.37.1.198 #define ZCL_GET_POWER_PROFILE_PRICE_RESPONSE_COMMAND_ID

Definition at line [334](#) of file [command-id.h](#).

9.37.1.199 #define ZCL_GET_OVERALL_SCHEDULE_PRICE_RESPONSE_COMMAND_ID

Definition at line [335](#) of file [command-id.h](#).

9.37.1.200 #define ZCL_ENERGY_PHASES_SCHEDULE_NOTIFICATION_COMMAND_ID

Definition at line [336](#) of file [command-id.h](#).

9.37.1.201 #define ZCL_ENERGY_PHASES_SCHEDULE_RESPONSE_COMMAND_ID

Definition at line [337](#) of file [command-id.h](#).

9.37.1.202 #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_REQUEST_COMMAND_ID

Definition at line [338](#) of file [command-id.h](#).

9.37.1.203 #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_REQUEST_COMMAND_ID

Definition at line [339](#) of file [command-id.h](#).

9.37.1.204 #define ZCL_SIGNAL_STATE_RESPONSE_COMMAND_ID

Definition at line [346](#) of file [command-id.h](#).

9.37.1.205 #define ZCL_SIGNAL_STATE_NOTIFICATION_COMMAND_ID

Definition at line [347](#) of file [command-id.h](#).

9.37.1.206 #define ZCL_EXECUTION_OF_A_COMMAND_COMMAND_ID

Definition at line [350](#) of file [command-id.h](#).

9.37.1.207 #define ZCL_SIGNAL_STATE_COMMAND_ID

Definition at line [351](#) of file [command-id.h](#).

9.37.1.208 #define ZCL_WRITE_FUNCTIONS_COMMAND_ID

Definition at line [352](#) of file [command-id.h](#).

9.37.1.209 #define ZCL_OVERLOAD_PAUSE_RESUME_COMMAND_ID

Definition at line [353](#) of file [command-id.h](#).

9.37.1.210 #define ZCL_OVERLOAD_PAUSE_COMMAND_ID

Definition at line [354](#) of file [command-id.h](#).

9.37.1.211 #define ZCL_OVERLOAD_WARNING_COMMAND_ID

Definition at line [355](#) of file [command-id.h](#).

9.37.1.212 #define ZCL_CHECK_IN_COMMAND_ID

Definition at line [362](#) of file [command-id.h](#).

9.37.1.213 #define ZCL_CHECK_IN_RESPONSE_COMMAND_ID

Definition at line [365](#) of file [command-id.h](#).

9.37.1.214 #define ZCL_FAST_POLL_STOP_COMMAND_ID

Definition at line [366](#) of file [command-id.h](#).

9.37.1.215 #define ZCL_SET_LONG_POLL_INTERVAL_COMMAND_ID

Definition at line [367](#) of file [command-id.h](#).

9.37.1.216 #define ZCL_SET_SHORT_POLL_INTERVAL_COMMAND_ID

Definition at line [368](#) of file [command-id.h](#).

9.37.1.217 #define ZCL_GET_ALERTS_RESPONSE_COMMAND_ID

Definition at line [375](#) of file [command-id.h](#).

9.37.1.218 #define ZCL_ALERTS_NOTIFICATION_COMMAND_ID

Definition at line [376](#) of file [command-id.h](#).

9.37.1.219 #define ZCL_EVENTS_NOTIFICATION_COMMAND_ID

Definition at line [377](#) of file [command-id.h](#).

9.37.1.220 #define ZCL_GET_ALERTS_COMMAND_ID

Definition at line 380 of file [command-id.h](#).

9.37.1.221 #define ZCL_MATCH_PROTOCOL_ADDRESS_RESPONSE_COMMAND_ID

Definition at line 387 of file [command-id.h](#).

9.37.1.222 #define ZCL_ADVERTISE_PROTOCOL_ADDRESS_COMMAND_ID

Definition at line 388 of file [command-id.h](#).

9.37.1.223 #define ZCL_MATCH_PROTOCOL_ADDRESS_COMMAND_ID

Definition at line 391 of file [command-id.h](#).

9.37.1.224 #define ZCL_TRANSFER_NPDU_COMMAND_ID

Definition at line 398 of file [command-id.h](#).

9.37.1.225 #define ZCL_IMAGE_NOTIFY_COMMAND_ID

Definition at line 405 of file [command-id.h](#).

9.37.1.226 #define ZCL_QUERY_NEXT_IMAGE_RESPONSE_COMMAND_ID

Definition at line 406 of file [command-id.h](#).

9.37.1.227 #define ZCL_IMAGE_BLOCK_RESPONSE_COMMAND_ID

Definition at line 407 of file [command-id.h](#).

9.37.1.228 #define ZCL_UPGRADE_END_RESPONSE_COMMAND_ID

Definition at line 408 of file [command-id.h](#).

9.37.1.229 #define ZCL_QUERY_SPECIFIC_FILE_RESPONSE_COMMAND_ID

Definition at line 409 of file [command-id.h](#).

9.37.1.230 #define ZCL_QUERY_NEXT_IMAGE_REQUEST_COMMAND_ID

Definition at line 412 of file [command-id.h](#).

9.37.1.231 #define ZCL_IMAGE_BLOCK_REQUEST_COMMAND_ID

Definition at line [413](#) of file [command-id.h](#).

9.37.1.232 #define ZCL_IMAGE_PAGE_REQUEST_COMMAND_ID

Definition at line [414](#) of file [command-id.h](#).

9.37.1.233 #define ZCL_UPGRADE_END_REQUEST_COMMAND_ID

Definition at line [415](#) of file [command-id.h](#).

9.37.1.234 #define ZCL_QUERY_SPECIFIC_FILE_REQUEST_COMMAND_ID

Definition at line [416](#) of file [command-id.h](#).

9.37.1.235 #define ZCL_LOAD_CONTROL_EVENT_COMMAND_ID

Definition at line [423](#) of file [command-id.h](#).

9.37.1.236 #define ZCL_CANCEL_LOAD_CONTROL_EVENT_COMMAND_ID

Definition at line [424](#) of file [command-id.h](#).

9.37.1.237 #define ZCL_CANCEL_ALL_LOAD_CONTROL_EVENTS_COMMAND_ID

Definition at line [425](#) of file [command-id.h](#).

9.37.1.238 #define ZCL_REPORT_EVENT_STATUS_COMMAND_ID

Definition at line [428](#) of file [command-id.h](#).

9.37.1.239 #define ZCL_GET_SCHEDULED_EVENTS_COMMAND_ID

Definition at line [429](#) of file [command-id.h](#).

9.37.1.240 #define ZCL_GET_PROFILE_RESPONSE_COMMAND_ID

Definition at line [436](#) of file [command-id.h](#).

9.37.1.241 #define ZCL_REQUEST_MIRROR_COMMAND_ID

Definition at line [437](#) of file [command-id.h](#).

9.37.1.242 #define ZCL_REMOVE_MIRROR_COMMAND_ID

Definition at line [438](#) of file [command-id.h](#).

9.37.1.243 #define ZCL_REQUEST_FAST_POLL_MODE_RESPONSE_COMMAND_ID

Definition at line [439](#) of file [command-id.h](#).

9.37.1.244 #define ZCL_GET_PROFILE_COMMAND_ID

Definition at line [442](#) of file [command-id.h](#).

9.37.1.245 #define ZCL_REQUEST_MIRROR_RESPONSE_COMMAND_ID

Definition at line [443](#) of file [command-id.h](#).

9.37.1.246 #define ZCL_MIRROR_REMOVED_COMMAND_ID

Definition at line [444](#) of file [command-id.h](#).

9.37.1.247 #define ZCL_REQUEST_FAST_POLL_MODE_COMMAND_ID

Definition at line [445](#) of file [command-id.h](#).

9.37.1.248 #define ZCL_PUBLISH_PRICE_COMMAND_ID

Definition at line [452](#) of file [command-id.h](#).

9.37.1.249 #define ZCL_PUBLISH_BLOCK_PERIOD_COMMAND_ID

Definition at line [453](#) of file [command-id.h](#).

9.37.1.250 #define ZCL_GET_CURRENT_PRICE_COMMAND_ID

Definition at line [456](#) of file [command-id.h](#).

9.37.1.251 #define ZCL_GET_SCHEDULED_PRICES_COMMAND_ID

Definition at line [457](#) of file [command-id.h](#).

9.37.1.252 #define ZCL_PRICE_ACKNOWLEDGEMENT_COMMAND_ID

Definition at line [458](#) of file [command-id.h](#).

9.37.1.253 #define ZCL_GET_BLOCK_PERIODS_COMMAND_ID

Definition at line [459](#) of file [command-id.h](#).

9.37.1.254 #define ZCL_DISPLAY_MESSAGE_COMMAND_ID

Definition at line [466](#) of file [command-id.h](#).

9.37.1.255 #define ZCL_CANCEL_MESSAGE_COMMAND_ID

Definition at line [467](#) of file [command-id.h](#).

9.37.1.256 #define ZCL_GET_LAST_MESSAGE_COMMAND_ID

Definition at line [470](#) of file [command-id.h](#).

9.37.1.257 #define ZCL_MESSAGE_CONFIRMATION_COMMAND_ID

Definition at line [471](#) of file [command-id.h](#).

9.37.1.258 #define ZCL_REQUEST_TUNNEL_RESPONSE_COMMAND_ID

Definition at line [478](#) of file [command-id.h](#).

9.37.1.259 #define ZCL_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID

Definition at line [479](#) of file [command-id.h](#).

9.37.1.260 #define ZCL_TRANSFER_DATA_ERROR_SERVER_TO_CLIENT_COMMAND_ID

Definition at line [480](#) of file [command-id.h](#).

9.37.1.261 #define ZCL_ACK_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID

Definition at line [481](#) of file [command-id.h](#).

9.37.1.262 #define ZCL_READY_DATA_SERVER_TO_CLIENT_COMMAND_ID

Definition at line [482](#) of file [command-id.h](#).

9.37.1.263 #define ZCL_SUPPORTED_TUNNEL_PROTOCOLS_RESPONSE_COMMAND_ID

Definition at line [483](#) of file [command-id.h](#).

9.37.1.264 #define ZCL_TUNNEL_CLOSURE_NOTIFICATION_COMMAND_ID

Definition at line [484](#) of file [command-id.h](#).

9.37.1.265 #define ZCL_REQUEST_TUNNEL_COMMAND_ID

Definition at line [487](#) of file [command-id.h](#).

9.37.1.266 #define ZCL_CLOSE_TUNNEL_COMMAND_ID

Definition at line [488](#) of file [command-id.h](#).

9.37.1.267 #define ZCL_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID

Definition at line [489](#) of file [command-id.h](#).

9.37.1.268 #define ZCL_TRANSFER_DATA_ERROR_CLIENT_TO_SERVER_COMMAND_ID

Definition at line [490](#) of file [command-id.h](#).

9.37.1.269 #define ZCL_ACK_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID

Definition at line [491](#) of file [command-id.h](#).

9.37.1.270 #define ZCL_READY_DATA_CLIENT_TO_SERVER_COMMAND_ID

Definition at line [492](#) of file [command-id.h](#).

9.37.1.271 #define ZCL_GET_SUPPORTED_TUNNEL_PROTOCOLS_COMMAND_ID

Definition at line [493](#) of file [command-id.h](#).

9.37.1.272 #define ZCL_SUPPLY_STATUS_RESPONSE_COMMAND_ID

Definition at line [500](#) of file [command-id.h](#).

9.37.1.273 #define ZCL_SELECT_AVAILABLE_EMERGENCY_CREDIT_COMMAND_ID

Definition at line [503](#) of file [command-id.h](#).

9.37.1.274 #define ZCL_CHANGE_SUPPLY_COMMAND_ID

Definition at line [504](#) of file [command-id.h](#).

9.37.1.275 #define ZCL_INITIATE_KEY_ESTABLISHMENT_RESPONSE_COMMAND_ID

Definition at line [511](#) of file [command-id.h](#).

9.37.1.276 #define ZCL_EPHEMERAL_DATA_RESPONSE_COMMAND_ID

Definition at line [512](#) of file [command-id.h](#).

9.37.1.277 #define ZCL_CONFIRM_KEY_DATA_RESPONSE_COMMAND_ID

Definition at line [513](#) of file [command-id.h](#).

9.37.1.278 #define ZCL_INITIATE_KEY_ESTABLISHMENT_REQUEST_COMMAND_ID

Definition at line [516](#) of file [command-id.h](#).

9.37.1.279 #define ZCL_EPHEMERAL_DATA_REQUEST_COMMAND_ID

Definition at line [517](#) of file [command-id.h](#).

9.37.1.280 #define ZCL_CONFIRM_KEY_DATA_REQUEST_COMMAND_ID

Definition at line [518](#) of file [command-id.h](#).

9.37.1.281 #define ZCL_TERMINATE_KEY_ESTABLISHMENT_COMMAND_ID

Definition at line [521](#) of file [command-id.h](#).

9.37.1.282 #define ZCL_SCAN_RESPONSE_COMMAND_ID

Definition at line [528](#) of file [command-id.h](#).

9.37.1.283 #define ZCL_DEVICE_INFORMATION_RESPONSE_COMMAND_ID

Definition at line [529](#) of file [command-id.h](#).

9.37.1.284 #define ZCL_NETWORK_START_RESPONSE_COMMAND_ID

Definition at line [530](#) of file [command-id.h](#).

9.37.1.285 #define ZCL_NETWORK_JOIN_ROUTER_RESPONSE_COMMAND_ID

Definition at line [531](#) of file [command-id.h](#).

9.37.1.286 #define ZCL_NETWORK_JOIN_END_DEVICE_RESPONSE_COMMAND_ID

Definition at line [532](#) of file [command-id.h](#).

9.37.1.287 #define ZCL_ENDPOINT_INFORMATION_COMMAND_ID

Definition at line [533](#) of file [command-id.h](#).

9.37.1.288 #define ZCL_GET_GROUP_IDENTIFIERS_RESPONSE_COMMAND_ID

Definition at line [534](#) of file [command-id.h](#).

9.37.1.289 #define ZCL_GET_ENDPOINT_LIST_RESPONSE_COMMAND_ID

Definition at line [535](#) of file [command-id.h](#).

9.37.1.290 #define ZCL_SCAN_REQUEST_COMMAND_ID

Definition at line [538](#) of file [command-id.h](#).

9.37.1.291 #define ZCL_DEVICE_INFORMATION_REQUEST_COMMAND_ID

Definition at line [539](#) of file [command-id.h](#).

9.37.1.292 #define ZCL_IDENTIFY_REQUEST_COMMAND_ID

Definition at line [540](#) of file [command-id.h](#).

9.37.1.293 #define ZCL_RESET_TO_FACTORY_NEW_REQUEST_COMMAND_ID

Definition at line [541](#) of file [command-id.h](#).

9.37.1.294 #define ZCL_NETWORK_START_REQUEST_COMMAND_ID

Definition at line [542](#) of file [command-id.h](#).

9.37.1.295 #define ZCL_NETWORK_JOIN_ROUTER_REQUEST_COMMAND_ID

Definition at line [543](#) of file [command-id.h](#).

9.37.1.296 #define ZCL_NETWORK_JOIN_END_DEVICE_REQUEST_COMMAND_ID

Definition at line [544](#) of file [command-id.h](#).

9.37.1.297 #define ZCL_NETWORK_UPDATE_REQUEST_COMMAND_ID

Definition at line 545 of file [command-id.h](#).

9.37.1.298 #define ZCL_GET_GROUP_IDENTIFIERS_REQUEST_COMMAND_ID

Definition at line 546 of file [command-id.h](#).

9.37.1.299 #define ZCL_GET_ENDPOINT_LIST_REQUEST_COMMAND_ID

Definition at line 547 of file [command-id.h](#).

9.37.1.300 #define ZCL_COMMAND_ONE_COMMAND_ID

Definition at line 554 of file [command-id.h](#).

9.38 command-id.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_COMMAND_ID__
00009 #define __EMBER_AF_COMMAND_ID__
00010
00011
00012 // Global commands
00013
00014 // Either direction
00015 #define ZCL_READ_ATTRIBUTES_COMMAND_ID           0x00    // Ver.:
          always
00016 #define ZCL_READ_ATTRIBUTES_RESPONSE_COMMAND_ID 0x01    // Ver.:
          always
00017 #define ZCL_WRITE_ATTRIBUTES_COMMAND_ID           0x02    // Ver.:
          always
00018 #define ZCL_WRITE_ATTRIBUTES_UNDIVIDED_COMMAND_ID 0x03    // Ver.:
          always
00019 #define ZCL_WRITE_ATTRIBUTES_RESPONSE_COMMAND_ID 0x04    // Ver.:
          always
00020 #define ZCL_WRITE_ATTRIBUTES_NO_RESPONSE_COMMAND_ID 0x05    // Ver.:
          always
00021 #define ZCL_CONFIGURE_REPORTING_COMMAND_ID        0x06    // Ver.:
          always
00022 #define ZCL_CONFIGURE_REPORTING_RESPONSE_COMMAND_ID 0x07    // Ver.:
          always
00023 #define ZCL_READ_REPORTING_CONFIGURATION_COMMAND_ID 0x08    // Ver.:
          always
00024 #define ZCL_READ_REPORTING_CONFIGURATION_RESPONSE_COMMAND_ID 0x09    // Ver.:
          always
00025 #define ZCL_REPORT_ATTRIBUTES_COMMAND_ID           0x0A    // Ver.:
          always
00026 #define ZCL_DEFAULT_RESPONSE_COMMAND_ID           0x0B    // Ver.:
          always
00027 #define ZCL_DISCOVER_ATTRIBUTES_COMMAND_ID         0x0C    // Ver.:
          always
00028 #define ZCL_DISCOVER_ATTRIBUTES_RESPONSE_COMMAND_ID 0x0D    // Ver.:
          always
00029 // Command types for cluster: Basic
00030 // Cluster specification level: zcl-1.0-07-5123-03
00031
00032 // Client to server
00033 #define ZCL_RESET_TO_FACTORY_DEFAULTS_COMMAND_ID 0x00    // Ver.: always
00034

```

```

00035
00036 // Command types for cluster: Identify
00037 // Cluster specification level: zcl-1.0-07-5123-03
00038
00039 // Server to client
00040 #define ZCL_IDENTIFY_QUERY_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00041
00042 // Client to server
00043 #define ZCL_IDENTIFY_COMMAND_ID 0x00      // Ver.: always
00044 #define ZCL_IDENTIFY_QUERY_COMMAND_ID 0x01      // Ver.: always
00045 #define ZCL_TRIGGER_EFFECT_COMMAND_ID 0x40      // Ver.: since zll-1.0-11-0037-10
00046
00047
00048 // Command types for cluster: Groups
00049 // Cluster specification level: zcl-1.0-07-5123-03
00050
00051 // Server to client
00052 #define ZCL_ADD_GROUP_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00053 #define ZCL_VIEW_GROUP_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00054 #define ZCL_GET_GROUP_MEMBERSHIP_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00055 #define ZCL_REMOVE_GROUP_RESPONSE_COMMAND_ID 0x03      // Ver.: always
00056
00057 // Client to server
00058 #define ZCL_ADD_GROUP_COMMAND_ID 0x00      // Ver.: always
00059 #define ZCL_VIEW_GROUP_COMMAND_ID 0x01      // Ver.: always
00060 #define ZCL_GET_GROUP_MEMBERSHIP_COMMAND_ID 0x02      // Ver.: always
00061 #define ZCL_REMOVE_GROUP_COMMAND_ID 0x03      // Ver.: always
00062 #define ZCL_REMOVE_ALL_GROUPS_COMMAND_ID 0x04      // Ver.: always
00063 #define ZCL_ADD_GROUP_IF_IDENTIFYING_COMMAND_ID 0x05      // Ver.: always
00064
00065
00066 // Command types for cluster: Scenes
00067 // Cluster specification level: zcl-1.0-07-5123-03
00068
00069 // Server to client
00070 #define ZCL_ADD_SCENE_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00071 #define ZCL_VIEW_SCENE_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00072 #define ZCL_REMOVE_SCENE_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00073 #define ZCL_REMOVE_ALL_SCENES_RESPONSE_COMMAND_ID 0x03      // Ver.: always
00074 #define ZCL_STORE_SCENE_RESPONSE_COMMAND_ID 0x04      // Ver.: always
00075 #define ZCL_GET_SCENE_MEMBERSHIP_RESPONSE_COMMAND_ID 0x06      // Ver.: always
00076 #define ZCL_ENHANCED_ADD_SCENE_RESPONSE_COMMAND_ID 0x40      // Ver.: since
zll-1.0-11-0037-10
00077 #define ZCL_ENHANCED_VIEW_SCENE_RESPONSE_COMMAND_ID 0x41      // Ver.: since
zll-1.0-11-0037-10
00078 #define ZCL_COPY_SCENE_RESPONSE_COMMAND_ID 0x42      // Ver.: since
zll-1.0-11-0037-10
00079
00080 // Client to server
00081 #define ZCL_ADD_SCENE_COMMAND_ID 0x00      // Ver.: always
00082 #define ZCL_VIEW_SCENE_COMMAND_ID 0x01      // Ver.: always
00083 #define ZCL_REMOVE_SCENE_COMMAND_ID 0x02      // Ver.: always
00084 #define ZCL_REMOVE_ALL_SCENES_COMMAND_ID 0x03      // Ver.: always
00085 #define ZCL_STORE_SCENE_COMMAND_ID 0x04      // Ver.: always
00086 #define ZCL_RECALL_SCENE_COMMAND_ID 0x05      // Ver.: always
00087 #define ZCL_GET_SCENE_MEMBERSHIP_COMMAND_ID 0x06      // Ver.: always
00088 #define ZCL_ENHANCED_ADD_SCENE_COMMAND_ID 0x40      // Ver.: since
zll-1.0-11-0037-10
00089 #define ZCL_ENHANCED_VIEW_SCENE_COMMAND_ID 0x41      // Ver.: since
zll-1.0-11-0037-10
00090 #define ZCL_COPY_SCENE_COMMAND_ID 0x42      // Ver.: since zll-1.0-11-0037-10
00091
00092
00093 // Command types for cluster: On/off
00094 // Cluster specification level: zcl-1.0-07-5123-03
00095
00096 // Client to server
00097 #define ZCL_OFF_COMMAND_ID 0x00      // Ver.: always
00098 #define ZCL_ON_COMMAND_ID 0x01      // Ver.: always
00099 #define ZCL_TOGGLE_COMMAND_ID 0x02      // Ver.: always
00100 #define ZCL_OFF_WITH_EFFECT_COMMAND_ID 0x40      // Ver.: since
zll-1.0-11-0037-10
00101 #define ZCL_ON_WITH_RECALL_GLOBAL_SCENE_COMMAND_ID 0x41      // Ver.: since
zll-1.0-11-0037-10
00102 #define ZCL_ON_WITH_TIMED_OFF_COMMAND_ID 0x42      // Ver.: since
zll-1.0-11-0037-10
00103 #define ZCL_SAMPLE_MFG_SPECIFIC_OFF_WITH_TRANSITION_COMMAND_ID 0x00      // Ver.:
always mfgCode: 0x1002
00104 #define ZCL_SAMPLE_MFG_SPECIFIC_ON_WITH_TRANSITION_COMMAND_ID 0x01      // Ver.:
always mfgCode: 0x1002

```

```

00105 #define ZCL_SAMPLE_MFG_SPECIFIC_TOGGLE_WITH_TRANSITION_COMMAND_ID 0x02      //  

        Ver.: always mfgCode: 0x1002  

00106  

00107  

00108 // Command types for cluster: Level Control  

00109 // Cluster specification level: zcl-1.0-07-5123-03  

00110  

00111 // Client to server  

00112 #define ZCL_MOVE_TO_LEVEL_COMMAND_ID 0x00      // Ver.: always  

00113 #define ZCL_MOVE_COMMAND_ID 0x01      // Ver.: always  

00114 #define ZCL_STEP_COMMAND_ID 0x02      // Ver.: always  

00115 #define ZCL_STOP_COMMAND_ID 0x03      // Ver.: always  

00116 #define ZCL_MOVE_TO_LEVEL_WITH_ON_OFF_COMMAND_ID 0x04      // Ver.: always  

00117 #define ZCL_MOVE_WITH_ON_OFF_COMMAND_ID 0x05      // Ver.: always  

00118 #define ZCL_STEP_WITH_ON_OFF_COMMAND_ID 0x06      // Ver.: always  

00119 #define ZCL_STOP_WITH_ON_OFF_COMMAND_ID 0x07      // Ver.: always  

00120  

00121  

00122 // Command types for cluster: Alarms  

00123 // Cluster specification level: zcl-1.0-07-5123-03  

00124  

00125 // Server to client  

00126 #define ZCL_ALARM_COMMAND_ID 0x00      // Ver.: always  

00127 #define ZCL_GET_ALARM_RESPONSE_COMMAND_ID 0x01      // Ver.: always  

00128  

00129 // Client to server  

00130 #define ZCL_RESET_ALARM_COMMAND_ID 0x00      // Ver.: always  

00131 #define ZCL_RESET_ALL_ALARMS_COMMAND_ID 0x01      // Ver.: always  

00132 #define ZCL_GET_ALARM_COMMAND_ID 0x02      // Ver.: always  

00133 #define ZCL_RESET_ALARM_LOG_COMMAND_ID 0x03      // Ver.: always  

00134  

00135  

00136 // Command types for cluster: RSSI Location  

00137 // Cluster specification level: zcl-1.0-07-5123-03  

00138  

00139 // Server to client  

00140 #define ZCL_DEVICE_CONFIGURATION_RESPONSE_COMMAND_ID 0x00      // Ver.: always  

00141 #define ZCL_LOCATION_DATA_RESPONSE_COMMAND_ID 0x01      // Ver.: always  

00142 #define ZCL_LOCATION_DATA_NOTIFICATION_COMMAND_ID 0x02      // Ver.: always  

00143 #define ZCL_COMPACT_LOCATION_DATA_NOTIFICATION_COMMAND_ID 0x03      // Ver.:  

        always  

00144 #define ZCL_RSSI_PING_COMMAND_ID 0x04      // Ver.: always  

00145 #define ZCL_RSSI_REQUEST_COMMAND_ID 0x05      // Ver.: always  

00146 #define ZCL_REPORT_RSSI_MEASUREMENTS_COMMAND_ID 0x06      // Ver.: always  

00147 #define ZCL_REQUEST_OWN_LOCATION_COMMAND_ID 0x07      // Ver.: always  

00148  

00149 // Client to server  

00150 #define ZCL_SET_ABSOLUTE_LOCATION_COMMAND_ID 0x00      // Ver.: always  

00151 #define ZCL_SET_DEVICE_CONFIGURATION_COMMAND_ID 0x01      // Ver.: always  

00152 #define ZCL_GET_DEVICE_CONFIGURATION_COMMAND_ID 0x02      // Ver.: always  

00153 #define ZCL_GET_LOCATION_DATA_COMMAND_ID 0x03      // Ver.: always  

00154 #define ZCL_RSSI_RESPONSE_COMMAND_ID 0x04      // Ver.: always  

00155 #define ZCL_SEND_PINGS_COMMAND_ID 0x05      // Ver.: always  

00156 #define ZCL_ANCHOR_NODE_ANNOUNCE_COMMAND_ID 0x06      // Ver.: always  

00157  

00158  

00159 // Command types for cluster: Commissioning  

00160 // Cluster specification level: zcl-1.0-07-5123-03  

00161  

00162 // Server to client  

00163 #define ZCL_RESTART_DEVICE_RESPONSE_COMMAND_ID 0x00      // Ver.: always  

00164 #define ZCL_SAVE_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID 0x01      // Ver.: always  

00165 #define ZCL_RESTORE_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID 0x02      // Ver.:  

        always  

00166 #define ZCL_RESET_STARTUP_PARAMETERS_RESPONSE_COMMAND_ID 0x03      // Ver.:  

        always  

00167  

00168 // Client to server  

00169 #define ZCL_RESTART_DEVICE_COMMAND_ID 0x00      // Ver.: always  

00170 #define ZCL_SAVE_STARTUP_PARAMETERS_COMMAND_ID 0x01      // Ver.: always  

00171 #define ZCL_RESTORE_STARTUP_PARAMETERS_COMMAND_ID 0x02      // Ver.: always  

00172 #define ZCL_RESET_STARTUP_PARAMETERS_COMMAND_ID 0x03      // Ver.: always  

00173  

00174  

00175 // Command types for cluster: Thermostat  

00176 // Cluster specification level: zcl-1.0-07-5123-03  

00177  

00178 // Server to client  

00179 #define ZCL_CURRENT_WEEKLY_SCHEDULE_COMMAND_ID 0x00      // Ver.: since  

        ha-1.2-11-5474-15

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00180 #define ZCL_RELAY_STATUS_LOG_COMMAND_ID 0x01      // Ver.: since
          ha-1.2-11-5474-15
00181
00182 // Client to server
00183 #define ZCL_SETPOINT_RAISE_LOWER_COMMAND_ID 0x00      // Ver.: always
00184 #define ZCL_SET_WEEKLY_SCHEDULE_COMMAND_ID 0x01      // Ver.: since
          ha-1.2-11-5474-15
00185 #define ZCL_GET_WEEKLY_SCHEDULE_COMMAND_ID 0x02      // Ver.: since
          ha-1.2-11-5474-15
00186 #define ZCL_CLEAR_WEEKLY_SCHEDULE_COMMAND_ID 0x03      // Ver.: since
          ha-1.2-11-5474-15
00187 #define ZCL_GET_RELAY_STATUS_LOG_COMMAND_ID 0x04      // Ver.: since
          ha-1.2-11-5474-15
00188
00189
00190 // Command types for cluster: Color Control
00191 // Cluster specification level: zcl-1.0-07-5123-03
00192
00193 // Client to server
00194 #define ZCL_MOVE_TO_HUE_COMMAND_ID 0x00      // Ver.: always
00195 #define ZCL_MOVE_HUE_COMMAND_ID 0x01      // Ver.: always
00196 #define ZCL_STEP_HUE_COMMAND_ID 0x02      // Ver.: always
00197 #define ZCL_MOVE_TO_SATURATION_COMMAND_ID 0x03      // Ver.: always
00198 #define ZCL_MOVE_SATURATION_COMMAND_ID 0x04      // Ver.: always
00199 #define ZCL_STEP_SATURATION_COMMAND_ID 0x05      // Ver.: always
00200 #define ZCL_MOVE_TO_HUE_AND_SATURATION_COMMAND_ID 0x06      // Ver.: always
00201 #define ZCL_MOVE_TO_COLOR_COMMAND_ID 0x07      // Ver.: always
00202 #define ZCL_MOVE_COLOR_COMMAND_ID 0x08      // Ver.: always
00203 #define ZCL_STEP_COLOR_COMMAND_ID 0x09      // Ver.: always
00204 #define ZCL_MOVE_TO_COLOR_TEMPERATURE_COMMAND_ID 0x0A      // Ver.: always
00205 #define ZCL_ENHANCED_MOVE_TO_HUE_COMMAND_ID 0x40      // Ver.: since
          zll-1.0-11-0037-10
00206 #define ZCL_ENHANCED_MOVE_HUE_COMMAND_ID 0x41      // Ver.: since
          zll-1.0-11-0037-10
00207 #define ZCL_ENHANCED_STEP_HUE_COMMAND_ID 0x42      // Ver.: since
          zll-1.0-11-0037-10
00208 #define ZCL_ENHANCED_MOVE_TO_HUE_AND_SATURATION_COMMAND_ID 0x43      // Ver.:
          since zll-1.0-11-0037-10
00209 #define ZCL_COLOR_LOOP_SET_COMMAND_ID 0x44      // Ver.: since zll-1.0-11-0037-10
00210 #define ZCL_STOP_MOVE_STEP_COMMAND_ID 0x47      // Ver.: since zll-1.0-11-0037-10
00211 #define ZCL_MOVE_COLOR_TEMPERATURE_COMMAND_ID 0x4B      // Ver.: since
          zll-1.0-11-0037-10
00212 #define ZCL_STEP_COLOR_TEMPERATUE_COMMAND_ID 0x4C      // Ver.: since
          zll-1.0-11-0037-10
00213
00214
00215 // Command types for cluster: IAS Zone
00216 // Cluster specification level: zcl-1.0-07-5123-03
00217
00218 // Server to client
00219 #define ZCL_ZONE_STATUS_CHANGE_NOTIFICATION_COMMAND_ID 0x00      // Ver.: always
00220 #define ZCL_ZONE_ENROLL_REQUEST_COMMAND_ID 0x01      // Ver.: always
00221
00222 // Client to server
00223 #define ZCL_ZONE_ENROLL_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00224
00225
00226 // Command types for cluster: IAS ACE
00227 // Cluster specification level: zcl-1.0-07-5123-03
00228
00229 // Server to client
00230 #define ZCL_ARM_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00231 #define ZCL_GET_ZONE_ID_MAP_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00232 #define ZCL_GET_ZONE_INFORMATION_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00233
00234 // Client to server
00235 #define ZCL_ARM_COMMAND_ID 0x00      // Ver.: always
00236 #define ZCL_BYPASS_COMMAND_ID 0x01      // Ver.: always
00237 #define ZCL_EMERGENCY_COMMAND_ID 0x02      // Ver.: always
00238 #define ZCL_FIRE_COMMAND_ID 0x03      // Ver.: always
00239 #define ZCL_PANIC_COMMAND_ID 0x04      // Ver.: always
00240 #define ZCL_GET_ZONE_ID_MAP_COMMAND_ID 0x05      // Ver.: always
00241 #define ZCL_GET_ZONE_INFORMATION_COMMAND_ID 0x06      // Ver.: always
00242
00243
00244 // Command types for cluster: IAS WD
00245 // Cluster specification level: zcl-1.0-07-5123-03
00246
00247 // Client to server
00248 #define ZCL_START_WARNING_COMMAND_ID 0x00      // Ver.: always

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00249 #define ZCL_SQUAWK_COMMAND_ID 0x01      // Ver.: always
00250
00251
00252 // Command types for cluster: Door Lock
00253 // Cluster specification level: zcl-1.0-07-5123-03
00254
00255 // Server to client
00256 #define ZCL_LOCK_DOOR_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00257 #define ZCL_UNLOCK_DOOR_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00258 #define ZCL_GET_LOCK_STATUS_RESPONSE_COMMAND_ID 0x10      // Ver.: since
00259 ha-1.2-11-5474-15
00259 #define ZCL_UNLOCK_WITH_TIMEOUT_RESPONSE_COMMAND_ID 0x11      // Ver.: since
00259 ha-1.2-11-5474-15
00260 #define ZCL_GET_BATTERY_LEVEL_RESPONSE_COMMAND_ID 0x12      // Ver.: since
00260 ha-1.2-11-5474-15
00261 #define ZCL_SET_RF_LOCKOUT_TIME_RESPONSE_COMMAND_ID 0x13      // Ver.: since
00261 ha-1.2-11-5474-15
00262 #define ZCL_GET_RF_LOCKOUT_TIME_RESPONSE_COMMAND_ID 0x14      // Ver.: since
00262 ha-1.2-11-5474-15
00263 #define ZCL_GET_LOG_RECORD_RESPONSE_COMMAND_ID 0x20      // Ver.: since
00263 ha-1.2-11-5474-15
00264 #define ZCL_USER_CODE_SET_RESPONSE_COMMAND_ID 0x30      // Ver.: since
00264 ha-1.2-11-5474-15
00265 #define ZCL_USER_CODE_GET_RESPONSE_COMMAND_ID 0x31      // Ver.: since
00265 ha-1.2-11-5474-15
00266 #define ZCL_USER_CODE_CLEAR_RESPONSE_COMMAND_ID 0x32      // Ver.: since
00266 ha-1.2-11-5474-15
00267 #define ZCL_CLEAR_ALL_USER_CODES_RESPONSE_COMMAND_ID 0x33      // Ver.: since
00267 ha-1.2-11-5474-15
00268 #define ZCL_SET_USER_CODE_STATUS_RESPONSE_COMMAND_ID 0x34      // Ver.: since
00268 ha-1.2-11-5474-15
00269 #define ZCL_GET_USER_CODE_STATUS_RESPONSE_COMMAND_ID 0x35      // Ver.: since
00269 ha-1.2-11-5474-15
00270 #define ZCL_GET_LAST_USER_ID_ENTERED_RESPONSE_COMMAND_ID 0x36      // Ver.: since
00270 ha-1.2-11-5474-15
00271 #define ZCL_USER_ADDED_COMMAND_ID 0x37      // Ver.: since ha-1.2-11-5474-15
00272 #define ZCL_USER_DELETED_COMMAND_ID 0x38      // Ver.: since ha-1.2-11-5474-15
00273 #define ZCL_SET_SCHEDULE_SLOT_RESPONSE_COMMAND_ID 0x40      // Ver.: since
00273 ha-1.2-11-5474-15
00274 #define ZCL_GET_SCHEDULE_SLOT_RESPONSE_COMMAND_ID 0x41      // Ver.: since
00274 ha-1.2-11-5474-15
00275 #define ZCL_SET_SCHEDULE_SLOT_STATUS_RESPONSE_COMMAND_ID 0x42      // Ver.: since
00275 ha-1.2-11-5474-15
00276
00277 // Client to server
00278 #define ZCL_LOCK_DOOR_COMMAND_ID 0x00      // Ver.: always
00279 #define ZCL_UNLOCK_DOOR_COMMAND_ID 0x01      // Ver.: always
00280 #define ZCL_GET_LOCK_STATUS_COMMAND_ID 0x10      // Ver.: since ha-1.2-11-5474-15
00281 #define ZCL_UNLOCK_WITH_TIMEOUT_COMMAND_ID 0x11      // Ver.: since
00281 ha-1.2-11-5474-15
00282 #define ZCL_GET_BATTERYLEVEL_COMMAND_ID 0x12      // Ver.: since
00282 ha-1.2-11-5474-15
00283 #define ZCL_SET_RF_LOCKOUT_TIME_COMMAND_ID 0x13      // Ver.: since
00283 ha-1.2-11-5474-15
00284 #define ZCL_GET_RF_LOCKOUT_TIME_COMMAND_ID 0x14      // Ver.: since
00284 ha-1.2-11-5474-15
00285 #define ZCL_GET_LOG_RECORD_COMMAND_ID 0x20      // Ver.: since ha-1.2-11-5474-15
00286 #define ZCL_USER_CODE_SET_COMMAND_ID 0x30      // Ver.: since ha-1.2-11-5474-15
00287 #define ZCL_USER_CODE_GET_COMMAND_ID 0x31      // Ver.: since ha-1.2-11-5474-15
00288 #define ZCL_USER_CODE_CLEAR_COMMAND_ID 0x32      // Ver.: since ha-1.2-11-5474-15
00289 #define ZCL_CLEAR_ALL_USER_CODES_COMMAND_ID 0x33      // Ver.: since
00289 ha-1.2-11-5474-15
00290 #define ZCL_SET_USER_CODE_STATUS_COMMAND_ID 0x34      // Ver.: since
00290 ha-1.2-11-5474-15
00291 #define ZCL_GET_USER_CODE_STATUS_COMMAND_ID 0x35      // Ver.: since
00291 ha-1.2-11-5474-15
00292 #define ZCL_GET_LAST_USER_ID_ENTERED_COMMAND_ID 0x36      // Ver.: since
00292 ha-1.2-11-5474-15
00293 #define ZCL_SET_SCHEDULE_SLOT_COMMAND_ID 0x40      // Ver.: since
00293 ha-1.2-11-5474-15
00294 #define ZCL_GET_SCHEDULE_SLOT_COMMAND_ID 0x41      // Ver.: since
00294 ha-1.2-11-5474-15
00295 #define ZCL_SET_SCHEDULE_SLOT_STATUS_COMMAND_ID 0x42      // Ver.: since
00295 ha-1.2-11-5474-15
00296 #define ZCL_SET_INDICATOR_COMMAND_ID 0x50      // Ver.: since ha-1.2-11-5474-15
00297
00298
00299 // Command types for cluster: Window Covering
00300 // Cluster specification level: zcl-1.0-07-5123-03
00301

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00302 // Client to server
00303 #define ZCL_WINDOW_COVERING_UP_OPEN_COMMAND_ID 0x00      // Ver.: always
00304 #define ZCL_WINDOW_COVERING_DOWN_CLOSE_COMMAND_ID 0x01      // Ver.: always
00305 #define ZCL_WINDOW_COVERING_STOP_COMMAND_ID 0x02      // Ver.: always
00306 #define ZCL_WINDOW_COVERING_GO_TO_LIFT_SETPOINT_COMMAND_ID 0x03      // Ver.:
    always
00307 #define ZCL_WINDOW_COVERING_GO_TO_LIFT_VALUE_COMMAND_ID 0x04      // Ver.: always
00308 #define ZCL_WINDOW_COVERING_GO_TO_LIFT_PERCENTAGE_COMMAND_ID 0x05      // Ver.:
    always
00309 #define ZCL_WINDOW_COVERING_GO_TO_TILT_SETPOINT_COMMAND_ID 0x06      // Ver.:
    always
00310 #define ZCL_WINDOW_COVERING_GO_TO_TILT_VALUE_COMMAND_ID 0x07      // Ver.: always
00311 #define ZCL_WINDOW_COVERING_GO_TO_TILT_PERCENTAGE_COMMAND_ID 0x08      // Ver.:
    always
00312 #define ZCL_WINDOW_COVERING_GO_TO_PROGRAM_SETPOINT_COMMAND_ID 0x09      // Ver.:
    always
00313
00314
00315 // Command types for cluster: Power Profile
00316 // Cluster specification level: zcl-1.0-07-5123-03
00317
00318 // Server to client
00319 #define ZCL_POWER_PROFILE_NOTIFICATION_COMMAND_ID 0x00      // Ver.: always
00320 #define ZCL_POWER_PROFILE_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00321 #define ZCL_POWER_PROFILE_STATE_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00322 #define ZCL_GET_POWER_PROFILE_PRICE_COMMAND_ID 0x03      // Ver.: always
00323 #define ZCL_POWER_PROFILES_STATE_NOTIFICATION_COMMAND_ID 0x04      // Ver.:
    always
00324 #define ZCL_GET_OVERALL_SCHEDULE_PRICE_COMMAND_ID 0x05      // Ver.: always
00325 #define ZCL_ENERGY_PHASES_SCHEDULE_REQUEST_COMMAND_ID 0x06      // Ver.: always
00326 #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_RESPONSE_COMMAND_ID 0x07      // Ver.:
    always
00327 #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_NOTIFICATION_COMMAND_ID 0x08      //
    Ver.: always
00328 #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_NOTIFICATION_COMMAND_ID 0x09
// Ver.: always
00329 #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_RESPONSE_COMMAND_ID 0x0A      //
    Ver.: always
00330
00331 // Client to server
00332 #define ZCL_POWER_PROFILE_REQUEST_COMMAND_ID 0x00      // Ver.: always
00333 #define ZCL_POWER_PROFILE_STATE_REQUEST_COMMAND_ID 0x01      // Ver.: always
00334 #define ZCL_GET_POWER_PROFILE_PRICE_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00335 #define ZCL_GET_OVERALL_SCHEDULE_PRICE_RESPONSE_COMMAND_ID 0x03      // Ver.:
    always
00336 #define ZCL_ENERGY_PHASES_SCHEDULE_NOTIFICATION_COMMAND_ID 0x04      // Ver.:
    always
00337 #define ZCL_ENERGY_PHASES_SCHEDULE_RESPONSE_COMMAND_ID 0x05      // Ver.: always
00338 #define ZCL_POWER_PROFILE_SCHEDULE_CONSTRAINTS_REQUEST_COMMAND_ID 0x06      //
    Ver.: always
00339 #define ZCL_ENERGY_PHASES_SCHEDULE_STATE_REQUEST_COMMAND_ID 0x07      // Ver.:
    always
00340
00341
00342 // Command types for cluster: Appliance Control
00343 // Cluster specification level: zcl-1.0-07-5123-03
00344
00345 // Server to client
00346 #define ZCL_SIGNAL_STATE_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00347 #define ZCL_SIGNAL_STATE_NOTIFICATION_COMMAND_ID 0x01      // Ver.: always
00348
00349 // Client to server
00350 #define ZCL_EXECUTION_OF_A_COMMAND_COMMAND_ID 0x00      // Ver.: always
00351 #define ZCL_SIGNAL_STATE_COMMAND_ID 0x01      // Ver.: always
00352 #define ZCL_WRITE_FUNCTIONS_COMMAND_ID 0x02      // Ver.: always
00353 #define ZCL_OVERLOAD_PAUSE_RESUME_COMMAND_ID 0x03      // Ver.: always
00354 #define ZCL_OVERLOAD_PAUSE_COMMAND_ID 0x04      // Ver.: always
00355 #define ZCL_OVERLOAD_WARNING_COMMAND_ID 0x05      // Ver.: always
00356
00357
00358 // Command types for cluster: Poll Control
00359 // Cluster specification level: zcl-1.0-07-5123-03
00360
00361 // Server to client
00362 #define ZCL_CHECK_IN_COMMAND_ID 0x00      // Ver.: always
00363
00364 // Client to server
00365 #define ZCL_CHECK_IN_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00366 #define ZCL_FAST_POLL_STOP_COMMAND_ID 0x01      // Ver.: always
00367 #define ZCL_SET_LONG_POLL_INTERVAL_COMMAND_ID 0x02      // Ver.: always

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00368 #define ZCL_SET_SHORT_POLL_INTERVAL_COMMAND_ID 0x03      // Ver.: always
00369
00370
00371 // Command types for cluster: Appliance Events and Alert
00372 // Cluster specification level: UNKNOWN
00373
00374 // Server to client
00375 #define ZCL_GET_ALERTS_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00376 #define ZCL_ALERTS_NOTIFICATION_COMMAND_ID 0x01      // Ver.: always
00377 #define ZCL_EVENTS_NOTIFICATION_COMMAND_ID 0x02      // Ver.: always
00378
00379 // Client to server
00380 #define ZCL_GET_ALERTS_COMMAND_ID 0x00      // Ver.: always
00381
00382
00383 // Command types for cluster: Generic Tunnel
00384 // Cluster specification level: cba-1.0-05-3516-12
00385
00386 // Server to client
00387 #define ZCL_MATCH_PROTOCOL_ADDRESS_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00388 #define ZCL_ADVERTISE_PROTOCOL_ADDRESS_COMMAND_ID 0x01      // Ver.: always
00389
00390 // Client to server
00391 #define ZCL_MATCH_PROTOCOL_ADDRESS_COMMAND_ID 0x00      // Ver.: always
00392
00393
00394 // Command types for cluster: BACnet Protocol Tunnel
00395 // Cluster specification level: cba-1.0-05-3516-12
00396
00397 // Client to server
00398 #define ZCL_TRANSFER_NPDU_COMMAND_ID 0x00      // Ver.: always
00399
00400
00401 // Command types for cluster: Over the Air Bootloading Cluster
00402 // Cluster specification level: zcl-1.0-07-5123-03
00403
00404 // Server to client
00405 #define ZCL_IMAGE_NOTIFY_COMMAND_ID 0x00      // Ver.: always
00406 #define ZCL_QUERY_NEXT_IMAGE_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00407 #define ZCL_IMAGE_BLOCK_RESPONSE_COMMAND_ID 0x05      // Ver.: always
00408 #define ZCL_UPGRADE_END_RESPONSE_COMMAND_ID 0x07      // Ver.: always
00409 #define ZCL_QUERY_SPECIFIC_FILE_RESPONSE_COMMAND_ID 0x09      // Ver.: always
00410
00411 // Client to server
00412 #define ZCL_QUERY_NEXT_IMAGE_REQUEST_COMMAND_ID 0x01      // Ver.: always
00413 #define ZCL_IMAGE_BLOCK_REQUEST_COMMAND_ID 0x03      // Ver.: always
00414 #define ZCL_IMAGE_PAGE_REQUEST_COMMAND_ID 0x04      // Ver.: always
00415 #define ZCL_UPGRADE_END_REQUEST_COMMAND_ID 0x06      // Ver.: always
00416 #define ZCL_QUERY_SPECIFIC_FILE_REQUEST_COMMAND_ID 0x08      // Ver.: always
00417
00418
00419 // Command types for cluster: Demand Response and Load Control
00420 // Cluster specification level: se-1.1-07-5356-17
00421
00422 // Server to client
00423 #define ZCL_LOAD_CONTROL_EVENT_COMMAND_ID 0x00      // Ver.: always
00424 #define ZCL_CANCEL_LOAD_CONTROL_EVENT_COMMAND_ID 0x01      // Ver.: always
00425 #define ZCL_CANCEL_ALL_LOAD_CONTROL_EVENTS_COMMAND_ID 0x02      // Ver.: always
00426
00427 // Client to server
00428 #define ZCL_REPORT_EVENT_STATUS_COMMAND_ID 0x00      // Ver.: always
00429 #define ZCL_GET_SCHEDULED_EVENTS_COMMAND_ID 0x01      // Ver.: always
00430
00431
00432 // Command types for cluster: Simple Metering
00433 // Cluster specification level: se-1.1-07-5356-17
00434
00435 // Server to client
00436 #define ZCL_GET_PROFILE_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00437 #define ZCL_REQUEST_MIRROR_COMMAND_ID 0x01      // Ver.: always
00438 #define ZCL_REMOVE_MIRROR_COMMAND_ID 0x02      // Ver.: always
00439 #define ZCL_REQUEST_FAST_POLL_MODE_RESPONSE_COMMAND_ID 0x03      // Ver.: always
00440
00441 // Client to server
00442 #define ZCL_GET_PROFILE_COMMAND_ID 0x00      // Ver.: always
00443 #define ZCL_REQUEST_MIRROR_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00444 #define ZCL_MIRROR_REMOVED_COMMAND_ID 0x02      // Ver.: always
00445 #define ZCL_REQUEST_FAST_POLL_MODE_COMMAND_ID 0x03      // Ver.: always
00446
00447

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```

00448 // Command types for cluster: Price
00449 // Cluster specification level: se-1.1-07-5356-17
00450
00451 // Server to client
00452 #define ZCL_PUBLISH_PRICE_COMMAND_ID 0x00      // Ver.: always
00453 #define ZCL_PUBLISH_BLOCK_PERIOD_COMMAND_ID 0x01      // Ver.: always
00454
00455 // Client to server
00456 #define ZCL_GET_CURRENT_PRICE_COMMAND_ID 0x00      // Ver.: always
00457 #define ZCL_GET_SCHEDULED_PRICES_COMMAND_ID 0x01      // Ver.: always
00458 #define ZCL_PRICE_ACKNOWLEDGEMENT_COMMAND_ID 0x02      // Ver.: always
00459 #define ZCL_GET_BLOCK_PERIODS_COMMAND_ID 0x03      // Ver.: always
00460
00461
00462 // Command types for cluster: Messaging
00463 // Cluster specification level: se-1.1-07-5356-17
00464
00465 // Server to client
00466 #define ZCL_DISPLAY_MESSAGE_COMMAND_ID 0x00      // Ver.: always
00467 #define ZCL_CANCEL_MESSAGE_COMMAND_ID 0x01      // Ver.: always
00468
00469 // Client to server
00470 #define ZCL_GET_LAST_MESSAGE_COMMAND_ID 0x00      // Ver.: always
00471 #define ZCL_MESSAGE_CONFIRMATION_COMMAND_ID 0x01      // Ver.: always
00472
00473
00474 // Command types for cluster: Tunneling
00475 // Cluster specification level: se-1.1-07-5356-17
00476
00477 // Server to client
00478 #define ZCL_REQUEST_TUNNEL_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00479 #define ZCL_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID 0x01      // Ver.: always
00480 #define ZCL_TRANSFER_DATA_ERROR_SERVER_TO_CLIENT_COMMAND_ID 0x02      // Ver.:
               always
00481 #define ZCL_ACK_TRANSFER_DATA_SERVER_TO_CLIENT_COMMAND_ID 0x03      // Ver.:
               always
00482 #define ZCL_READY_DATA_SERVER_TO_CLIENT_COMMAND_ID 0x04      // Ver.: always
00483 #define ZCL_SUPPORTED_TUNNEL_PROTOCOLS_RESPONSE_COMMAND_ID 0x05      // Ver.:
               since se-1.1-07-5356-17
00484 #define ZCL_TUNNEL_CLOSURE_NOTIFICATION_COMMAND_ID 0x06      // Ver.: since
               se-1.1-07-5356-17
00485
00486 // Client to server
00487 #define ZCL_REQUEST_TUNNEL_COMMAND_ID 0x00      // Ver.: always
00488 #define ZCL_CLOSE_TUNNEL_COMMAND_ID 0x01      // Ver.: always
00489 #define ZCL_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID 0x02      // Ver.: always
00490 #define ZCL_TRANSFER_DATA_ERROR_CLIENT_TO_SERVER_COMMAND_ID 0x03      // Ver.:
               always
00491 #define ZCL_ACK_TRANSFER_DATA_CLIENT_TO_SERVER_COMMAND_ID 0x04      // Ver.:
               always
00492 #define ZCL_READY_DATA_CLIENT_TO_SERVER_COMMAND_ID 0x05      // Ver.: always
00493 #define ZCL_GET_SUPPORTED_TUNNEL_PROTOCOLS_COMMAND_ID 0x06      // Ver.: since
               se-1.1-07-5356-17
00494
00495
00496 // Command types for cluster: Prepayment
00497 // Cluster specification level: se-1.1-07-5356-17
00498
00499 // Server to client
00500 #define ZCL_SUPPLY_STATUS_RESPONSE_COMMAND_ID 0x00      // Ver.: always
00501
00502 // Client to server
00503 #define ZCL_SELECT_AVAILABLE_EMERGENCY_CREDIT_COMMAND_ID 0x00      // Ver.:
               always
00504 #define ZCL_CHANGE_SUPPLY_COMMAND_ID 0x01      // Ver.: always
00505
00506
00507 // Command types for cluster: Key establishment
00508 // Cluster specification level: se-1.1-07-5356-17
00509
00510 // Server to client
00511 #define ZCL_INITIATE_KEY_ESTABLISHMENT_RESPONSE_COMMAND_ID 0x00      // Ver.:
               always
00512 #define ZCL_EPHEMERAL_DATA_RESPONSE_COMMAND_ID 0x01      // Ver.: always
00513 #define ZCL_CONFIRM_KEY_DATA_RESPONSE_COMMAND_ID 0x02      // Ver.: always
00514
00515 // Client to server
00516 #define ZCL_INITIATE_KEY_ESTABLISHMENT_REQUEST_COMMAND_ID 0x00      // Ver.:
               always
00517 #define ZCL_EPHEMERAL_DATA_REQUEST_COMMAND_ID 0x01      // Ver.: always

```

```

00518 #define ZCL_CONFIRM_KEY_DATA_REQUEST_COMMAND_ID 0x02      // Ver.: always
00519
00520 // Either direction
00521 #define ZCL_TERMINATE_KEY_ESTABLISHMENT_COMMAND_ID 0x03      // Ver.: always
00522
00523
00524 // Command types for cluster: ZLL Commissioning
00525 // Cluster specification level: zll-1.0-11-0037-10
00526
00527 // Server to client
00528 #define ZCL_SCAN_RESPONSE_COMMAND_ID 0x01      // Ver.: since zll-1.0-11-0037-10
00529 #define ZCL_DEVICE_INFORMATION_RESPONSE_COMMAND_ID 0x03      // Ver.: since
00530           zll-1.0-11-0037-10
00530 #define ZCL_NETWORK_START_RESPONSE_COMMAND_ID 0x11      // Ver.: since
00531           zll-1.0-11-0037-10
00531 #define ZCL_NETWORK_JOIN_ROUTER_RESPONSE_COMMAND_ID 0x13      // Ver.: since
00532           zll-1.0-11-0037-10
00532 #define ZCL_NETWORK_JOIN_END_DEVICE_RESPONSE_COMMAND_ID 0x15      // Ver.: since
00533           zll-1.0-11-0037-10
00533 #define ZCL_ENDPOINT_INFORMATION_COMMAND_ID 0x40      // Ver.: since
00534           zll-1.0-11-0037-10
00534 #define ZCL_GET_GROUP_IDENTIFIERS_RESPONSE_COMMAND_ID 0x41      // Ver.: since
00535           zll-1.0-11-0037-10
00535 #define ZCL_GET_ENDPOINT_LIST_RESPONSE_COMMAND_ID 0x42      // Ver.: since
00536           zll-1.0-11-0037-10
00536
00537 // Client to server
00538 #define ZCL_SCAN_REQUEST_COMMAND_ID 0x00      // Ver.: since zll-1.0-11-0037-10
00539 #define ZCL_DEVICE_INFORMATION_REQUEST_COMMAND_ID 0x02      // Ver.: since
00540           zll-1.0-11-0037-10
00540 #define ZCL_IDENTIFY_REQUEST_COMMAND_ID 0x06      // Ver.: since
00541           zll-1.0-11-0037-10
00541 #define ZCL_RESET_TO_FACTORY_NEW_REQUEST_COMMAND_ID 0x07      // Ver.: since
00542           zll-1.0-11-0037-10
00542 #define ZCL_NETWORK_START_REQUEST_COMMAND_ID 0x10      // Ver.: since
00543           zll-1.0-11-0037-10
00543 #define ZCL_NETWORK_JOIN_ROUTER_REQUEST_COMMAND_ID 0x12      // Ver.: since
00544           zll-1.0-11-0037-10
00544 #define ZCL_NETWORK_JOIN_END_DEVICE_REQUEST_COMMAND_ID 0x14      // Ver.: since
00545           zll-1.0-11-0037-10
00545 #define ZCL_NETWORK_UPDATE_REQUEST_COMMAND_ID 0x16      // Ver.: since
00546           zll-1.0-11-0037-10
00546 #define ZCL_GET_GROUP_IDENTIFIERS_REQUEST_COMMAND_ID 0x41      // Ver.: since
00547           zll-1.0-11-0037-10
00547 #define ZCL_GET_ENDPOINT_LIST_REQUEST_COMMAND_ID 0x42      // Ver.: since
00548           zll-1.0-11-0037-10
00549
00550 // Command types for cluster: Sample Mfg Specific Cluster
00551 // Cluster specification level: UNKNOWN
00552
00553 // Client to server
00554 #define ZCL_COMMAND_ONE_COMMAND_ID 0x00      // Ver.: always mfgCode: 0x1002
00555
00556
00557 #endif // __EMBER_AF_COMMAND_ID__

```

9.39 custom_token.h File Reference

Defines

- `#define CREATOR_CUSTOM_TOKEN`

9.39.1 Define Documentation

9.39.1.1 `#define CREATOR_CUSTOM_TOKEN`

Definition at line 12 of file `custom_token.h`.

9.40 custom_token.h

```

00001 // Copyright 2007 - 2011 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is used as an example of custom token.
00004 //
00005 //
00006
00007 // This file contains the tokens for attributes stored in flash
00008
00009
00010 // Identifier tags for tokens
00011 // Creator for attribute: CUSTOM
00012 #define CREATOR_CUSTOM_TOKEN 0xDEED
00013
00014
00015 // Types for the tokens
00016 #ifdef DEFINETYPES
00017 typedef int8u tokType_custom_token;
00018 #endif // DEFINETYPES
00019
00020
00021 // Actual token definitions
00022 #ifdef DEFINETOKENS
00023 DEFINE_BASIC_TOKEN(CUSTOM_TOKEN, tokType_custom_token, 0x42)
00024 #endif // DEFINETOKENS
00025

```

9.41 debug-printing-test.h File Reference

Defines

- #define EMBER_AF_PRINT_ENABLE
- #define EMBER_AF_PRINT_BASIC_CLUSTER
- #define EMBER_AF_PRINT_POWER_CONFIG_CLUSTER
- #define EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER
- #define EMBER_AF_PRINT_IDENTIFY_CLUSTER
- #define EMBER_AF_PRINT_GROUPS_CLUSTER
- #define EMBER_AF_PRINT_SCENES_CLUSTER
- #define EMBER_AF_PRINT_ON_OFF_CLUSTER
- #define EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER
- #define EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_ALARM_CLUSTER
- #define EMBER_AF_PRINT_TIME_CLUSTER
- #define EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER
- #define EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER
- #define EMBER_AF_PRINT_COMMISSIONING_CLUSTER
- #define EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER
- #define EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_THERMOSTAT_CLUSTER
- #define EMBER_AF_PRINT_FAN_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER
- #define EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_BALAST_CONFIGURATION_CLUSTER
- #define EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER
- #define EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER
- #define EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER

- #define EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER
- #define EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER
- #define EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER
- #define EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER
- #define EMBER_AF_PRINT_IAS_ZONE_CLUSTER
- #define EMBER_AF_PRINT_IAS_ACE_CLUSTER
- #define EMBER_AF_PRINT_IAS_WD_CLUSTER
- #define EMBER_AF_PRINT_DOOR_LOCK_CLUSTER
- #define EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER
- #define EMBER_AF_PRINT_POWER_PROFILE_CLUSTER
- #define EMBER_AF_PRINT_APPLIANCE_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_POLL_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER
- #define EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER
- #define EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER
- #define EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER
- #define EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER
- #define EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER
- #define EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER
- #define EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER
- #define EMBER_AF_PRINT_PRICE_CLUSTER
- #define EMBER_AF_PRINT_MESSAGING_CLUSTER
- #define EMBER_AF_PRINT_TUNNELING_CLUSTER
- #define EMBER_AF_PRINT_PREPAYMENT_CLUSTER
- #define EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER
- #define EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER
- #define EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER
- #define EMBER_AF_PRINT_CORE
- #define EMBER_AF_PRINT_DEBUG
- #define EMBER_AF_PRINT_APP
- #define EMBER_AF_PRINT_SECURITY
- #define EMBER_AF_PRINT_ATTRIBUTES
- #define EMBER_AF_PRINT_REPORTING
- #define EMBER_AF_PRINT_SERVICE_DISCOVERY
- #define EMBER_AF_PRINT_REGISTRATION
- #define EMBER_AF_PRINT_ZDO
- #define EMBER_AF_PRINT_CUSTOM1
- #define EMBER_AF_PRINT_CUSTOM2
- #define EMBER_AF_PRINT_CUSTOM3
- #define EMBER_AF_PRINT_OUTPUT
- #define EMBER_AF_PRINT_NAMES
- #define EMBER_AF_PRINT_NAME_NUMBER
- #define EMBER_AF_PRINT_BITS

9.41.1 Define Documentation

9.41.1.1 #define EMBER_AF_PRINT_ENABLE

Definition at line 13 of file `debug-printing-test.h`.

9.41.1.2 #define EMBER_AF_PRINT_BASIC_CLUSTER

Definition at line 14 of file [debug-printing-test.h](#).

9.41.1.3 #define EMBER_AF_PRINT_POWER_CONFIG_CLUSTER

Definition at line 15 of file [debug-printing-test.h](#).

9.41.1.4 #define EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER

Definition at line 16 of file [debug-printing-test.h](#).

9.41.1.5 #define EMBER_AF_PRINT_IDENTIFY_CLUSTER

Definition at line 17 of file [debug-printing-test.h](#).

9.41.1.6 #define EMBER_AF_PRINT_GROUPS_CLUSTER

Definition at line 18 of file [debug-printing-test.h](#).

9.41.1.7 #define EMBER_AF_PRINT_SCENES_CLUSTER

Definition at line 19 of file [debug-printing-test.h](#).

9.41.1.8 #define EMBER_AF_PRINT_ON_OFF_CLUSTER

Definition at line 20 of file [debug-printing-test.h](#).

9.41.1.9 #define EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER

Definition at line 21 of file [debug-printing-test.h](#).

9.41.1.10 #define EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER

Definition at line 22 of file [debug-printing-test.h](#).

9.41.1.11 #define EMBER_AF_PRINT_ALARM_CLUSTER

Definition at line 23 of file [debug-printing-test.h](#).

9.41.1.12 #define EMBER_AF_PRINT_TIME_CLUSTER

Definition at line 24 of file [debug-printing-test.h](#).

9.41.1.13 #define EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER

Definition at line [25](#) of file [debug-printing-test.h](#).

9.41.1.14 #define EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER

Definition at line [26](#) of file [debug-printing-test.h](#).

9.41.1.15 #define EMBER_AF_PRINT_COMMISSIONING_CLUSTER

Definition at line [27](#) of file [debug-printing-test.h](#).

9.41.1.16 #define EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER

Definition at line [28](#) of file [debug-printing-test.h](#).

9.41.1.17 #define EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER

Definition at line [29](#) of file [debug-printing-test.h](#).

9.41.1.18 #define EMBER_AF_PRINT_THERMOSTAT_CLUSTER

Definition at line [30](#) of file [debug-printing-test.h](#).

9.41.1.19 #define EMBER_AF_PRINT_FAN_CONTROL_CLUSTER

Definition at line [31](#) of file [debug-printing-test.h](#).

9.41.1.20 #define EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER

Definition at line [32](#) of file [debug-printing-test.h](#).

9.41.1.21 #define EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER

Definition at line [33](#) of file [debug-printing-test.h](#).

9.41.1.22 #define EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER

Definition at line [34](#) of file [debug-printing-test.h](#).

9.41.1.23 #define EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER

Definition at line [35](#) of file [debug-printing-test.h](#).

9.41.1.24 #define EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER

Definition at line 36 of file [debug-printing-test.h](#).

9.41.1.25 #define EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER

Definition at line 37 of file [debug-printing-test.h](#).

9.41.1.26 #define EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER

Definition at line 38 of file [debug-printing-test.h](#).

9.41.1.27 #define EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER

Definition at line 39 of file [debug-printing-test.h](#).

9.41.1.28 #define EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER

Definition at line 40 of file [debug-printing-test.h](#).

9.41.1.29 #define EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER

Definition at line 41 of file [debug-printing-test.h](#).

9.41.1.30 #define EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER

Definition at line 42 of file [debug-printing-test.h](#).

9.41.1.31 #define EMBER_AF_PRINT_IAS_ZONE_CLUSTER

Definition at line 43 of file [debug-printing-test.h](#).

9.41.1.32 #define EMBER_AF_PRINT_IAS_ACE_CLUSTER

Definition at line 44 of file [debug-printing-test.h](#).

9.41.1.33 #define EMBER_AF_PRINT_IAS_WD_CLUSTER

Definition at line 45 of file [debug-printing-test.h](#).

9.41.1.34 #define EMBER_AF_PRINT_DOOR_LOCK_CLUSTER

Definition at line 46 of file [debug-printing-test.h](#).

9.41.1.35 #define EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER

Definition at line 47 of file [debug-printing-test.h](#).

9.41.1.36 #define EMBER_AF_PRINT_POWER_PROFILE_CLUSTER

Definition at line 48 of file [debug-printing-test.h](#).

9.41.1.37 #define EMBER_AF_PRINT_APPLIANCE_CONTROL_CLUSTER

Definition at line 49 of file [debug-printing-test.h](#).

9.41.1.38 #define EMBER_AF_PRINT_POLL_CONTROL_CLUSTER

Definition at line 50 of file [debug-printing-test.h](#).

9.41.1.39 #define EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER

Definition at line 51 of file [debug-printing-test.h](#).

9.41.1.40 #define EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER

Definition at line 52 of file [debug-printing-test.h](#).

9.41.1.41 #define EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER

Definition at line 53 of file [debug-printing-test.h](#).

9.41.1.42 #define EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER

Definition at line 54 of file [debug-printing-test.h](#).

9.41.1.43 #define EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER

Definition at line 55 of file [debug-printing-test.h](#).

9.41.1.44 #define EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER

Definition at line 56 of file [debug-printing-test.h](#).

9.41.1.45 #define EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER

Definition at line 57 of file [debug-printing-test.h](#).

9.41.1.46 #define EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER

Definition at line 58 of file [debug-printing-test.h](#).

9.41.1.47 #define EMBER_AF_PRINT_PRICE_CLUSTER

Definition at line 59 of file [debug-printing-test.h](#).

9.41.1.48 #define EMBER_AF_PRINT_MESSAGING_CLUSTER

Definition at line 60 of file [debug-printing-test.h](#).

9.41.1.49 #define EMBER_AF_PRINT_TUNNELING_CLUSTER

Definition at line 61 of file [debug-printing-test.h](#).

9.41.1.50 #define EMBER_AF_PRINT_PREPAYMENT_CLUSTER

Definition at line 62 of file [debug-printing-test.h](#).

9.41.1.51 #define EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER

Definition at line 63 of file [debug-printing-test.h](#).

9.41.1.52 #define EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER

Definition at line 64 of file [debug-printing-test.h](#).

9.41.1.53 #define EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER

Definition at line 65 of file [debug-printing-test.h](#).

9.41.1.54 #define EMBER_AF_PRINT_CORE

Definition at line 66 of file [debug-printing-test.h](#).

9.41.1.55 #define EMBER_AF_PRINT_DEBUG

Definition at line 67 of file [debug-printing-test.h](#).

9.41.1.56 #define EMBER_AF_PRINT_APP

Definition at line 68 of file [debug-printing-test.h](#).

9.41.1.57 #define EMBER_AF_PRINT_SECURITY

Definition at line 69 of file [debug-printing-test.h](#).

9.41.1.58 #define EMBER_AF_PRINT_ATTRIBUTES

Definition at line 70 of file [debug-printing-test.h](#).

9.41.1.59 #define EMBER_AF_PRINT_REPORTING

Definition at line 71 of file [debug-printing-test.h](#).

9.41.1.60 #define EMBER_AF_PRINT_SERVICE_DISCOVERY

Definition at line 72 of file [debug-printing-test.h](#).

9.41.1.61 #define EMBER_AF_PRINT_REGISTRATION

Definition at line 73 of file [debug-printing-test.h](#).

9.41.1.62 #define EMBER_AF_PRINT_ZDO

Definition at line 74 of file [debug-printing-test.h](#).

9.41.1.63 #define EMBER_AF_PRINT_CUSTOM1

Definition at line 75 of file [debug-printing-test.h](#).

9.41.1.64 #define EMBER_AF_PRINT_CUSTOM2

Definition at line 76 of file [debug-printing-test.h](#).

9.41.1.65 #define EMBER_AF_PRINT_CUSTOM3

Definition at line 77 of file [debug-printing-test.h](#).

9.41.1.66 #define EMBER_AF_PRINT_OUTPUT

Definition at line 80 of file [debug-printing-test.h](#).

9.41.1.67 #define EMBER_AF_PRINT_NAMES

Definition at line 83 of file [debug-printing-test.h](#).

9.41.1.68 #define EMBER_AF_PRINT_NAME_NUMBER

Definition at line 151 of file [debug-printing-test.h](#).

9.41.1.69 #define EMBER_AF_PRINT_BITS

Definition at line 152 of file [debug-printing-test.h](#).

9.42 debug-printing-test.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // This is the test header, that enables all printing
00008 // Enclosing macro to prevent multiple inclusion
00009 #ifndef __EMBER_AF_PRINTING_TEST__
00010 #define __EMBER_AF_PRINTING_TEST__
00011
00012
00013 #define EMBER_AF_PRINT_ENABLE
00014 #define EMBER_AF_PRINT_BASIC_CLUSTER 0x0001
00015 #define EMBER_AF_PRINT_POWER_CONFIG_CLUSTER 0x0002
00016 #define EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER 0x0004
00017 #define EMBER_AF_PRINT_IDENTIFY_CLUSTER 0x0008
00018 #define EMBER_AF_PRINT_GROUPS_CLUSTER 0x0010
00019 #define EMBER_AF_PRINT_SCENES_CLUSTER 0x0020
00020 #define EMBER_AF_PRINT_ON_OFF_CLUSTER 0x0040
00021 #define EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER 0x0080
00022 #define EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER 0x0101
00023 #define EMBER_AF_PRINT_ALARM_CLUSTER 0x0102
00024 #define EMBER_AF_PRINT_TIME_CLUSTER 0x0104
00025 #define EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER 0x0108
00026 #define EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER 0x0110
00027 #define EMBER_AF_PRINT_COMMISSIONING_CLUSTER 0x0120
00028 #define EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER 0x0140
00029 #define EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER 0x0180
00030 #define EMBER_AF_PRINT_THERMOSTAT_CLUSTER 0x0201
00031 #define EMBER_AF_PRINT_FAN_CONTROL_CLUSTER 0x0202
00032 #define EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER 0x0204
00033 #define EMBER_AF_PRINT_THERMOSTAT_UT_CONFIG_CLUSTER 0x0208
00034 #define EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER 0x0210
00035 #define EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER 0x0220
00036 #define EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER 0x0240
00037 #define EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER 0x0280
00038 #define EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER 0x0301
00039 #define EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER 0x0302
00040 #define EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER 0x0304
00041 #define EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER 0x0308
00042 #define EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER 0x0310
00043 #define EMBER_AF_PRINT_IAS_ZONE_CLUSTER 0x0320
00044 #define EMBER_AF_PRINT_IAS_ACE_CLUSTER 0x0340
00045 #define EMBER_AF_PRINT_IAS_WD_CLUSTER 0x0380
00046 #define EMBER_AF_PRINT_DOOR_LOCK_CLUSTER 0x0401
00047 #define EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER 0x0402
00048 #define EMBER_AF_PRINT_POWER_PROFILE_CLUSTER 0x0404
00049 #define EMBER_AF_PRINT_APPLIANCE_CONTROL_CLUSTER 0x0408
00050 #define EMBER_AF_PRINT_POLL_CONTROL_CLUSTER 0x0410
00051 #define EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER 0x0420
00052 #define EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER 0x0440
00053 #define EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER 0x0480
00054 #define EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER 0x0501
00055 #define EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER 0x0502
00056 #define EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER 0x0504
00057 #define EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER 0x0508
00058 #define EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER 0x0510
00059 #define EMBER_AF_PRINT_PRICE_CLUSTER 0x0520
00060 #define EMBER_AF_PRINT_MESSAGING_CLUSTER 0x0540
00061 #define EMBER_AF_PRINT_TUNNELING_CLUSTER 0x0580
00062 #define EMBER_AF_PRINT_PREPAYMENT_CLUSTER 0x0601

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00063 #define EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER 0x0602
00064 #define EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER 0x0604
00065 #define EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER 0x0608
00066 #define EMBER_AF_PRINT_CORE 0x0610
00067 #define EMBER_AF_PRINT_DEBUG 0x0620
00068 #define EMBER_AF_PRINT_APP 0x0640
00069 #define EMBER_AF_PRINT_SECURITY 0x0680
00070 #define EMBER_AF_PRINT_ATTRIBUTES 0x0701
00071 #define EMBER_AF_PRINT_REPORTING 0x0702
00072 #define EMBER_AF_PRINT_SERVICE_DISCOVERY 0x0704
00073 #define EMBER_AF_PRINT_REGISTRATION 0x0708
00074 #define EMBER_AF_PRINT_ZDO 0x0710
00075 #define EMBER_AF_PRINT_CUSTOM1 0x0720
00076 #define EMBER_AF_PRINT_CUSTOM2 0x0740
00077 #define EMBER_AF_PRINT_CUSTOM3 0x0780
00078
00079
00080 #define EMBER_AF_PRINT_OUTPUT 1
00081
00082
00083 #define EMBER_AF_PRINT_NAMES { \
00084     "Basic", \
00085     "Power Configuration", \
00086     "Device Temperature Configuration", \
00087     "Identify", \
00088     "Groups", \
00089     "Scenes", \
00090     "On/off", \
00091     "On/off Switch Configuration", \
00092     "Level Control", \
00093     "Alarms", \
00094     "Time", \
00095     "RSSI Location", \
00096     "Binary Input (Basic)", \
00097     "Commissioning", \
00098     "Shade Configuration", \
00099     "Pump Configuration and Control", \
00100     "Thermostat", \
00101     "Fan Control", \
00102     "Dehumidification Control", \
00103     "Thermostat User Interface Configuration", \
00104     "Color Control", \
00105     "Ballast Configuration", \
00106     "Illuminance Measurement", \
00107     "Illuminance Level Sensing", \
00108     "Temperature Measurement", \
00109     "Pressure Measurement", \
00110     "Flow Measurement", \
00111     "Relative Humidity Measurement", \
00112     "Occupancy Sensing", \
00113     "IAS Zone", \
00114     "IAS ACE", \
00115     "IAS WD", \
00116     "Door Lock", \
00117     "Window Covering", \
00118     "Power Profile", \
00119     "Appliance Control", \
00120     "Poll Control", \
00121     "Appliance Identification", \
00122     "Meter Identification", \
00123     "Appliance Events and Alert", \
00124     "Generic Tunnel", \
00125     "BACnet Protocol Tunnel", \
00126     "Over the Air Bootloading Cluster", \
00127     "Demand Response and Load Control", \
00128     "Simple Metering", \
00129     "Price", \
00130     "Messaging", \
00131     "Tunneling", \
00132     "Prepayment", \
00133     "Key establishment", \
00134     "ZLL Commissioning", \
00135     "Sample Mfg Specific Cluster", \
00136     "Core", \
00137     "Debug", \
00138     "Application", \
00139     "Security", \
00140     "Attributes", \
00141     "Reporting", \
00142     "Service discovery", \

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00143 "Registration", \
00144 "ZDO (ZigBee Device Object)", \
00145 "Custom messages (1)", \
00146 "Custom messages (2)", \
00147 "Custom messages (3)" \
00148 }
00149
00150
00151 #define EMBER_AF_PRINT_NAME_NUMBER 64
00152 #define EMBER_AF_PRINT_BITS { 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF }
00153
00154
00155 #endif // __EMBER_AF_PRINTING_TEST__

```

9.43 debug-printing.h File Reference

Defines

- #define `emberAfBasicClusterPrint(...)`
- #define `emberAfBasicClusterPrintln(...)`
- #define `emberAfBasicClusterFlush()`
- #define `emberAfBasicClusterDebugExec(x)`
- #define `emberAfBasicClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfBasicClusterPrintString(buffer)`
- #define `emberAfPowerConfigClusterPrint(...)`
- #define `emberAfPowerConfigClusterPrintln(...)`
- #define `emberAfPowerConfigClusterFlush()`
- #define `emberAfPowerConfigClusterDebugExec(x)`
- #define `emberAfPowerConfigClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPowerConfigClusterPrintString(buffer)`
- #define `emberAfDeviceTempClusterPrint(...)`
- #define `emberAfDeviceTempClusterPrintln(...)`
- #define `emberAfDeviceTempClusterFlush()`
- #define `emberAfDeviceTempClusterDebugExec(x)`
- #define `emberAfDeviceTempClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfDeviceTempClusterPrintString(buffer)`
- #define `emberAfIdentifyClusterPrint(...)`
- #define `emberAfIdentifyClusterPrintln(...)`
- #define `emberAfIdentifyClusterFlush()`
- #define `emberAfIdentifyClusterDebugExec(x)`
- #define `emberAfIdentifyClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfIdentifyClusterPrintString(buffer)`
- #define `emberAfGroupsClusterPrint(...)`
- #define `emberAfGroupsClusterPrintln(...)`
- #define `emberAfGroupsClusterFlush()`
- #define `emberAfGroupsClusterDebugExec(x)`
- #define `emberAfGroupsClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfGroupsClusterPrintString(buffer)`
- #define `emberAfScenesClusterPrint(...)`
- #define `emberAfScenesClusterPrintln(...)`
- #define `emberAfScenesClusterFlush()`
- #define `emberAfScenesClusterDebugExec(x)`
- #define `emberAfScenesClusterPrintBuffer(buffer, len, withSpace)`

- #define `emberAfScenesClusterPrintString(buffer)`
- #define `emberAfOnOffClusterPrint(...)`
- #define `emberAfOnOffClusterPrintln(...)`
- #define `emberAfOnOffClusterFlush()`
- #define `emberAfOnOffClusterDebugExec(x)`
- #define `emberAfOnOffClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfOnOffClusterPrintString(buffer)`
- #define `emberAfOnOffSwitchConfigClusterPrint(...)`
- #define `emberAfOnOffSwitchConfigClusterPrintln(...)`
- #define `emberAfOnOffSwitchConfigClusterFlush()`
- #define `emberAfOnOffSwitchConfigClusterDebugExec(x)`
- #define `emberAfOnOffSwitchConfigClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfOnOffSwitchConfigClusterPrintString(buffer)`
- #define `emberAfLevelControlClusterPrint(...)`
- #define `emberAfLevelControlClusterPrintln(...)`
- #define `emberAfLevelControlClusterFlush()`
- #define `emberAfLevelControlClusterDebugExec(x)`
- #define `emberAfLevelControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfLevelControlClusterPrintString(buffer)`
- #define `emberAfAlarmClusterPrint(...)`
- #define `emberAfAlarmClusterPrintln(...)`
- #define `emberAfAlarmClusterFlush()`
- #define `emberAfAlarmClusterDebugExec(x)`
- #define `emberAfAlarmClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfAlarmClusterPrintString(buffer)`
- #define `emberAfTimeClusterPrint(...)`
- #define `emberAfTimeClusterPrintln(...)`
- #define `emberAfTimeClusterFlush()`
- #define `emberAfTimeClusterDebugExec(x)`
- #define `emberAfTimeClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfTimeClusterPrintString(buffer)`
- #define `emberAfRssiLocationClusterPrint(...)`
- #define `emberAfRssiLocationClusterPrintln(...)`
- #define `emberAfRssiLocationClusterFlush()`
- #define `emberAfRssiLocationClusterDebugExec(x)`
- #define `emberAfRssiLocationClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfRssiLocationClusterPrintString(buffer)`
- #define `emberAfBinaryInputBasicClusterPrint(...)`
- #define `emberAfBinaryInputBasicClusterPrintln(...)`
- #define `emberAfBinaryInputBasicClusterFlush()`
- #define `emberAfBinaryInputBasicClusterDebugExec(x)`
- #define `emberAfBinaryInputBasicClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfBinaryInputBasicClusterPrintString(buffer)`
- #define `emberAfCommissioningClusterPrint(...)`
- #define `emberAfCommissioningClusterPrintln(...)`
- #define `emberAfCommissioningClusterFlush()`
- #define `emberAfCommissioningClusterDebugExec(x)`
- #define `emberAfCommissioningClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfCommissioningClusterPrintString(buffer)`
- #define `emberAfShadeConfigClusterPrint(...)`

- #define `emberAfShadeConfigClusterPrintln(...)`
- #define `emberAfShadeConfigClusterFlush()`
- #define `emberAfShadeConfigClusterDebugExec(x)`
- #define `emberAfShadeConfigClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfShadeConfigClusterPrintString(buffer)`
- #define `emberAfPumpConfigControlClusterPrint(...)`
- #define `emberAfPumpConfigControlClusterPrintln(...)`
- #define `emberAfPumpConfigControlClusterFlush()`
- #define `emberAfPumpConfigControlClusterDebugExec(x)`
- #define `emberAfPumpConfigControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPumpConfigControlClusterPrintString(buffer)`
- #define `emberAfThermostatClusterPrint(...)`
- #define `emberAfThermostatClusterPrintln(...)`
- #define `emberAfThermostatClusterFlush()`
- #define `emberAfThermostatClusterDebugExec(x)`
- #define `emberAfThermostatClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfThermostatClusterPrintString(buffer)`
- #define `emberAfFanControlClusterPrint(...)`
- #define `emberAfFanControlClusterPrintln(...)`
- #define `emberAfFanControlClusterFlush()`
- #define `emberAfFanControlClusterDebugExec(x)`
- #define `emberAfFanControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfFanControlClusterPrintString(buffer)`
- #define `emberAfDehumidControlClusterPrint(...)`
- #define `emberAfDehumidControlClusterPrintln(...)`
- #define `emberAfDehumidControlClusterFlush()`
- #define `emberAfDehumidControlClusterDebugExec(x)`
- #define `emberAfDehumidControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfDehumidControlClusterPrintString(buffer)`
- #define `emberAfThermostatUiConfigClusterPrint(...)`
- #define `emberAfThermostatUiConfigClusterPrintln(...)`
- #define `emberAfThermostatUiConfigClusterFlush()`
- #define `emberAfThermostatUiConfigClusterDebugExec(x)`
- #define `emberAfThermostatUiConfigClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfThermostatUiConfigClusterPrintString(buffer)`
- #define `emberAfColorControlClusterPrint(...)`
- #define `emberAfColorControlClusterPrintln(...)`
- #define `emberAfColorControlClusterFlush()`
- #define `emberAfColorControlClusterDebugExec(x)`
- #define `emberAfColorControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfColorControlClusterPrintString(buffer)`
- #define `emberAfBallastConfigurationClusterPrint(...)`
- #define `emberAfBallastConfigurationClusterPrintln(...)`
- #define `emberAfBallastConfigurationClusterFlush()`
- #define `emberAfBallastConfigurationClusterDebugExec(x)`
- #define `emberAfBallastConfigurationClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfBallastConfigurationClusterPrintString(buffer)`
- #define `emberAfIllumMeasurementClusterPrint(...)`
- #define `emberAfIllumMeasurementClusterPrintln(...)`
- #define `emberAfIllumMeasurementClusterFlush()`

- #define `emberAfIllumMeasurementClusterDebugExec(x)`
- #define `emberAfIllumMeasurementClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfIllumMeasurementClusterPrintString(buffer)`
- #define `emberAfIllumLevelSensingClusterPrint(...)`
- #define `emberAfIllumLevelSensingClusterPrintln(...)`
- #define `emberAfIllumLevelSensingClusterFlush()`
- #define `emberAfIllumLevelSensingClusterDebugExec(x)`
- #define `emberAfIllumLevelSensingClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfIllumLevelSensingClusterPrintString(buffer)`
- #define `emberAfTempMeasurementClusterPrint(...)`
- #define `emberAfTempMeasurementClusterPrintln(...)`
- #define `emberAfTempMeasurementClusterFlush()`
- #define `emberAfTempMeasurementClusterDebugExec(x)`
- #define `emberAfTempMeasurementClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfTempMeasurementClusterPrintString(buffer)`
- #define `emberAfPressureMeasurementClusterPrint(...)`
- #define `emberAfPressureMeasurementClusterPrintln(...)`
- #define `emberAfPressureMeasurementClusterFlush()`
- #define `emberAfPressureMeasurementClusterDebugExec(x)`
- #define `emberAfPressureMeasurementClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPressureMeasurementClusterPrintString(buffer)`
- #define `emberAfFlowMeasurementClusterPrint(...)`
- #define `emberAfFlowMeasurementClusterPrintln(...)`
- #define `emberAfFlowMeasurementClusterFlush()`
- #define `emberAfFlowMeasurementClusterDebugExec(x)`
- #define `emberAfFlowMeasurementClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfFlowMeasurementClusterPrintString(buffer)`
- #define `emberAfRelativeHumidityMeasurementClusterPrint(...)`
- #define `emberAfRelativeHumidityMeasurementClusterPrintln(...)`
- #define `emberAfRelativeHumidityMeasurementClusterFlush()`
- #define `emberAfRelativeHumidityMeasurementClusterDebugExec(x)`
- #define `emberAfRelativeHumidityMeasurementClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfRelativeHumidityMeasurementClusterPrintString(buffer)`
- #define `emberAfOccupancySensingClusterPrint(...)`
- #define `emberAfOccupancySensingClusterPrintln(...)`
- #define `emberAfOccupancySensingClusterFlush()`
- #define `emberAfOccupancySensingClusterDebugExec(x)`
- #define `emberAfOccupancySensingClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfOccupancySensingClusterPrintString(buffer)`
- #define `emberAfIotasZoneClusterPrint(...)`
- #define `emberAfIotasZoneClusterPrintln(...)`
- #define `emberAfIotasZoneClusterFlush()`
- #define `emberAfIotasZoneClusterDebugExec(x)`
- #define `emberAfIotasZoneClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfIotasZoneClusterPrintString(buffer)`
- #define `emberAfIotasAceClusterPrint(...)`
- #define `emberAfIotasAceClusterPrintln(...)`
- #define `emberAfIotasAceClusterFlush()`
- #define `emberAfIotasAceClusterDebugExec(x)`
- #define `emberAfIotasAceClusterPrintBuffer(buffer, len, withSpace)`

- #define `emberAfIasAceClusterPrintString(buffer)`
- #define `emberAfIasWdClusterPrint(...)`
- #define `emberAfIasWdClusterPrintln(...)`
- #define `emberAfIasWdClusterFlush()`
- #define `emberAfIasWdClusterDebugExec(x)`
- #define `emberAfIasWdClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfIasWdClusterPrintString(buffer)`
- #define `emberAfDoorLockClusterPrint(...)`
- #define `emberAfDoorLockClusterPrintln(...)`
- #define `emberAfDoorLockClusterFlush()`
- #define `emberAfDoorLockClusterDebugExec(x)`
- #define `emberAfDoorLockClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfDoorLockClusterPrintString(buffer)`
- #define `emberAfWindowCoveringClusterPrint(...)`
- #define `emberAfWindowCoveringClusterPrintln(...)`
- #define `emberAfWindowCoveringClusterFlush()`
- #define `emberAfWindowCoveringClusterDebugExec(x)`
- #define `emberAfWindowCoveringClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfWindowCoveringClusterPrintString(buffer)`
- #define `emberAfPowerProfileClusterPrint(...)`
- #define `emberAfPowerProfileClusterPrintln(...)`
- #define `emberAfPowerProfileClusterFlush()`
- #define `emberAfPowerProfileClusterDebugExec(x)`
- #define `emberAfPowerProfileClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPowerProfileClusterPrintString(buffer)`
- #define `emberAfApplianceControlClusterPrint(...)`
- #define `emberAfApplianceControlClusterPrintln(...)`
- #define `emberAfApplianceControlClusterFlush()`
- #define `emberAfApplianceControlClusterDebugExec(x)`
- #define `emberAfApplianceControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfApplianceControlClusterPrintString(buffer)`
- #define `emberAfPollControlClusterPrint(...)`
- #define `emberAfPollControlClusterPrintln(...)`
- #define `emberAfPollControlClusterFlush()`
- #define `emberAfPollControlClusterDebugExec(x)`
- #define `emberAfPollControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPollControlClusterPrintString(buffer)`
- #define `emberAfApplianceIdentificationClusterPrint(...)`
- #define `emberAfApplianceIdentificationClusterPrintln(...)`
- #define `emberAfApplianceIdentificationClusterFlush()`
- #define `emberAfApplianceIdentificationClusterDebugExec(x)`
- #define `emberAfApplianceIdentificationClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfApplianceIdentificationClusterPrintString(buffer)`
- #define `emberAfMeterIdentificationClusterPrint(...)`
- #define `emberAfMeterIdentificationClusterPrintln(...)`
- #define `emberAfMeterIdentificationClusterFlush()`
- #define `emberAfMeterIdentificationClusterDebugExec(x)`
- #define `emberAfMeterIdentificationClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfMeterIdentificationClusterPrintString(buffer)`
- #define `emberAfApplianceEventsAndAlertClusterPrint(...)`

- #define `emberAfApplianceEventsAndAlertClusterPrintIn(...)`
- #define `emberAfApplianceEventsAndAlertClusterFlush()`
- #define `emberAfApplianceEventsAndAlertClusterDebugExec(x)`
- #define `emberAfApplianceEventsAndAlertClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfApplianceEventsAndAlertClusterPrintString(buffer)`
- #define `emberAfGenericTunnelClusterPrint(...)`
- #define `emberAfGenericTunnelClusterPrintIn(...)`
- #define `emberAfGenericTunnelClusterFlush()`
- #define `emberAfGenericTunnelClusterDebugExec(x)`
- #define `emberAfGenericTunnelClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfGenericTunnelClusterPrintString(buffer)`
- #define `emberAfBacnetProtocolTunnelClusterPrint(...)`
- #define `emberAfBacnetProtocolTunnelClusterPrintIn(...)`
- #define `emberAfBacnetProtocolTunnelClusterFlush()`
- #define `emberAfBacnetProtocolTunnelClusterDebugExec(x)`
- #define `emberAfBacnetProtocolTunnelClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfBacnetProtocolTunnelClusterPrintString(buffer)`
- #define `emberAfOtaBootloadClusterPrint(...)`
- #define `emberAfOtaBootloadClusterPrintIn(...)`
- #define `emberAfOtaBootloadClusterFlush()`
- #define `emberAfOtaBootloadClusterDebugExec(x)`
- #define `emberAfOtaBootloadClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfOtaBootloadClusterPrintString(buffer)`
- #define `emberAfDemandResponseLoadControlClusterPrint(...)`
- #define `emberAfDemandResponseLoadControlClusterPrintIn(...)`
- #define `emberAfDemandResponseLoadControlClusterFlush()`
- #define `emberAfDemandResponseLoadControlClusterDebugExec(x)`
- #define `emberAfDemandResponseLoadControlClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfDemandResponseLoadControlClusterPrintString(buffer)`
- #define `emberAfSimpleMeteringClusterPrint(...)`
- #define `emberAfSimpleMeteringClusterPrintIn(...)`
- #define `emberAfSimpleMeteringClusterFlush()`
- #define `emberAfSimpleMeteringClusterDebugExec(x)`
- #define `emberAfSimpleMeteringClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfSimpleMeteringClusterPrintString(buffer)`
- #define `emberAfPriceClusterPrint(...)`
- #define `emberAfPriceClusterPrintIn(...)`
- #define `emberAfPriceClusterFlush()`
- #define `emberAfPriceClusterDebugExec(x)`
- #define `emberAfPriceClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPriceClusterPrintString(buffer)`
- #define `emberAfMessagingClusterPrint(...)`
- #define `emberAfMessagingClusterPrintIn(...)`
- #define `emberAfMessagingClusterFlush()`
- #define `emberAfMessagingClusterDebugExec(x)`
- #define `emberAfMessagingClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfMessagingClusterPrintString(buffer)`
- #define `emberAfTunnelingClusterPrint(...)`
- #define `emberAfTunnelingClusterPrintIn(...)`
- #define `emberAfTunnelingClusterFlush()`

- #define `emberAfTunnelingClusterDebugExec(x)`
- #define `emberAfTunnelingClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfTunnelingClusterPrintString(buffer)`
- #define `emberAfPrepaymentClusterPrint(...)`
- #define `emberAfPrepaymentClusterPrintln(...)`
- #define `emberAfPrepaymentClusterFlush()`
- #define `emberAfPrepaymentClusterDebugExec(x)`
- #define `emberAfPrepaymentClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfPrepaymentClusterPrintString(buffer)`
- #define `emberAfKeyEstablishmentClusterPrint(...)`
- #define `emberAfKeyEstablishmentClusterPrintln(...)`
- #define `emberAfKeyEstablishmentClusterFlush()`
- #define `emberAfKeyEstablishmentClusterDebugExec(x)`
- #define `emberAfKeyEstablishmentClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfKeyEstablishmentClusterPrintString(buffer)`
- #define `emberAfZllCommissioningClusterPrint(...)`
- #define `emberAfZllCommissioningClusterPrintln(...)`
- #define `emberAfZllCommissioningClusterFlush()`
- #define `emberAfZllCommissioningClusterDebugExec(x)`
- #define `emberAfZllCommissioningClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfZllCommissioningClusterPrintString(buffer)`
- #define `emberAfSampleMfgSpecificClusterPrint(...)`
- #define `emberAfSampleMfgSpecificClusterPrintln(...)`
- #define `emberAfSampleMfgSpecificClusterFlush()`
- #define `emberAfSampleMfgSpecificClusterDebugExec(x)`
- #define `emberAfSampleMfgSpecificClusterPrintBuffer(buffer, len, withSpace)`
- #define `emberAfSampleMfgSpecificClusterPrintString(buffer)`
- #define `emberAfCorePrint(...)`
- #define `emberAfCorePrintln(...)`
- #define `emberAfCoreFlush()`
- #define `emberAfCoreDebugExec(x)`
- #define `emberAfCorePrintBuffer(buffer, len, withSpace)`
- #define `emberAfCorePrintString(buffer)`
- #define `emberAfDebugPrint(...)`
- #define `emberAfDebugPrintln(...)`
- #define `emberAfDebugFlush()`
- #define `emberAfDebugDebugExec(x)`
- #define `emberAfDebugPrintBuffer(buffer, len, withSpace)`
- #define `emberAfDebugPrintString(buffer)`
- #define `emberAfAppPrint(...)`
- #define `emberAfAppPrintln(...)`
- #define `emberAfAppFlush()`
- #define `emberAfAppDebugExec(x)`
- #define `emberAfAppPrintBuffer(buffer, len, withSpace)`
- #define `emberAfAppPrintString(buffer)`
- #define `emberAfSecurityPrint(...)`
- #define `emberAfSecurityPrintln(...)`
- #define `emberAfSecurityFlush()`
- #define `emberAfSecurityDebugExec(x)`
- #define `emberAfSecurityPrintBuffer(buffer, len, withSpace)`

- #define `emberAfSecurityPrintString`(buffer)
- #define `emberAfAttributesPrint`(...)
- #define `emberAfAttributesPrintln`(...)
- #define `emberAfAttributesFlush`()
- #define `emberAfAttributesDebugExec`(x)
- #define `emberAfAttributesPrintBuffer`(buffer, len, withSpace)
- #define `emberAfAttributesPrintString`(buffer)
- #define `emberAfReportingPrint`(...)
- #define `emberAfReportingPrintln`(...)
- #define `emberAfReportingFlush`()
- #define `emberAfReportingDebugExec`(x)
- #define `emberAfReportingPrintBuffer`(buffer, len, withSpace)
- #define `emberAfReportingPrintString`(buffer)
- #define `emberAfServiceDiscoveryPrint`(...)
- #define `emberAfServiceDiscoveryPrintln`(...)
- #define `emberAfServiceDiscoveryFlush`()
- #define `emberAfServiceDiscoveryDebugExec`(x)
- #define `emberAfServiceDiscoveryPrintBuffer`(buffer, len, withSpace)
- #define `emberAfServiceDiscoveryPrintString`(buffer)
- #define `emberAfRegistrationPrint`(...)
- #define `emberAfRegistrationPrintln`(...)
- #define `emberAfRegistrationFlush`()
- #define `emberAfRegistrationDebugExec`(x)
- #define `emberAfRegistrationPrintBuffer`(buffer, len, withSpace)
- #define `emberAfRegistrationPrintString`(buffer)
- #define `emberAfZdoPrint`(...)
- #define `emberAfZdoPrintln`(...)
- #define `emberAfZdoFlush`()
- #define `emberAfZdoDebugExec`(x)
- #define `emberAfZdoPrintBuffer`(buffer, len, withSpace)
- #define `emberAfZdoPrintString`(buffer)
- #define `emberAfCustom1Print`(...)
- #define `emberAfCustom1Println`(...)
- #define `emberAfCustom1Flush`()
- #define `emberAfCustom1DebugExec`(x)
- #define `emberAfCustom1PrintBuffer`(buffer, len, withSpace)
- #define `emberAfCustom1PrintString`(buffer)
- #define `emberAfCustom2Print`(...)
- #define `emberAfCustom2Println`(...)
- #define `emberAfCustom2Flush`()
- #define `emberAfCustom2DebugExec`(x)
- #define `emberAfCustom2PrintBuffer`(buffer, len, withSpace)
- #define `emberAfCustom2PrintString`(buffer)
- #define `emberAfCustom3Print`(...)
- #define `emberAfCustom3Println`(...)
- #define `emberAfCustom3Flush`()
- #define `emberAfCustom3DebugExec`(x)
- #define `emberAfCustom3PrintBuffer`(buffer, len, withSpace)
- #define `emberAfCustom3PrintString`(buffer)

9.43.1 Define Documentation

9.43.1.1 #define emberAfBasicClusterPrint(...)

Definition at line 16 of file [debug-printing.h](#).

9.43.1.2 #define emberAfBasicClusterPrintln(...)

Definition at line 17 of file [debug-printing.h](#).

9.43.1.3 #define emberAfBasicClusterFlush()

Definition at line 18 of file [debug-printing.h](#).

9.43.1.4 #define emberAfBasicClusterDebugExec(x)

Definition at line 19 of file [debug-printing.h](#).

9.43.1.5 #define emberAfBasicClusterPrintBuffer(buffer, len, withSpace)

Definition at line 20 of file [debug-printing.h](#).

9.43.1.6 #define emberAfBasicClusterPrintString(buffer)

Definition at line 21 of file [debug-printing.h](#).

9.43.1.7 #define emberAfPowerConfigClusterPrint(...)

Definition at line 34 of file [debug-printing.h](#).

9.43.1.8 #define emberAfPowerConfigClusterPrintln(...)

Definition at line 35 of file [debug-printing.h](#).

9.43.1.9 #define emberAfPowerConfigClusterFlush()

Definition at line 36 of file [debug-printing.h](#).

9.43.1.10 #define emberAfPowerConfigClusterDebugExec(x)

Definition at line 37 of file [debug-printing.h](#).

9.43.1.11 #define emberAfPowerConfigClusterPrintBuffer(buffer, len, withSpace)

Definition at line 38 of file [debug-printing.h](#).

9.43.1.12 #define emberAfPowerConfigClusterPrintString(*buffer*)

Definition at line 39 of file [debug-printing.h](#).

9.43.1.13 #define emberAfDeviceTempClusterPrint(...)

Definition at line 52 of file [debug-printing.h](#).

9.43.1.14 #define emberAfDeviceTempClusterPrintln(...)

Definition at line 53 of file [debug-printing.h](#).

9.43.1.15 #define emberAfDeviceTempClusterFlush()

Definition at line 54 of file [debug-printing.h](#).

9.43.1.16 #define emberAfDeviceTempClusterDebugExec(*x*)

Definition at line 55 of file [debug-printing.h](#).

9.43.1.17 #define emberAfDeviceTempClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 56 of file [debug-printing.h](#).

9.43.1.18 #define emberAfDeviceTempClusterPrintString(*buffer*)

Definition at line 57 of file [debug-printing.h](#).

9.43.1.19 #define emberAfIdentifyClusterPrint(...)

Definition at line 70 of file [debug-printing.h](#).

9.43.1.20 #define emberAfIdentifyClusterPrintln(...)

Definition at line 71 of file [debug-printing.h](#).

9.43.1.21 #define emberAfIdentifyClusterFlush()

Definition at line 72 of file [debug-printing.h](#).

9.43.1.22 #define emberAfIdentifyClusterDebugExec(*x*)

Definition at line 73 of file [debug-printing.h](#).

9.43.1.23 #define emberAfIdentifyClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 74 of file [debug-printing.h](#).

9.43.1.24 #define emberAfIdentifyClusterPrintString(*buffer*)

Definition at line 75 of file [debug-printing.h](#).

9.43.1.25 #define emberAfGroupsClusterPrint(...)

Definition at line 88 of file [debug-printing.h](#).

9.43.1.26 #define emberAfGroupsClusterPrintln(...)

Definition at line 89 of file [debug-printing.h](#).

9.43.1.27 #define emberAfGroupsClusterFlush()

Definition at line 90 of file [debug-printing.h](#).

9.43.1.28 #define emberAfGroupsClusterDebugExec(*x*)

Definition at line 91 of file [debug-printing.h](#).

9.43.1.29 #define emberAfGroupsClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 92 of file [debug-printing.h](#).

9.43.1.30 #define emberAfGroupsClusterPrintString(*buffer*)

Definition at line 93 of file [debug-printing.h](#).

9.43.1.31 #define emberAfScenesClusterPrint(...)

Definition at line 106 of file [debug-printing.h](#).

9.43.1.32 #define emberAfScenesClusterPrintln(...)

Definition at line 107 of file [debug-printing.h](#).

9.43.1.33 #define emberAfScenesClusterFlush()

Definition at line 108 of file [debug-printing.h](#).

9.43.1.34 #define emberAfScenesClusterDebugExec(*x*)

Definition at line 109 of file [debug-printing.h](#).

9.43.1.35 #define emberAfScenesClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 110 of file [debug-printing.h](#).

9.43.1.36 #define emberAfScenesClusterPrintString(*buffer*)

Definition at line 111 of file [debug-printing.h](#).

9.43.1.37 #define emberAfOnOffClusterPrint(...)

Definition at line 124 of file [debug-printing.h](#).

9.43.1.38 #define emberAfOnOffClusterPrintln(...)

Definition at line 125 of file [debug-printing.h](#).

9.43.1.39 #define emberAfOnOffClusterFlush()

Definition at line 126 of file [debug-printing.h](#).

9.43.1.40 #define emberAfOnOffClusterDebugExec(*x*)

Definition at line 127 of file [debug-printing.h](#).

9.43.1.41 #define emberAfOnOffClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 128 of file [debug-printing.h](#).

9.43.1.42 #define emberAfOnOffClusterPrintString(*buffer*)

Definition at line 129 of file [debug-printing.h](#).

9.43.1.43 #define emberAfOnOffSwitchConfigClusterPrint(...)

Definition at line 142 of file [debug-printing.h](#).

9.43.1.44 #define emberAfOnOffSwitchConfigClusterPrintln(...)

Definition at line 143 of file [debug-printing.h](#).

9.43.1.45 #define emberAfOnOffSwitchConfigClusterFlush()

Definition at line 144 of file [debug-printing.h](#).

9.43.1.46 #define emberAfOnOffSwitchConfigClusterDebugExec(x)

Definition at line 145 of file [debug-printing.h](#).

9.43.1.47 #define emberAfOnOffSwitchConfigClusterPrintBuffer(buffer, len, withSpace)

Definition at line 146 of file [debug-printing.h](#).

9.43.1.48 #define emberAfOnOffSwitchConfigClusterPrintString(buffer)

Definition at line 147 of file [debug-printing.h](#).

9.43.1.49 #define emberAfLevelControlClusterPrint(...)

Definition at line 160 of file [debug-printing.h](#).

9.43.1.50 #define emberAfLevelControlClusterPrintln(...)

Definition at line 161 of file [debug-printing.h](#).

9.43.1.51 #define emberAfLevelControlClusterFlush()

Definition at line 162 of file [debug-printing.h](#).

9.43.1.52 #define emberAfLevelControlClusterDebugExec(x)

Definition at line 163 of file [debug-printing.h](#).

9.43.1.53 #define emberAfLevelControlClusterPrintBuffer(buffer, len, withSpace)

Definition at line 164 of file [debug-printing.h](#).

9.43.1.54 #define emberAfLevelControlClusterPrintString(buffer)

Definition at line 165 of file [debug-printing.h](#).

9.43.1.55 #define emberAfAlarmClusterPrint(...)

Definition at line 178 of file [debug-printing.h](#).

9.43.1.56 #define emberAfAlarmClusterPrintln(...)

Definition at line 179 of file [debug-printing.h](#).

9.43.1.57 #define emberAfAlarmClusterFlush()

Definition at line 180 of file [debug-printing.h](#).

9.43.1.58 #define emberAfAlarmClusterDebugExec(x)

Definition at line 181 of file [debug-printing.h](#).

9.43.1.59 #define emberAfAlarmClusterPrintBuffer(buffer, len, withSpace)

Definition at line 182 of file [debug-printing.h](#).

9.43.1.60 #define emberAfAlarmClusterPrintString(buffer)

Definition at line 183 of file [debug-printing.h](#).

9.43.1.61 #define emberAfTimeClusterPrint(...)

Definition at line 196 of file [debug-printing.h](#).

9.43.1.62 #define emberAfTimeClusterPrintln(...)

Definition at line 197 of file [debug-printing.h](#).

9.43.1.63 #define emberAfTimeClusterFlush()

Definition at line 198 of file [debug-printing.h](#).

9.43.1.64 #define emberAfTimeClusterDebugExec(x)

Definition at line 199 of file [debug-printing.h](#).

9.43.1.65 #define emberAfTimeClusterPrintBuffer(buffer, len, withSpace)

Definition at line 200 of file [debug-printing.h](#).

9.43.1.66 #define emberAfTimeClusterPrintString(buffer)

Definition at line 201 of file [debug-printing.h](#).

9.43.1.67 #define emberAfRssiLocationClusterPrint(...)

Definition at line 214 of file [debug-printing.h](#).

9.43.1.68 #define emberAfRssiLocationClusterPrintln(...)

Definition at line 215 of file [debug-printing.h](#).

9.43.1.69 #define emberAfRssiLocationClusterFlush()

Definition at line 216 of file [debug-printing.h](#).

9.43.1.70 #define emberAfRssiLocationClusterDebugExec(x)

Definition at line 217 of file [debug-printing.h](#).

9.43.1.71 #define emberAfRssiLocationClusterPrintBuffer(buffer, len, withSpace)

Definition at line 218 of file [debug-printing.h](#).

9.43.1.72 #define emberAfRssiLocationClusterPrintString(buffer)

Definition at line 219 of file [debug-printing.h](#).

9.43.1.73 #define emberAfBinaryInputBasicClusterPrint(...)

Definition at line 232 of file [debug-printing.h](#).

9.43.1.74 #define emberAfBinaryInputBasicClusterPrintln(...)

Definition at line 233 of file [debug-printing.h](#).

9.43.1.75 #define emberAfBinaryInputBasicClusterFlush()

Definition at line 234 of file [debug-printing.h](#).

9.43.1.76 #define emberAfBinaryInputBasicClusterDebugExec(x)

Definition at line 235 of file [debug-printing.h](#).

9.43.1.77 #define emberAfBinaryInputBasicClusterPrintBuffer(buffer, len, withSpace)

Definition at line 236 of file [debug-printing.h](#).

9.43.1.78 #define emberAfBinaryInputBasicClusterPrintString(*buffer*)

Definition at line [237](#) of file [debug-printing.h](#).

9.43.1.79 #define emberAfCommissioningClusterPrint(...)

Definition at line [250](#) of file [debug-printing.h](#).

9.43.1.80 #define emberAfCommissioningClusterPrintln(...)

Definition at line [251](#) of file [debug-printing.h](#).

9.43.1.81 #define emberAfCommissioningClusterFlush()

Definition at line [252](#) of file [debug-printing.h](#).

9.43.1.82 #define emberAfCommissioningClusterDebugExec(*x*)

Definition at line [253](#) of file [debug-printing.h](#).

9.43.1.83 #define emberAfCommissioningClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [254](#) of file [debug-printing.h](#).

9.43.1.84 #define emberAfCommissioningClusterPrintString(*buffer*)

Definition at line [255](#) of file [debug-printing.h](#).

9.43.1.85 #define emberAfShadeConfigClusterPrint(...)

Definition at line [268](#) of file [debug-printing.h](#).

9.43.1.86 #define emberAfShadeConfigClusterPrintln(...)

Definition at line [269](#) of file [debug-printing.h](#).

9.43.1.87 #define emberAfShadeConfigClusterFlush()

Definition at line [270](#) of file [debug-printing.h](#).

9.43.1.88 #define emberAfShadeConfigClusterDebugExec(*x*)

Definition at line [271](#) of file [debug-printing.h](#).

9.43.1.89 #define emberAfShadeConfigClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 272 of file [debug-printing.h](#).

9.43.1.90 #define emberAfShadeConfigClusterPrintString(*buffer*)

Definition at line 273 of file [debug-printing.h](#).

9.43.1.91 #define emberAfPumpConfigControlClusterPrint(...)

Definition at line 286 of file [debug-printing.h](#).

9.43.1.92 #define emberAfPumpConfigControlClusterPrintln(...)

Definition at line 287 of file [debug-printing.h](#).

9.43.1.93 #define emberAfPumpConfigControlClusterFlush()

Definition at line 288 of file [debug-printing.h](#).

9.43.1.94 #define emberAfPumpConfigControlClusterDebugExec(*x*)

Definition at line 289 of file [debug-printing.h](#).

9.43.1.95 #define emberAfPumpConfigControlClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 290 of file [debug-printing.h](#).

9.43.1.96 #define emberAfPumpConfigControlClusterPrintString(*buffer*)

Definition at line 291 of file [debug-printing.h](#).

9.43.1.97 #define emberAfThermostatClusterPrint(...)

Definition at line 304 of file [debug-printing.h](#).

9.43.1.98 #define emberAfThermostatClusterPrintln(...)

Definition at line 305 of file [debug-printing.h](#).

9.43.1.99 #define emberAfThermostatClusterFlush()

Definition at line 306 of file [debug-printing.h](#).

9.43.1.100 #define emberAfThermostatClusterDebugExec(*x*)

Definition at line [307](#) of file [debug-printing.h](#).

9.43.1.101 #define emberAfThermostatClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [308](#) of file [debug-printing.h](#).

9.43.1.102 #define emberAfThermostatClusterPrintString(*buffer*)

Definition at line [309](#) of file [debug-printing.h](#).

9.43.1.103 #define emberAfFanControlClusterPrint(...)

Definition at line [322](#) of file [debug-printing.h](#).

9.43.1.104 #define emberAfFanControlClusterPrintln(...)

Definition at line [323](#) of file [debug-printing.h](#).

9.43.1.105 #define emberAfFanControlClusterFlush()

Definition at line [324](#) of file [debug-printing.h](#).

9.43.1.106 #define emberAfFanControlClusterDebugExec(*x*)

Definition at line [325](#) of file [debug-printing.h](#).

9.43.1.107 #define emberAfFanControlClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [326](#) of file [debug-printing.h](#).

9.43.1.108 #define emberAfFanControlClusterPrintString(*buffer*)

Definition at line [327](#) of file [debug-printing.h](#).

9.43.1.109 #define emberAfDehumidControlClusterPrint(...)

Definition at line [340](#) of file [debug-printing.h](#).

9.43.1.110 #define emberAfDehumidControlClusterPrintln(...)

Definition at line [341](#) of file [debug-printing.h](#).

9.43.1.111 #define emberAfDehumidControlClusterFlush()

Definition at line [342](#) of file [debug-printing.h](#).

9.43.1.112 #define emberAfDehumidControlClusterDebugExec(x)

Definition at line [343](#) of file [debug-printing.h](#).

9.43.1.113 #define emberAfDehumidControlClusterPrintBuffer(buffer, len, withSpace)

Definition at line [344](#) of file [debug-printing.h](#).

9.43.1.114 #define emberAfDehumidControlClusterPrintString(buffer)

Definition at line [345](#) of file [debug-printing.h](#).

9.43.1.115 #define emberAfThermostatUiConfigClusterPrint(...)

Definition at line [358](#) of file [debug-printing.h](#).

9.43.1.116 #define emberAfThermostatUiConfigClusterPrintln(...)

Definition at line [359](#) of file [debug-printing.h](#).

9.43.1.117 #define emberAfThermostatUiConfigClusterFlush()

Definition at line [360](#) of file [debug-printing.h](#).

9.43.1.118 #define emberAfThermostatUiConfigClusterDebugExec(x)

Definition at line [361](#) of file [debug-printing.h](#).

9.43.1.119 #define emberAfThermostatUiConfigClusterPrintBuffer(buffer, len, withSpace)

Definition at line [362](#) of file [debug-printing.h](#).

9.43.1.120 #define emberAfThermostatUiConfigClusterPrintString(buffer)

Definition at line [363](#) of file [debug-printing.h](#).

9.43.1.121 #define emberAfColorControlClusterPrint(...)

Definition at line [376](#) of file [debug-printing.h](#).

9.43.1.122 #define emberAfColorControlClusterPrintln(...)

Definition at line [377](#) of file [debug-printing.h](#).

9.43.1.123 #define emberAfColorControlClusterFlush()

Definition at line [378](#) of file [debug-printing.h](#).

9.43.1.124 #define emberAfColorControlClusterDebugExec(x)

Definition at line [379](#) of file [debug-printing.h](#).

9.43.1.125 #define emberAfColorControlClusterPrintBuffer(buffer, len, withSpace)

Definition at line [380](#) of file [debug-printing.h](#).

9.43.1.126 #define emberAfColorControlClusterPrintString(buffer)

Definition at line [381](#) of file [debug-printing.h](#).

9.43.1.127 #define emberAfBallastConfigurationClusterPrint(...)

Definition at line [394](#) of file [debug-printing.h](#).

9.43.1.128 #define emberAfBallastConfigurationClusterPrintln(...)

Definition at line [395](#) of file [debug-printing.h](#).

9.43.1.129 #define emberAfBallastConfigurationClusterFlush()

Definition at line [396](#) of file [debug-printing.h](#).

9.43.1.130 #define emberAfBallastConfigurationClusterDebugExec(x)

Definition at line [397](#) of file [debug-printing.h](#).

9.43.1.131 #define emberAfBallastConfigurationClusterPrintBuffer(buffer, len, withSpace)

Definition at line [398](#) of file [debug-printing.h](#).

9.43.1.132 #define emberAfBallastConfigurationClusterPrintString(buffer)

Definition at line [399](#) of file [debug-printing.h](#).

9.43.1.133 #define emberAfIllumMeasurementClusterPrint(...)

Definition at line [412](#) of file [debug-printing.h](#).

9.43.1.134 #define emberAfIllumMeasurementClusterPrintln(...)

Definition at line [413](#) of file [debug-printing.h](#).

9.43.1.135 #define emberAfIllumMeasurementClusterFlush()

Definition at line [414](#) of file [debug-printing.h](#).

9.43.1.136 #define emberAfIllumMeasurementClusterDebugExec(x)

Definition at line [415](#) of file [debug-printing.h](#).

9.43.1.137 #define emberAfIllumMeasurementClusterPrintBuffer(buffer, len, withSpace)

Definition at line [416](#) of file [debug-printing.h](#).

9.43.1.138 #define emberAfIllumMeasurementClusterPrintString(buffer)

Definition at line [417](#) of file [debug-printing.h](#).

9.43.1.139 #define emberAfIllumLevelSensingClusterPrint(...)

Definition at line [430](#) of file [debug-printing.h](#).

9.43.1.140 #define emberAfIllumLevelSensingClusterPrintln(...)

Definition at line [431](#) of file [debug-printing.h](#).

9.43.1.141 #define emberAfIllumLevelSensingClusterFlush()

Definition at line [432](#) of file [debug-printing.h](#).

9.43.1.142 #define emberAfIllumLevelSensingClusterDebugExec(x)

Definition at line [433](#) of file [debug-printing.h](#).

9.43.1.143 #define emberAfIllumLevelSensingClusterPrintBuffer(buffer, len, withSpace)

Definition at line [434](#) of file [debug-printing.h](#).

9.43.1.144 #define emberAfIllumLevelSensingClusterPrintString(*buffer*)

Definition at line [435](#) of file [debug-printing.h](#).

9.43.1.145 #define emberAfTempMeasurementClusterPrint(...)

Definition at line [448](#) of file [debug-printing.h](#).

9.43.1.146 #define emberAfTempMeasurementClusterPrintln(...)

Definition at line [449](#) of file [debug-printing.h](#).

9.43.1.147 #define emberAfTempMeasurementClusterFlush()

Definition at line [450](#) of file [debug-printing.h](#).

9.43.1.148 #define emberAfTempMeasurementClusterDebugExec(*x*)

Definition at line [451](#) of file [debug-printing.h](#).

9.43.1.149 #define emberAfTempMeasurementClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [452](#) of file [debug-printing.h](#).

9.43.1.150 #define emberAfTempMeasurementClusterPrintString(*buffer*)

Definition at line [453](#) of file [debug-printing.h](#).

9.43.1.151 #define emberAfPressureMeasurementClusterPrint(...)

Definition at line [466](#) of file [debug-printing.h](#).

9.43.1.152 #define emberAfPressureMeasurementClusterPrintln(...)

Definition at line [467](#) of file [debug-printing.h](#).

9.43.1.153 #define emberAfPressureMeasurementClusterFlush()

Definition at line [468](#) of file [debug-printing.h](#).

9.43.1.154 #define emberAfPressureMeasurementClusterDebugExec(*x*)

Definition at line [469](#) of file [debug-printing.h](#).

9.43.1.155 #define emberAfPressureMeasurementClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [470](#) of file [debug-printing.h](#).

9.43.1.156 #define emberAfPressureMeasurementClusterPrintString(*buffer*)

Definition at line [471](#) of file [debug-printing.h](#).

9.43.1.157 #define emberAfFlowMeasurementClusterPrint(...)

Definition at line [484](#) of file [debug-printing.h](#).

9.43.1.158 #define emberAfFlowMeasurementClusterPrintln(...)

Definition at line [485](#) of file [debug-printing.h](#).

9.43.1.159 #define emberAfFlowMeasurementClusterFlush()

Definition at line [486](#) of file [debug-printing.h](#).

9.43.1.160 #define emberAfFlowMeasurementClusterDebugExec(*x*)

Definition at line [487](#) of file [debug-printing.h](#).

9.43.1.161 #define emberAfFlowMeasurementClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [488](#) of file [debug-printing.h](#).

9.43.1.162 #define emberAfFlowMeasurementClusterPrintString(*buffer*)

Definition at line [489](#) of file [debug-printing.h](#).

9.43.1.163 #define emberAfRelativeHumidityMeasurementClusterPrint(...)

Definition at line [502](#) of file [debug-printing.h](#).

9.43.1.164 #define emberAfRelativeHumidityMeasurementClusterPrintln(...)

Definition at line [503](#) of file [debug-printing.h](#).

9.43.1.165 #define emberAfRelativeHumidityMeasurementClusterFlush()

Definition at line [504](#) of file [debug-printing.h](#).

9.43.1.166 #define emberAfRelativeHumidityMeasurementClusterDebugExec(*x*)

Definition at line [505](#) of file [debug-printing.h](#).

**9.43.1.167 #define emberAfRelativeHumidityMeasurementClusterPrintBuffer(*buffer*, *len*,
 withSpace)**

Definition at line [506](#) of file [debug-printing.h](#).

9.43.1.168 #define emberAfRelativeHumidityMeasurementClusterPrintString(*buffer*)

Definition at line [507](#) of file [debug-printing.h](#).

9.43.1.169 #define emberAfOccupancySensingClusterPrint(...)

Definition at line [520](#) of file [debug-printing.h](#).

9.43.1.170 #define emberAfOccupancySensingClusterPrintln(...)

Definition at line [521](#) of file [debug-printing.h](#).

9.43.1.171 #define emberAfOccupancySensingClusterFlush()

Definition at line [522](#) of file [debug-printing.h](#).

9.43.1.172 #define emberAfOccupancySensingClusterDebugExec(*x*)

Definition at line [523](#) of file [debug-printing.h](#).

9.43.1.173 #define emberAfOccupancySensingClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [524](#) of file [debug-printing.h](#).

9.43.1.174 #define emberAfOccupancySensingClusterPrintString(*buffer*)

Definition at line [525](#) of file [debug-printing.h](#).

9.43.1.175 #define emberAfIasZoneClusterPrint(...)

Definition at line [538](#) of file [debug-printing.h](#).

9.43.1.176 #define emberAfIasZoneClusterPrintln(...)

Definition at line [539](#) of file [debug-printing.h](#).

9.43.1.177 #define emberAfIasZoneClusterFlush()

Definition at line [540](#) of file [debug-printing.h](#).

9.43.1.178 #define emberAfIasZoneClusterDebugExec(x)

Definition at line [541](#) of file [debug-printing.h](#).

9.43.1.179 #define emberAfIasZoneClusterPrintBuffer(buffer, len, withSpace)

Definition at line [542](#) of file [debug-printing.h](#).

9.43.1.180 #define emberAfIasZoneClusterPrintString(buffer)

Definition at line [543](#) of file [debug-printing.h](#).

9.43.1.181 #define emberAfIasAceClusterPrint(...)

Definition at line [556](#) of file [debug-printing.h](#).

9.43.1.182 #define emberAfIasAceClusterPrintln(...)

Definition at line [557](#) of file [debug-printing.h](#).

9.43.1.183 #define emberAfIasAceClusterFlush()

Definition at line [558](#) of file [debug-printing.h](#).

9.43.1.184 #define emberAfIasAceClusterDebugExec(x)

Definition at line [559](#) of file [debug-printing.h](#).

9.43.1.185 #define emberAfIasAceClusterPrintBuffer(buffer, len, withSpace)

Definition at line [560](#) of file [debug-printing.h](#).

9.43.1.186 #define emberAfIasAceClusterPrintString(buffer)

Definition at line [561](#) of file [debug-printing.h](#).

9.43.1.187 #define emberAfIasWdClusterPrint(...)

Definition at line [574](#) of file [debug-printing.h](#).

9.43.1.188 #define emberAfIasWdClusterPrintln(...)

Definition at line [575](#) of file [debug-printing.h](#).

9.43.1.189 #define emberAfIasWdClusterFlush()

Definition at line [576](#) of file [debug-printing.h](#).

9.43.1.190 #define emberAfIasWdClusterDebugExec(x)

Definition at line [577](#) of file [debug-printing.h](#).

9.43.1.191 #define emberAfIasWdClusterPrintBuffer(buffer, len, withSpace)

Definition at line [578](#) of file [debug-printing.h](#).

9.43.1.192 #define emberAfIasWdClusterPrintString(buffer)

Definition at line [579](#) of file [debug-printing.h](#).

9.43.1.193 #define emberAfDoorLockClusterPrint(...)

Definition at line [592](#) of file [debug-printing.h](#).

9.43.1.194 #define emberAfDoorLockClusterPrintln(...)

Definition at line [593](#) of file [debug-printing.h](#).

9.43.1.195 #define emberAfDoorLockClusterFlush()

Definition at line [594](#) of file [debug-printing.h](#).

9.43.1.196 #define emberAfDoorLockClusterDebugExec(x)

Definition at line [595](#) of file [debug-printing.h](#).

9.43.1.197 #define emberAfDoorLockClusterPrintBuffer(buffer, len, withSpace)

Definition at line [596](#) of file [debug-printing.h](#).

9.43.1.198 #define emberAfDoorLockClusterPrintString(buffer)

Definition at line [597](#) of file [debug-printing.h](#).

9.43.1.199 #define emberAfWindowCoveringClusterPrint(...)

Definition at line [610](#) of file [debug-printing.h](#).

9.43.1.200 #define emberAfWindowCoveringClusterPrintln(...)

Definition at line [611](#) of file [debug-printing.h](#).

9.43.1.201 #define emberAfWindowCoveringClusterFlush()

Definition at line [612](#) of file [debug-printing.h](#).

9.43.1.202 #define emberAfWindowCoveringClusterDebugExec(x)

Definition at line [613](#) of file [debug-printing.h](#).

9.43.1.203 #define emberAfWindowCoveringClusterPrintBuffer(buffer, len, withSpace)

Definition at line [614](#) of file [debug-printing.h](#).

9.43.1.204 #define emberAfWindowCoveringClusterPrintString(buffer)

Definition at line [615](#) of file [debug-printing.h](#).

9.43.1.205 #define emberAfPowerProfileClusterPrint(...)

Definition at line [628](#) of file [debug-printing.h](#).

9.43.1.206 #define emberAfPowerProfileClusterPrintln(...)

Definition at line [629](#) of file [debug-printing.h](#).

9.43.1.207 #define emberAfPowerProfileClusterFlush()

Definition at line [630](#) of file [debug-printing.h](#).

9.43.1.208 #define emberAfPowerProfileClusterDebugExec(x)

Definition at line [631](#) of file [debug-printing.h](#).

9.43.1.209 #define emberAfPowerProfileClusterPrintBuffer(buffer, len, withSpace)

Definition at line [632](#) of file [debug-printing.h](#).

9.43.1.210 #define emberAfPowerProfileClusterPrintString(*buffer*)

Definition at line [633](#) of file [debug-printing.h](#).

9.43.1.211 #define emberAfApplianceControlClusterPrint(...)

Definition at line [646](#) of file [debug-printing.h](#).

9.43.1.212 #define emberAfApplianceControlClusterPrintln(...)

Definition at line [647](#) of file [debug-printing.h](#).

9.43.1.213 #define emberAfApplianceControlClusterFlush()

Definition at line [648](#) of file [debug-printing.h](#).

9.43.1.214 #define emberAfApplianceControlClusterDebugExec(*x*)

Definition at line [649](#) of file [debug-printing.h](#).

9.43.1.215 #define emberAfApplianceControlClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [650](#) of file [debug-printing.h](#).

9.43.1.216 #define emberAfApplianceControlClusterPrintString(*buffer*)

Definition at line [651](#) of file [debug-printing.h](#).

9.43.1.217 #define emberAfPollControlClusterPrint(...)

Definition at line [664](#) of file [debug-printing.h](#).

9.43.1.218 #define emberAfPollControlClusterPrintln(...)

Definition at line [665](#) of file [debug-printing.h](#).

9.43.1.219 #define emberAfPollControlClusterFlush()

Definition at line [666](#) of file [debug-printing.h](#).

9.43.1.220 #define emberAfPollControlClusterDebugExec(*x*)

Definition at line [667](#) of file [debug-printing.h](#).

9.43.1.221 #define emberAfPollControlClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 668 of file [debug-printing.h](#).

9.43.1.222 #define emberAfPollControlClusterPrintString(*buffer*)

Definition at line 669 of file [debug-printing.h](#).

9.43.1.223 #define emberAfApplianceIdentificationClusterPrint(...)

Definition at line 682 of file [debug-printing.h](#).

9.43.1.224 #define emberAfApplianceIdentificationClusterPrintln(...)

Definition at line 683 of file [debug-printing.h](#).

9.43.1.225 #define emberAfApplianceIdentificationClusterFlush()

Definition at line 684 of file [debug-printing.h](#).

9.43.1.226 #define emberAfApplianceIdentificationClusterDebugExec(*x*)

Definition at line 685 of file [debug-printing.h](#).

9.43.1.227 #define emberAfApplianceIdentificationClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 686 of file [debug-printing.h](#).

9.43.1.228 #define emberAfApplianceIdentificationClusterPrintString(*buffer*)

Definition at line 687 of file [debug-printing.h](#).

9.43.1.229 #define emberAfMeterIdentificationClusterPrint(...)

Definition at line 700 of file [debug-printing.h](#).

9.43.1.230 #define emberAfMeterIdentificationClusterPrintln(...)

Definition at line 701 of file [debug-printing.h](#).

9.43.1.231 #define emberAfMeterIdentificationClusterFlush()

Definition at line 702 of file [debug-printing.h](#).

9.43.1.232 #define emberAfMeterIdentificationClusterDebugExec(*x*)

Definition at line [703](#) of file [debug-printing.h](#).

9.43.1.233 #define emberAfMeterIdentificationClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [704](#) of file [debug-printing.h](#).

9.43.1.234 #define emberAfMeterIdentificationClusterPrintString(*buffer*)

Definition at line [705](#) of file [debug-printing.h](#).

9.43.1.235 #define emberAfApplianceEventsAndAlertClusterPrint(...)

Definition at line [718](#) of file [debug-printing.h](#).

9.43.1.236 #define emberAfApplianceEventsAndAlertClusterPrintln(...)

Definition at line [719](#) of file [debug-printing.h](#).

9.43.1.237 #define emberAfApplianceEventsAndAlertClusterFlush()

Definition at line [720](#) of file [debug-printing.h](#).

9.43.1.238 #define emberAfApplianceEventsAndAlertClusterDebugExec(*x*)

Definition at line [721](#) of file [debug-printing.h](#).

9.43.1.239 #define emberAfApplianceEventsAndAlertClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [722](#) of file [debug-printing.h](#).

9.43.1.240 #define emberAfApplianceEventsAndAlertClusterPrintString(*buffer*)

Definition at line [723](#) of file [debug-printing.h](#).

9.43.1.241 #define emberAfGenericTunnelClusterPrint(...)

Definition at line [736](#) of file [debug-printing.h](#).

9.43.1.242 #define emberAfGenericTunnelClusterPrintln(...)

Definition at line [737](#) of file [debug-printing.h](#).

9.43.1.243 #define emberAfGenericTunnelClusterFlush()

Definition at line [738](#) of file [debug-printing.h](#).

9.43.1.244 #define emberAfGenericTunnelClusterDebugExec(x)

Definition at line [739](#) of file [debug-printing.h](#).

9.43.1.245 #define emberAfGenericTunnelClusterPrintBuffer(buffer, len, withSpace)

Definition at line [740](#) of file [debug-printing.h](#).

9.43.1.246 #define emberAfGenericTunnelClusterPrintString(buffer)

Definition at line [741](#) of file [debug-printing.h](#).

9.43.1.247 #define emberAfBacnetProtocolTunnelClusterPrint(...)

Definition at line [754](#) of file [debug-printing.h](#).

9.43.1.248 #define emberAfBacnetProtocolTunnelClusterPrintln(...)

Definition at line [755](#) of file [debug-printing.h](#).

9.43.1.249 #define emberAfBacnetProtocolTunnelClusterFlush()

Definition at line [756](#) of file [debug-printing.h](#).

9.43.1.250 #define emberAfBacnetProtocolTunnelClusterDebugExec(x)

Definition at line [757](#) of file [debug-printing.h](#).

9.43.1.251 #define emberAfBacnetProtocolTunnelClusterPrintBuffer(buffer, len, withSpace)

Definition at line [758](#) of file [debug-printing.h](#).

9.43.1.252 #define emberAfBacnetProtocolTunnelClusterPrintString(buffer)

Definition at line [759](#) of file [debug-printing.h](#).

9.43.1.253 #define emberAfOtaBootloadClusterPrint(...)

Definition at line [772](#) of file [debug-printing.h](#).

9.43.1.254 #define emberAfOtaBootloadClusterPrintln(...)

Definition at line [773](#) of file [debug-printing.h](#).

9.43.1.255 #define emberAfOtaBootloadClusterFlush()

Definition at line [774](#) of file [debug-printing.h](#).

9.43.1.256 #define emberAfOtaBootloadClusterDebugExec(x)

Definition at line [775](#) of file [debug-printing.h](#).

9.43.1.257 #define emberAfOtaBootloadClusterPrintBuffer(buffer, len, withSpace)

Definition at line [776](#) of file [debug-printing.h](#).

9.43.1.258 #define emberAfOtaBootloadClusterPrintString(buffer)

Definition at line [777](#) of file [debug-printing.h](#).

9.43.1.259 #define emberAfDemandResponseLoadControlClusterPrint(...)

Definition at line [790](#) of file [debug-printing.h](#).

9.43.1.260 #define emberAfDemandResponseLoadControlClusterPrintln(...)

Definition at line [791](#) of file [debug-printing.h](#).

9.43.1.261 #define emberAfDemandResponseLoadControlClusterFlush()

Definition at line [792](#) of file [debug-printing.h](#).

9.43.1.262 #define emberAfDemandResponseLoadControlClusterDebugExec(x)

Definition at line [793](#) of file [debug-printing.h](#).

9.43.1.263 #define emberAfDemandResponseLoadControlClusterPrintBuffer(buffer, len, withSpace)

Definition at line [794](#) of file [debug-printing.h](#).

9.43.1.264 #define emberAfDemandResponseLoadControlClusterPrintString(buffer)

Definition at line [795](#) of file [debug-printing.h](#).

9.43.1.265 #define emberAfSimpleMeteringClusterPrint(...)

Definition at line [808](#) of file [debug-printing.h](#).

9.43.1.266 #define emberAfSimpleMeteringClusterPrintln(...)

Definition at line [809](#) of file [debug-printing.h](#).

9.43.1.267 #define emberAfSimpleMeteringClusterFlush()

Definition at line [810](#) of file [debug-printing.h](#).

9.43.1.268 #define emberAfSimpleMeteringClusterDebugExec(x)

Definition at line [811](#) of file [debug-printing.h](#).

9.43.1.269 #define emberAfSimpleMeteringClusterPrintBuffer(buffer, len, withSpace)

Definition at line [812](#) of file [debug-printing.h](#).

9.43.1.270 #define emberAfSimpleMeteringClusterPrintString(buffer)

Definition at line [813](#) of file [debug-printing.h](#).

9.43.1.271 #define emberAfPriceClusterPrint(...)

Definition at line [826](#) of file [debug-printing.h](#).

9.43.1.272 #define emberAfPriceClusterPrintln(...)

Definition at line [827](#) of file [debug-printing.h](#).

9.43.1.273 #define emberAfPriceClusterFlush()

Definition at line [828](#) of file [debug-printing.h](#).

9.43.1.274 #define emberAfPriceClusterDebugExec(x)

Definition at line [829](#) of file [debug-printing.h](#).

9.43.1.275 #define emberAfPriceClusterPrintBuffer(buffer, len, withSpace)

Definition at line [830](#) of file [debug-printing.h](#).

9.43.1.276 #define emberAfPriceClusterPrintString(*buffer*)

Definition at line 831 of file [debug-printing.h](#).

9.43.1.277 #define emberAfMessagingClusterPrint(...)

Definition at line 844 of file [debug-printing.h](#).

9.43.1.278 #define emberAfMessagingClusterPrintln(...)

Definition at line 845 of file [debug-printing.h](#).

9.43.1.279 #define emberAfMessagingClusterFlush()

Definition at line 846 of file [debug-printing.h](#).

9.43.1.280 #define emberAfMessagingClusterDebugExec(*x*)

Definition at line 847 of file [debug-printing.h](#).

9.43.1.281 #define emberAfMessagingClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 848 of file [debug-printing.h](#).

9.43.1.282 #define emberAfMessagingClusterPrintString(*buffer*)

Definition at line 849 of file [debug-printing.h](#).

9.43.1.283 #define emberAfTunnelingClusterPrint(...)

Definition at line 862 of file [debug-printing.h](#).

9.43.1.284 #define emberAfTunnelingClusterPrintln(...)

Definition at line 863 of file [debug-printing.h](#).

9.43.1.285 #define emberAfTunnelingClusterFlush()

Definition at line 864 of file [debug-printing.h](#).

9.43.1.286 #define emberAfTunnelingClusterDebugExec(*x*)

Definition at line 865 of file [debug-printing.h](#).

9.43.1.287 #define emberAfTunnelingClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 866 of file [debug-printing.h](#).

9.43.1.288 #define emberAfTunnelingClusterPrintString(*buffer*)

Definition at line 867 of file [debug-printing.h](#).

9.43.1.289 #define emberAfPrepaymentClusterPrint(...)

Definition at line 880 of file [debug-printing.h](#).

9.43.1.290 #define emberAfPrepaymentClusterPrintln(...)

Definition at line 881 of file [debug-printing.h](#).

9.43.1.291 #define emberAfPrepaymentClusterFlush()

Definition at line 882 of file [debug-printing.h](#).

9.43.1.292 #define emberAfPrepaymentClusterDebugExec(*x*)

Definition at line 883 of file [debug-printing.h](#).

9.43.1.293 #define emberAfPrepaymentClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 884 of file [debug-printing.h](#).

9.43.1.294 #define emberAfPrepaymentClusterPrintString(*buffer*)

Definition at line 885 of file [debug-printing.h](#).

9.43.1.295 #define emberAfKeyEstablishmentClusterPrint(...)

Definition at line 898 of file [debug-printing.h](#).

9.43.1.296 #define emberAfKeyEstablishmentClusterPrintln(...)

Definition at line 899 of file [debug-printing.h](#).

9.43.1.297 #define emberAfKeyEstablishmentClusterFlush()

Definition at line 900 of file [debug-printing.h](#).

9.43.1.298 #define emberAfKeyEstablishmentClusterDebugExec(*x*)

Definition at line [901](#) of file [debug-printing.h](#).

9.43.1.299 #define emberAfKeyEstablishmentClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [902](#) of file [debug-printing.h](#).

9.43.1.300 #define emberAfKeyEstablishmentClusterPrintString(*buffer*)

Definition at line [903](#) of file [debug-printing.h](#).

9.43.1.301 #define emberAfZllCommissioningClusterPrint(...)

Definition at line [916](#) of file [debug-printing.h](#).

9.43.1.302 #define emberAfZllCommissioningClusterPrintln(...)

Definition at line [917](#) of file [debug-printing.h](#).

9.43.1.303 #define emberAfZllCommissioningClusterFlush()

Definition at line [918](#) of file [debug-printing.h](#).

9.43.1.304 #define emberAfZllCommissioningClusterDebugExec(*x*)

Definition at line [919](#) of file [debug-printing.h](#).

9.43.1.305 #define emberAfZllCommissioningClusterPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line [920](#) of file [debug-printing.h](#).

9.43.1.306 #define emberAfZllCommissioningClusterPrintString(*buffer*)

Definition at line [921](#) of file [debug-printing.h](#).

9.43.1.307 #define emberAfSampleMfgSpecificClusterPrint(...)

Definition at line [934](#) of file [debug-printing.h](#).

9.43.1.308 #define emberAfSampleMfgSpecificClusterPrintln(...)

Definition at line [935](#) of file [debug-printing.h](#).

9.43.1.309 #define emberAfSampleMfgSpecificClusterFlush()

Definition at line [936](#) of file [debug-printing.h](#).

9.43.1.310 #define emberAfSampleMfgSpecificClusterDebugExec(x)

Definition at line [937](#) of file [debug-printing.h](#).

9.43.1.311 #define emberAfSampleMfgSpecificClusterPrintBuffer(buffer, len, withSpace)

Definition at line [938](#) of file [debug-printing.h](#).

9.43.1.312 #define emberAfSampleMfgSpecificClusterPrintString(buffer)

Definition at line [939](#) of file [debug-printing.h](#).

9.43.1.313 #define emberAfCorePrint(...)

Definition at line [953](#) of file [debug-printing.h](#).

9.43.1.314 #define emberAfCorePrintln(...)

Definition at line [954](#) of file [debug-printing.h](#).

9.43.1.315 #define emberAfCoreFlush()

Definition at line [955](#) of file [debug-printing.h](#).

9.43.1.316 #define emberAfCoreDebugExec(x)

Definition at line [956](#) of file [debug-printing.h](#).

9.43.1.317 #define emberAfCorePrintBuffer(buffer, len, withSpace)

Definition at line [957](#) of file [debug-printing.h](#).

9.43.1.318 #define emberAfCorePrintString(buffer)

Definition at line [958](#) of file [debug-printing.h](#).

9.43.1.319 #define emberAfDebugPrint(...)

Definition at line [972](#) of file [debug-printing.h](#).

9.43.1.320 #define emberAfDebugPrintln(...)

Definition at line [973](#) of file [debug-printing.h](#).

9.43.1.321 #define emberAfDebugFlush()

Definition at line [974](#) of file [debug-printing.h](#).

9.43.1.322 #define emberAfDebugDebugExec(x)

Definition at line [975](#) of file [debug-printing.h](#).

9.43.1.323 #define emberAfDebugPrintBuffer(buffer, len, withSpace)

Definition at line [976](#) of file [debug-printing.h](#).

9.43.1.324 #define emberAfDebugPrintString(buffer)

Definition at line [977](#) of file [debug-printing.h](#).

9.43.1.325 #define emberAfAppPrint(...)

Definition at line [991](#) of file [debug-printing.h](#).

9.43.1.326 #define emberAfAppPrintln(...)

Definition at line [992](#) of file [debug-printing.h](#).

9.43.1.327 #define emberAfAppFlush()

Definition at line [993](#) of file [debug-printing.h](#).

9.43.1.328 #define emberAfAppDebugExec(x)

Definition at line [994](#) of file [debug-printing.h](#).

9.43.1.329 #define emberAfAppPrintBuffer(buffer, len, withSpace)

Definition at line [995](#) of file [debug-printing.h](#).

9.43.1.330 #define emberAfAppPrintString(buffer)

Definition at line [996](#) of file [debug-printing.h](#).

9.43.1.331 #define emberAfSecurityPrint(...)

Definition at line 1010 of file [debug-printing.h](#).

9.43.1.332 #define emberAfSecurityPrintln(...)

Definition at line 1011 of file [debug-printing.h](#).

9.43.1.333 #define emberAfSecurityFlush()

Definition at line 1012 of file [debug-printing.h](#).

9.43.1.334 #define emberAfSecurityDebugExec(x)

Definition at line 1013 of file [debug-printing.h](#).

9.43.1.335 #define emberAfSecurityPrintBuffer(buffer, len, withSpace)

Definition at line 1014 of file [debug-printing.h](#).

9.43.1.336 #define emberAfSecurityPrintString(buffer)

Definition at line 1015 of file [debug-printing.h](#).

9.43.1.337 #define emberAfAttributesPrint(...)

Definition at line 1029 of file [debug-printing.h](#).

9.43.1.338 #define emberAfAttributesPrintln(...)

Definition at line 1030 of file [debug-printing.h](#).

9.43.1.339 #define emberAfAttributesFlush()

Definition at line 1031 of file [debug-printing.h](#).

9.43.1.340 #define emberAfAttributesDebugExec(x)

Definition at line 1032 of file [debug-printing.h](#).

9.43.1.341 #define emberAfAttributesPrintBuffer(buffer, len, withSpace)

Definition at line 1033 of file [debug-printing.h](#).

9.43.1.342 #define emberAfAttributesPrintString(*buffer*)

Definition at line 1034 of file [debug-printing.h](#).

9.43.1.343 #define emberAfReportingPrint(...)

Definition at line 1048 of file [debug-printing.h](#).

9.43.1.344 #define emberAfReportingPrintln(...)

Definition at line 1049 of file [debug-printing.h](#).

9.43.1.345 #define emberAfReportingFlush()

Definition at line 1050 of file [debug-printing.h](#).

9.43.1.346 #define emberAfReportingDebugExec(*x*)

Definition at line 1051 of file [debug-printing.h](#).

9.43.1.347 #define emberAfReportingPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 1052 of file [debug-printing.h](#).

9.43.1.348 #define emberAfReportingPrintString(*buffer*)

Definition at line 1053 of file [debug-printing.h](#).

9.43.1.349 #define emberAfServiceDiscoveryPrint(...)

Definition at line 1067 of file [debug-printing.h](#).

9.43.1.350 #define emberAfServiceDiscoveryPrintln(...)

Definition at line 1068 of file [debug-printing.h](#).

9.43.1.351 #define emberAfServiceDiscoveryFlush()

Definition at line 1069 of file [debug-printing.h](#).

9.43.1.352 #define emberAfServiceDiscoveryDebugExec(*x*)

Definition at line 1070 of file [debug-printing.h](#).

9.43.1.353 #define emberAfServiceDiscoveryPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 1071 of file [debug-printing.h](#).

9.43.1.354 #define emberAfServiceDiscoveryPrintString(*buffer*)

Definition at line 1072 of file [debug-printing.h](#).

9.43.1.355 #define emberAfRegistrationPrint(...)

Definition at line 1086 of file [debug-printing.h](#).

9.43.1.356 #define emberAfRegistrationPrintln(...)

Definition at line 1087 of file [debug-printing.h](#).

9.43.1.357 #define emberAfRegistrationFlush()

Definition at line 1088 of file [debug-printing.h](#).

9.43.1.358 #define emberAfRegistrationDebugExec(*x*)

Definition at line 1089 of file [debug-printing.h](#).

9.43.1.359 #define emberAfRegistrationPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 1090 of file [debug-printing.h](#).

9.43.1.360 #define emberAfRegistrationPrintString(*buffer*)

Definition at line 1091 of file [debug-printing.h](#).

9.43.1.361 #define emberAfZdoPrint(...)

Definition at line 1105 of file [debug-printing.h](#).

9.43.1.362 #define emberAfZdoPrintln(...)

Definition at line 1106 of file [debug-printing.h](#).

9.43.1.363 #define emberAfZdoFlush()

Definition at line 1107 of file [debug-printing.h](#).

9.43.1.364 #define emberAfZdoDebugExec(*x*)

Definition at line 1108 of file [debug-printing.h](#).

9.43.1.365 #define emberAfZdoPrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 1109 of file [debug-printing.h](#).

9.43.1.366 #define emberAfZdoPrintString(*buffer*)

Definition at line 1110 of file [debug-printing.h](#).

9.43.1.367 #define emberAfCustom1Print(...)

Definition at line 1124 of file [debug-printing.h](#).

9.43.1.368 #define emberAfCustom1Println(...)

Definition at line 1125 of file [debug-printing.h](#).

9.43.1.369 #define emberAfCustom1Flush()

Definition at line 1126 of file [debug-printing.h](#).

9.43.1.370 #define emberAfCustom1DebugExec(*x*)

Definition at line 1127 of file [debug-printing.h](#).

9.43.1.371 #define emberAfCustom1PrintBuffer(*buffer*, *len*, *withSpace*)

Definition at line 1128 of file [debug-printing.h](#).

9.43.1.372 #define emberAfCustom1PrintString(*buffer*)

Definition at line 1129 of file [debug-printing.h](#).

9.43.1.373 #define emberAfCustom2Print(...)

Definition at line 1143 of file [debug-printing.h](#).

9.43.1.374 #define emberAfCustom2Println(...)

Definition at line 1144 of file [debug-printing.h](#).

9.43.1.375 #define emberAfCustom2Flush()

Definition at line 1145 of file [debug-printing.h](#).

9.43.1.376 #define emberAfCustom2DebugExec(x)

Definition at line 1146 of file [debug-printing.h](#).

9.43.1.377 #define emberAfCustom2PrintBuffer(buffer, len, withSpace)

Definition at line 1147 of file [debug-printing.h](#).

9.43.1.378 #define emberAfCustom2PrintString(buffer)

Definition at line 1148 of file [debug-printing.h](#).

9.43.1.379 #define emberAfCustom3Print(...)

Definition at line 1162 of file [debug-printing.h](#).

9.43.1.380 #define emberAfCustom3Println(...)

Definition at line 1163 of file [debug-printing.h](#).

9.43.1.381 #define emberAfCustom3Flush()

Definition at line 1164 of file [debug-printing.h](#).

9.43.1.382 #define emberAfCustom3DebugExec(x)

Definition at line 1165 of file [debug-printing.h](#).

9.43.1.383 #define emberAfCustom3PrintBuffer(buffer, len, withSpace)

Definition at line 1166 of file [debug-printing.h](#).

9.43.1.384 #define emberAfCustom3PrintString(buffer)

Definition at line 1167 of file [debug-printing.h](#).

9.44 debug-printing.h

```
00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
```

```

00006
00007 // Printing macros for cluster: Basic
00008 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_BASIC_CLUSTER)
00009 #define emberAfBasicClusterPrint(...)
00010     emberAfPrint(EMBER_AF_PRINT_BASIC_CLUSTER, __VA_ARGS__)
00011 #define emberAfBasicClusterPrintln(...)
00012     emberAfPrintln(EMBER_AF_PRINT_BASIC_CLUSTER, __VA_ARGS__)
00013 #define emberAfBasicClusterFlush() emberAfFlush(EMBER_AF_PRINT_BASIC_CLUSTER)
00014 #define emberAfBasicClusterDebugExec(x) if (
00015     emberAfPrintEnabled(EMBER_AF_PRINT_BASIC_CLUSTER) ) { x; }
00016 #define emberAfBasicClusterPrintBuffer(buffer, len, withSpace)
00017     emberAfPrintBuffer(EMBER_AF_PRINT_BASIC_CLUSTER, (buffer), (len), (withSpace))
00018 #define emberAfBasicClusterPrintString(buffer)
00019     emberAfPrintString(EMBER_AF_PRINT_BASIC_CLUSTER, (buffer))
00020 #else
00021 #define emberAfBasicClusterPrint(...)

00022 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00023     defined(EMBER_AF_PRINT_BASIC_CLUSTER)

00024
00025 // Printing macros for cluster: Power Configuration
00026 #if defined(EMBER_AF_PRINT_ENABLE) &&
00027     defined(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER)
00028 #define emberAfPowerConfigClusterPrint(...)
00029     emberAfPrint(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER, __VA_ARGS__)
00030 #define emberAfPowerConfigClusterPrintln(...)
00031     emberAfPrintln(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER, __VA_ARGS__)
00032 #define emberAfPowerConfigClusterFlush()
00033     emberAfFlush(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER)
00034 #define emberAfPowerConfigClusterDebugExec(x) if (
00035     emberAfPrintEnabled(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER) ) { x; }
00036 #define emberAfPowerConfigClusterPrintBuffer(buffer, len, withSpace)
00037     emberAfPrintBuffer(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER, (buffer), (len), (withSpace))
00038 #define emberAfPowerConfigClusterPrintString(buffer)
00039     emberAfPrintString(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER, (buffer))
00040 #else
00041 #define emberAfPowerConfigClusterPrint(...)

00042 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00043     defined(EMBER_AF_PRINT_POWER_CONFIG_CLUSTER)

00044 // Printing macros for cluster: Device Temperature Configuration
00045 #if defined(EMBER_AF_PRINT_ENABLE) &&
00046     defined(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER)
00047 #define emberAfDeviceTempClusterPrint(...)
00048     emberAfPrint(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER, __VA_ARGS__)
00049 #define emberAfDeviceTempClusterPrintln(...)
00050     emberAfPrintln(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER, __VA_ARGS__)
00051 #define emberAfDeviceTempClusterFlush()
00052     emberAfFlush(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER)
00053 #define emberAfDeviceTempClusterDebugExec(x) if (
00054     emberAfPrintEnabled(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER) ) { x; }
00055 #define emberAfDeviceTempClusterPrintBuffer(buffer, len, withSpace)
00056     emberAfPrintBuffer(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER, (buffer), (len), (withSpace))
00057 #define emberAfDeviceTempClusterPrintString(buffer)
00058     emberAfPrintString(EMBER_AF_PRINT_DEVICE_TEMP_CLUSTER, (buffer))
00059 #else
00060 #define emberAfDeviceTempClusterPrint(...)

00061 // Printing macros for cluster: Identify
00062 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_IDENTIFY_CLUSTER)
00063 #define emberAfIdentifyClusterPrint(...)

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```

        emberAfPrint(EMBER_AF_PRINT_IDENTIFY_CLUSTER, __VA_ARGS__)
00064 #define emberAfIdentifyClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_IDENTIFY_CLUSTER, __VA_ARGS__)
00065 #define emberAfIdentifyClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_IDENTIFY_CLUSTER)
00066 #define emberAfIdentifyClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_IDENTIFY_CLUSTER) ) { x; }
00067 #define emberAfIdentifyClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_IDENTIFY_CLUSTER, (buffer), (len), (withSpace))
00068 #define emberAfIdentifyClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_IDENTIFY_CLUSTER, (buffer))
00069 #else
00070 #define emberAfIdentifyClusterPrint(...)
00071 #define emberAfIdentifyClusterPrintln(...)
00072 #define emberAfIdentifyClusterFlush()
00073 #define emberAfIdentifyClusterDebugExec(x)
00074 #define emberAfIdentifyClusterPrintBuffer(buffer, len, withSpace)
00075 #define emberAfIdentifyClusterPrintString(buffer)
00076 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_IDENTIFY_CLUSTER)
00077
00078
00079 // Printing macros for cluster: Groups
00080 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_GROUPS_CLUSTER)
00081 #define emberAfGroupsClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_GROUPS_CLUSTER, __VA_ARGS__)
00082 #define emberAfGroupsClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_GROUPS_CLUSTER, __VA_ARGS__)
00083 #define emberAfGroupsClusterFlush() emberAfFlush(EMBER_AF_PRINT_GROUPS_CLUSTER)
00084 #define emberAfGroupsClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_GROUPS_CLUSTER) ) { x; }
00085 #define emberAfGroupsClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_GROUPS_CLUSTER, (buffer), (len), (withSpace))
00086 #define emberAfGroupsClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_GROUPS_CLUSTER, (buffer))
00087 #else
00088 #define emberAfGroupsClusterPrint(...)
00089 #define emberAfGroupsClusterPrintln(...)
00090 #define emberAfGroupsClusterFlush()
00091 #define emberAfGroupsClusterDebugExec(x)
00092 #define emberAfGroupsClusterPrintBuffer(buffer, len, withSpace)
00093 #define emberAfGroupsClusterPrintString(buffer)
00094 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_GROUPS_CLUSTER)
00095
00096
00097 // Printing macros for cluster: Scenes
00098 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_SCENES_CLUSTER)
00099 #define emberAfScenesClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_SCENES_CLUSTER, __VA_ARGS__)
00100 #define emberAfScenesClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_SCENES_CLUSTER, __VA_ARGS__)
00101 #define emberAfScenesClusterFlush() emberAfFlush(EMBER_AF_PRINT_SCENES_CLUSTER)
00102 #define emberAfScenesClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_SCENES_CLUSTER) ) { x; }
00103 #define emberAfScenesClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_SCENES_CLUSTER, (buffer), (len), (withSpace))
00104 #define emberAfScenesClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_SCENES_CLUSTER, (buffer))
00105 #else
00106 #define emberAfScenesClusterPrint(...)
00107 #define emberAfScenesClusterPrintln(...)
00108 #define emberAfScenesClusterFlush()
00109 #define emberAfScenesClusterDebugExec(x)
00110 #define emberAfScenesClusterPrintBuffer(buffer, len, withSpace)
00111 #define emberAfScenesClusterPrintString(buffer)
00112 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_SCENES_CLUSTER)
00113
00114
00115 // Printing macros for cluster: On/off
00116 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_ON_OFF_CLUSTER)
00117 #define emberAfOnOffClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_ON_OFF_CLUSTER, __VA_ARGS__)
00118 #define emberAfOnOffClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_ON_OFF_CLUSTER, __VA_ARGS__)
00119 #define emberAfOnOffClusterFlush() emberAfFlush(EMBER_AF_PRINT_ON_OFF_CLUSTER)
00120 #define emberAfOnOffClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_ON_OFF_CLUSTER) ) { x; }
00121 #define emberAfOnOffClusterPrintBuffer(buffer, len, withSpace)

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    emberAfPrintBuffer(EMBER_AF_PRINT_ON_OFF_CLUSTER, (buffer), (len), (withSpace))
00122 #define emberAfOnOffClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_ON_OFF_CLUSTER, (buffer))
00123 #else
00124 #define emberAfOnOffClusterPrint(...)
00125 #define emberAfOnOffClusterPrintln(...)
00126 #define emberAfOnOffClusterFlush()
00127 #define emberAfOnOffClusterDebugExec(x)
00128 #define emberAfOnOffClusterPrintBuffer(buffer, len, withSpace)
00129 #define emberAfOnOffClusterPrintString(buffer)
00130 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_ON_OFF_CLUSTER)
00131
00132
00133 // Printing macros for cluster: On/off Switch Configuration
00134 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER)
00135 #define emberAfOnOffSwitchConfigClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER, __VA_ARGS__)
00136 #define emberAfOnOffSwitchConfigClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER, __VA_ARGS__)
00137 #define emberAfOnOffSwitchConfigClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER)
00138 #define emberAfOnOffSwitchConfigClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER) ) { x; }
00139 #define emberAfOnOffSwitchConfigClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER, (buffer), (len),
    (withSpace))
00140 #define emberAfOnOffSwitchConfigClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER, (buffer))
00141 #else
00142 #define emberAfOnOffSwitchConfigClusterPrint(...)
00143 #define emberAfOnOffSwitchConfigClusterPrintln(...)
00144 #define emberAfOnOffSwitchConfigClusterFlush()
00145 #define emberAfOnOffSwitchConfigClusterDebugExec(x)
00146 #define emberAfOnOffSwitchConfigClusterPrintBuffer(buffer, len, withSpace)
00147 #define emberAfOnOffSwitchConfigClusterPrintString(buffer)
00148 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_ON_OFF_SWITCH_CONFIG_CLUSTER)
00149
00150
00151 // Printing macros for cluster: Level Control
00152 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER)
00153 #define emberAfLevelControlClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER, __VA_ARGS__)
00154 #define emberAfLevelControlClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER, __VA_ARGS__)
00155 #define emberAfLevelControlClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER)
00156 #define emberAfLevelControlClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER) ) { x; }
00157 #define emberAfLevelControlClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER, (buffer), (len), (withSpace))
00158 #define emberAfLevelControlClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER, (buffer))
00159 #else
00160 #define emberAfLevelControlClusterPrint(...)
00161 #define emberAfLevelControlClusterPrintln(...)
00162 #define emberAfLevelControlClusterFlush()
00163 #define emberAfLevelControlClusterDebugExec(x)
00164 #define emberAfLevelControlClusterPrintBuffer(buffer, len, withSpace)
00165 #define emberAfLevelControlClusterPrintString(buffer)
00166 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_LEVEL_CONTROL_CLUSTER)
00167
00168
00169 // Printing macros for cluster: Alarms
00170 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_ALARM_CLUSTER)
00171 #define emberAfAlarmClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_ALARM_CLUSTER, __VA_ARGS__)
00172 #define emberAfAlarmClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_ALARM_CLUSTER, __VA_ARGS__)
00173 #define emberAfAlarmClusterFlush() emberAfFlush(EMBER_AF_PRINT_ALARM_CLUSTER)
00174 #define emberAfAlarmClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_ALARM_CLUSTER) ) { x; }
00175 #define emberAfAlarmClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_ALARM_CLUSTER, (buffer), (len), (withSpace))
00176 #define emberAfAlarmClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_ALARM_CLUSTER, (buffer))

```

```

00177 #else
00178 #define emberAfAlarmClusterPrint(...)
00179 #define emberAfAlarmClusterPrintln(...)
00180 #define emberAfAlarmClusterFlush()
00181 #define emberAfAlarmClusterDebugExec(x)
00182 #define emberAfAlarmClusterPrintBuffer(buffer, len, withSpace)
00183 #define emberAfAlarmClusterPrintString(buffer)
00184 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_ALARM_CLUSTER)
00185
00186
00187 // Printing macros for cluster: Time
00188 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_TIME_CLUSTER)
00189 #define emberAfTimeClusterPrint(...) emberAfPrint(EMBER_AF_PRINT_TIME_CLUSTER,
        __VA_ARGS__)
00190 #define emberAfTimeClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_TIME_CLUSTER, __VA_ARGS__)
00191 #define emberAfTimeClusterFlush() emberAfFlush(EMBER_AF_PRINT_TIME_CLUSTER)
00192 #define emberAfTimeClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_TIME_CLUSTER) ) { x; }
00193 #define emberAfTimeClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_TIME_CLUSTER, (buffer), (len), (withSpace))
00194 #define emberAfTimeClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_TIME_CLUSTER, (buffer))
00195 #else
00196 #define emberAfTimeClusterPrint(...)
00197 #define emberAfTimeClusterPrintln(...)
00198 #define emberAfTimeClusterFlush()
00199 #define emberAfTimeClusterDebugExec(x)
00200 #define emberAfTimeClusterPrintBuffer(buffer, len, withSpace)
00201 #define emberAfTimeClusterPrintString(buffer)
00202 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_TIME_CLUSTER)
00203
00204
00205 // Printing macros for cluster: RSSI Location
00206 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER)
00207 #define emberAfRssiLocationClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER, __VA_ARGS__)
00208 #define emberAfRssiLocationClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER, __VA_ARGS__)
00209 #define emberAfRssiLocationClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER)
00210 #define emberAfRssiLocationClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER) ) { x; }
00211 #define emberAfRssiLocationClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER, (buffer), (len), (withSpace))
00212 #define emberAfRssiLocationClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER, (buffer))
00213 #else
00214 #define emberAfRssiLocationClusterPrint(...)
00215 #define emberAfRssiLocationClusterPrintln(...)
00216 #define emberAfRssiLocationClusterFlush()
00217 #define emberAfRssiLocationClusterDebugExec(x)
00218 #define emberAfRssiLocationClusterPrintBuffer(buffer, len, withSpace)
00219 #define emberAfRssiLocationClusterPrintString(buffer)
00220 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_RSSI_LOCATION_CLUSTER)
00221
00222
00223 // Printing macros for cluster: Binary Input (Basic)
00224 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER)
00225 #define emberAfBinaryInputBasicClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER, __VA_ARGS__)
00226 #define emberAfBinaryInputBasicClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER, __VA_ARGS__)
00227 #define emberAfBinaryInputBasicClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER)
00228 #define emberAfBinaryInputBasicClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER) ) { x; }
00229 #define emberAfBinaryInputBasicClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER, (buffer), (len),
        (withSpace))
00230 #define emberAfBinaryInputBasicClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER, (buffer))
00231 #else
00232 #define emberAfBinaryInputBasicClusterPrint(...)
00233 #define emberAfBinaryInputBasicClusterPrintln(...)
00234 #define emberAfBinaryInputBasicClusterFlush()

```

```

00235 #define emberAfBinaryInputBasicClusterDebugExec(x)
00236 #define emberAfBinaryInputBasicClusterPrintBuffer(buffer, len, withSpace)
00237 #define emberAfBinaryInputBasicClusterPrintString(buffer)
00238 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_BINARY_INPUT_BASIC_CLUSTER)
00239
00240
00241 // Printing macros for cluster: Commissioning
00242 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_COMMISSIONING_CLUSTER)
00243 #define emberAfCommissioningClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_COMMISSIONING_CLUSTER, __VA_ARGS__)
00244 #define emberAfCommissioningClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_COMMISSIONING_CLUSTER, __VA_ARGS__)
00245 #define emberAfCommissioningClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_COMMISSIONING_CLUSTER)
00246 #define emberAfCommissioningClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_COMMISSIONING_CLUSTER) ) { x; }
00247 #define emberAfCommissioningClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_COMMISSIONING_CLUSTER, (buffer), (len), (withSpace))
00248 #define emberAfCommissioningClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_COMMISSIONING_CLUSTER, (buffer))
00249 #else
00250 #define emberAfCommissioningClusterPrint(...)
00251 #define emberAfCommissioningClusterPrintln(...)
00252 #define emberAfCommissioningClusterFlush()
00253 #define emberAfCommissioningClusterDebugExec(x)
00254 #define emberAfCommissioningClusterPrintBuffer(buffer, len, withSpace)
00255 #define emberAfCommissioningClusterPrintString(buffer)
00256 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_COMMISSIONING_CLUSTER)
00257
00258
00259 // Printing macros for cluster: Shade Configuration
00260 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER)
00261 #define emberAfShadeConfigClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER, __VA_ARGS__)
00262 #define emberAfShadeConfigClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER, __VA_ARGS__)
00263 #define emberAfShadeConfigClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER)
00264 #define emberAfShadeConfigClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER) ) { x; }
00265 #define emberAfShadeConfigClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER, (buffer), (len), (withSpace))
00266 #define emberAfShadeConfigClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER, (buffer))
00267 #else
00268 #define emberAfShadeConfigClusterPrint(...)
00269 #define emberAfShadeConfigClusterPrintln(...)
00270 #define emberAfShadeConfigClusterFlush()
00271 #define emberAfShadeConfigClusterDebugExec(x)
00272 #define emberAfShadeConfigClusterPrintBuffer(buffer, len, withSpace)
00273 #define emberAfShadeConfigClusterPrintString(buffer)
00274 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_SHADE_CONFIG_CLUSTER)
00275
00276
00277 // Printing macros for cluster: Pump Configuration and Control
00278 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER)
00279 #define emberAfPumpConfigControlClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER, __VA_ARGS__)
00280 #define emberAfPumpConfigControlClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER, __VA_ARGS__)
00281 #define emberAfPumpConfigControlClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER)
00282 #define emberAfPumpConfigControlClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER) ) { x; }
00283 #define emberAfPumpConfigControlClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER, (buffer), (len),
        (withSpace))
00284 #define emberAfPumpConfigControlClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER, (buffer))
00285 #else
00286 #define emberAfPumpConfigControlClusterPrint(...)
00287 #define emberAfPumpConfigControlClusterPrintln(...)
00288 #define emberAfPumpConfigControlClusterFlush()
00289 #define emberAfPumpConfigControlClusterDebugExec(x)

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```

00290 #define emberAfPumpConfigControlClusterPrintBuffer(buffer, len, withSpace)
00291 #define emberAfPumpConfigControlClusterPrintString(buffer)
00292 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_PUMP_CONFIG_CONTROL_CLUSTER)
00293
00294
00295 // Printing macros for cluster: Thermostat
00296 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_THERMOSTAT_CLUSTER)
00297 #define emberAfThermostatClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_THERMOSTAT_CLUSTER, __VA_ARGS__)
00298 #define emberAfThermostatClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_THERMOSTAT_CLUSTER, __VA_ARGS__)
00299 #define emberAfThermostatClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_THERMOSTAT_CLUSTER)
00300 #define emberAfThermostatClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_THERMOSTAT_CLUSTER) ) { x; }
00301 #define emberAfThermostatClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_THERMOSTAT_CLUSTER, (buffer), (len), (withSpace))
00302 #define emberAfThermostatClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_THERMOSTAT_CLUSTER, (buffer))
00303 #else
00304 #define emberAfThermostatClusterPrint(...)
00305 #define emberAfThermostatClusterPrintln(...)
00306 #define emberAfThermostatClusterFlush()
00307 #define emberAfThermostatClusterDebugExec(x)
00308 #define emberAfThermostatClusterPrintBuffer(buffer, len, withSpace)
00309 #define emberAfThermostatClusterPrintString(buffer)
00310 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_THERMOSTAT_CLUSTER)
00311
00312
00313 // Printing macros for cluster: Fan Control
00314 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER)
00315 #define emberAffFanControlClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER, __VA_ARGS__)
00316 #define emberAffFanControlClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER, __VA_ARGS__)
00317 #define emberAffFanControlClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER)
00318 #define emberAffFanControlClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER) ) { x; }
00319 #define emberAffFanControlClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER, (buffer), (len), (withSpace))
00320 #define emberAffFanControlClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER, (buffer))
00321 #else
00322 #define emberAffFanControlClusterPrint(...)
00323 #define emberAffFanControlClusterPrintln(...)
00324 #define emberAffFanControlClusterFlush()
00325 #define emberAffFanControlClusterDebugExec(x)
00326 #define emberAffFanControlClusterPrintBuffer(buffer, len, withSpace)
00327 #define emberAffFanControlClusterPrintString(buffer)
00328 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_FAN_CONTROL_CLUSTER)
00329
00330
00331 // Printing macros for cluster: Dehumidification Control
00332 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER)
00333 #define emberAfDehumidControlClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER, __VA_ARGS__)
00334 #define emberAfDehumidControlClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER, __VA_ARGS__)
00335 #define emberAfDehumidControlClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER)
00336 #define emberAfDehumidControlClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER) ) { x; }
00337 #define emberAfDehumidControlClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER, (buffer), (len),
        (withSpace))
00338 #define emberAfDehumidControlClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER, (buffer))
00339 #else
00340 #define emberAfDehumidControlClusterPrint(...)
00341 #define emberAfDehumidControlClusterPrintln(...)
00342 #define emberAfDehumidControlClusterFlush()
00343 #define emberAfDehumidControlClusterDebugExec(x)
00344 #define emberAfDehumidControlClusterPrintBuffer(buffer, len, withSpace)

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00345 #define emberAfDehumidControlClusterPrintString(buffer)
00346 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00347     defined(EMBER_AF_PRINT_DEHUMID_CONTROL_CLUSTER)
00348
00349 // Printing macros for cluster: Thermostat User Interface Configuration
00350 #if defined(EMBER_AF_PRINT_ENABLE) &&
00351     defined(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER)
00352 #define emberAfThermostatUiConfigClusterPrint(...)
00353     emberAfPrint(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER, __VA_ARGS__)
00354 #define emberAfThermostatUiConfigClusterPrintln(...)
00355 #define emberAfThermostatUiConfigClusterFlush()
00356     emberAfFlush(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER)
00357 #define emberAfThermostatUiConfigClusterDebugExec(x) if (
00358     emberAfPrintEnabled(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER) ) { x; }
00359 #define emberAfThermostatUiConfigClusterPrintBuffer(buffer, len, withSpace)
00360     emberAfPrintBuffer(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER, (buffer), (len),
00361     (withSpace))
00362 #define emberAfThermostatUiConfigClusterPrintString(buffer)
00363     emberAfPrintString(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER, (buffer))
00364 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00365     defined(EMBER_AF_PRINT_THERMOSTAT_UI_CONFIG_CLUSTER)
00366
00367 // Printing macros for cluster: Color Control
00368 #if defined(EMBER_AF_PRINT_ENABLE) &&
00369     defined(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER)
00370 #define emberAfColorControlClusterPrint(...)
00371     emberAfPrint(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER, __VA_ARGS__)
00372 #define emberAfColorControlClusterPrintln(...)
00373     emberAfPrintln(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER, __VA_ARGS__)
00374 #define emberAfColorControlClusterFlush()
00375     emberAfFlush(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER)
00376 #define emberAfColorControlClusterDebugExec(x) if (
00377     emberAfPrintEnabled(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER) ) { x; }
00378 #define emberAfColorControlClusterPrintBuffer(buffer, len, withSpace)
00379     emberAfPrintBuffer(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER, (buffer), (len),
00380     (withSpace))
00381 #define emberAfColorControlClusterPrintString(buffer)
00382     emberAfPrintString(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER, (buffer))
00383 #else
00384 #define emberAfColorControlClusterPrint(...)
00385 #define emberAfColorControlClusterPrintln(...)
00386 #define emberAfColorControlClusterFlush()
00387 #define emberAfColorControlClusterDebugExec(x)
00388 #define emberAfColorControlClusterPrintBuffer(buffer, len, withSpace)
00389 #define emberAfColorControlClusterPrintString(buffer)
00390 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00391     defined(EMBER_AF_PRINT_COLOR_CONTROL_CLUSTER)
00392
00393 // Printing macros for cluster: Ballast Configuration
00394 #if defined(EMBER_AF_PRINT_ENABLE) &&
00395     defined(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER)
00396 #define emberAfBallastConfigurationClusterPrint(...)
00397     emberAfPrint(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER, __VA_ARGS__)
00398 #define emberAfBallastConfigurationClusterPrintln(...)
00399 #define emberAfBallastConfigurationClusterFlush()
00400     emberAfFlush(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER)
00401 #define emberAfBallastConfigurationClusterDebugExec(x) if (
00402     emberAfPrintEnabled(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER) ) { x; }
00403 #define emberAfBallastConfigurationClusterPrintBuffer(buffer, len, withSpace)
00404     emberAfPrintBuffer(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER, (buffer), (len),
00405     (withSpace))
00406 #define emberAfBallastConfigurationClusterPrintString(buffer)
00407     emberAfPrintString(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER, (buffer))
00408 #else
00409 #define emberAfBallastConfigurationClusterPrint(...)
00410 #define emberAfBallastConfigurationClusterPrintln(...)
00411 #define emberAfBallastConfigurationClusterFlush()
00412 #define emberAfBallastConfigurationClusterDebugExec(x)
00413 #define emberAfBallastConfigurationClusterPrintBuffer(buffer, len, withSpace)

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00399 #define emberAfBallastConfigurationClusterPrintString(buffer)
00400 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00401     defined(EMBER_AF_PRINT_BALLAST_CONFIGURATION_CLUSTER)
00402
00403 // Printing macros for cluster: Illuminance Measurement
00404 #if defined(EMBER_AF_PRINT_ENABLE) &&
00405     defined(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER)
00406 #define emberAfIllumMeasurementClusterPrint(...)
00407     emberAfPrint(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER, __VA_ARGS__)
00408 #define emberAfIllumMeasurementClusterPrintln(...)
00409     emberAfPrintln(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER, __VA_ARGS__)
00410 #define emberAfIllumMeasurementClusterFlush()
00411     emberAfFlush(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER)
00412 #define emberAfIllumMeasurementClusterDebugExec(x) if (
00413     emberAfPrintEnabled(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER) ) { x; }
00414 #define emberAfIllumMeasurementClusterPrintBuffer(buffer, len, withSpace)
00415     emberAfPrintBuffer(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER, (buffer), (len),
00416     (withSpace))
00417 #define emberAfIllumMeasurementClusterPrintString(buffer)
00418     emberAfPrintString(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER, (buffer))
00419 #else
00420 #define emberAfIllumMeasurementClusterPrint(...)
00421 #define emberAfIllumMeasurementClusterPrintln(...)
00422 #define emberAfIllumMeasurementClusterFlush()
00423 #define emberAfIllumMeasurementClusterDebugExec(x)
00424 #define emberAfIllumMeasurementClusterPrintBuffer(buffer, len, withSpace)
00425 #define emberAfIllumMeasurementClusterPrintString(buffer)
00426 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00427     defined(EMBER_AF_PRINT_ILLUM_MEASUREMENT_CLUSTER)
00428
00429 // Printing macros for cluster: Illuminance Level Sensing
00430 #if defined(EMBER_AF_PRINT_ENABLE) &&
00431     defined(EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER)
00432 #define emberAfIllumLevelSensingClusterPrint(...)
00433     emberAfPrint(EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER, __VA_ARGS__)
00434 #define emberAfIllumLevelSensingClusterPrintln(...)
00435     emberAfPrintln(EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER, __VA_ARGS__)
00436 #define emberAfIllumLevelSensingClusterFlush()
00437     emberAfFlush(EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER)
00438 #define emberAfIllumLevelSensingClusterDebugExec(x) if (
00439     emberAfPrintEnabled(EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER) ) { x; }
00440 #define emberAfIllumLevelSensingClusterPrintBuffer(buffer, len, withSpace)
00441 #define emberAfIllumLevelSensingClusterPrintString(buffer)
00442 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00443     defined(EMBER_AF_PRINT_ILLUM_LEVEL_SENSING_CLUSTER)
00444
00445 // Printing macros for cluster: Temperature Measurement
00446 #if defined(EMBER_AF_PRINT_ENABLE) &&
00447     defined(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER)
00448 #define emberAfTempMeasurementClusterPrint(...)
00449     emberAfPrint(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER, __VA_ARGS__)
00450 #define emberAfTempMeasurementClusterPrintln(...)
00451     emberAfPrintln(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER, __VA_ARGS__)
00452 #define emberAfTempMeasurementClusterFlush()
00453     emberAfFlush(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER)
00454 #define emberAfTempMeasurementClusterDebugExec(x) if (
00455     emberAfPrintEnabled(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER) ) { x; }
00456 #define emberAfTempMeasurementClusterPrintBuffer(buffer, len, withSpace)
00457     emberAfPrintBuffer(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER, (buffer), (len),
00458     (withSpace))
00459 #define emberAfTempMeasurementClusterPrintString(buffer)
00460     emberAfPrintString(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER, (buffer))
00461 #else
00462 #define emberAfTempMeasurementClusterPrint(...)
00463 #define emberAfTempMeasurementClusterPrintln(...)
00464 #define emberAfTempMeasurementClusterFlush()
00465 #define emberAfTempMeasurementClusterDebugExec(x)

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00452 #define emberAfTempMeasurementClusterPrintBuffer(buffer, len, withSpace)
00453 #define emberAfTempMeasurementClusterPrintString(buffer)
00454 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_TEMP_MEASUREMENT_CLUSTER)
00455
00456
00457 // Printing macros for cluster: Pressure Measurement
00458 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER)
00459 #define emberAfPressureMeasurementClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER, __VA_ARGS__)
00460 #define emberAfPressureMeasurementClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER, __VA_ARGS__)
00461 #define emberAfPressureMeasurementClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER)
00462 #define emberAfPressureMeasurementClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER) ) { x; }
00463 #define emberAfPressureMeasurementClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER, (buffer), (len),
                           (withSpace))
00464 #define emberAfPressureMeasurementClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER, (buffer))
00465 #else
00466 #define emberAfPressureMeasurementClusterPrint(...)
00467 #define emberAfPressureMeasurementClusterPrintln(...)
00468 #define emberAfPressureMeasurementClusterFlush()
00469 #define emberAfPressureMeasurementClusterDebugExec(x)
00470 #define emberAfPressureMeasurementClusterPrintBuffer(buffer, len, withSpace)
00471 #define emberAfPressureMeasurementClusterPrintString(buffer)
00472 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_PRESSURE_MEASUREMENT_CLUSTER)
00473
00474
00475 // Printing macros for cluster: Flow Measurement
00476 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER)
00477 #define emberAfFlowMeasurementClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER, __VA_ARGS__)
00478 #define emberAfFlowMeasurementClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER, __VA_ARGS__)
00479 #define emberAfFlowMeasurementClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER)
00480 #define emberAfFlowMeasurementClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER) ) { x; }
00481 #define emberAfFlowMeasurementClusterPrintBuffer(buffer, len, withSpace)
        emberAfPrintBuffer(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER, (buffer), (len),
                           (withSpace))
00482 #define emberAfFlowMeasurementClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER, (buffer))
00483 #else
00484 #define emberAfFlowMeasurementClusterPrint(...)
00485 #define emberAfFlowMeasurementClusterPrintln(...)
00486 #define emberAfFlowMeasurementClusterFlush()
00487 #define emberAfFlowMeasurementClusterDebugExec(x)
00488 #define emberAfFlowMeasurementClusterPrintBuffer(buffer, len, withSpace)
00489 #define emberAfFlowMeasurementClusterPrintString(buffer)
00490 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_FLOW_MEASUREMENT_CLUSTER)
00491
00492
00493 // Printing macros for cluster: Relative Humidity Measurement
00494 #if defined(EMBER_AF_PRINT_ENABLE) &&
        defined(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER)
00495 #define emberAfRelativeHumidityMeasurementClusterPrint(...)
        emberAfPrint(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER, __VA_ARGS__)
00496 #define emberAfRelativeHumidityMeasurementClusterPrintln(...)
        emberAfPrintln(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER, __VA_ARGS__)
00497 #define emberAfRelativeHumidityMeasurementClusterFlush()
        emberAfFlush(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER)
00498 #define emberAfRelativeHumidityMeasurementClusterDebugExec(x) if (
        emberAfPrintEnabled(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER) ) { x; }
00499 #define emberAfRelativeHumidityMeasurementClusterPrintBuffer(buffer, len,
                  withSpace) emberAfPrintBuffer(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER,
                                         (buffer), (len), (withSpace))
00500 #define emberAfRelativeHumidityMeasurementClusterPrintString(buffer)
        emberAfPrintString(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER, (buffer))
00501 #else
00502 #define emberAfRelativeHumidityMeasurementClusterPrint(...)
00503 #define emberAfRelativeHumidityMeasurementClusterPrintln(...)
00504 #define emberAfRelativeHumidityMeasurementClusterFlush()

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00505 #define emberAfRelativeHumidityMeasurementClusterDebugExec(x)
00506 #define emberAfRelativeHumidityMeasurementClusterPrintBuffer(buffer, len,
   withSpace)
00507 #define emberAfRelativeHumidityMeasurementClusterPrintString(buffer)
00508 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
   defined(EMBER_AF_PRINT_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER)
00509
00510
00511 // Printing macros for cluster: Occupancy Sensing
00512 #if defined(EMBER_AF_PRINT_ENABLE) &&
   defined(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER)
00513 #define emberAfOccupancySensingClusterPrint(...)
   emberAfPrint(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER, __VA_ARGS__)
00514 #define emberAfOccupancySensingClusterPrintln(...)
   emberAfPrintln(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER, __VA_ARGS__)
00515 #define emberAfOccupancySensingClusterFlush()
   emberAfFlush(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER)
00516 #define emberAfOccupancySensingClusterDebugExec(x) if (
   emberAfPrintEnabled(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER) ) { x; }
00517 #define emberAfOccupancySensingClusterPrintBuffer(buffer, len, withSpace)
   emberAfPrintBuffer(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER, (buffer), (len),
   (withSpace))
00518 #define emberAfOccupancySensingClusterPrintString(buffer)
   emberAfPrintString(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER, (buffer))
00519 #else
00520 #define emberAfOccupancySensingClusterPrint(...)
00521 #define emberAfOccupancySensingClusterPrintln(...)
00522 #define emberAfOccupancySensingClusterFlush()
00523 #define emberAfOccupancySensingClusterDebugExec(x)
00524 #define emberAfOccupancySensingClusterPrintBuffer(buffer, len, withSpace)
00525 #define emberAfOccupancySensingClusterPrintString(buffer)
00526 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
   defined(EMBER_AF_PRINT_OCCUPANCY_SENSING_CLUSTER)
00527
00528
00529 // Printing macros for cluster: IAS Zone
00530 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_IAS_ZONE_CLUSTER)
00531 #define emberAfIasZoneClusterPrint(...)
   emberAfPrint(EMBER_AF_PRINT_IAS_ZONE_CLUSTER, __VA_ARGS__)
00532 #define emberAfIasZoneClusterPrintln(...)
   emberAfPrintln(EMBER_AF_PRINT_IAS_ZONE_CLUSTER, __VA_ARGS__)
00533 #define emberAfIasZoneClusterFlush()
   emberAfFlush(EMBER_AF_PRINT_IAS_ZONE_CLUSTER)
00534 #define emberAfIasZoneClusterDebugExec(x) if (
   emberAfPrintEnabled(EMBER_AF_PRINT_IAS_ZONE_CLUSTER) ) { x; }
00535 #define emberAfIasZoneClusterPrintBuffer(buffer, len, withSpace)
   emberAfPrintBuffer(EMBER_AF_PRINT_IAS_ZONE_CLUSTER, (buffer), (len), (withSpace))
00536 #define emberAfIasZoneClusterPrintString(buffer)
   emberAfPrintString(EMBER_AF_PRINT_IAS_ZONE_CLUSTER, (buffer))
00537 #else
00538 #define emberAfIasZoneClusterPrint(...)
00539 #define emberAfIasZoneClusterPrintln(...)
00540 #define emberAfIasZoneClusterFlush()
00541 #define emberAfIasZoneClusterDebugExec(x)
00542 #define emberAfIasZoneClusterPrintBuffer(buffer, len, withSpace)
00543 #define emberAfIasZoneClusterPrintString(buffer)
00544 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
   defined(EMBER_AF_PRINT_IAS_ZONE_CLUSTER)
00545
00546
00547 // Printing macros for cluster: IAS ACE
00548 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_IAS_ACE_CLUSTER)
00549 #define emberAfIasAceClusterPrint(...)
   emberAfPrint(EMBER_AF_PRINT_IAS_ACE_CLUSTER, __VA_ARGS__)
00550 #define emberAfIasAceClusterPrintln(...)
   emberAfPrintln(EMBER_AF_PRINT_IAS_ACE_CLUSTER, __VA_ARGS__)
00551 #define emberAfIasAceClusterFlush()
   emberAfFlush(EMBER_AF_PRINT_IAS_ACE_CLUSTER)
00552 #define emberAfIasAceClusterDebugExec(x) if (
   emberAfPrintEnabled(EMBER_AF_PRINT_IAS_ACE_CLUSTER) ) { x; }
00553 #define emberAfIasAceClusterPrintBuffer(buffer, len, withSpace)
   emberAfPrintBuffer(EMBER_AF_PRINT_IAS_ACE_CLUSTER, (buffer), (len), (withSpace))
00554 #define emberAfIasAceClusterPrintString(buffer)
   emberAfPrintString(EMBER_AF_PRINT_IAS_ACE_CLUSTER, (buffer))
00555 #else
00556 #define emberAfIasAceClusterPrint(...)
00557 #define emberAfIasAceClusterPrintln(...)
00558 #define emberAfIasAceClusterFlush()
00559 #define emberAfIasAceClusterDebugExec(x)
00560 #define emberAfIasAceClusterPrintBuffer(buffer, len, withSpace)

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00561 #define emberAfIasAceClusterPrintString(buffer)
00562 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00563     defined(EMBER_AF_PRINT_IAS_ACE_CLUSTER)
00564
00565 // Printing macros for cluster: IAS WD
00566 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_IAS_WD_CLUSTER)
00567 #define emberAfIasWdClusterPrint(...)
00568     emberAfPrint(EMBER_AF_PRINT_IAS_WD_CLUSTER, __VA_ARGS__)
00569 #define emberAfIasWdClusterPrintln(...)
00570     emberAfPrintln(EMBER_AF_PRINT_IAS_WD_CLUSTER, __VA_ARGS__)
00571 #define emberAfIasWdClusterFlush() emberAfFlush(EMBER_AF_PRINT_IAS_WD_CLUSTER)
00572 #define emberAfIasWdClusterDebugExec(x) if (
00573     emberAfPrintEnabled(EMBER_AF_PRINT_IAS_WD_CLUSTER) ) { x; }
00574 #define emberAfIasWdClusterPrintBuffer(buffer, len, withSpace)
00575     emberAfPrintBuffer(EMBER_AF_PRINT_IAS_WD_CLUSTER, (buffer), (len), (withSpace))
00576 #define emberAfIasWdClusterPrintString(buffer)
00577     emberAfPrintString(EMBER_AF_PRINT_IAS_WD_CLUSTER, (buffer))
00578 #else
00579 #define emberAfIasWdClusterPrint(...)
00580 #define emberAfIasWdClusterPrintln(...)
00581 #define emberAfIasWdClusterFlush()
00582 #define emberAfIasWdClusterDebugExec(x)
00583 #define emberAfIasWdClusterPrintBuffer(buffer, len, withSpace)
00584 #define emberAfIasWdClusterPrintString(buffer)
00585 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00586     defined(EMBER_AF_PRINT_IAS_WD_CLUSTER)
00587
00588 // Printing macros for cluster: Door Lock
00589 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER)
00590 #define emberAfDoorLockClusterPrint(...)
00591     emberAfPrint(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER, __VA_ARGS__)
00592 #define emberAfDoorLockClusterPrintln(...)
00593     emberAfPrintln(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER, __VA_ARGS__)
00594 #define emberAfDoorLockClusterFlush()
00595 #define emberAfDoorLockClusterDebugExec(x) if (
00596     emberAfPrintEnabled(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER) ) { x; }
00597 #define emberAfDoorLockClusterPrintBuffer(buffer, len, withSpace)
00598     emberAfPrintBuffer(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER, (buffer), (len), (withSpace))
00599 #define emberAfDoorLockClusterPrintString(buffer)
00600     emberAfPrintString(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER, (buffer))
00601 #else
00602 #define emberAfDoorLockClusterPrint(...)
00603 #define emberAfDoorLockClusterPrintln(...)
00604 #define emberAfDoorLockClusterFlush()
00605 #define emberAfDoorLockClusterDebugExec(x)
00606 #define emberAfDoorLockClusterPrintBuffer(buffer, len, withSpace)
00607 #define emberAfDoorLockClusterPrintString(buffer)
00608 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00609     defined(EMBER_AF_PRINT_DOOR_LOCK_CLUSTER)
00610
00611 // Printing macros for cluster: Window Covering
00612 #if defined(EMBER_AF_PRINT_ENABLE) &&
00613     defined(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER)
00614 #define emberAfWindowCoveringClusterPrint(...)
00615     emberAfPrint(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER, __VA_ARGS__)
00616 #define emberAfWindowCoveringClusterPrintln(...)
00617     emberAfPrintln(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER, __VA_ARGS__)
00618 #define emberAfWindowCoveringClusterFlush()
00619     emberAfFlush(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER)
00620 #define emberAfWindowCoveringClusterDebugExec(x) if (
00621     emberAfPrintEnabled(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER) ) { x; }
00622 #define emberAfWindowCoveringClusterPrintBuffer(buffer, len, withSpace)
00623     emberAfPrintBuffer(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER, (buffer), (len),
00624     (withSpace))
00625 #define emberAfWindowCoveringClusterPrintString(buffer)
00626     emberAfPrintString(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER, (buffer))
00627 #else
00628 #define emberAfWindowCoveringClusterPrint(...)
00629 #define emberAfWindowCoveringClusterPrintln(...)
00630 #define emberAfWindowCoveringClusterFlush()
00631 #define emberAfWindowCoveringClusterDebugExec(x)
00632 #define emberAfWindowCoveringClusterPrintBuffer(buffer, len, withSpace)
00633 #define emberAfWindowCoveringClusterPrintString(buffer)
00634 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00635     defined(EMBER_AF_PRINT_WINDOW_COVERING_CLUSTER)
00636
00637

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00618 // Printing macros for cluster: Power Profile
00619 #if defined(EMBER_AF_PRINT_ENABLE) &&
00620     defined(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER)
00621 #define emberAfPowerProfileClusterPrint(...)
00622     emberAfPrint(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER, __VA_ARGS__)
00623 #define emberAfPowerProfileClusterPrintln(...)
00624     emberAfPrintln(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER, __VA_ARGS__)
00625 #define emberAfPowerProfileClusterFlush()
00626     emberAfFlush(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER)
00627 #define emberAfPowerProfileClusterDebugExec(x) if (
00628     emberAfPrintEnabled(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER) ) { x; }
00629 #define emberAfPowerProfileClusterPrintBuffer(buffer, len, withSpace)
00630     emberAfPrintBuffer(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER, (buffer), (len), (withSpace))
00631 #define emberAfPowerProfileClusterPrintString(buffer)
00632     emberAfPrintString(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER, (buffer))
00633 #else
00634 #define emberAfPowerProfileClusterPrint(...)
00635 #define emberAfPowerProfileClusterPrintln(...)
00636 #define emberAfPowerProfileClusterFlush()
00637 #define emberAfPowerProfileClusterDebugExec(x)
00638 #define emberAfPowerProfileClusterPrintBuffer(buffer, len, withSpace)
00639 #define emberAfPowerProfileClusterPrintString(buffer)
00640 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00641     defined(EMBER_AF_PRINT_POWER_PROFILE_CLUSTER)

00642 // Printing macros for cluster: Appliance Control
00643 #if defined(EMBER_AF_PRINT_ENABLE) &&
00644     defined(EMBER_AF_PRINT_APPLIANCE_CONTROL_CLUSTER)
00645 #define emberAfApplianceControlClusterPrint(...)
00646     emberAfPrint(EMBER_AF_PRINT_APPLIANCE_CONTROL_CLUSTER, __VA_ARGS__)
00647 #define emberAfApplianceControlClusterPrintln(...)
00648 #define emberAfApplianceControlClusterFlush()
00649 #define emberAfApplianceControlClusterDebugExec(x)
00650 #define emberAfApplianceControlClusterPrintBuffer(buffer, len, withSpace)
00651 #define emberAfApplianceControlClusterPrintString(buffer)
00652 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00653     defined(EMBER_AF_PRINT_APPLIANCE_CONTROL_CLUSTER)

00654 // Printing macros for cluster: Poll Control
00655 #if defined(EMBER_AF_PRINT_ENABLE) &&
00656     defined(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER)
00657 #define emberAfPollControlClusterPrint(...)
00658     emberAfPrint(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER, __VA_ARGS__)
00659 #define emberAfPollControlClusterPrintln(...)
00660     emberAfPrintln(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER, __VA_ARGS__)
00661 #define emberAfPollControlClusterFlush()
00662     emberAfFlush(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER)
00663 #define emberAfPollControlClusterDebugExec(x) if (
00664     emberAfPrintEnabled(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER) ) { x; }
00665 #define emberAfPollControlClusterPrintBuffer(buffer, len, withSpace)
00666     emberAfPrintBuffer(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER, (buffer), (len), (withSpace))
00667 #define emberAfPollControlClusterPrintString(buffer)
00668     emberAfPrintString(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER, (buffer))
00669 #else
00670 #define emberAfPollControlClusterPrint(...)
00671 #define emberAfPollControlClusterPrintln(...)
00672 #define emberAfPollControlClusterFlush()
00673 #define emberAfPollControlClusterDebugExec(x)
00674 #define emberAfPollControlClusterPrintBuffer(buffer, len, withSpace)
00675 #define emberAfPollControlClusterPrintString(buffer)
00676 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00677     defined(EMBER_AF_PRINT_POLL_CONTROL_CLUSTER)

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00673 // Printing macros for cluster: Appliance Identification
00674 #if defined(EMBER_AF_PRINT_ENABLE) &&
00675     defined(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER)
00676 #define emberAfApplianceIdentificationClusterPrint(...)
00677     emberAfPrint(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER, __VA_ARGS__)
00678 #define emberAfApplianceIdentificationClusterPrintln(...)
00679     emberAfPrintln(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER, __VA_ARGS__)
00680 #define emberAfApplianceIdentificationClusterFlush()
00681     emberAfFlush(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER)
00682 #define emberAfApplianceIdentificationClusterDebugExec(x) if (
00683     emberAfPrintEnabled(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER) ) { x; }
00684 #define emberAfApplianceIdentificationClusterPrintBuffer(buffer, len,
00685     withSpace) emberAfPrintBuffer(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER, (buffer),
00686     (len), (withSpace))
00687 #define emberAfApplianceIdentificationClusterPrintString(buffer)
00688     emberAfPrintString(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER, (buffer))
00689 #else
00690 #define emberAfApplianceIdentificationClusterPrint(...)
00691 #define emberAfApplianceIdentificationClusterPrintln(...)
00692 #define emberAfApplianceIdentificationClusterFlush()
00693 #define emberAfApplianceIdentificationClusterDebugExec(x)
00694 #define emberAfApplianceIdentificationClusterPrintBuffer(buffer, len,
00695     withSpace)
00696 #define emberAfApplianceIdentificationClusterPrintString(buffer)
00697 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00698     defined(EMBER_AF_PRINT_APPLIANCE_IDENTIFICATION_CLUSTER)

00699
00700
00701 // Printing macros for cluster: Meter Identification
00702 #if defined(EMBER_AF_PRINT_ENABLE) &&
00703     defined(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER)
00704 #define emberAfMeterIdentificationClusterPrint(...)
00705     emberAfPrint(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER, __VA_ARGS__)
00706 #define emberAfMeterIdentificationClusterPrintln(...)
00707     emberAfPrintln(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER, __VA_ARGS__)
00708 #define emberAfMeterIdentificationClusterFlush()
00709     emberAfFlush(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER)
00710 #define emberAfMeterIdentificationClusterDebugExec(x) if (
00711     emberAfPrintEnabled(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER) ) { x; }
00712 #define emberAfMeterIdentificationClusterPrintBuffer(buffer, len, withSpace)
00713     emberAfPrintBuffer(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER, (buffer), (len),
00714     (withSpace))
00715 #define emberAfMeterIdentificationClusterPrintString(buffer)
00716     emberAfPrintString(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER, (buffer))
00717 #else
00718 #define emberAfMeterIdentificationClusterPrint(...)
00719 #define emberAfMeterIdentificationClusterPrintln(...)
00720 #define emberAfMeterIdentificationClusterFlush()
00721 #define emberAfMeterIdentificationClusterDebugExec(x)
00722 #define emberAfMeterIdentificationClusterPrintBuffer(buffer, len,
00723     withSpace)
00724 #define emberAfMeterIdentificationClusterPrintString(buffer)
00725 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00726     defined(EMBER_AF_PRINT_METER_IDENTIFICATION_CLUSTER)

00727
00728
00729 // Printing macros for cluster: Appliance Events and Alert
00730 #if defined(EMBER_AF_PRINT_ENABLE) &&
00731     defined(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER)
00732 #define emberAfApplianceEventsAndAlertClusterPrint(...)
00733     emberAfPrint(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER, __VA_ARGS__)
00734 #define emberAfApplianceEventsAndAlertClusterPrintln(...)
00735     emberAfPrintln(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER, __VA_ARGS__)
00736 #define emberAfApplianceEventsAndAlertClusterFlush()
00737     emberAfFlush(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER)
00738 #define emberAfApplianceEventsAndAlertClusterDebugExec(x) if (
00739     emberAfPrintEnabled(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER) ) { x; }
00740 #define emberAfApplianceEventsAndAlertClusterPrintBuffer(buffer, len,
00741     withSpace) emberAfPrintBuffer(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER,
00742     (buffer), (len), (withSpace))
00743 #define emberAfApplianceEventsAndAlertClusterPrintString(buffer)
00744     emberAfPrintString(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER, (buffer))
00745 #else
00746 #define emberAfApplianceEventsAndAlertClusterPrint(...)
00747 #define emberAfApplianceEventsAndAlertClusterPrintln(...)
00748 #define emberAfApplianceEventsAndAlertClusterFlush()
00749 #define emberAfApplianceEventsAndAlertClusterDebugExec(x)
00750 #define emberAfApplianceEventsAndAlertClusterPrintBuffer(buffer, len,
00751     withSpace)
00752 #define emberAfApplianceEventsAndAlertClusterPrintString(buffer)
00753 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00754     defined(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER)

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defined(EMBER_AF_PRINT_APPLIANCE_EVENTS_AND_ALERT_CLUSTER)
00725
00726
00727 // Printing macros for cluster: Generic Tunnel
00728 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER)
00729 #define emberAfGenericTunnelClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER, __VA_ARGS__)
00730 #define emberAfGenericTunnelClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER, __VA_ARGS__)
00731 #define emberAfGenericTunnelClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER)
00732 #define emberAfGenericTunnelClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER) ) { x; }
00733 #define emberAfGenericTunnelClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER, (buffer), (len), (withSpace))
00734 #define emberAfGenericTunnelClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER, (buffer))
00735 #else
00736 #define emberAfGenericTunnelClusterPrint(...)
00737 #define emberAfGenericTunnelClusterPrintln(...)
00738 #define emberAfGenericTunnelClusterFlush()
00739 #define emberAfGenericTunnelClusterDebugExec(x)
00740 #define emberAfGenericTunnelClusterPrintBuffer(buffer, len, withSpace)
00741 #define emberAfGenericTunnelClusterPrintString(buffer)
00742 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_GENERIC_TUNNEL_CLUSTER)
00743
00744
00745 // Printing macros for cluster: BACnet Protocol Tunnel
00746 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER)
00747 #define emberAfBacnetProtocolTunnelClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER, __VA_ARGS__)
00748 #define emberAfBacnetProtocolTunnelClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER, __VA_ARGS__)
00749 #define emberAfBacnetProtocolTunnelClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER)
00750 #define emberAfBacnetProtocolTunnelClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER) ) { x; }
00751 #define emberAfBacnetProtocolTunnelClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER, (buffer),
    (len), (withSpace))
00752 #define emberAfBacnetProtocolTunnelClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER, (buffer))
00753 #else
00754 #define emberAfBacnetProtocolTunnelClusterPrint(...)
00755 #define emberAfBacnetProtocolTunnelClusterPrintln(...)
00756 #define emberAfBacnetProtocolTunnelClusterFlush()
00757 #define emberAfBacnetProtocolTunnelClusterDebugExec(x)
00758 #define emberAfBacnetProtocolTunnelClusterPrintBuffer(buffer, len, withSpace)
00759 #define emberAfBacnetProtocolTunnelClusterPrintString(buffer)
00760 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_BACNET_PROTOCOL_TUNNEL_CLUSTER)
00761
00762
00763 // Printing macros for cluster: Over the Air Bootloading Cluster
00764 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER)
00765 #define emberAfOtaBootloadClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER, __VA_ARGS__)
00766 #define emberAfOtaBootloadClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER, __VA_ARGS__)
00767 #define emberAfOtaBootloadClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER)
00768 #define emberAfOtaBootloadClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER) ) { x; }
00769 #define emberAfOtaBootloadClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER, (buffer), (len), (withSpace))
00770 #define emberAfOtaBootloadClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER, (buffer))
00771 #else
00772 #define emberAfOtaBootloadClusterPrint(...)
00773 #define emberAfOtaBootloadClusterPrintln(...)
00774 #define emberAfOtaBootloadClusterFlush()
00775 #define emberAfOtaBootloadClusterDebugExec(x)
00776 #define emberAfOtaBootloadClusterPrintBuffer(buffer, len, withSpace)
00777 #define emberAfOtaBootloadClusterPrintString(buffer)
00778 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_OTA_BOOTLOAD_CLUSTER)

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00779
00780
00781 // Printing macros for cluster: Demand Response and Load Control
00782 #if defined(EMBER_AF_PRINT_ENABLE) &&
00783     defined(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER)
00783 #define emberAfDemandResponseLoadControlClusterPrint(...)
00784     emberAfPrint(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER, __VA_ARGS__)
00784 #define emberAfDemandResponseLoadControlClusterPrintln(...)
00785     emberAfPrintln(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER, __VA_ARGS__)
00785 #define emberAfDemandResponseLoadControlClusterFlush()
00786     emberAfFlush(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER)
00786 #define emberAfDemandResponseLoadControlClusterDebugExec(x) if (
00787     emberAfPrintEnabled(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER) ) { x; }
00787 #define emberAfDemandResponseLoadControlClusterPrintBuffer(buffer, len,
00788     withSpace) emberAfPrintBuffer(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER,
00789     (buffer), (len), (withSpace))
00788 #define emberAfDemandResponseLoadControlClusterPrintString(buffer)
00789     emberAfPrintString(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER, (buffer))
00789 #else
00790 #define emberAfDemandResponseLoadControlClusterPrint(...)
00791 #define emberAfDemandResponseLoadControlClusterPrintln(...)
00792 #define emberAfDemandResponseLoadControlClusterFlush()
00793 #define emberAfDemandResponseLoadControlClusterDebugExec(x)
00794 #define emberAfDemandResponseLoadControlClusterPrintBuffer(buffer, len,
00795     withSpace)
00795 #define emberAfDemandResponseLoadControlClusterPrintString(buffer)
00796 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00797     defined(EMBER_AF_PRINT_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER)
00797
00798
00799 // Printing macros for cluster: Simple Metering
00800 #if defined(EMBER_AF_PRINT_ENABLE) &&
00801     defined(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER)
00801 #define emberAfSimpleMeteringClusterPrint(...)
00802     emberAfPrint(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER, __VA_ARGS__)
00802 #define emberAfSimpleMeteringClusterPrintln(...)
00803     emberAfPrintln(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER, __VA_ARGS__)
00803 #define emberAfSimpleMeteringClusterFlush()
00804     emberAfFlush(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER)
00804 #define emberAfSimpleMeteringClusterDebugExec(x) if (
00805     emberAfPrintEnabled(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER) ) { x; }
00805 #define emberAfSimpleMeteringClusterPrintBuffer(buffer, len, withSpace)
00806     emberAfPrintBuffer(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER, (buffer), (len),
00806     (withSpace))
00806 #define emberAfSimpleMeteringClusterPrintString(buffer)
00807     emberAfPrintString(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER, (buffer))
00807 #else
00808 #define emberAfSimpleMeteringClusterPrint(...)
00809 #define emberAfSimpleMeteringClusterPrintln(...)
00810 #define emberAfSimpleMeteringClusterFlush()
00811 #define emberAfSimpleMeteringClusterDebugExec(x)
00812 #define emberAfSimpleMeteringClusterPrintBuffer(buffer, len, withSpace)
00813 #define emberAfSimpleMeteringClusterPrintString(buffer)
00814 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00815     defined(EMBER_AF_PRINT_SIMPLE_METERING_CLUSTER)
00816
00817
00817 // Printing macros for cluster: Price
00818 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_PRICE_CLUSTER)
00819 #define emberAfPriceClusterPrint(...)
00820     emberAfPrint(EMBER_AF_PRINT_PRICE_CLUSTER, __VA_ARGS__)
00820 #define emberAfPriceClusterPrintln(...)
00821     emberAfPrintln(EMBER_AF_PRINT_PRICE_CLUSTER, __VA_ARGS__)
00821 #define emberAfPriceClusterFlush() emberAfFlush(EMBER_AF_PRINT_PRICE_CLUSTER)
00822 #define emberAfPriceClusterDebugExec(x) if (
00823     emberAfPrintEnabled(EMBER_AF_PRINT_PRICE_CLUSTER) ) { x; }
00823 #define emberAfPriceClusterPrintBuffer(buffer, len, withSpace)
00824     emberAfPrintBuffer(EMBER_AF_PRINT_PRICE_CLUSTER, (buffer), (len), (withSpace))
00824 #define emberAfPriceClusterPrintString(buffer)
00825     emberAfPrintString(EMBER_AF_PRINT_PRICE_CLUSTER, (buffer))
00825 #else
00826 #define emberAfPriceClusterPrint(...)
00827 #define emberAfPriceClusterPrintln(...)
00828 #define emberAfPriceClusterFlush()
00829 #define emberAfPriceClusterDebugExec(x)
00830 #define emberAfPriceClusterPrintBuffer(buffer, len, withSpace)
00831     emberAfPrintBuffer(EMBER_AF_PRINT_PRICE_CLUSTER, (buffer))
00832 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00833     defined(EMBER_AF_PRINT_PRICE_CLUSTER)
00833

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00834
00835 // Printing macros for cluster: Messaging
00836 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_MESSAGING_CLUSTER)
00837 #define emberAfMessagingClusterPrint(...)
00838     emberAfPrint(EMBER_AF_PRINT_MESSAGING_CLUSTER, __VA_ARGS__)
00839 #define emberAfMessagingClusterPrintln(...)
00840     emberAfPrintln(EMBER_AF_PRINT_MESSAGING_CLUSTER, __VA_ARGS__)
00841 #define emberAfMessagingClusterFlush()
00842     emberAfFlush(EMBER_AF_PRINT_MESSAGING_CLUSTER)
00843 #define emberAfMessagingClusterDebugExec(x) if (
00844     emberAfPrintEnabled(EMBER_AF_PRINT_MESSAGING_CLUSTER) ) { x; }
00845 #define emberAfMessagingClusterPrintBuffer(buffer, len, withSpace)
00846     emberAfPrintBuffer(EMBER_AF_PRINT_MESSAGING_CLUSTER, (buffer), (len), (withSpace))
00847 #define emberAfMessagingClusterPrintString(buffer)
00848     emberAfPrintString(EMBER_AF_PRINT_MESSAGING_CLUSTER, (buffer))
00849 #else
00850 #define emberAfMessagingClusterPrint(...)
00851 #define emberAfMessagingClusterPrintln(...)
00852 #define emberAfMessagingClusterFlush()
00853 #define emberAfMessagingClusterDebugExec(x)
00854 #define emberAfMessagingClusterPrintBuffer(buffer, len, withSpace)
00855 #define emberAfMessagingClusterPrintString(buffer)
00856 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00857     defined(EMBER_AF_PRINT_MESSAGING_CLUSTER)

00858 // Printing macros for cluster: Tunneling
00859 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_TUNNELING_CLUSTER)
00860 #define emberAfTunnelingClusterPrint(...)
00861     emberAfPrint(EMBER_AF_PRINT_TUNNELING_CLUSTER, __VA_ARGS__)
00862 #define emberAfTunnelingClusterPrintln(...)
00863     emberAfPrintln(EMBER_AF_PRINT_TUNNELING_CLUSTER, __VA_ARGS__)
00864 #define emberAfTunnelingClusterFlush()
00865 #define emberAfTunnelingClusterDebugExec(x)
00866 #define emberAfTunnelingClusterPrintBuffer(buffer, len, withSpace)
00867 #define emberAfTunnelingClusterPrintString(buffer)
00868 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00869     defined(EMBER_AF_PRINT_TUNNELING_CLUSTER)

00870 // Printing macros for cluster: Prepayment
00871 #if defined(EMBER_AF_PRINT_ENABLE) &&
00872     defined(EMBER_AF_PRINT_PREPAYMENT_CLUSTER)
00873 #define emberAfPrepaymentClusterPrint(...)
00874     emberAfPrint(EMBER_AF_PRINT_PREPAYMENT_CLUSTER, __VA_ARGS__)
00875 #define emberAfPrepaymentClusterPrintln(...)
00876     emberAfPrintln(EMBER_AF_PRINT_PREPAYMENT_CLUSTER, __VA_ARGS__)
00877 #define emberAfPrepaymentClusterFlush()
00878     emberAfFlush(EMBER_AF_PRINT_PREPAYMENT_CLUSTER)
00879 #define emberAfPrepaymentClusterDebugExec(x) if (
00880     emberAfPrintEnabled(EMBER_AF_PRINT_PREPAYMENT_CLUSTER) ) { x; }
00881 #define emberAfPrepaymentClusterPrintBuffer(buffer, len, withSpace)
00882     emberAfPrintBuffer(EMBER_AF_PRINT_PREPAYMENT_CLUSTER, (buffer), (len), (withSpace))
00883 #define emberAfPrepaymentClusterPrintString(buffer)
00884     emberAfPrintString(EMBER_AF_PRINT_PREPAYMENT_CLUSTER, (buffer))
00885 #else
00886 #define emberAfPrepaymentClusterPrint(...)
00887 #define emberAfPrepaymentClusterPrintln(...)
00888 #define emberAfPrepaymentClusterFlush()
00889 #define emberAfPrepaymentClusterDebugExec(x)
00890 #define emberAfPrepaymentClusterPrintBuffer(buffer, len, withSpace)
00891 #define emberAfPrepaymentClusterPrintString(buffer)
00892 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
00893     defined(EMBER_AF_PRINT_PREPAYMENT_CLUSTER)

00894 // Printing macros for cluster: Key establishment
00895 #if defined(EMBER_AF_PRINT_ENABLE) &&
00896     defined(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER)

```

```

00891 #define emberAfKeyEstablishmentClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER, __VA_ARGS__)
00892 #define emberAfKeyEstablishmentClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER, __VA_ARGS__)
00893 #define emberAfKeyEstablishmentClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER)
00894 #define emberAfKeyEstablishmentClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER) ) { x; }
00895 #define emberAfKeyEstablishmentClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER, (buffer), (len),
    (withSpace))
00896 #define emberAfKeyEstablishmentClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER, (buffer))
00897 #else
00898 #define emberAfKeyEstablishmentClusterPrint(...)
00899 #define emberAfKeyEstablishmentClusterPrintln(...)
00900 #define emberAfKeyEstablishmentClusterFlush()
00901 #define emberAfKeyEstablishmentClusterDebugExec(x)
00902 #define emberAfKeyEstablishmentClusterPrintBuffer(buffer, len, withSpace)
00903 #define emberAfKeyEstablishmentClusterPrintString(buffer)
00904 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_KEY_ESTABLISHMENT_CLUSTER)
00905
00906
00907 // Printing macros for cluster: ZLL Commissioning
00908 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER)
00909 #define emberAfZllCommissioningClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER, __VA_ARGS__)
00910 #define emberAfZllCommissioningClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER, __VA_ARGS__)
00911 #define emberAfZllCommissioningClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER)
00912 #define emberAfZllCommissioningClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER) ) { x; }
00913 #define emberAfZllCommissioningClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER, (buffer), (len),
    (withSpace))
00914 #define emberAfZllCommissioningClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER, (buffer))
00915 #else
00916 #define emberAfZllCommissioningClusterPrint(...)
00917 #define emberAfZllCommissioningClusterPrintln(...)
00918 #define emberAfZllCommissioningClusterFlush()
00919 #define emberAfZllCommissioningClusterDebugExec(x)
00920 #define emberAfZllCommissioningClusterPrintBuffer(buffer, len, withSpace)
00921 #define emberAfZllCommissioningClusterPrintString(buffer)
00922 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_ZLL_COMMISSIONING_CLUSTER)
00923
00924
00925 // Printing macros for cluster: Sample Mfg Specific Cluster
00926 #if defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER)
00927 #define emberAfSampleMfgSpecificClusterPrint(...)
    emberAfPrint(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER, __VA_ARGS__)
00928 #define emberAfSampleMfgSpecificClusterPrintln(...)
    emberAfPrintln(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER, __VA_ARGS__)
00929 #define emberAfSampleMfgSpecificClusterFlush()
    emberAfFlush(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER)
00930 #define emberAfSampleMfgSpecificClusterDebugExec(x) if (
    emberAfPrintEnabled(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER) ) { x; }
00931 #define emberAfSampleMfgSpecificClusterPrintBuffer(buffer, len, withSpace)
    emberAfPrintBuffer(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER, (buffer), (len),
    (withSpace))
00932 #define emberAfSampleMfgSpecificClusterPrintString(buffer)
    emberAfPrintString(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER, (buffer))
00933 #else
00934 #define emberAfSampleMfgSpecificClusterPrint(...)
00935 #define emberAfSampleMfgSpecificClusterPrintln(...)
00936 #define emberAfSampleMfgSpecificClusterFlush()
00937 #define emberAfSampleMfgSpecificClusterDebugExec(x)
00938 #define emberAfSampleMfgSpecificClusterPrintBuffer(buffer, len, withSpace)
00939 #define emberAfSampleMfgSpecificClusterPrintString(buffer)
00940 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
    defined(EMBER_AF_PRINT_SAMPLE_MFG_SPECIFIC_CLUSTER)
00941
00942
00943 // Printing macros for Core
00944 // Prints messages for global flow of the receive/send

```

```

00945 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CORE)
00946 #define emberAfCorePrint(...) emberAfPrint(EMBER_AF_PRINT_CORE, __VA_ARGS__)
00947 #define emberAfCorePrintln(...) emberAfPrintln(EMBER_AF_PRINT_CORE,
00948     __VA_ARGS__)
00949 #define emberAfCoreFlush() emberAfFlush(EMBER_AF_PRINT_CORE)
00950 #define emberAfCoreDebugExec(x) if ( emberAfPrintEnabled(EMBER_AF_PRINT_CORE) )
00951 { x; }
00950 #define emberAfCorePrintBuffer(buffer, len, withSpace)
00951 emberAfPrintBuffer(EMBER_AF_PRINT_CORE, (buffer), (len), (withSpace))
00951 #define emberAfCorePrintString(buffer) emberAfPrintString(EMBER_AF_PRINT_CORE,
00951     (buffer))
00952 #else
00953 #define emberAfCorePrint(...)
00954 #define emberAfCorePrintln...
00955 #define emberAfCoreFlush()
00956 #define emberAfCoreDebugExec(x)
00957 #define emberAfCorePrintBuffer(buffer, len, withSpace)
00958 #define emberAfCorePrintString(buffer)
00959 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CORE)
00960
00961
00962 // Printing macros for Debug
00963 // Prints messages for random debugging
00964 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_DEBUG)
00965 #define emberAfDebugPrint(...) emberAfPrint(EMBER_AF_PRINT_DEBUG, __VA_ARGS__)
00966 #define emberAfDebugPrintln(...) emberAfPrintln(EMBER_AF_PRINT_DEBUG,
00966     __VA_ARGS__)
00967 #define emberAfDebugFlush() emberAfFlush(EMBER_AF_PRINT_DEBUG)
00968 #define emberAfDebugDebugExec(x) if ( emberAfPrintEnabled(EMBER_AF_PRINT_DEBUG)
00968 ) { x; }
00969 #define emberAfDebugPrintBuffer(buffer, len, withSpace)
00969 emberAfPrintBuffer(EMBER_AF_PRINT_DEBUG, (buffer), (len), (withSpace))
00970 #define emberAfDebugPrintString(buffer)
00970 emberAfPrintString(EMBER_AF_PRINT_DEBUG, (buffer))
00971 #else
00972 #define emberAfDebugPrint(...)
00973 #define emberAfDebugPrintln...
00974 #define emberAfDebugFlush()
00975 #define emberAfDebugDebugExec(x)
00976 #define emberAfDebugPrintBuffer(buffer, len, withSpace)
00977 #define emberAfDebugPrintString(buffer)
00978 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_DEBUG)
00979
00980
00981 // Printing macros for Application
00982 // Prints messages for application part
00983 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_APP)
00984 #define emberAfAppPrint(...) emberAfPrint(EMBER_AF_PRINT_APP, __VA_ARGS__)
00985 #define emberAfAppPrintln(...) emberAfPrintln(EMBER_AF_PRINT_APP, __VA_ARGS__)
00986 #define emberAfAppFlush() emberAfFlush(EMBER_AF_PRINT_APP)
00987 #define emberAfAppDebugExec(x) if ( emberAfPrintEnabled(EMBER_AF_PRINT_APP) ) {
00987 x; }
00988 #define emberAfAppPrintBuffer(buffer, len, withSpace)
00988 emberAfPrintBuffer(EMBER_AF_PRINT_APP, (buffer), (len), (withSpace))
00989 #define emberAfAppPrintString(buffer) emberAfPrintString(EMBER_AF_PRINT_APP,
00989 (buffer))
00990 #else
00991 #define emberAfAppPrint(...)
00992 #define emberAfAppPrintln...
00993 #define emberAfAppFlush()
00994 #define emberAfAppDebugExec(x)
00995 #define emberAfAppPrintBuffer(buffer, len, withSpace)
00996 #define emberAfAppPrintString(buffer)
00997 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_APP)
00998
00999
01000 // Printing macros for Security
01001 // Prints messages related to security
01002 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_SECURITY)
01003 #define emberAfSecurityPrint(...) emberAfPrint(EMBER_AF_PRINT_SECURITY,
01003     __VA_ARGS__)
01004 #define emberAfSecurityPrintln(...) emberAfPrintln(EMBER_AF_PRINT_SECURITY,
01004     __VA_ARGS__)
01005 #define emberAfSecurityFlush() emberAfFlush(EMBER_AF_PRINT_SECURITY)
01006 #define emberAfSecurityDebugExec(x) if (
01006 emberAfPrintEnabled(EMBER_AF_PRINT_SECURITY) ) { x; }
01007 #define emberAfSecurityPrintBuffer(buffer, len, withSpace)
01007 emberAfPrintBuffer(EMBER_AF_PRINT_SECURITY, (buffer), (len), (withSpace))
01008 #define emberAfSecurityPrintString(buffer)
01008 emberAfPrintString(EMBER_AF_PRINT_SECURITY, (buffer))

```

```

01009 #else
01100 #define emberAfSecurityPrint(...)
01101 #define emberAfSecurityPrintln(...)
01102 #define emberAfSecurityFlush()
01103 #define emberAfSecurityDebugExec(x)
01104 #define emberAfSecurityPrintBuffer(buffer, len, withSpace)
01105 #define emberAfSecurityPrintString(buffer)
01106 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_SECURITY)
01107
01108
01109 // Printing macros for Attributes
01110 // Prints messages related to attributes
01111 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_ATTRIBUTES)
01112 #define emberAfAttributesPrint(...) emberAfPrint(EMBER_AF_PRINT_ATTRIBUTES,
01113     __VA_ARGS__)
01114 #define emberAfAttributesPrintln(...) emberAfPrintln(EMBER_AF_PRINT_ATTRIBUTES,
01115     __VA_ARGS__)
01116 #define emberAfAttributesFlush() emberAfFlush(EMBER_AF_PRINT_ATTRIBUTES)
01117 #define emberAfAttributesDebugExec(x) if (
01118     emberAfPrintEnabled(EMBER_AF_PRINT_ATTRIBUTES) ) { x; }
01119 #define emberAfAttributesPrintBuffer(buffer, len, withSpace)
01120     emberAfPrintBuffer(EMBER_AF_PRINT_ATTRIBUTES, (buffer), (len), (withSpace))
01121 #define emberAfAttributesPrintString(buffer)
01122     emberAfPrintString(EMBER_AF_PRINT_ATTRIBUTES, (buffer))
01123 #else
01124 #define emberAfAttributesPrint(...)
01125 #define emberAfAttributesPrintln(...)
01126 #define emberAfAttributesFlush()
01127 #define emberAfAttributesDebugExec(x)
01128 #define emberAfAttributesPrintBuffer(buffer, len, withSpace)
01129 #define emberAfAttributesPrintString(buffer)
01130 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_ATTRIBUTES)
01131
01132
01133 // Printing macros for Reporting
01134 // Prints messages related to reporting
01135 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_REPORTING)
01136 #define emberAfReportingPrint(...) emberAfPrint(EMBER_AF_PRINT_REPORTING,
01137     __VA_ARGS__)
01138 #define emberAfReportingPrintln(...) emberAfPrintln(EMBER_AF_PRINT_REPORTING,
01139     __VA_ARGS__)
01140 #define emberAfReportingFlush() emberAfFlush(EMBER_AF_PRINT_REPORTING)
01141 #define emberAfReportingDebugExec(x) if (
01142     emberAfPrintEnabled(EMBER_AF_PRINT_REPORTING) ) { x; }
01143 #define emberAfReportingPrintBuffer(buffer, len, withSpace)
01144     emberAfPrintBuffer(EMBER_AF_PRINT_REPORTING, (buffer), (len), (withSpace))
01145 #define emberAfReportingPrintString(buffer)
01146     emberAfPrintString(EMBER_AF_PRINT_REPORTING, (buffer))
01147 #else
01148 #define emberAfReportingPrint(...)
01149 #define emberAfReportingPrintln(...)
01150 #define emberAfReportingFlush()
01151 #define emberAfReportingDebugExec(x)
01152 #define emberAfReportingPrintBuffer(buffer, len, withSpace)
01153 #define emberAfReportingPrintString(buffer)
01154 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_REPORTING)
01155
01156
01157 // Printing macros for Service discovery
01158 // Prints messages related to service discovery
01159 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_SERVICE_DISCOVERY)
01160 #define emberAfServiceDiscoveryPrint(...)
01161     emberAfPrint(EMBER_AF_PRINT_SERVICE_DISCOVERY, __VA_ARGS__)
01162 #define emberAfServiceDiscoveryPrintln(...)
01163     emberAfPrintln(EMBER_AF_PRINT_SERVICE_DISCOVERY, __VA_ARGS__)
01164 #define emberAfServiceDiscoveryFlush()
01165     emberAfFlush(EMBER_AF_PRINT_SERVICE_DISCOVERY)
01166 #define emberAfServiceDiscoveryDebugExec(x) if (
01167     emberAfPrintEnabled(EMBER_AF_PRINT_SERVICE_DISCOVERY) ) { x; }
01168 #define emberAfServiceDiscoveryPrintBuffer(buffer, len, withSpace)
01169     emberAfPrintBuffer(EMBER_AF_PRINT_SERVICE_DISCOVERY, (buffer), (len), (withSpace))
01170 #define emberAfServiceDiscoveryPrintString(buffer)
01171     emberAfPrintString(EMBER_AF_PRINT_SERVICE_DISCOVERY, (buffer))
01172 #else
01173 #define emberAfServiceDiscoveryPrint(...)
01174 #define emberAfServiceDiscoveryPrintln(...)
01175 #define emberAfServiceDiscoveryFlush()
01176 #define emberAfServiceDiscoveryDebugExec(x)
01177 #define emberAfServiceDiscoveryPrintBuffer(buffer, len, withSpace)
01178 #define emberAfServiceDiscoveryPrintString(buffer)

```

```

01073 #endif //defined(EMBER_AF_PRINT_ENABLE) &&
01074     defined(EMBER_AF_PRINT_SERVICE_DISCOVERY)
01075
01076 // Printing macros for Registration
01077 // Prints messages related to registration
01078 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_REGISTRATION)
01079 #define emberAfRegistrationPrint(...) emberAfPrint(EMBER_AF_PRINT_REGISTRATION,
01080     __VA_ARGS__)
01080 #define emberAfRegistrationPrintln(...)
01081     emberAfPrintln(EMBER_AF_PRINT_REGISTRATION, __VA_ARGS__)
01081 #define emberAfRegistrationFlush() emberAfFlush(EMBER_AF_PRINT_REGISTRATION)
01082 #define emberAfRegistrationDebugExec(x) if (
01083     emberAfPrintEnabled(EMBER_AF_PRINT_REGISTRATION) ) { x; }
01083 #define emberAfRegistrationPrintBuffer(buffer, len, withSpace)
01084     emberAfPrintBuffer(EMBER_AF_PRINT_REGISTRATION, (buffer), (len), (withSpace))
01084 #define emberAfRegistrationPrintString(buffer)
01085     emberAfPrintString(EMBER_AF_PRINT_REGISTRATION, (buffer))
01085 #else
01086 #define emberAfRegistrationPrint(...)
01087 #define emberAfRegistrationPrintln(...)
01088 #define emberAfRegistrationFlush()
01089 #define emberAfRegistrationDebugExec(x)
01090 #define emberAfRegistrationPrintBuffer(buffer, len, withSpace)
01091 #define emberAfRegistrationPrintString(buffer)
01092 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_REGISTRATION)
01093
01094
01095 // Printing macros for ZDO (ZigBee Device Object)
01096 // Prints messages related to ZDO functionality
01097 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_ZDO)
01098 #define emberAfZdoPrint(...) emberAfPrint(EMBER_AF_PRINT_ZDO, __VA_ARGS__)
01099 #define emberAfZdoPrintln(...) emberAfPrintln(EMBER_AF_PRINT_ZDO, __VA_ARGS__)
01100 #define emberAfZdoFlush() emberAfFlush(EMBER_AF_PRINT_ZDO)
01101 #define emberAfZdoDebugExec(x) if ( emberAfPrintEnabled(EMBER_AF_PRINT_ZDO) ) {
01102     x;
01102 }
01102 #define emberAfZdoPrintBuffer(buffer, len, withSpace)
01103     emberAfPrintBuffer(EMBER_AF_PRINT_ZDO, (buffer), (len), (withSpace))
01103 #define emberAfZdoPrintString(buffer) emberAfPrintString(EMBER_AF_PRINT_ZDO,
01104     (buffer))
01104 #else
01105 #define emberAfZdoPrint(...)
01106 #define emberAfZdoPrintln(...)
01107 #define emberAfZdoFlush()
01108 #define emberAfZdoDebugExec(x)
01109 #define emberAfZdoPrintBuffer(buffer, len, withSpace)
01110 #define emberAfZdoPrintString(buffer)
01111 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_ZDO)
01112
01113
01114 // Printing macros for Custom messages (1)
01115 // Messages that can be used by the end developer
01116 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CUSTOM1)
01117 #define emberAfCustom1Print(...) emberAfPrint(EMBER_AF_PRINT_CUSTOM1,
01118     __VA_ARGS__)
01118 #define emberAfCustom1Println(...) emberAfPrintln(EMBER_AF_PRINT_CUSTOM1,
01119     __VA_ARGS__)
01119 #define emberAfCustom1Flush() emberAfFlush(EMBER_AF_PRINT_CUSTOM1)
01120 #define emberAfCustom1DebugExec(x) if (
01121     emberAfPrintEnabled(EMBER_AF_PRINT_CUSTOM1) ) { x; }
01121 #define emberAfCustom1PrintBuffer(buffer, len, withSpace)
01122     emberAfPrintBuffer(EMBER_AF_PRINT_CUSTOM1, (buffer), (len), (withSpace))
01122 #define emberAfCustom1PrintString(buffer)
01123     emberAfPrintString(EMBER_AF_PRINT_CUSTOM1, (buffer))
01123 #else
01124 #define emberAfCustom1Print(...)
01125 #define emberAfCustom1Println(...)
01126 #define emberAfCustom1Flush()
01127 #define emberAfCustom1DebugExec(x)
01128 #define emberAfCustom1PrintBuffer(buffer, len, withSpace)
01129 #define emberAfCustom1PrintString(buffer)
01130 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CUSTOM1)
01131
01132
01133 // Printing macros for Custom messages (2)
01134 // Messages that can be used by the end developer
01135 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CUSTOM2)
01136 #define emberAfCustom2Print(...) emberAfPrint(EMBER_AF_PRINT_CUSTOM2,
01137     __VA_ARGS__)
01137 #define emberAfCustom2Println(...) emberAfPrintln(EMBER_AF_PRINT_CUSTOM2,

```

```

    __VA_ARGS__)
01138 #define emberAfCustom2Flush() emberAfFlush(EMBER_AF_PRINT_CUSTOM2)
01139 #define emberAfCustom2DebugExec(x) if (
01140     emberAfPrintEnabled(EMBER_AF_PRINT_CUSTOM2) ) { x; }
01140 #define emberAfCustom2PrintBuffer(buffer, len, withSpace)
01141     emberAfPrintBuffer(EMBER_AF_PRINT_CUSTOM2, (buffer), (len), (withSpace))
01141 #define emberAfCustom2PrintString(buffer)
01142     emberAfPrintString(EMBER_AF_PRINT_CUSTOM2, (buffer))
01142 #else
01143 #define emberAfCustom2Print(...)
01144 #define emberAfCustom2Println(...)
01145 #define emberAfCustom2Flush()
01146 #define emberAfCustom2DebugExec(x)
01147 #define emberAfCustom2PrintBuffer(buffer, len, withSpace)
01148 #define emberAfCustom2PrintString(buffer)
01149 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CUSTOM2)
01150
01151
01152 // Printing macros for Custom messages (3)
01153 // Messages that can be used by the end developer
01154 #if defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CUSTOM3)
01155 #define emberAfCustom3Print(...) emberAfPrint(EMBER_AF_PRINT_CUSTOM3,
01156     __VA_ARGS__)
01156 #define emberAfCustom3Println(...) emberAfPrintln(EMBER_AF_PRINT_CUSTOM3,
01157     __VA_ARGS__)
01157 #define emberAfCustom3Flush() emberAfFlush(EMBER_AF_PRINT_CUSTOM3)
01158 #define emberAfCustom3DebugExec(x) if (
01159     emberAfPrintEnabled(EMBER_AF_PRINT_CUSTOM3) ) { x; }
01159 #define emberAfCustom3PrintBuffer(buffer, len, withSpace)
01160     emberAfPrintBuffer(EMBER_AF_PRINT_CUSTOM3, (buffer), (len), (withSpace))
01160 #define emberAfCustom3PrintString(buffer)
01161     emberAfPrintString(EMBER_AF_PRINT_CUSTOM3, (buffer))
01161 #else
01162 #define emberAfCustom3Print(...)
01163 #define emberAfCustom3Println(...)
01164 #define emberAfCustom3Flush()
01165 #define emberAfCustom3DebugExec(x)
01166 #define emberAfCustom3PrintBuffer(buffer, len, withSpace)
01167 #define emberAfCustom3PrintString(buffer)
01168 #endif //defined(EMBER_AF_PRINT_ENABLE) && defined(EMBER_AF_PRINT_CUSTOM3)
01169
01170

```

9.45 demand-response-load-control.h File Reference

```
#include "load-control-event-table.h" #include "stack/include/ember-types.h"
```

Defines

- #define EVENT_OPT_IN_DEFAULT
- #define EMBER_AF_DRCLC_CLIENT_COMMANDS

Functions

- void **afReportEventStatusHandler** (int32u eventId, int8u eventCode, int32u startTime, int8u criticalityLevelApplied, int16s coolingTempSetPointApplied, int16s heatingTempSetPointApplied, int8s avgLoadAdjPercent, int8u dutyCycle, int8u eventControl, int8u messageLength, int8u *message, EmberSignatureData *signature)

9.45.1 Define Documentation

9.45.1.1 #define EVENT_OPT_IN_DEFAULT

Definition at line 13 of file [demand-response-load-control.h](#).

9.45.1.2 #define EMBER_AF_DRLC_CLIENT_COMMANDS

Definition at line 32 of file [demand-response-load-control.h](#).

9.45.2 Function Documentation

9.45.2.1 void afReportEventStatusHandler (int32u eventId, int8u eventCode, int32u startTime, int8u criticalityLevelApplied, int16s coolingTempSetPointApplied, int16s heatingTempSetPointApplied, int8s avgLoadAdjPercent, int8u dutyCycle, int8u eventControl, int8u messageLength, int8u * message, EmberSignatureData * signature)

9.46 demand-response-load-control.h

```

0001 // ****
0002 // * ami-demand-response-load-control.h
0003 // *
0004 // *
0005 // * Copyright 2007 by Ember Corporation. All rights reserved.
0006 // * 80*
0007
0008 #include "load-control-event-table.h"
0009
0010 // needed for EmberSignatureData
0011 #include "stack/include/ember-types.h"
0012
0013 #define EVENT_OPT_IN_DEFAULT 0x01
0014
0015 void afReportEventStatusHandler(int32u eventId,
0016                                     int8u eventCode,
0017                                     int32u startTime,
0018                                     int8u criticalityLevelApplied,
0019                                     int16s coolingTempSetPointApplied,
0020                                     int16s heatingTempSetPointApplied,
0021                                     int8s avgLoadAdjPercent,
0022                                     int8u dutyCycle,
0023                                     int8u eventControl,
0024                                     int8u messageLength,
0025                                     int8u* message,
0026                                     EmberSignatureData* signature);
0027
0028
0029 #ifndef EMBER_AF_PLUGIN_DRLC
0030     #define EMBER_AF_DRLC_CLIENT_COMMANDS {"clear_events",
0031         emAfCliClearEventsCommand,      "" },
0031 #else
0032     #define EMBER_AF_DRLC_CLIENT_COMMANDS
0033 #endif

```

9.47 drlc-callback.h File Reference

Functions

- boolean [emberAfPluginDrlcEventActionCallback](#) ([EmberAfLoadControlEvent](#) *loadControlEvent, [EmberAfAmiEventStatus](#) eventStatus, int8u sequenceNumber)

9.48 drlc-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00042 boolean emberAfPluginDrlcEventActionCallback(EmberAfLoadControlEvent *loadControlEvent,
00043                                     EmberAfAmiEventStatus eventStatus,
00044                                     int8u sequenceNumber);
00045
00046
00047

```

9.49 drlc-server.h File Reference

#include "../../include/af-types.h"

Defines

- #define EMBER_AF_PLUGIN_DRLC_SERVER_SCHEDULED_EVENT_TABLE_SIZE

Functions

- void emAfClearScheduledLoadControlEvents (void)
- EmberStatus emAfGetScheduledLoadControlEvent (int8u index, EmberAfLoadControlEvent *event)
- EmberStatus emAfSetScheduledLoadControlEvent (int8u index, const EmberAfLoadControlEvent *event)
- void emAfPluginDrlcServerPrintInfo (void)

9.49.1 Define Documentation

9.49.1.1 #define EMBER_AF_PLUGIN_DRLC_SERVER_SCHEDULED_EVENT_TABLE_SIZE

Definition at line 30 of file [drlc-server.h](#).

9.49.2 Function Documentation

9.49.2.1 void emAfClearScheduledLoadControlEvents (void)

9.49.2.2 EmberStatus emAfGetScheduledLoadControlEvent (int8u *index*, EmberAfLoadControlEvent * *event*)

9.49.2.3 EmberStatus emAfSetScheduledLoadControlEvent (int8u *index*, const EmberAfLoadControlEvent * *event*)

9.49.2.4 void emAfPluginDrlcServerPrintInfo (void)

9.50 drlc-server.h

```

00001 // ****
00002 // * drlc-server.h
00003 //
00004 // * This is an implementation of a drlc server which is intended to
00005 // * be used for testing only. Generally it is expected that the drlc
00006 // * server will act as a passthrough for drlc events and will not maintain
00007 // * a list of scheduled events of its own. However for testing purposes
00008 // * it is highly useful to have the server store scheduled events so that
00009 // * - minus a backend - the ESP can respond to get scheduled events
00010 // * commands.
00011 //
00012 // * There are a couple things about
00013 // * this code that make it incomplete as an actual drlc server table
00014 //
00015 // * 1. Scheduled events are not stored in persistent memory, which they
00016 // * would have to be if this were intended for an ESP which for some
00017 // * reason were storing events.
00018 //
00019 // * Note: The EmberAfLoadControlEvent source field is used by the plugin as a
00020 // * status field. If the first byte is set to 0xFF, then the event is
00021 // * considered inactive. If it is set to 0x00, then the event is considered
00022 // * active. Other bytes are used internally.
00023 //
00024 // * Copyright 2007 by Ember Corporation. All rights reserved.
00025 // ****
00026
00027 #include "../../include/af-types.h"
00028
00029 #ifndef EMBER_AF_PLUGIN_DRDLC_SERVER_SCHEDULED_EVENT_TABLE_SIZE
00030 #define EMBER_AF_PLUGIN_DRDLC_SERVER_SCHEDULED_EVENT_TABLE_SIZE 2
00031 #endif //EMBER_AF_PLUGIN_DRDLC_SERVER_SCHEDULED_EVENT_TABLE_SIZE
00032
00033 // used by the cli to clear all scheduled events in the drlc server
00034 void emAfClearScheduledLoadControlEvents(void);
00035
00036 // Retrieves the load control event at the given index.
00037 EmberStatus emAfGetScheduledLoadControlEvents(int8u index,
00038     EmberAfLoadControlEvent *event);
00039 // Sets the load control event at the given index. The first byte of the
00040 // source field should be set to 0x00 for active or 0xFF for inactive.
00041 EmberStatus emAfSetScheduledLoadControlEvents(int8u index, const
00042     EmberAfLoadControlEvent *event);
00043 void emAfPluginDrdlcServerPrintInfo(void);

```

9.51 enums.h File Reference

Enums

- enum [EmberAfCommissioningStartupControl](#) { [EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_NO_ACTION](#), [EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_FORM_NETWORK](#), [EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_REJOIN_NETWORK](#), [EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_START_FROM_SCRATCH](#) }
- enum [EmberAfMeteringBlockEnumerations](#) { [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_NO_BLOCKS_IN_USE](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK1](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK2](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK3](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK4](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK5](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK6](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK7](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK8](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK9](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK10](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK11](#), [EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK12](#) }

- BLOCK12, EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK13, EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK14, EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK15, EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK16 }
- enum EmberAfMeteringSupplyStatus { EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF, EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF_ARMED, EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_ON }
- enum EmberAfMeteringTemperatureUnitOfMeasure { EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN, EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS, EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT, EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN_BCD, EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS_BCD, EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT_BCD }
- enum EmberAfMeteringAlarmCode { EMBER_ZCL_METERING_ALARM_CODE_CHECK_METER, EMBER_ZCL_METERING_ALARM_CODE_LOW_BATTERY, EMBER_ZCL_METERING_ALARM_CODE_TAMPER_DETECT, EMBER_ZCL_METERING_ALARM_CODE_POWER_FAILURE_PIPE_EMPTY_TEMPERATURE_SENSOR, EMBER_ZCL_METERING_ALARM_CODE_POWER_QUALITY_LOW_PRESSURE_BURST_DETECT, EMBER_ZCL_METERING_ALARM_CODE_LEAK_DETECT, EMBER_ZCL_METERING_ALARM_CODE_SERVICE_DISCONNECT, EMBER_ZCL_METERING_ALARM_CODE_REVERSE_FLOW_FLOW_SENSOR, EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L1, EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L2, EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L2, EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L3, EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L3, EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L1, EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L2, EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L3, EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L1, EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L2, EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L2, EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L3, EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L3, EMBER_ZCL_METERING_ALARM_CODE_GROUND_FAULT, EMBER_ZCL_METERING_ALARM_CODE_ELECTRIC_TAMPER_DETECT, EMBER_ZCL_METERING_ALARM_CODE_BURST_DETECT, EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_LOW, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_COMMUNICATION_ERROR, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_MEASUREMENT_FAULT, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_REVERSE_FLOW, EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_AIR_DETECT, EMBER_ZCL_METERING_ALARM_CODE_PIPE_EMPTY, EMBER_ZCL_METERING_ALARM_CODE_INLET_TEMPERATURE_SENSOR_FAULT, EMBER_ZCL_METERING_ALARM_CODE_OUTLET_TEMPERATURE_SENSOR_FAULT }
- enum EmberAfMessagingControlTransmission { EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL, EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL_AND_ANONYMOUS, EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_ANONYMOUS, EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_RESERVED }
- enum EmberAfMessagingControlImportance { EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_LOW, EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_MEDIUM, EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_HIGH, EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_CRITICAL }
- enum EmberAfMessagingControlConfirmation { EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_NOT_REQUIRED, EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_REQUIRED }

- enum EmberAfOperatingMode { EMBER_ZCL_OPERATING_MODE_NORMAL, EMBER_ZCL_OPERATING_MODE_CONFIGURE }
- enum EmberAfStatus { EMBER_ZCL_STATUS_SUCCESS, EMBER_ZCL_STATUS_FAILURE, EMBER_ZCL_STATUS_REQUEST_DENIED, EMBER_ZCL_STATUS_MULTIPLE_REQUEST_NOT_ALLOWED, EMBER_ZCL_STATUS_INDICATION_REDIRECTION_TO_AP, EMBER_ZCL_STATUS_PREFERENCE_DENIED, EMBER_ZCL_STATUS_PREFERENCE_IGNORED, EMBER_ZCL_STATUS_NOT_AUTHORIZED, EMBER_ZCL_STATUS_RESERVED_FIELD_NOT_ZERO, EMBER_ZCL_STATUS_MALFORMED_COMMAND, EMBER_ZCL_STATUS_UNSUP_CLUSTER_COMMAND, EMBER_ZCL_STATUS_UNSUP_GENERAL_COMMAND, EMBER_ZCL_STATUS_UNSUP_MANUF_CLUSTER_COMMAND, EMBER_ZCL_STATUS_UNSUP_MANUF_GENERAL_COMMAND, EMBER_ZCL_STATUS_INVALID_FIELD, EMBER_ZCL_STATUS_UNSUPPORTED_ATTRIBUTE, EMBER_ZCL_STATUS_INVALID_VALUE, EMBER_ZCL_STATUS_READ_ONLY, EMBER_ZCL_STATUS_INSUFFICIENT_SPACE, EMBER_ZCL_STATUS_DUPLICATE_EXISTS, EMBER_ZCL_STATUS_NOT_FOUND, EMBER_ZCL_STATUS_UNREPORTABLE_ATTRIBUTE, EMBER_ZCL_STATUS_INVALID_DATA_TYPE, EMBER_ZCL_STATUS_INVALID_SELECTOR, EMBER_ZCL_STATUS_WRITE_ONLY, EMBER_ZCL_STATUS_INCONSISTENT_STARTUP_STATE, EMBER_ZCL_STATUS_DEFINED_OUT_OF_BAND, EMBER_ZCL_STATUS_ABORT, EMBER_ZCL_STATUS_INVALID_IMAGE, EMBER_ZCL_STATUS_WAIT_FOR_DATA, EMBER_ZCL_STATUS_NO_IMAGE_AVAILABLE, EMBER_ZCL_STATUS_REQUIRE_MORE_IMAGE, EMBER_ZCL_STATUS_HARDWARE_FAILURE, EMBER_ZCL_STATUS_SOFTWARE_FAILURE, EMBER_ZCL_STATUS_CALIBRATION_ERROR }
- enum EmberAfPowerSource { EMBER_ZCL_POWER_SOURCE_UNKNOWN, EMBER_ZCL_POWER_SOURCE_SINGLE_PHASE_MAINS, EMBER_ZCL_POWER_SOURCE_THREE_PHASE_MAINS, EMBER_ZCL_POWER_SOURCE_BATTERY, EMBER_ZCL_POWER_SOURCE_DC_SOURCE, EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_CONSTANT_POWER, EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_TRANSFER_SWITCH, EMBER_ZCL_POWER_SOURCE_BATTERY_BACKUP }
- enum EmberAfPhysicalEnvironment { EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNSPECIFIED, EMBER_ZCL_PHYSICAL_ENVIRONMENT_FIRST_PROFILE_SPECIFIED_VALUE, EMBER_ZCL_PHYSICAL_ENVIRONMENT_LAST_PROFILE_SPECIFIED_VALUE, EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNKNOWN }
- enum EmberAfBatterySize { EMBER_ZCL_BATTERY_SIZE_NO_BATTERY, EMBER_ZCL_BATTERY_SIZE_BUILT_IN, EMBER_ZCL_BATTERY_SIZE_OTHER, EMBER_ZCL_BATTERY_SIZE_AA, EMBER_ZCL_BATTERY_SIZE_AAA, EMBER_ZCL_BATTERY_SIZE_C, EMBER_ZCL_BATTERY_SIZE_D, EMBER_ZCL_BATTERY_SIZE_UNKNOWN }
- enum EmberAfSwitchType { EMBER_ZCL_SWITCH_TYPE_TOGGLE, EMBER_ZCL_SWITCH_TYPE_MOMENTARY, EMBER_ZCL_SWITCH_TYPE_MULTI_FUNCTION }
- enum EmberAfSwitchActions { EMBER_ZCL_SWITCH_ACTIONS_ON, EMBER_ZCL_SWITCH_ACTIONS_OFF, EMBER_ZCL_SWITCH_ACTIONS_TOGGLE }
- enum EmberAfMoveMode { EMBER_ZCL_MOVE_MODE_UP, EMBER_ZCL_MOVE_MODE_DOWN }
- enum EmberAfStepMode { EMBER_ZCL_STEP_MODE_UP, EMBER_ZCL_STEP_MODE_DOWN }
- enum EmberAfLocationMethod { EMBER_ZCL_LOCATION_METHOD_LATERATION, EMBER_ZCL_LOCATION_METHOD_SIGNPOSTING, EMBER_ZCL_LOCATION_METHOD_RF_FINGERPRINTING, EMBER_ZCL_LOCATION_METHOD_OUT_OF_BAND }
- enum EmberAfPumpOperationMode { EMBER_ZCL_PUMP_OPERATION_MODE_NORMAL, EMBER_ZCL_PUMP_OPERATION_MODE_MINIMUM, EMBER_ZCL_PUMP_OPERATION_MODE_MAXIMUM, EMBER_ZCL_PUMP_OPERATION_MODE_LOCAL }
- enum EmberAfPumpControlMode { EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_SPEED, EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_PRESSURE, EMBER_ZCL_PUMP_CONTROL_MODE_PROPORIONAL_PRESSURE, EMBER_ZCL_PUMP_CONTROL_MODE_PROPORIONAL_CURRENT }

- MODE_CONSTANT_FLOW, EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_TEMPERATURE, EMBER_ZCL_PUMP_CONTROL_MODE_AUTOMATIC }
- enum EmberAfThermostatControlSequence { EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_ONLY, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_WITH_REHEAT, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_ONLY, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_WITH_REHEAT, × EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING, EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING_WITH_REHEAT }
- enum EmberAfThermostatSystemMode { EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_OFF, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_AUTO, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_COOL, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_HEAT, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_EMERGENCY_HEATING, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_PRECOOLING, EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_FAN_ONLY }
- enum EmberAfSetpointAdjustMode { EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_SETPOINT, EMBER_ZCL_SETPOINT_ADJUST_MODE_COOL_SETPOINT, EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_AND_COOL_SETPOINTS }
- enum EmberAfFanMode { EMBER_ZCL_FAN_MODE_OFF, EMBER_ZCL_FAN_MODE_LOW, EMBER_ZCL_FAN_MODE_MEDIUM, EMBER_ZCL_FAN_MODE_HIGH, EMBER_ZCL_FAN_MODE_ON, EMBER_ZCL_FAN_MODE_AUTO, EMBER_ZCL_FAN_MODE_SMART }
- enum EmberAfFanModeSequence { EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH, EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH, EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH_AUTO, EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH_AUTO, EMBER_ZCL_FAN_MODE_SEQUENCE_ON_AUTO }
- enum EmberAfRelativeHumidityMode { EMBER_ZCL_RELATIVE_HUMIDITY_MODE_MEASURE_LOCALLY, EMBER_ZCL_RELATIVE_HUMIDITY_MODE_UPDATED_OVER_THE_NETWORK }
- enum EmberAfDehumidificationLockout { EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_NOT_ALLOWED, EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_ALLOWED }
- enum EmberAfRelativeHumidityDisplay { EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_NOT_DISPLAYED, EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_DISPLAYED }
- enum EmberAfTemperatureDisplayMode { EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_CELSIUS, EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_FAHRENHEIT }
- enum EmberAfKeypadLockout { EMBER_ZCL_KEYPAD_LOCKOUT_NO_LOCKOUT, EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_ONE_LOCKOUT, EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_TWO_LOCKOUT, EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_THREE_LOCKOUT, EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_FOUR_LOCKOUT, EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_FIVE_LOCKOUT }
- enum EmberAfHueDirection { EMBER_ZCL_HUE_DIRECTION_SHORTEST_DISTANCE, EMBER_ZCL_HUE_DIRECTION_LONGEST_DISTANCE, EMBER_ZCL_HUE_DIRECTION_UP, EMBER_ZCL_HUE_DIRECTION_DOWN }
- enum EmberAfHueMoveMode { EMBER_ZCL_HUE_MOVE_MODE_STOP, EMBER_ZCL_HUE_MOVE_MODE_UP, EMBER_ZCL_HUE_MOVE_MODE_DOWN }
- enum EmberAfHueStepMode { EMBER_ZCL_HUE_STEP_MODE_UP, EMBER_ZCL_HUE_STEP_MODE_DOWN }
- enum EmberAfSaturationMoveMode { EMBER_ZCL_SATURATION_MOVE_MODE_STOP, EMBER_ZCL_SATURATION_MOVE_MODE_UP, EMBER_ZCL_SATURATION_MOVE_MODE_DOWN }
- enum EmberAfSaturationStepMode { EMBER_ZCL_SATURATION_STEP_MODE_UP, EMBER_ZCL_SATURATION_STEP_MODE_DOWN }

- enum EmberAfColorMode { EMBER_ZCL_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION, EMBER_ZCL_COLOR_MODE_CURRENT_X_AND_CURRENT_Y, EMBER_ZCL_COLOR_MODE_COLOR_TEMPERATURE }
- enum EmberAfMeasurementLightSensorType { EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_PHOTODIODE, EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_CMOS }
- enum EmberAfLevelStatus { EMBER_ZCL_LEVEL_STATUS_ON_TARGET, EMBER_ZCL_LEVEL_STATUS_BELOW_TARGET, EMBER_ZCL_LEVEL_STATUS_ABOVE_TARGET }
- enum EmberAfSensingLightSensorType { EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_PHOTODIODE, EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_CMOS }
- enum EmberAfOccupancySensorType { EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR, EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_ULTRASONIC, EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR_AND_ULTRASONIC }
- enum EmberAflasZoneState { EMBER_ZCL_IAS_ZONE_STATE_NOT_ENROLLED, EMBER_ZCL_IAS_ZONE_STATE_ENROLLED }
- enum EmberAflasZoneType { EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_CIE, EMBER_ZCL_IAS_ZONE_TYPE_MOTION_SENSOR, EMBER_ZCL_IAS_ZONE_TYPE_CONTACT_SWITCH, EMBER_ZCL_IAS_ZONE_TYPE_FIRE_SENSOR, EMBER_ZCL_IAS_ZONE_TYPE_WATER_SENSOR, EMBER_ZCL_IAS_ZONE_TYPE_GAS_SENSOR, EMBER_ZCL_IAS_ZONE_TYPE_PERSONAL_EMERGENCY_DEVICE, EMBER_ZCL_IAS_ZONE_TYPE_VIBRATION_MOVEMENT_SENSOR, EMBER_ZCL_IAS_ZONE_TYPE_REMOTE_CONTROL, EMBER_ZCL_IAS_ZONE_TYPE_KEY_FOB, EMBER_ZCL_IAS_ZONE_TYPE_KEYPAD, EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_WARNING_DEVICE }
- enum EmberAflasEnrollResponseCode { EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_SUCCESS, EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NOT_SUPPORTED, EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NO_ENROLL_PERMIT, EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_TOO_MANY_ZONES }
- enum EmberAflasAceArmMode { EMBER_ZCL_IAS_ACE_ARM_MODE_DISARM, EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_DAY_HOME_ZONES_ONLY, EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_NIGHT_SLEEP_ZONES_ONLY, EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_ALL_ZONES }
- enum EmberAflasAceArmNotification { EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_DISARMED, EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_DAY_HOME_ZONES_ARMED, EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_NIGHT_SLEEP_ZONES_ARMED, EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_ARMED }
- enum EmberAfWarningMode { EMBER_ZCL_WARNING_MODE_STOP, EMBER_ZCL_WARNING_MODE_BURGLAR, EMBER_ZCL_WARNING_MODE_FIRE, EMBER_ZCL_WARNING_MODE_EMERGENCY }
- enum EmberAfWarningStobe { EMBER_ZCL_WARNING_STOBE_NO_STROBE, EMBER_ZCL_WARNING_STOBE_USE_STROBE }
- enum EmberAfSquawkMode { EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_ARMED, EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_DISARMED }
- enum EmberAfSquawkStobe { EMBER_ZCL_SQUAWK_STOBE_NO_STROBE, EMBER_ZCL_SQUAWK_STOBE_USE_STROBE }
- enum EmberAfSquawkLevel { EMBER_ZCL_SQUAWK_LEVEL_LOW_LEVEL, EMBER_ZCL_SQUAWK_LEVEL_MEDIUM_LEVEL, EMBER_ZCL_SQUAWK_LEVEL VERY_HIGH_LEVEL }
- enum EmberAfAmiCriticalityLevel { EMBER_ZCL_AMI_CRITICALITY_LEVEL_RESERVED, EMBER_ZCL_AMI_CRITICALITY_LEVEL_GREEN, EMBER_ZCL_AMI_CRITICALITY_LEVEL_1, EMBER_ZCL_AMI_CRITICALITY_LEVEL_2, EMBER_ZCL_AMI_CRITICALITY_LEVEL_3, EMBER_ZCL_AMI_CRITICALITY_LEVEL_4, EMBER_ZCL_AMI_CRITICALITY_LEVEL_5, EMBER_ZCL_AMI_CRITICALITY_LEVEL_EMERGENCY, EMBER_ZCL_AMI_CRITICALITY_LEVEL_EMERGENCY }

- `_AMI_CRITICALITY_LEVEL_PLANNED_OUTAGE, EMBER_ZCL_AMI_CRITICALITY_LEVEL_SERVICE_DISCONNECT, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED1, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED2, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED3, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED4, EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED5, - EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED6 }`
- enum `EmberAfAmiEventStatus` { `EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_RX, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_STARTED, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED, EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOSEN_TO_OPT_OUT, EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_CANCELED, EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_SUPERSEDED, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETED_WITH_USER_OPT_OUT, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETE_DUE_TO_USER_OPT_IN, EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED_NO_USER_PARTICIPATION_PREVIOUS_OPT_OUT, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND_INVALID_EFFECTIVE_TIME, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_EVENT_EXPIRED, EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_UNDEFINED_EVENT, EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_REJECTED }` }
- enum `EmberAfAmiUnitOfMeasure` { `EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GAUGE, EMBER_ZCL_AMI_UNIT_OF_MEASURE_ABSOLUTE, EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND, EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS, EMBER_ZCL_AMI_UNIT_OF_MEASURE_MJ_OR_MJ_PER_SECOND, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GUAGE_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS_BCD, EMBER_ZCL_AMI_UNIT_OF_MEASURE_MJ_OR_MJ_PER_SECOND_BCD }` }
- enum `EmberAfAmiIntervalPeriod` { `EMBER_ZCL_AMI_INTERVAL_PERIOD_DAILY, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES60, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES30, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES15, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES10, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES7P5, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES5, EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES2P5` }
- enum `EmberAfAmiIntervalChannel` { `EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_DELIVERED, EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_RECEIVED` }
- enum `EmberAfAmiRegistrationState` { `EMBER_ZCL_AMI_REGISTRATION_STATE_UNREGISTERED, EMBER_ZCL_AMI_REGISTRATION_STATE_JOINING_NETWORK, EMBER_Z` }

- CL_AMI_REGISTRATION_STATE_JOINED_NETWORK, EMBER_ZCL_AMI_REGISTRATION_STATE_SUBMITTED_REGISTRATION_REQUEST, EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTRATION_REJECTED, EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTERED, EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTRATION_NOT_POSSIBLE }
- enum EmberAfAnonymousDataState { EMBER_ZCL_ANONYMOUS_DATA_STATE_NO_SOURCE_FOUND, EMBER_ZCL_ANONYMOUS_DATA_STATE_SOURCE_FOUND }
- enum EmberAfPriceTier { EMBER_ZCL_PRICE_TIER_NO_TIER RELATED, EMBER_ZCL_PRICE_TIER_TIER1_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER2_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER3_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER4_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER5_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER6_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER7_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER8_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER9_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER10_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER11_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER12_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER13_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER14_PRICE_LABEL, EMBER_ZCL_PRICE_TIER_TIER15_PRICE_LABEL }
- enum EmberAfPriceControlAcknowledgement { EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMENT_NOT_REQUIRED, EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMENT_REQUIRED }
- enum EmberAfRegisterTier { EMBER_ZCL_REGISTER_TIER_NO_TIER RELATED, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER1_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER4_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER5_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER6_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER7_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER8_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER9_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE, EMBER_ZCL_REGISTER_TIER_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE }
- enum EmberAfAlternateCostUnit { EMBER_ZCL_ALTERNATE_COST_UNIT_KG_OF_CO2_PER_UNIT_OF_MEASURE }
- enum EmberAfAmiKeyEstablishmentStatus { EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_SUCCESS, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNKNOWN_ISSUER, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_KEY_CONFIRM, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_MESSAGE, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_NO_RESOURCES, EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNSUPPORTED_SUITE }
- enum EmberAfAmiGetProfileStatus { EMBER_ZCL_AMI_GET_PROFILE_STATUS_SUCCESS, EMBER_ZCL_AMI_GET_PROFILE_STATUS_UNDEFINED_INTERVAL_CHANNEL_REQUESTED, EMBER_ZCL_AMI_GET_PROFILE_STATUS_INTERVAL_CHANNEL_NOT_SUPPORTED, EMBER_ZCL_AMI_GET_PROFILE_STATUS_INVALID_END_TIME, EMBER_ZCL_AMI_GET_PROFILE_STATUS_MORE_PERIODS_REQUESTED_THAN_CAN_BE_RETURNED, EMBER_ZCL_AMI_GET_PROFILE_STATUS_NO_INTERVALS_AVAILABLE_FOR_THE_REQUESTED_TIME }

- enum EmberAfAttributeWritePermission { EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_DENY_WRITE, EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_ALLOW_WRITE_NORMAL, EMBER_ZCL_ATTRIBUTE_WRITE_PERMISSION_ALLOW_WRITE_OF_READ_ONLY }
- enum EmberAfMeterDeviceType { EMBER_ZCL_METER_DEVICE_TYPE ELECTRIC_METER, EMBER_ZCL_METER_DEVICE_TYPE GAS_METER, EMBER_ZCL_METER_DEVICE_TYPE_WATER_METER, EMBER_ZCL_METER_DEVICE_TYPE_THERMAL_METER, EMBER_ZCL_METER_DEVICE_TYPE_PRESSURE_METER, EMBER_ZCL_METER_DEVICE_TYPE_HEAT_METER, EMBER_ZCL_METER_DEVICE_TYPE_COOLING_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_GAS_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_WATER_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_THERMAL_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_PRESSURE_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_HEAT_METER, EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_COOLING_METER, EMBER_ZCL_METER_DEVICE_TYPE_UNDEFINED_MIRROR_METER }
- enum EmberAfTunnelingProtocolId { EMBER_ZCL_TUNNELING_PROTOCOL_ID_DLMS_C_OSEM, EMBER_ZCL_TUNNELING_PROTOCOL_ID_IEC_61107, EMBER_ZCL_TUNNELING_PROTOCOL_ID_ANSI_C12, EMBER_ZCL_TUNNELING_PROTOCOL_ID_M_BUS, EMBER_ZCL_TUNNELING_PROTOCOL_ID_SML, EMBER_ZCL_TUNNELING_PROTOCOL_ID_CLIMATE_TALK, EMBER_ZCL_TUNNELING_PROTOCOL_ID_TEST }
- enum EmberAfTunnelingTransferDataStatus { EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_NO SUCH_TUNNEL, EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_WRONG_DEVICE, EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_DATA_OVERFLOW }
- enum EmberAfTunnelingTunnelStatus { EMBER_ZCL_TUNNELING_TUNNEL_STATUS_SUCCESS, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_BUSY, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_NO_MORE_TUNNEL_IDS, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_PROTOCOL_NOT_SUPPORTED, EMBER_ZCL_TUNNELING_TUNNEL_STATUS_FLOW_CONTROL_NOT_SUPPORTED }
- enum EmberAfPrepaymentRecoveryPeriod { EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_HOUR, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_DAY, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_WEEK, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_MONTH, EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_QUARTER }
- enum EmberAfPrepaymentOriginatingDevice { EMBER_ZCL_PREPAYMENT_ORIGINATING DEVICE_ENERGY_SERVICE_INTERFACE, EMBER_ZCL_PREPAYMENT_ORIGINATING DEVICE_IN_PREMISES_DISPLAY_DEVICE }
- enum EmberAfPrepaymentSupplyStatus { EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF, EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF_ARMED, EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_ON }
- enum EmberAfReportingDirection { EMBER_ZCL_REPORTING_DIRECTION_REPORTED, EMBER_ZCL_REPORTING_DIRECTION_RECEIVED }
- enum EmberAfSignatureType { EMBER_ZCL_SIGNATURE_TYPE_RESERVED, EMBER_ZCL_SIGNATURE_TYPE_ECDSA }
- enum EmberAfPowerProfileState { EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_WAITING_TO_START, EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_STARTED, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_RUNNING, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_ENDED, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_WAITING_TO_START, EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_STARTED, EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_ENDED, EMBER_ZCL_POWER_PROFILE_STATE_PROFILE_READY_FOR_SCHEDULING, EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_SCHEDULED }

- enum `EmberAfApplianceStatus` { `EMBER_ZCL_APPLIANCE_STATUS_OFF`, `EMBER_ZCL_APPLIANCE_STATUS_STAND_BY`, `EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED`, `EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED_WAITING_TO_START`, `EMBER_ZCL_APPLIANCE_STATUS_RUNNING`, `EMBER_ZCL_APPLIANCE_STATUS_PAUSE`, `EMBER_ZCL_APPLIANCE_STATUS_END_PROGRAMMED`, `EMBER_ZCL_APPLIANCE_STATUS_STATUS_FAILURE`, `EMBER_ZCL_APPLIANCE_STATUS_PROGRAMME_INTERRUPTED`, `EMBER_ZCL_APPLIANCE_STATUS_IDLE`, `EMBER_ZCL_APPLIANCE_STATUS_RINSE_HOLD`, `EMBER_ZCL_APPLIANCE_STATUS_SERVICE`, `EMBER_ZCL_APPLIANCE_STATUS_SUPERFREEZING`, `EMBER_ZCL_APPLIANCE_STATUS_SUPERCOOLING`, `EMBER_ZCL_APPLIANCE_STATUS_SUPERHEATING` }
- enum `EmberAfRemoteEnableFlags` { `EMBER_ZCL_REMOTE_ENABLE_FLAGS_DISABLED`, `EMBER_ZCL_REMOTE_ENABLE_FLAGS_TEMPORARILY_LOCKED_DISABLED`, `EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_CONTROL`, `EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_AND_ENERGY_CONTROL` }
- enum `EmberAfDeviceStatus2Structure` { `EMBER_ZCL_DEVICE_STATUS2_STRUCTURE_IRIS_SYMPTOM_CODE` }
- enum `EmberAfTimeEncoding` { `EMBER_ZCL_TIME_ENCODING_RELATIVE`, `EMBER_ZCL_TIME_ENCODING_ABSOLUTE` }
- enum `EmberAfCommandIdentification` { `EMBER_ZCL_COMMAND_IDENTIFICATION_START`, `EMBER_ZCL_COMMAND_IDENTIFICATION_STOP`, `EMBER_ZCL_COMMAND_IDENTIFICATION_PAUSE`, `EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERFREEZING`, `EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERFREEZING`, `EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERCOOLING`, `EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERCOOLING`, `EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_GAS`, `EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_GAS`, `EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_ENERGY_CONTROL`, `EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_ENERGY_CONTROL` }
- enum `EmberAfWarningEvent` { `EMBER_ZCL_WARNING_EVENT_WARNING1_OVERALL_POWER_ABOVE_AVAILABLE_POWER_LEVEL`, `EMBER_ZCL_WARNING_EVENT_WARNING2_OVERALL_POWER_ABOVE_POWER_THRESHOLD_LEVEL`, `EMBER_ZCL_WARNING_EVENT_WARNING3_OVERALL_POWER_BACK_BELOW_THE_AVAILABLE_POWER_LEVEL`, `EMBER_ZCL_WARNING_EVENT_WARNING4_OVERALL_POWER_BACK_BELOW_THE_POWER_THRESHOLD_LEVEL`, `EMBER_ZCL_WARNING_EVENT_WARNING5_OVERALL_POWER_WILL_BE_POTENTIALLY_ABOVE_AVAILABLE_POWER_LEVEL_IF_THE_APPLIANCE_STARTS` }
- enum `EmberAfSilentMode` { `EMBER_ZCL_SILENT_MODE_SILENT`, `EMBER_ZCL_SILENT_MODE_LOW`, `EMBER_ZCL_SILENT_MODE_HIGH` }
- enum `EmberAfDoorLockOperatingMode` { `EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NORMAL_MODE`, `EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_VACATION_MODE`, `EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_PRIVACY_MODE`, `EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NO_RF_LOCK_OR_UNLOCK` }
- enum `EmberAfLanguage` { `EMBER_ZCL_LANGUAGE_ENGLISH`, `EMBER_ZCL_LANGUAGE_FRENCH`, `EMBER_ZCL_LANGUAGE_SPANISH` }
- enum `EmberAfDayOfWeek` { `EMBER_ZCL_DAY_OF_WEEK_SUNDAY`, `EMBER_ZCL_DAY_OF_WEEK_MONDAY`, `EMBER_ZCL_DAY_OF_WEEK_TUESDAY`, `EMBER_ZCL_DAY_OF_WEEK_WEDNESDAY`, `EMBER_ZCL_DAY_OF_WEEK_THURSDAY`, `EMBER_ZCL_DAY_OF_WEEK_FRIDAY`, `EMBER_ZCL_DAY_OF_WEEK_SATURDAY` }
- enum `EmberAfUserStatus` { `EMBER_ZCL_USER_STATUS_AVAILABLE`, `EMBER_ZCL_USER_STATUS_OCCUPIED_ENABLED`, `EMBER_ZCL_USER_STATUS_OCCUPIED_DISABLED`, `EMBER_ZCL_USER_STATUS_SUPERVISOR_GROUP_DISABLED`, `EMBER_ZCL_USER_STATUS_GROUP_ONLY_DISABLED` }
- enum `EmberAfSlotStatus` { `EMBER_ZCL_SLOT_STATUS_DISABLE`, `EMBER_ZCL_SLOT_STATUS_ENABLE` }

- enum EmberAfLockMode { EMBER_ZCL_LOCK_MODE_UNLOCKED, EMBER_ZCL_LOCK_MODE_UNLOCKED_WITH_RELOCK_PENDING, EMBER_ZCL_LOCK_MODE_LOCKED }
- enum EmberAfBoltCondition { EMBER_ZCL_BOLT_CONDITION_RERTRACTED, EMBER_ZCL_BOLT_CONDITION_EXTENDED }
- enum EmberAfHandleCondition { EMBER_ZCL_HANDLE_CONDITION_UNKNOWN }
- enum EmberAfEventType { EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_LOCK_COMMAND, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_UNLOCK_COMMAND, EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_LOCK_BUTTON_PRESSED, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_UNLOCK_BUTTON_PRESSED, EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE, EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ILLEGAL_ACCESS_CODE_ENTERED, EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_LOCKED_MANUAL, EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_UNLOCKED_MANUAL, EMBER_ZCL_EVENT_TYPE_AUTO_LOCK_OPERATION, EMBER_ZCL_EVENT_TYPE_AUTO_UNLOCK_OPERATION, EMBER_ZCL_EVENT_TYPE_LOCK_SECURED, EMBER_ZCL_EVENT_TYPE_LOCK_UNSECURED, EMBER_ZCL_EVENT_TYPE_USER_CODE_ADDED, EMBER_ZCL_EVENT_TYPE_USER_CODE_DELETED, EMBER_ZCL_EVENT_TYPE_ALL_USER_CODES_DELETED, EMBER_ZCL_EVENT_TYPE_MASTER_CODE_CHANGED, EMBER_ZCL_EVENT_TYPE_USER_CODE_CHANGED, EMBER_ZCL_EVENT_TYPE_LOCK_RESET, EMBER_ZCL_EVENT_TYPE_CONFIGURATION_CHANGED, EMBER_ZCL_EVENT_TYPE_LOW_BATTERY, EMBER_ZCL_EVENT_TYPE_NEW_BATTERY_INSTALLED }
- enum EmberAfThermostatRunningMode { EMBER_ZCL_THERMOSTAT_RUNNING_MODE_OFF, EMBER_ZCL_THERMOSTAT_RUNNING_MODE_COOL, EMBER_ZCL_THERMOSTAT_RUNNING_MODE_HEAT }
- enum EmberAfStartOfWeek { EMBER_ZCL_START_OF_WEEK_SUNDAY, EMBER_ZCL_START_OF_WEEK_MONDAY, EMBER_ZCL_START_OF_WEEK_TUESDAY, EMBER_ZCL_START_OF_WEEK_WEDNESDAY, EMBER_ZCL_START_OF_WEEK_THURSDAY, EMBER_ZCL_START_OF_WEEK_FRIDAY, EMBER_ZCL_START_OF_WEEK_SATURDAY }
- enum EmberAfTemperatureSetpointHold { EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_OFF, EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_ON }
- enum EmberAfProductTypeId { EMBER_ZCL_PRODUCT_TYPE_ID_WHITE_GOODS, EMBER_ZCL_PRODUCT_TYPE_ID_DISHWASHER, EMBER_ZCL_PRODUCT_TYPE_ID_TUMBLE_DRYER, EMBER_ZCL_PRODUCT_TYPE_ID_WASHER_DRYER, EMBER_ZCL_PRODUCT_TYPE_ID_WASHING_MACHINE, EMBER_ZCL_PRODUCT_TYPE_ID_HOBS, EMBER_ZCL_PRODUCT_TYPE_ID_INDUCTION_HOBS, EMBER_ZCL_PRODUCT_TYPE_ID_OVEN, EMBER_ZCL_PRODUCT_TYPE_ID_ELECTRICAL_OVEN, EMBER_ZCL_PRODUCT_TYPE_ID_REFRIGERATOR_FREEZER }
- enum EmberAfCecedSpecificationVersion { EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_NOT_CERTIFIED, EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_CERTIFIED }
- enum EmberAfMeterTypeId { EMBER_ZCL_METER_TYPE_ID.Utility_PRIMARY_METER, EMBER_ZCL_METER_TYPE_ID.Utility_PRODUCTION_METER, EMBER_ZCL_METER_TYPE_ID.Utility_SECONDARY_METER, EMBER_ZCL_METER_TYPE_ID_Private_PRIMARY_METER, EMBER_ZCL_METER_TYPE_ID_Private_PRODUCTION_METER, EMBER_ZCL_METER_TYPE_ID_Private_SECONDARY_METERS, EMBER_ZCL_METER_TYPE_ID_Generic_METER }
- enum EmberAfDataQualityId { EMBER_ZCL_DATA_QUALITY_ID_ALL_DATA_CERTIFIED, EMBER_ZCL_DATA_QUALITY_ID_ONLY_INSTANTANEOUS_POWER_NOT_CERTIFIED, EMBER_ZCL_DATA_QUALITY_ID_ONLY_CUMULATED_CONSUMPTION_NOT_CERTIFIED, EMBER_ZCL_DATA_QUALITY_ID_NOT_CERTIFIED_DATA }

- enum `EmberAfAlertStructureCategory` { `EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_WARNING`, `EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_DANGER`, `EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_FAILURE` }
- enum `EmberAfAlertStructurePresenceRecovery` { `EMBER_ZCL_ALERT_STRUCTURE_PRESENCE_RECOVERY_PRESENCE`, `EMBER_ZCL_ALERT_STRUCTURE_PRESENCE_RECOVERY_RECOVERY` }
- enum `EmberAfAlertCountType` { `EMBER_ZCL_ALERT_COUNT_TYPE_UNSTRUCTURED` }
- enum `EmberAfEventIdentification` { `EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_CYCLE`, `EMBER_ZCL_EVENT_IDENTIFICATION_TEMPERATURE_REACHED`, `EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_COOKING`, `EMBER_ZCL_EVENT_IDENTIFICATION_SWITCHING_OFF`, `EMBER_ZCL_EVENT_IDENTIFICATION_WRONG_DATA` }
- enum `EmberAfIdentifyEffectIdentifier` { `EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BLINK`, `EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BREATHE`, `EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_OKAY`, `EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_CHANNEL_CHANGE`, `EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_FINISH_EFFECT`, `EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_STOP_EFFECT` }
- enum `EmberAfIdentifyEffectVariant` { `EMBER_ZCL_IDENTIFY_EFFECT_VARIANT_DEFAULT` }
- enum `EmberAfOnOffEffectIdentifier` { `EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DELAYED_ALL_OFF`, `EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DYING_LIGHT` }
- enum `EmberAfOnOffDelayedAllOffEffectVariant` { `EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_FADE_TO_OFF_IN_0P8_SECONDS`, `EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_NO_FADE`, `EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_50_PERCENT_DIM_DOWN_IN_0P8_SECONDS_THEN_FADE_TO_OFF_IN_12_SECONDS` }
- enum `EmberAfOnOffDyingLightEffectVariant` { `EMBER_ZCL_ON_OFF_DYING_LIGHT_EFFECT_VARIANT_20_PERCENTER_DIM_UP_IN_0P5_SECONDS_THEN_FADE_TO_OFF_IN_1_SECOND` }
- enum `EmberAfEnhancedColorMode` { `EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION`, `EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_X_AND_CURRENT_Y`, `EMBER_ZCL_ENHANCED_COLOR_MODE_COLOR_TEMPERATURE`, `EMBER_ZCL_ENHANCED_COLOR_MODE_ENHANCED_CURRENT_HUE_AND_CURRENT_SATURATION` }
- enum `EmberAfColorLoopAction` { `EMBER_ZCL_COLOR_LOOP_ACTION_DEACTIVATE`, `EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_COLOR_LOOP_START_ENHANCED_HUE`, `EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_ENHANCED_CURRENT_HUE` }
- enum `EmberAfColorLoopDirection` { `EMBER_ZCL_COLOR_LOOP_DIRECTION_DECREMENT_HUE`, `EMBER_ZCL_COLOR_LOOP_DIRECTION_INCREMENT_HUE` }
- enum `EmberAfZigbeeInformationLogicalType` { `EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_COORDINATOR`, `EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_ROUTER`, `EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_END_DEVICE` }
- enum `EmberAfKeyIndex` { `EMBER_ZCL_KEY_INDEX DEVELOPMENT`, `EMBER_ZCL_KEY_INDEX_MASTER`, `EMBER_ZCL_KEY_INDEX_CERTIFICATION` }
- enum `EmberAfDeviceInformationRecordSort` { `EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_NOT_SORTED`, `EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_TOP_OF_THE_LIST` }
- enum `EmberAfZllStatus` { `EMBER_ZCL_ZLL_STATUS_SUCCESS`, `EMBER_ZCL_ZLL_STATUS_FAILURE` }

9.52 enums.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_ENUMS__
00009 #define __EMBER_AF_ENUMS__
00010
00011
00012 // @{
00013
00014
00015
00016
00017
00018
00019
00020 typedef enum {
00021     EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_NO_ACTION      = 0x00,
00022     EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_FORM_NETWORK    = 0x01,
00023     EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_REJOIN_NETWORK  = 0x02,
00024     EMBER_ZCL_COMMISSIONING_STARTUP_CONTROL_START_FROM_SCRATCH = 0x03
00025 } EmberAfCommissioningStartupControl;
00026
00027 typedef enum {
00028     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_NO_BLOCKS_IN_USE   = 0x00,
00029     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK1              = 0x01,
00030     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK2              = 0x02,
00031     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK3              = 0x03,
00032     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK4              = 0x04,
00033     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK5              = 0x05,
00034     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK6              = 0x06,
00035     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK7              = 0x07,
00036     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK8              = 0x08,
00037     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK9              = 0x09,
00038     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK10             = 0x0A,
00039     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK11             = 0x0B,
00040     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK12             = 0x0C,
00041     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK13             = 0x0D,
00042     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK14             = 0x0E,
00043     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK15             = 0x0F,
00044     EMBER_ZCL_METERING_BLOCK_ENUMERATIONS_BLOCK16             = 0x10
00045 } EmberAfMeteringBlockEnumerations;
00046
00047 typedef enum {
00048     EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF           = 0x00,
00049     EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_OFF_ARMED     = 0x01,
00050     EMBER_ZCL_METERING_SUPPLY_STATUS_SUPPLY_ON            = 0x02
00051 } EmberAfMeteringSupplyStatus;
00052
00053 typedef enum {
00054     EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN = 0x00,
00055     EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS  = 0x01,
00056     EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT = 0x02,
00057     EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_KELVIN_BCD = 0x80,
00058     EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_CELSIUS_BCD = 0x81,
00059     EMBER_ZCL_METERING_TEMPERATURE_UNIT_OF_MEASURE_FAHRENHEIT_BCD = 0x82
00060 } EmberAfMeteringTemperatureUnitOfMeasure;
00061
00062 typedef enum {
00063     EMBER_ZCL_METERING_ALARM_CODE_CHECK_METER           = 0x00,
00064     EMBER_ZCL_METERING_ALARM_CODE_LOW_BATTERY          = 0x01,
00065     EMBER_ZCL_METERING_ALARM_CODE_TAMPER_DETECT        = 0x02,
00066     EMBER_ZCL_METERING_ALARM_CODE_POWER_FAILURE_PIPE_EMPTY_TEMPERATURE_SENSOR = 0x03,
00067     EMBER_ZCL_METERING_ALARM_CODE_POWER_QUALITY_LOW_PRESSURE_BURST_DETECT = 0x04,
00068     EMBER_ZCL_METERING_ALARM_CODE_LEAK_DETECT          = 0x05,
00069     EMBER_ZCL_METERING_ALARM_CODE_SERVICE_DISCONNECT    = 0x06,
00070     EMBER_ZCL_METERING_ALARM_CODE_REVERSE_FLOW_FLOW_SENSOR = 0x07,
00071     EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L1       = 0x10,
00072     EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L1      = 0x11,
00073     EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L2       = 0x12

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0x12,
00074 EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L2 = 0x13,
00075 EMBER_ZCL_METERING_ALARM_CODE_LOW_VOLTAGE_L3 = 0x14,
00076 EMBER_ZCL_METERING_ALARM_CODE_HIGH_VOLTAGE_L3 = 0x15,
00077 EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L1 = 0x16,
00078 EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L2 = 0x17,
00079 EMBER_ZCL_METERING_ALARM_CODE_OVER_CURRENT_L3 = 0x18,
00080 EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L1 = 0x19,
00081 EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L1 = 0x1A,
00082 EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L2 = 0x1B,
00083 EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L2 = 0x1C,
00084 EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_LOW_L3 = 0x1D,
00085 EMBER_ZCL_METERING_ALARM_CODE_FREQUENCY_TOO_HIGH_L3 = 0x1E,
00086 EMBER_ZCL_METERING_ALARM_CODE_GROUND_FAULT = 0x1F,
00087 EMBER_ZCL_METERING_ALARM_CODE_ELECTRIC_TAMPER_DETECT = 0x20,
00088 EMBER_ZCL_METERING_ALARM_CODE_BURST_DETECT = 0x30,
00089 EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_LOW = 0x31,
00090 EMBER_ZCL_METERING_ALARM_CODE_PRESSURE_TOO_HIGH = 0x32,
00091 EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_COMMUNICATION_ERROR = 0x33,
00092 EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_MEASUREMENT_FAULT = 0x34,
00093 EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_REVERSE_FLOW = 0x35,
00094 EMBER_ZCL_METERING_ALARM_CODE_FLOW_SENSOR_AIR_DETECT = 0x36,
00095 EMBER_ZCL_METERING_ALARM_CODE_PIPE_EMPTY = 0x37,
00096 EMBER_ZCL_METERING_ALARM_CODE_INLET_TEMPERATURE_SENSOR_FAULT = 0x50,
00097 EMBER_ZCL_METERING_ALARM_CODE_OUTLET_TEMPERATURE_SENSOR_FAULT = 0x51
00098 } EmberAfMeteringAlarmCode;
00099
00100 typedef enum {
00101 EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL = 0x00,
00102 EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_NORMAL_AND_ANONYMOUS = 0x01,
00103 EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_ANONYMOUS = 0x02,
00104 EMBER_ZCL_MESSAGING_CONTROL_TRANSMISSION_RESERVED = 0x03
00105 } EmberAfMessagingControlTransmission;
00106
00107 typedef enum {
00108 EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_LOW = 0x00,
00109 EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_MEDIUM = 0x04,
00110 EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_HIGH = 0x08,
00111 EMBER_ZCL_MESSAGING_CONTROL_IMPORTANCE_CRITICAL = 0x0C
00112 } EmberAfMessagingControlImportance;
00113
00114 typedef enum {
00115 EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_NOT_REQUIRED = 0x00,
00116 EMBER_ZCL_MESSAGING_CONTROL_CONFIRMATION_REQUIRED = 0x80
00117 } EmberAfMessagingControlConfirmation;
00118
00119 typedef enum {
00120 EMBER_ZCL_OPERATING_MODE_NORMAL = 0x00,
00121 EMBER_ZCL_OPERATING_MODE_CONFIGURE = 0x01
00122 } EmberAfOperatingMode;
00123
00124 typedef enum {
00125 EMBER_ZCL_STATUS_SUCCESS = 0x00,
00126 EMBER_ZCL_STATUS_FAILURE = 0x01,
00127 EMBER_ZCL_STATUS_REQUEST_DENIED = 0x70,
00128 EMBER_ZCL_STATUS_MULTIPLE_REQUEST_NOT_ALLOWED = 0x71,

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00129 EMBER_ZCL_STATUS_INDICATION_REDIRECTION_TO_AP      = 0x72,
00130 EMBER_ZCL_STATUS_PREFERENCE_DENIED                 = 0x73,
00131 EMBER_ZCL_STATUS_PREFERENCE_IGNORED               = 0x74,
00132 EMBER_ZCL_STATUS_NOT_AUTHORIZED                  = 0x7E,
00133 EMBER_ZCL_STATUS_RESERVED_FIELD_NOT_ZERO          = 0x7F,
00134 EMBER_ZCL_STATUS_MALFORMED_COMMAND                = 0x80,
00135 EMBER_ZCL_STATUS_UNSUP_CLUSTER_COMMAND            = 0x81,
00136 EMBER_ZCL_STATUS_UNSUP_GENERAL_COMMAND             = 0x82,
00137 EMBER_ZCL_STATUS_UNSUP_MANUF_CLUSTER_COMMAND       = 0x83,
00138 EMBER_ZCL_STATUS_UNSUP_MANUF_GENERAL_COMMAND        = 0x84,
00139 EMBER_ZCL_STATUS_INVALID_FIELD                    = 0x85,
00140 EMBER_ZCL_STATUS_UNSUPPORTED_ATTRIBUTE              = 0x86,
00141 EMBER_ZCL_STATUS_INVALID_VALUE                     = 0x87,
00142 EMBER_ZCL_STATUS_READ_ONLY                        = 0x88,
00143 EMBER_ZCL_STATUS_INSUFFICIENT_SPACE                = 0x89,
00144 EMBER_ZCL_STATUS_DUPLICATE_EXISTS                 = 0x8A,
00145 EMBER_ZCL_STATUS_NOT_FOUND                       = 0x8B,
00146 EMBER_ZCL_STATUS_UNREPORTABLE_ATTRIBUTE            = 0x8C,
00147 EMBER_ZCL_STATUS_INVALID_DATA_TYPE                 = 0x8D,
00148 EMBER_ZCL_STATUS_INVALID_SELECTOR                  = 0x8E,
00149 EMBER_ZCL_STATUS_WRITE_ONLY                      = 0x8F,
00150 EMBER_ZCL_STATUS_INCONSISTENT_STARTUP_STATE       = 0x90,
00151 EMBER_ZCL_STATUS_DEFINED_OUT_OF_BAND              = 0x91,
00152 EMBER_ZCL_STATUS_ABORT                           = 0x95,
00153 EMBER_ZCL_STATUS_INVALID_IMAGE                   = 0x96,
00154 EMBER_ZCL_STATUS_WAIT_FOR_DATA                  = 0x97,
00155 EMBER_ZCL_STATUS_NO_IMAGE_AVAILABLE              = 0x98,
00156 EMBER_ZCL_STATUS_REQUIRE_MORE_IMAGE              = 0x99,
00157 EMBER_ZCL_STATUS_HARDWARE_FAILURE                = 0xC0,
00158 EMBER_ZCL_STATUS_SOFTWARE_FAILURE                = 0xC1,
00159 EMBER_ZCL_STATUS_CALIBRATION_ERROR              = 0xC2
00160 } EmberAfStatus;
00161
00162 typedef enum {
00163 EMBER_ZCL_POWER_SOURCE_UNKNOWN                  = 0x00,
00164 EMBER_ZCL_POWER_SOURCE_SINGLE_PHASE_MAINS        = 0x01,
00165 EMBER_ZCL_POWER_SOURCE_THREE_PHASE_MAINS         = 0x02,
00166 EMBER_ZCL_POWER_SOURCE_BATTERY                  = 0x03,
00167 EMBER_ZCL_POWER_SOURCE_DC_SOURCE                 = 0x04,
00168 EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_CONSTANT_POWER = 0x05,
00169 EMBER_ZCL_POWER_SOURCE_EMERGENCY_MAINS_TRANSFER_SWITCH = 0x06,
00170 EMBER_ZCL_POWER_SOURCE_BATTERY_BACKUP            = 0x80
00171 } EmberAfPowerSource;
00172
00173 typedef enum {
00174 EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNSPECIFIED      = 0x00,
00175 EMBER_ZCL_PHYSICAL_ENVIRONMENT_FIRST_PROFILE_SPECIFIED_VALUE = 0x01,
00176 EMBER_ZCL_PHYSICAL_ENVIRONMENT_LAST_PROFILE_SPECIFIED_VALUE = 0x7F,
00177 EMBER_ZCL_PHYSICAL_ENVIRONMENT_UNKNOWN            = 0xFF
00178 } EmberAfPhysicalEnvironment;
00179
00180 typedef enum {
00181 EMBER_ZCL_BATTERY_SIZE_NO_BATTERY                = 0x00,
00182 EMBER_ZCL_BATTERY_SIZE_BUILT_IN                  = 0x01,
00183 EMBER_ZCL_BATTERY_SIZE_OTHER                     = 0x02,
00184 EMBER_ZCL_BATTERY_SIZE_AA                        = 0x03,
00185 EMBER_ZCL_BATTERY_SIZE_AAA                       = 0x04,
00186 EMBER_ZCL_BATTERY_SIZE_C                         = 0x05,
00187 EMBER_ZCL_BATTERY_SIZE_D                         = 0x06,
00188 EMBER_ZCL_BATTERY_SIZE_UNKNOWN                  = 0xFF
00189 } EmberAfBatterySize;
00190
00191 typedef enum {
00192 EMBER_ZCL_SWITCH_TYPE_TOGGLE                     = 0x00,
00193 EMBER_ZCL_SWITCH_TYPE_MOMENTARY                 = 0x01,
00194 EMBER_ZCL_SWITCH_TYPE_MULTI_FUNCTION              = 0x02
00195 } EmberAfSwitchType;
00196
00197 typedef enum {
00198 EMBER_ZCL_SWITCH_ACTIONS_ON                     = 0x00,
00199 EMBER_ZCL_SWITCH_ACTIONS_OFF                    = 0x01,
00200 EMBER_ZCL_SWITCH_ACTIONS_TOGGLE                 = 0x02
00201 } EmberAfSwitchActions;
00202
00203 typedef enum {
00204 EMBER_ZCL_MOVE_MODE_UP                          = 0x00,
00205 EMBER_ZCL_MOVE_MODE_DOWN                        = 0x01
00206 } EmberAfMoveMode;
00207
00208 typedef enum {

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00209 EMBER_ZCL_STEP_MODE_UP      = 0x00,
00210 EMBER_ZCL_STEP_MODE_DOWN    = 0x01
00211 } EmberAfStepMode;
00212
00213 typedef enum {
00214   EMBER_ZCL_LOCATION_METHOD_LATERATION      = 0x00,
00215   EMBER_ZCL_LOCATION_METHOD_SIGNPOSTING     = 0x01,
00216   EMBER_ZCL_LOCATION_METHOD_RF_FINGERPRINTING = 0x02,
00217   EMBER_ZCL_LOCATION_METHOD_OUT_OF_BAND      = 0x03
00218 } EmberAfLocationMethod;
00219
00220 typedef enum {
00221   EMBER_ZCL_PUMP_OPERATION_MODE_NORMAL      = 0x00,
00222   EMBER_ZCL_PUMP_OPERATION_MODE_MINIMUM     = 0x01,
00223   EMBER_ZCL_PUMP_OPERATION_MODE_MAXIMUM     = 0x02,
00224   EMBER_ZCL_PUMP_OPERATION_MODE_LOCAL        = 0x03
00225 } EmberAfPumpOperationMode;
00226
00227 typedef enum {
00228   EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_SPEED      = 0x00,
00229   EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_PRESSURE    = 0x01,
00230   EMBER_ZCL_PUMP_CONTROL_MODE_PROPORIONAL_PRESSURE = 0x02,
00231   EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_FLOW        = 0x03,
00232   EMBER_ZCL_PUMP_CONTROL_MODE_CONSTANT_TEMPERATURE = 0x05,
00233   EMBER_ZCL_PUMP_CONTROL_MODE_AUTOMATIC           = 0x07
00234 } EmberAfPumpControlMode;
00235
00236 typedef enum {
00237   EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_ONLY      = 0x00
00238   , EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_WITH_REHEAT = 0x01
00239   , EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_ONLY       = 0x02
00240   , EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_HEATING_WITH_REHEAT = 0x03
00241   , EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING = 0x04
00242   , EMBER_ZCL_THERMOSTAT_CONTROL_SEQUENCE_COOLING_AND_HEATING_WITH_REHEAT = 0x05
00243 } EmberAfThermostatControlSequence;
00244
00245 typedef enum {
00246   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_OFF      = 0x00,
00247   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_AUTO     = 0x01,
00248   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_COOL     = 0x03,
00249   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_HEAT     = 0x04,
00250   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_EMERGENCY_HEATING = 0x05,
00251   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_PRECOOLING = 0x06,
00252   EMBER_ZCL_THERMOSTAT_SYSTEM_MODE_FAN_ONLY  = 0x07
00253 } EmberAfThermostatSystemMode;
00254
00255 typedef enum {
00256   EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_SETPOINT      = 0x00,
00257   EMBER_ZCL_SETPOINT_ADJUST_MODE_COOL_SETPOINT       = 0x01,
00258   EMBER_ZCL_SETPOINT_ADJUST_MODE_HEAT_AND_COOL_SETPOINTS = 0x02
00259 } EmberAfSetpointAdjustMode;
00260
00261 typedef enum {
00262   EMBER_ZCL_FAN_MODE_OFF      = 0x00,
00263   EMBER_ZCL_FAN_MODE_LOW     = 0x01,
00264   EMBER_ZCL_FAN_MODE_MEDIUM = 0x02,
00265   EMBER_ZCL_FAN_MODE_HIGH    = 0x03,
00266   EMBER_ZCL_FAN_MODE_ON      = 0x04,
00267   EMBER_ZCL_FAN_MODE_AUTO    = 0x05,
00268   EMBER_ZCL_FAN_MODE_SMART   = 0x06
00269 } EmberAfFanMode;
00270
00271 typedef enum {
00272   EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH      = 0x00,
00273   EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH          = 0x01,
00274   EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_MED_HIGH_AUTO = 0x02,
00275   EMBER_ZCL_FAN_MODE_SEQUENCE_LOW_HIGH_AUTO     = 0x03,
00276   EMBER_ZCL_FAN_MODE_SEQUENCE_ON_AUTO          = 0x04
00277 } EmberAfFanModeSequence;
00278
00279 typedef enum {
00280   EMBER_ZCL_RELATIVE_HUMIDITY_MODE_MEASURE_LOCALLY      = 0x00,
00281   EMBER_ZCL_RELATIVE_HUMIDITY_MODE_UPDATED_OVER_THE_NETWORK = 0x01
00282 } EmberAfRelativeHumidityMode;
00283

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00284 typedef enum {
00285     EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_NOT_ALLOWED = 0x00,
00286     EMBER_ZCL_DEHUMIDIFICATION_LOCKOUT_ALLOWED      = 0x01
00287 } EmberAfDehumidificationLockout;
00288
00289 typedef enum {
00290     EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_NOT_DISPLAYED = 0x00,
00291     EMBER_ZCL_RELATIVE_HUMIDITY_DISPLAY_DISPLAYED      = 0x01
00292 } EmberAfRelativeHumidityDisplay;
00293
00294 typedef enum {
00295     EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_CELSIUS        = 0x00,
00296     EMBER_ZCL_TEMPERATURE_DISPLAY_MODE_FAHRENHEIT      = 0x01
00297 } EmberAfTemperatureDisplayMode;
00298
00299 typedef enum {
00300     EMBER_ZCL_KEYPAD_LOCKOUT_NO_LOCKOUT                = 0x00,
00301     EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_ONE_LOCKOUT         = 0x01,
00302     EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_TWO_LOCKOUT         = 0x02,
00303     EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_THREE_LOCKOUT       = 0x03,
00304     EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_FOUR_LOCKOUT        = 0x04,
00305     EMBER_ZCL_KEYPAD_LOCKOUT_LEVEL_FIVE_LOCKOUT        = 0x05
00306 } EmberAfKeypadLockout;
00307
00308 typedef enum {
00309     EMBER_ZCL_HUE_DIRECTION_SHORTEST_DISTANCE          = 0x00,
00310     EMBER_ZCL_HUE_DIRECTION_LONGEST_DISTANCE           = 0x01,
00311     EMBER_ZCL_HUE_DIRECTION_UP                          = 0x02,
00312     EMBER_ZCL_HUE_DIRECTION_DOWN                        = 0x03
00313 } EmberAfHueDirection;
00314
00315 typedef enum {
00316     EMBER_ZCL_HUE_MOVE_MODE_STOP                      = 0x00,
00317     EMBER_ZCL_HUE_MOVE_MODE_UP                        = 0x01,
00318     EMBER_ZCL_HUE_MOVE_MODE_DOWN                     = 0x03
00319 } EmberAfHueMoveMode;
00320
00321 typedef enum {
00322     EMBER_ZCL_HUE_STEP_MODE_UP                       = 0x01,
00323     EMBER_ZCL_HUE_STEP_MODE_DOWN                     = 0x03
00324 } EmberAfHueStepMode;
00325
00326 typedef enum {
00327     EMBER_ZCL_SATURATION_MOVE_MODE_STOP              = 0x00,
00328     EMBER_ZCL_SATURATION_MOVE_MODE_UP                = 0x01,
00329     EMBER_ZCL_SATURATION_MOVE_MODE_DOWN              = 0x03
00330 } EmberAfSaturationMoveMode;
00331
00332 typedef enum {
00333     EMBER_ZCL_SATURATION_STEP_MODE_UP               = 0x01,
00334     EMBER_ZCL_SATURATION_STEP_MODE_DOWN             = 0x03
00335 } EmberAfSaturationStepMode;
00336
00337 typedef enum {
00338     EMBER_ZCL_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION = 0x00,
00339     EMBER_ZCL_COLOR_MODE_CURRENT_X_AND_CURRENT_Y      = 0x01,
00340     EMBER_ZCL_COLOR_MODE_COLOR_TEMPERATURE            = 0x02
00341 } EmberAfColorMode;
00342
00343 typedef enum {
00344     EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_PHOTODIODE = 0x00,
00345     EMBER_ZCL_MEASUREMENT_LIGHT_SENSOR_TYPE_CMOS       = 0x01
00346 } EmberAfMeasurementLightSensorType;
00347
00348 typedef enum {
00349     EMBER_ZCL_LEVEL_STATUS_ON_TARGET                 = 0x00,
00350     EMBER_ZCL_LEVEL_STATUS_BELOW_TARGET              = 0x01,
00351     EMBER_ZCL_LEVEL_STATUS_ABOVE_TARGET              = 0x02
00352 } EmberAfLevelStatus;
00353
00354 typedef enum {
00355     EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_PHOTODIODE = 0x00,
00356     EMBER_ZCL_SENSING_LIGHT_SENSOR_TYPE_CMOS       = 0x01
00357 } EmberAfSensingLightSensorType;
00358
00359 typedef enum {
00360     EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR              = 0x00,
00361     EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_ULTRASONIC       = 0x01,
00362     EMBER_ZCL_OCCUPANCY_SENSOR_TYPE_PIR_AND_ULTRASONIC = 0x02
00363 } EmberAfOccupancySensorType;

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00364
00365 typedef enum {
00366     EMBER_ZCL_IAS_ZONE_STATE_NOT_ENROLLED = 0x00,
00367     EMBER_ZCL_IAS_ZONE_STATE_ENROLLED = 0x01
00368 } EmberAfIasZoneState;
00369
00370 typedef enum {
00371     EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_CIE = 0x0000,
00372     EMBER_ZCL_IAS_ZONE_TYPE_MOTION_SENSOR = 0x000D,
00373     EMBER_ZCL_IAS_ZONE_TYPE_CONTACT_SWITCH = 0x0015,
00374     EMBER_ZCL_IAS_ZONE_TYPE_FIRE_SENSOR = 0x0028,
00375     EMBER_ZCL_IAS_ZONE_TYPE_WATER_SENSOR = 0x002A,
00376     EMBER_ZCL_IAS_ZONE_TYPE_GAS_SENSOR = 0x002B,
00377     EMBER_ZCL_IAS_ZONE_TYPE_PERSONAL_EMERGENCY_DEVICE = 0x002C,
00378     EMBER_ZCL_IAS_ZONE_TYPE_VIBRATION_MOVEMENT_SENSOR = 0x002D,
00379     EMBER_ZCL_IAS_ZONE_TYPE_REMOTE_CONTROL = 0x010F,
00380     EMBER_ZCL_IAS_ZONE_TYPE_KEY_FOB = 0x0115,
00381     EMBER_ZCL_IAS_ZONE_TYPE_KEYPAD = 0x021D,
00382     EMBER_ZCL_IAS_ZONE_TYPE_STANDARD_WARNING_DEVICE = 0x0225
00383 } EmberAfIasZoneType;
00384
00385 typedef enum {
00386     EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_SUCCESS = 0x00,
00387     EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NOT_SUPPORTED = 0x01,
00388     EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_NO_ENROLL_PERMIT = 0x02,
00389     EMBER_ZCL_IAS_ENROLL_RESPONSE_CODE_TOO_MANY_ZONES = 0x03
00390 } EmberAfIasEnrollResponseCode;
00391
00392 typedef enum {
00393     EMBER_ZCL_IAS_ACE_ARM_MODE_DISARM = 0x00,
00394     EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_DAY_HOME_ZONES_ONLY = 0x01,
00395     EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_NIGHT_SLEEP_ZONES_ONLY = 0x02,
00396     EMBER_ZCL_IAS_ACE_ARM_MODE_ARM_ALL_ZONES = 0x03
00397 } EmberAfIasAceArmMode;
00398
00399 typedef enum {
00400     EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_DISARMED = 0x00,
00401     EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_DAY_HOME_ZONES_ARMED = 0x01,
00402     EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ONLY_NIGHT_SLEEP_ZONES_ARMED = 0x02,
00403     EMBER_ZCL_IAS_ACE_ARM_NOTIFICATION_ALL_ZONES_ARMED = 0x03
00404 } EmberAfIasAceArmNotification;
00405
00406 typedef enum {
00407     EMBER_ZCL_WARNING_MODE_STOP = 0x00,
00408     EMBER_ZCL_WARNING_MODE_BURGLAR = 0x01,
00409     EMBER_ZCL_WARNING_MODE_FIRE = 0x02,
00410     EMBER_ZCL_WARNING_MODE_EMERGENCY = 0x03
00411 } EmberAfWarningMode;
00412
00413 typedef enum {
00414     EMBER_ZCL_WARNING_STOBE_NO_STROBE = 0x00,
00415     EMBER_ZCL_WARNING_STOBE_USE_STROBE = 0x01
00416 } EmberAfWarningStobe;
00417
00418 typedef enum {
00419     EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_ARMED = 0x00,
00420     EMBER_ZCL_SQUAWK_MODE_SYSTEM_IS_DISARMED = 0x01
00421 } EmberAfSquawkMode;
00422
00423 typedef enum {
00424     EMBER_ZCL_SQUAWK_STOBE_NO_STROBE = 0x00,
00425     EMBER_ZCL_SQUAWK_STOBE_USE_STROBE = 0x01
00426 } EmberAfSquawkStobe;
00427
00428 typedef enum {
00429     EMBER_ZCL_SQUAWK_LEVEL_LOW_LEVEL = 0x00,
00430     EMBER_ZCL_SQUAWK_LEVEL_MEDIUM_LEVEL = 0x01,
00431     EMBER_ZCL_SQUAWK_LEVEL VERY_HIGH_LEVEL = 0x02
00432 } EmberAfSquawkLevel;
00433
00434 typedef enum {
00435     EMBER_ZCL_AMI_CRITICALITY_LEVEL_RESERVED = 0x00,
00436     EMBER_ZCL_AMI_CRITICALITY_LEVEL_GREEN = 0x01,
00437     EMBER_ZCL_AMI_CRITICALITY_LEVEL_1 = 0x02,
00438     EMBER_ZCL_AMI_CRITICALITY_LEVEL_2 = 0x03,
00439     EMBER_ZCL_AMI_CRITICALITY_LEVEL_3 = 0x04,
00440     EMBER_ZCL_AMI_CRITICALITY_LEVEL_4 = 0x05,
00441     EMBER_ZCL_AMI_CRITICALITY_LEVEL_5 = 0x06,
00442     EMBER_ZCL_AMI_CRITICALITY_LEVEL_EMERGENCY = 0x07,
00443     EMBER_ZCL_AMI_CRITICALITY_LEVEL_PLANNED_OUTAGE = 0x08,

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00444 EMBER_ZCL_AMI_CRITICALITY_LEVEL_SERVICE_DISCONNECT = 0x09,
00445 EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED1 = 0x0A,
00446 EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED2 = 0x0B,
00447 EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED3 = 0x0C,
00448 EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED4 = 0x0D,
00449 EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED5 = 0x0E,
00450 EMBER_ZCL_AMI_CRITICALITY_LEVEL.Utility_DEFINED6 = 0x0F
00451 } EmberAfAmiCriticalityLevel;
00452
00453 typedef enum {
00454     EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_RX
00455         = 0x01,
00456     EMBER_ZCL_AMI_EVENT_STATUS_EVENT_STARTED
00457         = 0x02,
00458     EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED
00459         = 0x03,
00460     EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOOSE_TO_OPT_OUT
00461         = 0x04,
00462     EMBER_ZCL_AMI_EVENT_STATUS_USER_HAS_CHOOSE_TO_OPT_IN
00463         = 0x05,
00464     EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_CANCELED
00465         = 0x06,
00466     EMBER_ZCL_AMI_EVENT_STATUS_THE_EVENT_HAS_BEEN_SUPERSEDED
00467         = 0x07,
00468     EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETED_WITH_USER_OPT_OUT
00469         = 0x08,
00470     EMBER_ZCL_AMI_EVENT_STATUS_EVENT_PARTIALLY_COMPLETED_DUE_TO_USER_OPT_IN
00471         = 0x09,
00472     EMBER_ZCL_AMI_EVENT_STATUS_EVENT_COMPLETED_NO_USER_PARTICIPATION_PREVIOUS_OPT_OUT
00473         = 0x0A,
00474     EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND
00475         = 0xF8,
00476
00477     EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_COMMAND_INVALID_EFFECTIVE_TIME
00478         = 0x9,
00479     EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_EVENT_EXPIRED
00480         = 0xFB,
00481     EMBER_ZCL_AMI_EVENT_STATUS_REJECTED_INVALID_CANCEL_UNDEFINED_EVENT
00482         = 0xFD,
00483     EMBER_ZCL_AMI_EVENT_STATUS_LOAD_CONTROL_EVENT_COMMAND_REJECTED
00484         = 0xFE
00485 } EmberAfAmiEventStatus;
00486
00487 typedef enum {
00488     EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS
00489         = 0x00,
00490     EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR
00491         = 0x01,
00492     EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR
00493         = 0x02,
00494     EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR
00495         = 0x03,
00496     EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR
00497         = 0x04,
00498     EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR
00499         = 0x05,
00500     EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR
00501         = 0x06,
00502     EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR
00503         = 0x07,
00504     EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GAUGE
00505         = 0x08,
00506     EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE
00507         = 0x09,
00508     EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND
00509         = 0x0A,
00510     EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS
00511         = 0x0B,
00512     EMBER_ZCL_AMI_UNIT_OF_MEASURE_MJ_OR_MJ_PER_SECOND
00513         = 0x0C,
00514     EMBER_ZCL_AMI_UNIT_OF_MEASURE_KILO_WATT_HOURS_BCD
00515         = 0x80,
00516     EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_METER_PER_HOUR_BCD
00517         = 0x81,
00518     EMBER_ZCL_AMI_UNIT_OF_MEASURE_CUBIC_FEET_PER_HOUR_BCD
00519         = 0x82,
00520     EMBER_ZCL_AMI_UNIT_OF_MEASURE_CENTUM_CUBIC_FEET_PER_HOUR_BCD
00521         = 0x83,
00522     EMBER_ZCL_AMI_UNIT_OF_MEASURE_US_GALLONS_PER_HOUR_BCD
00523         = 0x84,
00524     EMBER_ZCL_AMI_UNIT_OF_MEASURE_IMPERIAL_GALLONS_PER_HOUR_BCD
00525         = 0x85,
00526     EMBER_ZCL_AMI_UNIT_OF_MEASURE_BT_US_OR_BTU_PER_HOUR_BCD
00527         = 0x86,
00528     EMBER_ZCL_AMI_UNIT_OF_MEASURE_LITERS_OR_LITERS_PER_HOUR_BCD
00529         = 0x87,
00530     EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_GUAGE_BCD
00531         = 0x88,
00532     EMBER_ZCL_AMI_UNIT_OF_MEASURE_KPA_ABSOLUTE_BCD
00533         = 0x89,
00534     EMBER_ZCL_AMI_UNIT_OF_MEASURE_MCF_OR_MCF_PER_SECOND_BCD
00535         = 0x8A,
00536     EMBER_ZCL_AMI_UNIT_OF_MEASURE_UNITLESS_BCD
00537         = 0x8B,
00538     EMBER_ZCL_AMI_UNIT_OF_MEASURE_MJ_OR_MJ_PER_SECOND_BCD
00539         = 0x8C
00540 } EmberAfAmiUnitOfMeasure;
00541
00542 typedef enum {
00543     EMBER_ZCL_AMI_INTERVAL_PERIOD_DAILY
00544         = 0x00,
00545     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES60
00546         = 0x01,
00547     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES30
00548         = 0x02,
00549     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES15
00550         = 0x03,
00551     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES10
00552         = 0x04,
00553     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES7P5
00554         = 0x05,

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00507     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES5      = 0x06,
00508     EMBER_ZCL_AMI_INTERVAL_PERIOD_MINUTES2P5    = 0x07
00509 } EmberAfAmiIntervalPeriod;
00510
00511 typedef enum {
00512     EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_DELIVERED  = 0x00,
00513     EMBER_ZCL_AMI_INTERVAL_CHANNEL_CONSUMPTION_RECEIVED   = 0x01
00514 } EmberAfAmiIntervalChannel;
00515
00516 typedef enum {
00517     EMBER_ZCL_AMI_REGISTRATION_STATE_UNREGISTERED        = 0x00,
00518     EMBER_ZCL_AMI_REGISTRATION_STATE_JOINING_NETWORK     = 0x01,
00519     EMBER_ZCL_AMI_REGISTRATION_STATE_JOINED_NETWORK      = 0x02,
00520     EMBER_ZCL_AMI_REGISTRATION_STATE_SUBMITTED_REGISTRATION_REQUEST = 0x03,
00521     EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTRATION_REJECTED = 0x04,
00522     EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTERED          = 0x05,
00523     EMBER_ZCL_AMI_REGISTRATION_STATE_REGISTERATION_NOT_POSSIBLE = 0x06
00524 } EmberAfAmiRegistrationState;
00525
00526 typedef enum {
00527     EMBER_ZCL_ANONYMOUS_DATA_STATE_NO_SOURCE_FOUND      = 0x00,
00528     EMBER_ZCL_ANONYMOUS_DATA_STATE_SOURCE_FOUND         = 0x01
00529 } EmberAfAnonymousDataState;
00530
00531 typedef enum {
00532     EMBER_ZCL_PRICE_TIER_NO_TIER RELATED                = 0x00,
00533     EMBER_ZCL_PRICE_TIER_TIER1_PRICE_LABEL               = 0x01,
00534     EMBER_ZCL_PRICE_TIER_TIER2_PRICE_LABEL               = 0x02,
00535     EMBER_ZCL_PRICE_TIER_TIER3_PRICE_LABEL               = 0x03,
00536     EMBER_ZCL_PRICE_TIER_TIER4_PRICE_LABEL               = 0x04,
00537     EMBER_ZCL_PRICE_TIER_TIER5_PRICE_LABEL               = 0x05,
00538     EMBER_ZCL_PRICE_TIER_TIER6_PRICE_LABEL               = 0x06,
00539     EMBER_ZCL_PRICE_TIER_TIER7_PRICE_LABEL               = 0x07,
00540     EMBER_ZCL_PRICE_TIER_TIER8_PRICE_LABEL               = 0x08,
00541     EMBER_ZCL_PRICE_TIER_TIER9_PRICE_LABEL               = 0x09,
00542     EMBER_ZCL_PRICE_TIER_TIER10_PRICE_LABEL              = 0x0A,
00543     EMBER_ZCL_PRICE_TIER_TIER11_PRICE_LABEL              = 0x0B,
00544     EMBER_ZCL_PRICE_TIER_TIER12_PRICE_LABEL              = 0x0C,
00545     EMBER_ZCL_PRICE_TIER_TIER13_PRICE_LABEL              = 0x0D,
00546     EMBER_ZCL_PRICE_TIER_TIER14_PRICE_LABEL              = 0x0E,
00547     EMBER_ZCL_PRICE_TIER_TIER15_PRICE_LABEL              = 0x0F
00548 } EmberAfPriceTier;
00549
00550 typedef enum {
00551     EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMENT_NOT_REQUIRED = 0x00,
00552     EMBER_ZCL_PRICE_CONTROL_ACKNOWLEDGEMENT_REQUIRED       = 0x01
00553 } EmberAfPriceControlAcknowledgement;
00554
00555 typedef enum {
00556     EMBER_ZCL_REGISTER_TIER_NO_TIER RELATED                = 0x00,
00557     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER1_SUMMATION_DELIVERED_ATTRIBUTE = 0x01,
00558     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER2_SUMMATION_DELIVERED_ATTRIBUTE = 0x02,
00559     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER3_SUMMATION_DELIVERED_ATTRIBUTE = 0x03,
00560     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER4_SUMMATION_DELIVERED_ATTRIBUTE = 0x04,
00561     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER5_SUMMATION_DELIVERED_ATTRIBUTE = 0x05,
00562     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER6_SUMMATION_DELIVERED_ATTRIBUTE = 0x06,
00563     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER7_SUMMATION_DELIVERED_ATTRIBUTE = 0x07,
00564     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER8_SUMMATION_DELIVERED_ATTRIBUTE = 0x08,
00565     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER9_SUMMATION_DELIVERED_ATTRIBUTE = 0x09,
00566     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER10_SUMMATION_DELIVERED_ATTRIBUTE = 0x0A,
00567     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER11_SUMMATION_DELIVERED_ATTRIBUTE = 0x0B,
00568     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER12_SUMMATION_DELIVERED_ATTRIBUTE = 0x0C,
00569     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER13_SUMMATION_DELIVERED_ATTRIBUTE = 0x0D,
00570     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER14_SUMMATION_DELIVERED_ATTRIBUTE = 0x0E,
00571     EMBER_ZCL_REGISTER_TIER_CURRENT_TIER15_SUMMATION_DELIVERED_ATTRIBUTE = 0x0F
00572 } EmberAfRegisterTier;
00573
00574 typedef enum {
00575     EMBER_ZCL_ALTERNATE_COST_UNIT_KG_OF_CO2_PER_UNIT_OF_MEASURE = 0x02
00576 } EmberAfAlternateCostUnit;
00577
00578 typedef enum {
00579     EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_SUCCESS           = 0x00,
00580     EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNKNOWN_ISSUER    = 0x01,
00581     EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_KEY_CONFIRM   = 0x02,
00582     EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_BAD_MESSAGE        = 0x03,
00583     EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_NO_RESOURCES       = 0x04,
00584     EMBER_ZCL_AMI_KEY_ESTABLISHMENT_STATUS_UNSUPPORTED_SUITE  = 0x05
00585 } EmberAfAmiKeyEstablishmentStatus;
00586

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00587 typedef enum {
00588     EMBER_ZCL_AMI_GET_PROFILE_STATUS_SUCCESS
00589         = 0x00,
00590     EMBER_ZCL_AMI_GET_PROFILE_STATUS_UNDEFINED_INTERVAL_CHANNEL_REQUESTED
00591         = 0x01,
00592     EMBER_ZCL_AMI_GET_PROFILE_STATUS_INTERVAL_CHANNEL_NOT_SUPPORTED
00593         = 0x02,
00594     EMBER_ZCL_AMI_GET_PROFILE_STATUS_INVALID_END_TIME
00595         = 0x03,
00596     EMBER_ZCL_AMI_GET_PROFILE_STATUS_MORE_PERIODS_REQUESTED_THAN_CAN_BE_RETURNED
00597         = 0x04,
00598     EMBER_ZCL_AMI_GET_PROFILE_STATUS_NO_INTERVALS_AVAILABLE_FOR_THE_REQUESTED_TIME
00599         = 0x05
00600 } EmberAfAmiGetProfileStatus;
00601
00602 typedef enum {
00603     EMBER_ZCL_METER_DEVICE_TYPE_ELECTRIC_METER          = 0x00,
00604     EMBER_ZCL_METER_DEVICE_TYPE_GAS_METER               = 0x01,
00605     EMBER_ZCL_METER_DEVICE_TYPE_WATER_METER             = 0x02,
00606     EMBER_ZCL_METER_DEVICE_TYPE_THERMAL_METER           = 0x03,
00607     EMBER_ZCL_METER_DEVICE_TYPE_PRESSURE_METER          = 0x04,
00608     EMBER_ZCL_METER_DEVICE_TYPE_HEAT_METER              = 0x05,
00609     EMBER_ZCL_METER_DEVICE_TYPE_COOLING_METER           = 0x06,
00610     EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_GAS_METER      = 0x80,
00611     EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_WATER_METER    = 0x81,
00612     EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_THERMAL_METER  = 0x82,
00613     EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_PRESSURE_METER = 0x83,
00614     EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_HEAT_METER     = 0x84,
00615     EMBER_ZCL_METER_DEVICE_TYPE_MIRRORED_COOLING_METER  = 0x85,
00616     EMBER_ZCL_METER_DEVICE_TYPE_UNDEFINED_MIRROR_METER   = 0xFE
00617 } EmberAfMeterDeviceType;
00618
00619 typedef enum {
00620     EMBER_ZCL_TUNNELING_PROTOCOL_ID_DLMS_COSEM        = 0x00,
00621     EMBER_ZCL_TUNNELING_PROTOCOL_ID_IEC_61107          = 0x01,
00622     EMBER_ZCL_TUNNELING_PROTOCOL_ID_ANSI_C12           = 0x02,
00623     EMBER_ZCL_TUNNELING_PROTOCOL_ID_M_BUS              = 0x03,
00624     EMBER_ZCL_TUNNELING_PROTOCOL_ID_SML                = 0x04,
00625     EMBER_ZCL_TUNNELING_PROTOCOL_ID_CLIMATE_TALK       = 0x05,
00626     EMBER_ZCL_TUNNELING_PROTOCOL_ID_TEST               = 0xC7
00627 } EmberAfTunnelingProtocolId;
00628
00629 typedef enum {
00630     EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_NO SUCH TUNNEL = 0x00,
00631     EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_WRONG DEVICE = 0x01,
00632     EMBER_ZCL_TUNNELING_TRANSFER_DATA_STATUS_DATA_OVERFLOW = 0x02
00633 } EmberAfTunnelingTransferDataStatus;
00634
00635 typedef enum {
00636     EMBER_ZCL_TUNNELING_TUNNEL_STATUS_SUCCESS          = 0x00,
00637     EMBER_ZCL_TUNNELING_TUNNEL_STATUS_BUSY              = 0x01,
00638     EMBER_ZCL_TUNNELING_TUNNEL_STATUS_NO_MORE_TUNNEL_IDS = 0x02,
00639     EMBER_ZCL_TUNNELING_TUNNEL_STATUS_PROTOCOL_NOT_SUPPORTED = 0x03,
00640     EMBER_ZCL_TUNNELING_TUNNEL_STATUS_FLOW_CONTROL_NOT_SUPPORTED = 0x04
00641 } EmberAfTunneling TunnelStatus;
00642
00643 typedef enum {
00644     EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_HOUR     = 0x00,
00645     EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_DAY      = 0x01,
00646     EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_WEEK     = 0x02,
00647     EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_MONTH    = 0x03,
00648     EMBER_ZCL_PREPAYMENT_RECOVERY_PERIOD_PER_QUARTER  = 0x04
00649 } EmberAfPrepaymentRecoveryPeriod;
00650
00651 typedef enum {
00652     EMBER_ZCL_PREPAYMENT_ORIGINATING_DEVICE_ENERGY_SERVICE_INTERFACE = 0x00,
00653     EMBER_ZCL_PREPAYMENT_ORIGINATING_DEVICE_IN_PREMISES_DISPLAY_DEVICE = 0x02
00654 } EmberAfPrepaymentOriginatingDevice;
00655
00656 typedef enum {
00657     EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF      = 0x00,
00658     EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_OFF_ARMED = 0x01,
00659     EMBER_ZCL_PREPAYMENT_SUPPLY_STATUS_SUPPLY_ON        = 0x02
00660 } EmberAfPrepaymentSupplyStatus;

```

```

00661
00662 typedef enum {
00663     EMBER_ZCL_REPORTING_DIRECTION_REPORTED = 0x00,
00664     EMBER_ZCL_REPORTING_DIRECTION_RECEIVED = 0x01
00665 } EmberAfReportingDirection;
00666
00667 typedef enum {
00668     EMBER_ZCL_SIGNATURE_TYPE_RESERVED = 0x00,
00669     EMBER_ZCL_SIGNATURE_TYPE_ECDSA = 0x01
00670 } EmberAfSignatureType;
00671
00672 typedef enum {
00673     EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_WAITING_TO_START = 0x01,
00674     EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_STARTED = 0x02,
00675     EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_RUNNING = 0x03,
00676     EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_ENDED = 0x04,
00677     EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_WAITING_TO_START = 0x05,
00678     EMBER_ZCL_POWER_PROFILE_STATE_ENERGY_PHASE_STARTED = 0x06,
00679     EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_ENDED = 0x07,
00680     EMBER_ZCL_POWER_PROFILE_STATE_PROFILE_READY_FOR_SCHEDULING = 0x08,
00681     EMBER_ZCL_POWER_PROFILE_STATE_POWER_PROFILE_SCHEDULED = 0x09
00682 } EmberAfPowerProfileState;
00683
00684 typedef enum {
00685     EMBER_ZCL_APPLIANCE_STATUS_OFF = 0x01,
00686     EMBER_ZCL_APPLIANCE_STATUS_STAND_BY = 0x02,
00687     EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED = 0x03,
00688     EMBER_ZCL_APPLIANCE_STATUS_PROGRAMMED_WAITING_TO_START = 0x04,
00689     EMBER_ZCL_APPLIANCE_STATUS_RUNNING = 0x05,
00690     EMBER_ZCL_APPLIANCE_STATUS_PAUSE = 0x06,
00691     EMBER_ZCL_APPLIANCE_STATUS_END_PROGRAMMED = 0x07,
00692     EMBER_ZCL_APPLIANCE_STATUS_FAILURE = 0x08,
00693     EMBER_ZCL_APPLIANCE_STATUS_PROGRAMME_INTERRUPTED = 0x09,
00694     EMBER_ZCL_APPLIANCE_STATUS_IDLE = 0x0A,
00695     EMBER_ZCL_APPLIANCE_STATUS_RINSE_HOLD = 0x0B,
00696     EMBER_ZCL_APPLIANCE_STATUS_SERVICE = 0x0C,
00697     EMBER_ZCL_APPLIANCE_STATUS_SUPERFREEZING = 0x0D,
00698     EMBER_ZCL_APPLIANCE_STATUS_SUPERCOOLING = 0x0E,
00699     EMBER_ZCL_APPLIANCE_STATUS_SUPERHEATING = 0x0F
00700 } EmberAfApplianceStatus;
00701
00702 typedef enum {
00703     EMBER_ZCL_REMOTE_ENABLE_FLAGS_DISABLED = 0x00,
00704     EMBER_ZCL_REMOTE_ENABLE_FLAGS_TEMPORARILY_LOCKED_DISABLED = 0x07,
00705     EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_CONTROL = 0x0F,
00706     EMBER_ZCL_REMOTE_ENABLE_FLAGS_ENABLED_REMOTE_AND_ENERGY_CONTROL = 0x01
00707 } EmberAfRemoteEnableFlags;
00708
00709 typedef enum {
00710     EMBER_ZCL_DEVICE_STATUS2_STRUCTURE_IRIS_SYMPTOM_CODE = 0x20
00711 } EmberAfDeviceStatus2Structure;
00712
00713 typedef enum {
00714     EMBER_ZCL_TIME_ENCODING_RELATIVE = 0x00,
00715     EMBER_ZCL_TIME_ENCODING_ABSOLUTE = 0x40
00716 } EmberAfTimeEncoding;
00717
00718 typedef enum {
00719     EMBER_ZCL_COMMAND_IDENTIFICATION_START = 0x01,
00720     EMBER_ZCL_COMMAND_IDENTIFICATION_STOP = 0x02,
00721     EMBER_ZCL_COMMAND_IDENTIFICATION_PAUSE = 0x03,
00722     EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERFREEZING = 0x04,
00723     EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERFREEZING = 0x05,
00724     EMBER_ZCL_COMMAND_IDENTIFICATION_START_SUPERCOOLING = 0x06,
00725     EMBER_ZCL_COMMAND_IDENTIFICATION_STOP_SUPERCOOLING = 0x07,
00726     EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_GAS = 0x08,
00727     EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_GAS = 0x09,
00728     EMBER_ZCL_COMMAND_IDENTIFICATION_ENABLE_ENERGY_CONTROL = 0x0A,
00729     EMBER_ZCL_COMMAND_IDENTIFICATION_DISABLE_ENERGY_CONTROL = 0x0B
00730 } EmberAfCommandIdentification;
00731
00732 typedef enum {
00733     EMBER_ZCL_WARNING_EVENT_WARNING1_OVERALL_POWER_ABOVE_AVAILABLE_POWER_LEVEL = 0x00,
00734     EMBER_ZCL_WARNING_EVENT_WARNING2_OVERALL_POWER_ABOVE_POWER_THRESHOLD_LEVEL = 0x01,
00735     EMBER_ZCL_WARNING_EVENT_WARNING3_OVERALL_POWER_BELOW_THE_AVAILABLE_POWER_LEVEL = 0x02,
00736

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    EMBER_ZCL_WARNING_EVENT_WARNING4_OVERALL_POWER_BACK_BELOW_THE_POWER_THRESHOLD_LEVEL
        = 0x03,
00737
    EMBER_ZCL_WARNING_EVENT_WARNINGS5_OVERALL_POWER_WILL_BE_POTENTIALLY_ABOVE_AVAILABLE_POWER_LEVEL_IF_THE_APPLIANCE_STARTS
        = 0x04
00738 } EmberAfWarningEvent;
00739
00740 typedef enum {
00741     EMBER_ZCL_SILENT_MODE_SILENT      = 0x01,
00742     EMBER_ZCL_SILENT_MODE_LOW         = 0x02,
00743     EMBER_ZCL_SILENT_MODE_HIGH        = 0x03
00744 } EmberAfSilentMode;
00745
00746 typedef enum {
00747     EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NORMAL_MODE          = 0x00,
00748     EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_VACATION_MODE       = 0x01,
00749     EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_PRIVACY_MODE        = 0x02,
00750     EMBER_ZCL_DOOR_LOCK_OPERATING_MODE_NO_RF_LOCK_OR_UNLOCK = 0x03
00751 } EmberAfDoorLockOperatingMode;
00752
00753 typedef enum {
00754     EMBER_ZCL_LANGUAGE_ENGLISH      = 0x01,
00755     EMBER_ZCL_LANGUAGE_FRENCH        = 0x02,
00756     EMBER_ZCL_LANGUAGE_SPANISH      = 0x03
00757 } EmberAfLanguage;
00758
00759 typedef enum {
00760     EMBER_ZCL_DAY_OF_WEEK_SUNDAY    = 0x00,
00761     EMBER_ZCL_DAY_OF_WEEK_MONDAY    = 0x01,
00762     EMBER_ZCL_DAY_OF_WEEK_TUESDAY   = 0x02,
00763     EMBER_ZCL_DAY_OF_WEEK_WEDNESDAY = 0x03,
00764     EMBER_ZCL_DAY_OF_WEEK_THURSDAY  = 0x04,
00765     EMBER_ZCL_DAY_OF_WEEK_FRIDAY    = 0x05,
00766     EMBER_ZCL_DAY_OF_WEEK_SATURDAY  = 0x06
00767 } EmberAfDayOfWeek;
00768
00769 typedef enum {
00770     EMBER_ZCL_USER_STATUS_AVAILABLE           = 0x00,
00771     EMBER_ZCL_USER_STATUS_OCCUPIED_ENABLED    = 0x01,
00772     EMBER_ZCL_USER_STATUS_OCCUPIED_DISABLED    = 0x03,
00773     EMBER_ZCL_USER_STATUS_SUPERVISOR_GROUP_DISABLED = 0x04,
00774     EMBER_ZCL_USER_STATUS_GROUP_ONLY_DISABLED = 0x05
00775 } EmberAfUserStatus;
00776
00777 typedef enum {
00778     EMBER_ZCL_SLOT_STATUS_DISABLE    = 0x00,
00779     EMBER_ZCL_SLOT_STATUS_ENABLE     = 0xFF
00780 } EmberAfSlotStatus;
00781
00782 typedef enum {
00783     EMBER_ZCL_LOCK_MODE_UNLOCKED      = 0x00,
00784     EMBER_ZCL_LOCK_MODE_UNLOCKED_WITH_RELOCK_PENDING = 0x01,
00785     EMBER_ZCL_LOCK_MODE_LOCKED        = 0xFF
00786 } EmberAfLockMode;
00787
00788 typedef enum {
00789     EMBER_ZCL_BOLT_CONDITION_RETRACTED = 0x00,
00790     EMBER_ZCL_BOLT_CONDITION_EXTENDED  = 0x01
00791 } EmberAfBoltCondition;
00792
00793 typedef enum {
00794     EMBER_ZCL_HANDLE_CONDITION_UNKNOWN = 0x00
00795 } EmberAfHandleCondition;
00796
00797 typedef enum {
00798     EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_LOCK_COMMAND
        = 0x01,
00799     EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_VERIFIED_UNLOCK_COMMAND
        = 0x02,
00800     EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_LOCK_BUTTON_PRESSED
        = 0x03,
00801     EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_UNLOCK_BUTTON_PRESSED
        = 0x04,
00802     EMBER_ZCL_EVENT_TYPE_LOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE
        = 0x05,
00803     EMBER_ZCL_EVENT_TYPE_UNLOCK_COMMAND_KEYPAD_ACCESS_CODE_OUT_OF_SCHEDULE
        = 0x06,
00804     EMBER_ZCL_EVENT_TYPE_KEYPAD_ILLEGAL_ACCESS_CODE_ENTERED
        = 0x07,
00805     EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_LOCKED_MANUAL

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        = 0x08,
00806 EMBER_ZCL_EVENT_TYPE_KEY_OR_LATCH_OPERATION_UNLOCKED_MANUAL
        = 0x09,
00807 EMBER_ZCL_EVENT_TYPE_AUTO_LOCK_OPERATION
        = 0x0A,
00808 EMBER_ZCL_EVENT_TYPE_AUTO_UNLOCK_OPERATION
        = 0x0B,
00809 EMBER_ZCL_EVENT_TYPE_LOCK_SECURED
        = 0x15,
00810 EMBER_ZCL_EVENT_TYPE_LOCK_UNSECURED
        = 0x16,
00811 EMBER_ZCL_EVENT_TYPE_USER_CODE_ADDED
        = 0x17,
00812 EMBER_ZCL_EVENT_TYPE_USER_CODE_DELETED
        = 0x18,
00813 EMBER_ZCL_EVENT_TYPE_ALL_USER_CODES_DELETED
        = 0x19,
00814 EMBER_ZCL_EVENT_TYPE_MASTER_CODE_CHANGED
        = 0x1A,
00815 EMBER_ZCL_EVENT_TYPE_USER_CODE_CHANGED
        = 0x1B,
00816 EMBER_ZCL_EVENT_TYPE_LOCK_RESET
        = 0x1C,
00817 EMBER_ZCL_EVENT_TYPE_CONFIGURATION_CHANGED
        = 0x1D,
00818 EMBER_ZCL_EVENT_TYPE_LOW_BATTERY
        = 0x1E,
00819 EMBER_ZCL_EVENT_TYPE_NEW_BATTERY_INSTALLED
        = 0x1F
00820 } EmberAfEventType;
00821
00822 typedef enum {
00823     EMBER_ZCL_THERMOSTAT_RUNNING_MODE_OFF      = 0x00,
00824     EMBER_ZCL_THERMOSTAT_RUNNING_MODE_COOL      = 0x03,
00825     EMBER_ZCL_THERMOSTAT_RUNNING_MODE_HEAT      = 0x04
00826 } EmberAfThermostatRunningMode;
00827
00828 typedef enum {
00829     EMBER_ZCL_START_OF_WEEK_SUNDAY      = 0x00,
00830     EMBER_ZCL_START_OF_WEEK_MONDAY      = 0x01,
00831     EMBER_ZCL_START_OF_WEEK_TUESDAY      = 0x02,
00832     EMBER_ZCL_START_OF_WEEK_WEDNESDAY      = 0x03,
00833     EMBER_ZCL_START_OF_WEEK_THURSDAY      = 0x04,
00834     EMBER_ZCL_START_OF_WEEK_FRIDAY      = 0x05,
00835     EMBER_ZCL_START_OF_WEEK_SATURDAY      = 0x06
00836 } EmberAfStartOfWeek;
00837
00838 typedef enum {
00839     EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_OFF  = 0x00,
00840     EMBER_ZCL_TEMPERATURE_SETPOINT_HOLD_SETPOINT_HOLD_ON    = 0x01
00841 } EmberAfTemperatureSetpointHold;
00842
00843 typedef enum {
00844     EMBER_ZCL_PRODUCT_TYPE_ID_WHITE_GOODS      = 0x0000,
00845     EMBER_ZCL_PRODUCT_TYPE_ID_DISHWASHER      = 0x5601,
00846     EMBER_ZCL_PRODUCT_TYPE_ID_TUMBLE_DRYER      = 0x5602,
00847     EMBER_ZCL_PRODUCT_TYPE_ID_WASHER_DRYER      = 0x5603,
00848     EMBER_ZCL_PRODUCT_TYPE_ID_WASHING_MACHINE  = 0x5604,
00849     EMBER_ZCL_PRODUCT_TYPE_ID_HOBS              = 0x5E03,
00850     EMBER_ZCL_PRODUCT_TYPE_ID_INDUCTION_HOBS  = 0x5E09,
00851     EMBER_ZCL_PRODUCT_TYPE_ID_OVEN              = 0x5E01,
00852     EMBER_ZCL_PRODUCT_TYPE_ID_ELECTRICAL_OVEN  = 0x5E06,
00853     EMBER_ZCL_PRODUCT_TYPE_ID_REFRIGERATOR_FREEZER = 0x6601
00854 } EmberAfProductId;
00855
00856 typedef enum {
00857     EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_NOT_CERTIFIED  =
0x10,
00858     EMBER_ZCL_CECED_SPECIFICATION_VERSION_COMPLIANT_WITH_V10_CERTIFIED       =
0x1A
00859 } EmberAfCecedSpecificationVersion;
00860
00861 typedef enum {
00862     EMBER_ZCL_METER_TYPE_ID.Utility_PRIMARY_METER      = 0x0000,
00863     EMBER_ZCL_METER_TYPE_ID.Utility_PRODUCTION_METER   = 0x0001,
00864     EMBER_ZCL_METER_TYPE_ID.Utility_SECONDARY_METER    = 0x0002,
00865     EMBER_ZCL_METER_TYPE_ID_Private_PRIMARY_METER      = 0x0100,
00866     EMBER_ZCL_METER_TYPE_ID_Private_PRODUCTION_METER   = 0x0101,
00867     EMBER_ZCL_METER_TYPE_ID_Private_SECONDARY_METERS   = 0x0102,
00868     EMBER_ZCL_METER_TYPE_ID_Generic_GENERIC_METER      = 0x0110

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00869 } EmberAfMeterTypeId;
00870
00871 typedef enum {
00872     EMBER_ZCL_DATA_QUALITY_ID_ALL_DATA_CERTIFIED = 0x0000,
00873     EMBER_ZCL_DATA_QUALITY_ID_ONLY_INSTANTANEOUS_POWER_NOT_CERTIFIED = 0x0001,
00874     EMBER_ZCL_DATA_QUALITY_ID_ONLY_CUMULATED_CONSUMPTION_NOT_CERTIFIED = 0x0002,
00875     EMBER_ZCL_DATA_QUALITY_ID_NOT_CERTIFIED_DATA = 0x0003
00876 } EmberAfDataQualityId;
00877
00878 typedef enum {
00879     EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_WARNING = 0x0100,
00880     EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_DANGER = 0x0200,
00881     EMBER_ZCL_ALERT_STRUCTURE_CATEGORY_FAILURE = 0x0300
00882 } EmberAfAlertStructureCategory;
00883
00884 typedef enum {
00885     EMBER_ZCL_ALERT_STRUCTURE_PRESENCE_RECOVERY_PRESENCE = 0x0000,
00886     EMBER_ZCL_ALERT_STRUCTURE_PRESENCE_RECOVERY_RECOVERY = 0x1000
00887 } EmberAfAlertStructurePresenceRecovery;
00888
00889 typedef enum {
00890     EMBER_ZCL_ALERT_COUNT_TYPE_UNSTRUCTURED = 0x00
00891 } EmberAfAlertCountType;
00892
00893 typedef enum {
00894     EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_CYCLE = 0x01,
00895     EMBER_ZCL_EVENT_IDENTIFICATION_TEMPERATURE_REACHED = 0x04,
00896     EMBER_ZCL_EVENT_IDENTIFICATION_END_OF_COOKING = 0x05,
00897     EMBER_ZCL_EVENT_IDENTIFICATION_SWITCHING_OFF = 0x06,
00898     EMBER_ZCL_EVENT_IDENTIFICATION_WRONG_DATA = 0x07
00899 } EmberAfEventIdentification;
00900
00901 typedef enum {
00902     EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BLINK = 0x00,
00903     EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_BREATHE = 0x01,
00904     EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_OKAY = 0x02,
00905     EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_CHANNEL_CHANGE = 0x0B,
00906     EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_FINISH_EFFECT = 0xFE,
00907     EMBER_ZCL_IDENTIFY_EFFECT_IDENTIFIER_STOP_EFFECT = 0xFF
00908 } EmberAfIdentifyEffectIdentifier;
00909
00910 typedef enum {
00911     EMBER_ZCL_IDENTIFY_EFFECT_VARIANT_DEFAULT = 0x00
00912 } EmberAfIdentifyEffectVariant;
00913
00914 typedef enum {
00915     EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DELAYED_ALL_OFF = 0x00,
00916     EMBER_ZCL_ON_OFF_EFFECT_IDENTIFIER_DYING_LIGHT = 0x01
00917 } EmberAfOnOffEffectIdentifier;
00918
00919 typedef enum {
00920     EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_FADE_TO_OFF_IN_0P8_SECONDS = 0x00,
00921     EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_NO_FADE = 0x01,
00922     EMBER_ZCL_ON_OFF_DELAYED_ALL_OFF_EFFECT_VARIANT_50_PERCENT_DIM_DOWN_IN_0P8_SECONDS_THEN_FADE_TO_OFF_IN_12_SECONDS = 0x02
00923 } EmberAfOnOffDelayedAllOffEffectVariant;
00924
00925 typedef enum {
00926     EMBER_ZCL_ON_OFF_DYING_LIGHT_EFFECT_VARIANT_20_PERCENTER_DIM_UP_IN_0P5_SECONDS_THEN_FADE_TO_OFF_IN_1_SECOND = 0x00
00927 } EmberAfOnOffDyingLightEffectVariant;
00928
00929 typedef enum {
00930     EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_HUE_AND_CURRENT_SATURATION = 0x00,
00931     EMBER_ZCL_ENHANCED_COLOR_MODE_CURRENT_X_AND_CURRENT_Y = 0x01,
00932     EMBER_ZCL_ENHANCED_COLOR_MODE_COLOR_TEMPERATURE = 0x02,
00933     EMBER_ZCL_ENHANCED_COLOR_MODE_ENHANCED_CURRENT_HUE_AND_CURRENT_SATURATION = 0x03
00934 } EmberAfEnhancedColorMode;
00935
00936 typedef enum {
00937     EMBER_ZCL_COLOR_LOOP_ACTION_DEACTIVATE = 0x00,

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00938     EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_COLOR_LOOP_START_ENHANCED_HUE   =
0x01,
00939     EMBER_ZCL_COLOR_LOOP_ACTION_ACTIVATE_FROM_ENHANCED_CURRENT_HUE           =
0x02
00940 } EmberAfColorLoopAction;
00941
00942 typedef enum {
00943     EMBER_ZCL_COLOR_LOOP_DIRECTION_DECREMENT_HUE   = 0x00,
00944     EMBER_ZCL_COLOR_LOOP_DIRECTION_INCREMENT_HUE   = 0x01
00945 } EmberAfColorLoopDirection;
00946
00947 typedef enum {
00948     EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_COORDINATOR   = 0x00,
00949     EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_ROUTER         = 0x01,
00950     EMBER_ZCL_ZIGBEE_INFORMATION_LOGICAL_TYPE_END_DEVICE    = 0x02
00951 } EmberAfZigbeeInformationLogicalType;
00952
00953 typedef enum {
00954     EMBER_ZCL_KEY_INDEX DEVELOPMENT      = 0x00,
00955     EMBER_ZCL_KEY_INDEX MASTER          = 0x04,
00956     EMBER_ZCL_KEY_INDEX CERTIFICATION = 0x0F
00957 } EmberAfKeyIndex;
00958
00959 typedef enum {
00960     EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_NOT_SORTED      = 0x00,
00961     EMBER_ZCL_DEVICE_INFORMATION_RECORD_SORT_TOP_OF_THE_LIST = 0x01
00962 } EmberAfDeviceInformationRecordSort;
00963
00964 typedef enum {
00965     EMBER_ZCL_ZLL_STATUS_SUCCESS      = 0x00,
00966     EMBER_ZCL_ZLL_STATUS_FAILURE    = 0x01
00967 } EmberAfZllStatus;
00968
00971 #endif // __EMBER_AF_ENUMS__

```

9.53 esi-management.h File Reference

Data Structures

- struct [EmberAfPluginEsiManagementEsiEntry](#)

Defines

- #define [EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE](#)
- #define [EMBER_AF_PLUGIN_ESI_MANAGEMENT_MIN_ERASING_AGE](#)
- #define [EMBER_AF_PLUGIN_ESI_MANAGEMENT_PLUGIN_CALLBACK_TABLE_SIZE](#)

TypeDefs

- typedef void(* [EmberAfEsiManagementDeletionCallback](#)) (int8u)

Functions

- [EmberAfPluginEsiManagementEsiEntry * emberAfPluginEsiManagementEsiLookUpByShortIdAndEndpoint](#) (EmberNodeId shortId, int8u endpoint)
- [EmberAfPluginEsiManagementEsiEntry * emberAfPluginEsiManagementEsiLookUpByLongIdAndEndpoint](#) (EmberEUI64 longId, int8u endpoint)
- int8u [emberAfPluginEsiManagementIndexLookUpByShortIdAndEndpoint](#) (EmberNodeId shortId, int8u endpoint)
- int8u [emberAfPluginEsiManagementIndexLookUpByLongIdAndEndpoint](#) (EmberEUI64 longId, int8u endpoint)

- `EmberAfPluginEsiManagementEsiEntry * emberAfPluginEsiManagementEsiLookUpByIndex (int8u index)`
- `EmberAfPluginEsiManagementEsiEntry * emberAfPluginEsiManagementGetNextEntry (EmberAfPluginEsiManagementEsiEntry *entry, int8u age)`
- `EmberAfPluginEsiManagementEsiEntry * emberAfPluginEsiManagementGetFreeEntry (void)`
- `void emberAfPluginEsiManagementDeleteEntry (int8u index)`
- `void emberAfPluginEsiManagementAgeAllEntries (void)`
- `void emberAfPluginEsiManagementClearTable (void)`
- `boolean emberAfPluginEsiManagementSubscribeToDeleteAnnouncements (EmberAfEsiManagementDeletionCallback callback)`
- `int8u emberAfPluginEsiManagementUpdateEsiAndGetIndex (const EmberAfClusterCommand *cmd)`

9.53.1 Define Documentation

9.53.1.1 `#define EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE`

Definition at line 11 of file `esi-management.h`.

9.53.1.2 `#define EMBER_AF_PLUGIN_ESI_MANAGEMENT_MIN_ERASING_AGE`

Definition at line 15 of file `esi-management.h`.

9.53.1.3 `#define EMBER_AF_PLUGIN_ESI_MANAGEMENT_PLUGIN_CALLBACK_TABLE_SIZE`

Definition at line 19 of file `esi-management.h`.

9.53.2 Typedef Documentation

9.53.2.1 `typedef void(* EmberAfEsiManagementDeletionCallback)(int8u)`

Definition at line 29 of file `esi-management.h`.

9.53.3 Function Documentation

9.53.3.1 `EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementEsiLookUpByShortIdAndEndpoint (EmberNodeID shortId, int8u endpoint)`

It allows to search in the ESI table by the pair node (short id, endpoint).

It returns a pointer to the entry if a matching entry was found, otherwise it returns NULL.

9.53.3.2 `EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementEsiLookUpByLongIdAndEndpoint (EmberEUI64 longId, int8u endpoint)`

It allows to search in the ESI table by the pair node (long id, endpoint).

It returns a pointer to the entry if a matching entry was found, otherwise it returns NULL.

9.53.3.3 int8u emberAfPluginEsiManagementIndexLookUpByShortIdAndEndpoint (EmberNodeid shortId, int8u endpoint)

It allows to retrieve the index of an entry that matches the passed short ID and endpoint.

It returns the index of the matching entry if a matching entry was found, otherwise it returns 0xFF.

9.53.3.4 int8u emberAfPluginEsiManagementIndexLookUpByLongIdAndEndpoint (EmberEUI64 longId, int8u endpoint)

It allows to retrieve the index of an entry that matches the passed long ID and endpoint.

It returns the index of the matching entry if a matching entry was found, otherwise it returns 0xFF.

9.53.3.5 EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementEsiLookUpByIndex (int8u index)

It allows to search in the ESI table by the table index.

It returns a pointer to the ESI entry stored at the index passed as parameter.

9.53.3.6 EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementGetNextEntry (EmberAfPluginEsiManagementEsiEntry * entry, int8u age)

This function can be used as an iterator to go through the entries in the table that are within a certain age threshold.

If the passed pointer is NULL, it returns the first active entry with age lesser or equal than the passed age parameter (if any). Otherwise it returns the next active entry that satisfy the age requirement. If there are no entries after the passed entry that satisfy the age requirement, it returns NULL.

9.53.3.7 EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementGetFreeEntry (void)

This function allows to obtain a free entry in the ESI table. It is the requester responsibility to properly set all the fields in the obtained free entry such as nodeId, age, etc. in order to avoid inconsistencies in the table.

Returns a free entry (if any), otherwise it clears the oldest entry whose age is at least EMBER_AF_PLUGIN_ESI_MANAGEMENT_MIN_ERASING_AGE (if any) and returns it, otherwise it returns NULL.

9.53.3.8 void emberAfPluginEsiManagementDeleteEntry (int8u index)

This function deletes the entry indicated by the parameter 'index' from the ESI table.

9.53.3.9 void emberAfPluginEsiManagementAgeAllEntries (void)

This function increases the age of all the active entries in the table. A non-active entry is an entry whose short ID is set to EMBER_NULL_NODE_ID.

9.53.3.10 void emberAfPluginEsiManagementClearTable (void)

This function clears the ESI table, i.e., it sets the short ID of each entry to EMBER_NULL_NODE_ID.

9.53.3.11 boolean emberAfPluginEsiManagementSubscribeToDeleteAnnouncements (EmberAfEsiManagementDeletionCallback *callback*)

This function allows a plugin to subscribe to ESI entries deletion announcements, by passing its own deletion callback function. Upon an entry deletion, all the deletion callback function are called passing the index of the deleted entry.

It returns TRUE if the subscription was successful, FALSE otherwise.

9.53.3.12 int8u emberAfPluginEsiManagementUpdateEsiAndGetIndex (const EmberAfClusterCommand * *cmd*)

This function performs the following steps:

- Search for the source node of the passed command in the ESI table.
- Adds a new entry in the ESI table if the source node is not present in the ESI table yet, or updates the current entry if needed.

Returns

The index of the source node of the passed command in the ESI table, or it returns 0xFF if the ESI was not present in the table and a new entry could not be added since the table was full.

9.54 esi-management.h

```

00001 /**
00002 // * esi-management.h
00003 // *
00004 // * It implements and manages the ESI table. The ESI table is shared among
00005 // * other plugins.
00006 // *
00007 // * Copyright 2011 by Ember Corporation. All rights reserved.
00008 // *80*
00009 /**
00010 #ifndef EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE
00011 #define EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE 3
00012 #endif //EMBER_AF_PLUGIN_ESI_MANAGEMENT_ESI_TABLE_SIZE
00013
00014 #ifndef EMBER_AF_PLUGIN_ESI_MANAGEMENT_MIN_ERASING_AGE
00015 #define EMBER_AF_PLUGIN_ESI_MANAGEMENT_MIN_ERASING_AGE 3
00016 #endif //EMBER_AF_PLUGIN_ESI_MANAGEMENT_MIN_ERASING_AGE
00017
00018 #ifndef EMBER_AF_PLUGIN_ESI_MANAGEMENT_PLUGIN_CALLBACK_TABLE_SIZE
00019 #define EMBER_AF_PLUGIN_ESI_MANAGEMENT_PLUGIN_CALLBACK_TABLE_SIZE 5
00020 #endif // EMBER_AF_PLUGIN_ESI_MANAGEMENT_PLUGIN_CALLBACK_TABLE_SIZE
00021
00022 typedef struct {
00023     EmberEUI64 eui64;
00024     EmberNodeId nodeId;
00025     int8u endpoint;
00026     int8u age; // Number of discovery cycles the ESI has not been discovered.
00027 } EmberAfPluginEsiManagementEsiEntry;
00028
00029 typedef void(*EmberAfEsiManagementDeletionCallback)(int8u);

```

```

00030
00037 EmberAfPluginEsiManagementEsiEntry*
00038     emberAfPluginEsiManagementEsiLookUpByShortIdAndEndpoint (EmberNodeId shortId,
00039             int8u endpoint);
00046 EmberAfPluginEsiManagementEsiEntry*
00047     emberAfPluginEsiManagementEsiLookUpByLongIdAndEndpoint (EmberEUI64 longId,
00048             int8u endpoint);
00056 int8u emberAfPluginEsiManagementIndexLookUpByShortIdAndEndpoint (EmberNodeId
00057             shortId,
00058                     int8u endpoint);
00066 int8u emberAfPluginEsiManagementIndexLookUpByLongIdAndEndpoint (EmberEUI64
00067             longId,
00068                     int8u endpoint);
00075 EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementEsiLookUpByIndex (
00076             int8u index);
00086 EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementGetNextEntry (
00087             EmberAfPluginEsiManagementEsiEntry* entry,
00088             int8u age);
00089 EmberAfPluginEsiManagementEsiEntry* emberAfPluginEsiManagementGetFreeEntry (void
00090             );
00100
00105 void emberAfPluginEsiManagementDeleteEntry (int8u index);
00106
00111 void emberAfPluginEsiManagementAgeAllEntries (void);
00112
00117 void emberAfPluginEsiManagementClearTable (void);
00118
00127 boolean emberAfPluginEsiManagementSubscribeToDeleteAnnouncements (
00128             EmberAfEsiManagementDeletionCallback callback);
00129
00139 int8u emberAfPluginEsiManagementUpdateEsiAndGetIndex (const EmberAfClusterCommand
00140             *cmd);
00141

```

9.55 fragmentation.h File Reference

Data Structures

- struct `txFragmentedPacket`
- struct `rxFragmentedPacket`

Defines

- #define `ZIGBEE_APSC_MAX_TRANSMIT_RETRIES`
- #define `EMBER_AF_PLUGIN_FRAGMENTATION_MAX_INCOMING_PACKETS`
- #define `EMBER_AF_PLUGIN_FRAGMENTATION_MAX_OUTGOING_PACKETS`
- #define `EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE`
- #define `EMBER_AF_FRAGMENTATION_EVENTS`

Enumerations

- enum `rxPacketStatus` { `EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_AVAILABLE`, `EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_ACKED`, `EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_IN_USE` }

Functions

- EmberStatus [emAfFragmentationSendUnicast](#) (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int8u *buffer, int16u bufLen)
- boolean [emAfFragmentationMessageSent](#) (EmberApsFrame *apsFrame, EmberStatus status)
- void [emAfFragmentationMessageSentHandler](#) (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame *apsFrame, int8u *buffer, int16u bufLen, EmberStatus status)
- boolean [emAfFragmentationIncomingMessage](#) (EmberApsFrame *apsFrame, EmberNodeId sender, int8u **buffer, int16u *bufLen)
- void [emAfFragmentationAbortReception](#) (EmberEventControl *control)

Variables

- EmberEventControl [emAfFragmentationEvents](#) [10]

9.55.1 Define Documentation

9.55.1.1 #define ZIGBEE_APSC_MAX_TRANSMIT_RETRIES

Definition at line 10 of file [fragmentation.h](#).

9.55.1.2 #define EMBER_AF_PLUGIN_FRAGMENTATION_MAX_INCOMING_PACKETS

Definition at line 14 of file [fragmentation.h](#).

9.55.1.3 #define EMBER_AF_PLUGIN_FRAGMENTATION_MAX_OUTGOING_PACKETS

Definition at line 18 of file [fragmentation.h](#).

9.55.1.4 #define EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE

Definition at line 22 of file [fragmentation.h](#).

9.55.1.5 #define EMBER_AF_FRAGMENTATION_EVENTS

Definition at line 33 of file [fragmentation.h](#).

9.55.2 Enumeration Type Documentation

9.55.2.1 enum rxPacketStatus

Enumerator:

EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_AVAILABLE
EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_ACKED
EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_IN_USE

Definition at line 86 of file [fragmentation.h](#).

9.55.3 Function Documentation

- 9.55.3.1 **EmberStatus emAfFragmentationSendUnicast (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int8u * buffer, int16u bufLen)**
- 9.55.3.2 **boolean emAfFragmentationMessageSent (EmberApsFrame * apsFrame, EmberStatus status)**
- 9.55.3.3 **void emAfFragmentationMessageSentHandler (EmberOutgoingMessageType type, int16u indexOrDestination, EmberApsFrame * apsFrame, int8u * buffer, int16u bufLen, EmberStatus status)**
- 9.55.3.4 **boolean emAfFragmentationIncomingMessage (EmberApsFrame * apsFrame, EmberNodeID sender, int8u ** buffer, int16u * bufLen)**
- 9.55.3.5 **void emAfFragmentationAbortReception (EmberEventControl * control)**

9.55.4 Variable Documentation

- 9.55.4.1 **EmberEventControl emAfFragmentationEvents[10]**

9.56 fragmentation.h

```

00001 /**
00002  * fragmentation.h
00003 /**
00004  * Splits long messages into smaller blocks for transmission and reassembles
00005  * received blocks.
00006 /**
00007  * Copyright 2010 by Ember Corporation. All rights reserved.
00008 *80*
00009 */
00010 #ifndef ZIGBEE_APSC_MAX_TRANSMIT_RETRIES
00011 #define ZIGBEE_APSC_MAX_TRANSMIT_RETRIES 3
00012 #endif //ZIGBEE_APSC_MAX_TRANSMIT_RETRIES
00013 #ifndef EMBER_AF_PLUGIN_FRAGMENTATION_MAX_INCOMING_PACKETS
00014 #define EMBER_AF_PLUGIN_FRAGMENTATION_MAX_INCOMING_PACKETS 2
00015 #endif //EMBER_AF_PLUGIN_FRAGMENTATION_MAX_INCOMING_PACKETS
00016
00017 #ifndef EMBER_AF_PLUGIN_FRAGMENTATION_MAX_OUTGOING_PACKETS
00018 #define EMBER_AF_PLUGIN_FRAGMENTATION_MAX_OUTGOING_PACKETS 2
00019 #endif //EMBER_AF_PLUGIN_FRAGMENTATION_MAX_OUTGOING_PACKETS
00020
00021 #ifndef EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE
00022 #define EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE 1500
00023 #endif //EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE
00024
00025 #ifndef EMBER_AF_PLUGIN_FRAGMENTATION_RX_WINDOW_SIZE
00026 #define EMBER_AF_PLUGIN_FRAGMENTATION_RX_WINDOW_SIZE 1
00027 #endif //EMBER_AF_PLUGIN_FRAGMENTATION_RX_WINDOW_SIZE
00028
00029 // TODO: We should have the App Builder generating these events. For now, I
00030 // manually added 10 events which means we will be able to set and accept up to
00031 // 10 incoming distinct fragmented packets. In AppBuilder the max incoming
00032 // packets number is capped to 10, therefore we will never run out of events.
00033 #define EMBER_AF_FRAGMENTATION_EVENTS \
00034     {&(emAfFragmentationEvents[0]), (void) \
00035         (*)(void)emAfFragmentationAbortReception}, \
00036     {&(emAfFragmentationEvents[1]), (void) \
00037         (*)(void)emAfFragmentationAbortReception}, \
00038     {&(emAfFragmentationEvents[3]), (void) \
00039         (*)(void)emAfFragmentationAbortReception}, \
00040     {&(emAfFragmentationEvents[4]), (void) \
00041         (*)(void)emAfFragmentationAbortReception}, \
00042     {&(emAfFragmentationEvents[5]), (void) \
00043         (*)(void)emAfFragmentationAbortReception}, \
00044     {&(emAfFragmentationEvents[6]), (void) \
00045         (*)(void)emAfFragmentationAbortReception}, \
00046     {&(emAfFragmentationEvents[7]), (void) \
00047         (*)(void)emAfFragmentationAbortReception}, \
00048     {&(emAfFragmentationEvents[8]), (void) \
00049         (*)(void)emAfFragmentationAbortReception}, \
00050     {&(emAfFragmentationEvents[9]), (void) \
00051         (*)(void)emAfFragmentationAbortReception}

```

```

00038     {&(emAfFragmentationEvents[5]), (void)
00039     (*)(void) emAfFragmentationAbortReception}, \
00040     {&(emAfFragmentationEvents[6]), (void)
00041     (*)(void) emAfFragmentationAbortReception}, \
00042     {&(emAfFragmentationEvents[7]), (void)
00043     (*)(void) emAfFragmentationAbortReception}, \
00044     {&(emAfFragmentationEvents[8]), (void)
00045     (*)(void) emAfFragmentationAbortReception}, \
00046     {&(emAfFragmentationEvents[9]), (void)
00047     (*)(void) emAfFragmentationAbortReception},
00048
00049 // -----
00050 // Sending
00051
00052 typedef struct {
00053     EmberOutgoingMessageType   messageType;
00054     int16u                      indexOrDestination;
00055     int8u                       sequence;
00056     EmberApsFrame*             apsFrame;
00057     #ifdef EZSP_APPLICATION_HAS_ROUTE_RECORD_HANDLER
00058     boolean                     sourceRoute;
00059     int8u                      relayCount;
00060     int16u                      relayList[Z_A_MAX_HOPS];
00061     #endif //EZSP_APPLICATION_HAS_ROUTE_RECORD_HANDLER
00062     int8u                      buffer[EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE];
00063     int16u                      bufLen;
00064     int8u                      fragmentLen;
00065     int8u                      fragmentCount;
00066     int8u                      fragmentBase;
00067     int8u                      fragmentsInTransit;
00068 }txFragmentedPacket;
00069
00070 EmberStatus emAfFragmentationSendUnicast(EmberOutgoingMessageType type,
00071                                         int16u indexOrDestination,
00072                                         EmberApsFrame *apsFrame,
00073                                         int8u *buffer,
00074                                         int16u bufLen);
00075
00076 boolean emAfFragmentationMessageSent(EmberApsFrame *apsFrame,
00077                                         EmberStatus status);
00078
00079 void emAfFragmentationMessageSentHandler(EmberOutgoingMessageType type,
00080                                         int16u indexOrDestination,
00081                                         EmberApsFrame *apsFrame,
00082                                         int8u *buffer,
00083                                         int16u bufLen,
00084                                         EmberStatus status);
00085
00086 // -----
00087 // Receiving.
00088
00089 typedef enum {
00090     EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_AVAILABLE      = 0,
00091     EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_ACKED         = 1,
00092     EMBER_AF_PLUGIN_FRAGMENTATION_RX_PACKET_IN_USE        = 2
00093 }rxPacketStatus;
00094
00095 typedef struct {
00096     rxPacketStatus status;
00097     int8u          buffer[EMBER_AF_PLUGIN_FRAGMENTATION_BUFFER_SIZE];
00098     EmberNodeId   fragmentSource;
00099     int8u          fragmentSequenceNumber;
00100    int8u          fragmentBase; // first fragment inside the rx window.
00101    int16u         windowFinger; //points to the first byte inside the rx window.
00102    int8u          fragmentsExpected; // total number of fragments expected.
00103    int8u          fragmentsReceived; // fragments received so far.
00104    int8u          fragmentMask; // bitmask of received fragments inside the rx
00105    window.
00106    int8u          lastfragmentLen; // Length of the last fragment.
00107    int8u          fragmentLen; // Length of the fragment inside the rx window.
00108    // All the fragments inside the rx window should
00109    have
00110    // the same length.
00111 }rxFragmentedPacket;
00112

```

```

00109 boolean emAfFragmentationIncomingMessage(EmberApsFrame *apsFrame,
00110                               EmberNodeId sender,
00111                               int8u **buffer,
00112                               int16u *bufLen);
00113
00114 void emAfFragmentationAbortReception(EmberEventControl* control);

```

9.57 generic-tunnel.h File Reference

Defines

- #define EMBER_AF_PLUGIN_GENERIC_TUNNEL_PROTOCOL_ADDRESS_SIZE

Functions

- void emAfPluginGenericTunnelPrintInfo (void)
- int8u * emAfPluginGenericTunnelGetProtocolAddress (int8u endpoint)

9.57.1 Define Documentation

9.57.1.1 #define EMBER_AF_PLUGIN_GENERIC_TUNNEL_PROTOCOL_ADDRESS_SIZE

Definition at line 9 of file [generic-tunnel.h](#).

9.57.2 Function Documentation

9.57.2.1 void emAfPluginGenericTunnelPrintInfo (void)

9.57.2.2 int8u* emAfPluginGenericTunnelGetProtocolAddress (int8u endpoint)

9.58 generic-tunnel.h

```

00001 // ****
00002 // * generic-tunnel.h
00003 // *
00004 // *
00005 // * Copyright 2009 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 #ifndef EMBER_AF_PLUGIN_GENERIC_TUNNEL_PROTOCOL_ADDRESS_SIZE
00009 #define EMBER_AF_PLUGIN_GENERIC_TUNNEL_PROTOCOL_ADDRESS_SIZE 8
00010 #endif
00011
00012 void emAfPluginGenericTunnelPrintInfo(void);
00013 int8u *emAfPluginGenericTunnelGetProtocolAddress(int8u endpoint);

```

9.59 groups-server.h File Reference

Functions

- void emAfPluginGroupsServerPrintInfo (void)

9.59.1 Function Documentation

9.59.1.1 void emAfPluginGroupsServerPrintInfo (void)

9.60 groups-server.h

```

00001 // ****
00002 // * groups-server.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // *80*
00007 // ****
00008 void emAfPluginGroupsServerPrintInfo(void);

```

9.61 ias-ace-server.h File Reference

Functions

- void [emAfIasAcePrintInfo](#) (void)

9.61.1 Function Documentation

9.61.1.1 void emAfIasAcePrintInfo (void)

9.62 ias-ace-server.h

```

00001 // ****
00002 // * ias-ace-server.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // *80*
00007 // ****
00008 void emAfIasAcePrintInfo(void);

```

9.63 ias-wd-server.h File Reference

Defines

- #define [ZCL_WARNING_INFO_MODE_MASK](#)
- #define [ZCL_WARNING_INFO_STOP](#)
- #define [ZCL_WARNING_INFO_BURGLAR](#)
- #define [ZCL_WARNING_INFO_FIRE](#)
- #define [ZCL_WARNING_INFO_EMERGENCY](#)
- #define [ZCL_WARNING_INFO_STROBE_MASK](#)
- #define [ZCL_WARNING_INFO_NO_STROBE](#)
- #define [ZCL_WARNING_INFO_STROBE](#)
- #define [ZCL_SQUAWK_INFO_MODE_MASK](#)
- #define [ZCL_SQUAWK_INFO_ARMED](#)
- #define [ZCL_SQUAWK_INFO_DISARMED](#)

- #define ZCL_SQUAWK_INFO_STROBE_MASK
- #define ZCL_SQUAWK_INFO_NO_STROBE
- #define ZCL_SQUAWK_INFO_STROBE
- #define ZCL_SQUAWK_INFO_LEVEL_MASK
- #define ZCL_SQUAWK_INFO_LOW
- #define ZCL_SQUAWK_INFO_MEDIUM
- #define ZCL_SQUAWK_INFO_HIGH
- #define ZCL_SQUAWK_INFO VERY_HIGH

9.63.1 Define Documentation

9.63.1.1 #define ZCL_WARNING_INFO_MODE_MASK

Definition at line 11 of file [ias-wd-server.h](#).

9.63.1.2 #define ZCL_WARNING_INFO_STOP

Definition at line 12 of file [ias-wd-server.h](#).

9.63.1.3 #define ZCL_WARNING_INFO_BURGLAR

Definition at line 13 of file [ias-wd-server.h](#).

9.63.1.4 #define ZCL_WARNING_INFO_FIRE

Definition at line 14 of file [ias-wd-server.h](#).

9.63.1.5 #define ZCL_WARNING_INFO_EMERGENCY

Definition at line 15 of file [ias-wd-server.h](#).

9.63.1.6 #define ZCL_WARNING_INFO_STROBE_MASK

Definition at line 17 of file [ias-wd-server.h](#).

9.63.1.7 #define ZCL_WARNING_INFO_NO_STROBE

Definition at line 18 of file [ias-wd-server.h](#).

9.63.1.8 #define ZCL_WARNING_INFO_STROBE

Definition at line 19 of file [ias-wd-server.h](#).

9.63.1.9 #define ZCL_SQUAWK_INFO_MODE_MASK

Definition at line 21 of file [ias-wd-server.h](#).

9.63.1.10 #define ZCL_SQUAWK_INFO_ARMED

Definition at line 22 of file [ias-wd-server.h](#).

9.63.1.11 #define ZCL_SQUAWK_INFO_DISARMED

Definition at line 23 of file [ias-wd-server.h](#).

9.63.1.12 #define ZCL_SQUAWK_INFO_STROBE_MASK

Definition at line 25 of file [ias-wd-server.h](#).

9.63.1.13 #define ZCL_SQUAWK_INFO_NO_STROBE

Definition at line 26 of file [ias-wd-server.h](#).

9.63.1.14 #define ZCL_SQUAWK_INFO_STROBE

Definition at line 27 of file [ias-wd-server.h](#).

9.63.1.15 #define ZCL_SQUAWK_INFO_LEVEL_MASK

Definition at line 29 of file [ias-wd-server.h](#).

9.63.1.16 #define ZCL_SQUAWK_INFO_LOW

Definition at line 30 of file [ias-wd-server.h](#).

9.63.1.17 #define ZCL_SQUAWK_INFO_MEDIUM

Definition at line 31 of file [ias-wd-server.h](#).

9.63.1.18 #define ZCL_SQUAWK_INFO_HIGH

Definition at line 32 of file [ias-wd-server.h](#).

9.63.1.19 #define ZCL_SQUAWK_INFO VERY HIGH

Definition at line 33 of file [ias-wd-server.h](#).

9.64 ias-wd-server.h

```
00001 // ****
00002 // * ias-wd.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
```

```

*80*
00006 // ****
00007 // -----
00008 // -----
00009 // Bits
00010 // -----
00011 #define ZCL_WARNING_INFO_MODE_MASK 0xF0
00012 #define ZCL_WARNING_INFO_STOP 0x00
00013 #define ZCL_WARNING_INFO_BURGLAR 0x10
00014 #define ZCL_WARNING_INFO_FIRE 0x20
00015 #define ZCL_WARNING_INFO_EMERGENCY 0x30
00016
00017 #define ZCL_WARNING_INFO_STROBE_MASK 0x0C
00018 #define ZCL_WARNING_INFO_NO_STROBE 0x00
00019 #define ZCL_WARNING_INFO_STROBE 0x04
00020
00021 #define ZCL_SQUAWK_INFO_MODE_MASK 0xF0
00022 #define ZCL_SQUAWK_INFO_ARMED 0x00
00023 #define ZCL_SQUAWK_INFO_DISARMED 0x10
00024
00025 #define ZCL_SQUAWK_INFO_STROBE_MASK 0x08
00026 #define ZCL_SQUAWK_INFO_NO_STROBE 0x00
00027 #define ZCL_SQUAWK_INFO_STROBE 0x08
00028
00029 #define ZCL_SQUAWK_INFO_LEVEL_MASK 0x03
00030 #define ZCL_SQUAWK_INFO_LOW 0x00
00031 #define ZCL_SQUAWK_INFO_MEDIUM 0x01
00032 #define ZCL_SQUAWK_INFO_HIGH 0x02
00033 #define ZCL_SQUAWK_INFO VERY_HIGH 0x03

```

9.65 ias-zone-table.h File Reference

Data Structures

- struct [EmberAfIasZoneTableEntry](#)

Defines

- #define [ZONE_TABLE_SIZE](#)
- #define [ZONE_ID_MAP_SECTION_SIZE](#)
- #define [ZONE_TABLE_MAP_SIZE](#)
- #define [ZONE_TABLE_VALUE_DEFAULT_8](#)
- #define [ZONE_TABLE_VALUE_DEFAULT_16](#)

Functions

- void [enroll](#) (int8u zoneId, int16u zoneType, int8u *ieeeAdd)
- void [unenroll](#) (int8u zoneId)
- void [initZoneTable](#) (void)
- void [getZoneIdMap](#) (int16u *map)
- [EmberAfIasZoneTableEntry](#) * [getZoneInfo](#) (int8u zoneId)
- [EmberAfStatus](#) [getNextZoneId](#) (int8u *zoneId)
- void [printZoneIdMap](#) (int16u *map)
- void [printZoneInfo](#) (int8u zoneId)
- void [printZoneTable](#) (void)

9.65.1 Define Documentation

9.65.1.1 #define ZONE_TABLE_SIZE

Definition at line 20 of file [ias-zone-table.h](#).

9.65.1.2 #define ZONE_ID_MAP_SECTION_SIZE

Definition at line 21 of file [ias-zone-table.h](#).

9.65.1.3 #define ZONE_TABLE_MAP_SIZE

Definition at line 22 of file [ias-zone-table.h](#).

9.65.1.4 #define ZONE_TABLE_VALUE_DEFAULT_8

Definition at line 23 of file [ias-zone-table.h](#).

9.65.1.5 #define ZONE_TABLE_VALUE_DEFAULT_16

Definition at line 24 of file [ias-zone-table.h](#).

9.65.2 Function Documentation

9.65.2.1 void enroll (int8u zoneld, int16u zoneType, int8u * ieeeAdd)

9.65.2.2 void unenroll (int8u zoneld)

9.65.2.3 void initZoneTable (void)

9.65.2.4 void getZoneIdMap (int16u * map)

9.65.2.5 EmberAfIasZoneTableEntry* getZoneInfo (int8u zoneld)

9.65.2.6 EmberAfStatus getNextZoneId (int8u * zoneld)

9.65.2.7 void printZoneIdMap (int16u * map)

9.65.2.8 void printZoneInfo (int8u zoneld)

9.65.2.9 void printZoneTable (void)

9.66 ias-zone-table.h

```
00001 // ****
00002 // * ias-zone-table.h
00003 // *
00004 // * The IAS ZONE Table maintains information related to the enrollment
00005 // * of security devices as defined by the ZCL Security and Safety
00006 // * Specification. (Document 075123r00ZB)
00007 // *
```

```

00008 // * This table provides for the functions required by the specification
00009 // * including, enroll, unenroll, retrieval of the Zone Id Map and
00010 // * retrieval of specific zone enrollment information.
00011 /**
00012 // * This table is intended to be included with any IAS Zone or ACE
00013 // * client responsible for maintaining information related to zone
00014 // * enrollment.
00015 /**
00016 /**
00017 // * Copyright 2007 by Ember Corporation. All rights reserved.
00018 *80*
00019 // ****
00020 #define ZONE_TABLE_SIZE 16
00021 #define ZONE_ID_MAP_SECTION_SIZE 16
00022 #define ZONE_TABLE_MAP_SIZE ZONE_TABLE_SIZE / ZONE_ID_MAP_SECTION_SIZE
00023 #define ZONE_TABLE_VALUE_DEFAULT_8 0xff
00024 #define ZONE_TABLE_VALUE_DEFAULT_16 0xffff
00025
00026 typedef struct {
00027     int16u zoneType;
00028     int8u ieeeAdd[8];
00029 } EmberAfIasZoneTableEntry;
00030
00031 void enroll(int8u zoneId, int16u zoneType, int8u* ieeeAdd);
00032 void unenroll(int8u zoneId);
00033 void initZoneTable(void);
00034 void getZoneIdMap(int16u *map);
00035 EmberAfIasZoneTableEntry *getZoneInfo(int8u zoneId);
00036 EmberAfStatus getNextZoneId(int8u* zoneId);
00037 void printZoneIdMap(int16u *map);
00038 void printZoneInfo(int8u zoneId);
00039 void printZoneTable(void);

```

9.67 identify.h File Reference

Functions

- boolean [emberAfIsDeviceIdentifying](#) (int8u endpoint)
- void [emAfIdentifyPrintInfo](#) (void)

9.67.1 Function Documentation

9.67.1.1 boolean [emberAfIsDeviceIdentifying](#) (int8u *endpoint*)

9.67.1.2 void [emAfIdentifyPrintInfo](#) (void)

9.68 identify.h

```

00001 // ****
00002 // * identify.h
00003 // *
00004 /**
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 *80*
00007 // ****
00008 boolean emberAfIsDeviceIdentifying(int8u endpoint);
00009 void emAfIdentifyPrintInfo(void);

```

9.69 interpan-callback.h File Reference

Functions

- boolean `emberAfPluginInterpanPreMessageReceivedCallback` (const `EmberAfInterpanHeader` *header, int8u msgLen, int8u *message)

9.70 interpan-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00025 boolean emberAfPluginInterpanPreMessageReceivedCallback(const
    EmberAfInterpanHeader * header,
00026                                     int8u msgLen,
00027                                     int8u * message);
00028
00029
00030

```

9.71 interpan.h File Reference

Defines

- #define `MAX_INTER_PAN_MAC_SIZE`
- #define `STUB_NWK_SIZE`
- #define `STUB_NWK_FRAME_CONTROL`
- #define `INTERPAN_APS_UNICAST_SIZE`
- #define `INTERPAN_APS_BROADCAST_SIZE`
- #define `INTERPAN_APS_MULTICAST_SIZE`
- #define `MAX_STUB_APS_SIZE`
- #define `MIN_STUB_APS_SIZE`
- #define `MAX_INTER_PAN_HEADER_SIZE`
- #define `INTERPAN_APS_FRAME_TYPE`
- #define `INTERPAN_APS_FRAME_TYPE_MASK`
- #define `INTERPAN_APS_FRAME_CONTROL_NO_DELIVERY_MODE`
- #define `INTERPAN_APS_FRAME_DELIVERY_MODE_MASK`
- #define `INTERPAN_APS_FRAME_SECURITY`
- #define `INTERPAN_APS_ENCRYPTION_OVERHEAD`
- #define `EMBER_AF_PLUGIN_INTERPAN_FILTER_LIST`

Functions

- boolean `emAfPluginInterpanProcessMessage` (int8u messageLength, int8u *messageContents)
- EmberStatus `emAfPluginInterpanSendRawMessage` (int8u length, int8u *message)
- EmberStatus `emAfInterpanApsCryptMessage` (boolean encrypt, int8u *apsFrame, int8u *messageLength, int8u apsHeaderLength, EmberEUI64 remoteEui64)

9.71.1 Detailed Description

Plugin for receiving InterPAN messages. See message for documentation.

Definition in file `interpan.h`.

9.71.2 Define Documentation

9.71.2.1 `#define MAX_INTER_PAN_MAC_SIZE`

Definition at line 23 of file [interpan.h](#).

9.71.2.2 `#define STUB_NWK_SIZE`

Definition at line 26 of file [interpan.h](#).

9.71.2.3 `#define STUB_NWK_FRAME_CONTROL`

Definition at line 27 of file [interpan.h](#).

9.71.2.4 `#define INTERPANAPS_UNICAST_SIZE`

Definition at line 33 of file [interpan.h](#).

9.71.2.5 `#define INTERPANAPS_BROADCAST_SIZE`

Definition at line 36 of file [interpan.h](#).

9.71.2.6 `#define INTERPANAPS_MULTICAST_SIZE`

Definition at line 43 of file [interpan.h](#).

9.71.2.7 `#define MAX_STUBAPS_SIZE`

Definition at line 45 of file [interpan.h](#).

9.71.2.8 `#define MIN_STUBAPS_SIZE`

Definition at line 46 of file [interpan.h](#).

9.71.2.9 `#define MAX_INTER_PAN_HEADER_SIZE`

Definition at line 48 of file [interpan.h](#).

9.71.2.10 `#define INTERPANAPS_FRAME_TYPE`

Definition at line 51 of file [interpan.h](#).

9.71.2.11 `#define INTERPANAPS_FRAME_TYPE_MASK`

Definition at line 52 of file [interpan.h](#).

9.71.2.12 #define INTERPANAPS_FRAME_CONTROL_NO_DELIVERY_MODE

Definition at line 55 of file [interpan.h](#).

9.71.2.13 #define INTERPANAPS_FRAME_DELIVERY_MODE_MASK

Definition at line 57 of file [interpan.h](#).

9.71.2.14 #define INTERPANAPS_FRAME_SECURITY

Definition at line 58 of file [interpan.h](#).

9.71.2.15 #define INTERPANAPS_ENCRYPTION_OVERHEAD

Definition at line 61 of file [interpan.h](#).

9.71.2.16 #define EMBER_AF_PLUGIN_INTERPAN_FILTER_LIST

Definition at line 63 of file [interpan.h](#).

9.71.3 Function Documentation

9.71.3.1 boolean emAfPluginInterpanProcessMessage (int8u *messageLength*, int8u * *messageContents*)

9.71.3.2 EmberStatus emAfPluginInterpanSendRawMessage (int8u *length*, int8u * *message*)

9.71.3.3 EmberStatus emAfInterpanApsCryptMessage (boolean *encrypt*, int8u * *apsFrame*, int8u * *messageLength*, int8u *apsHeaderLength*, EmberEUI64 *remoteEui64*)

9.72 interpan.h

```

00001
00009 // The three types of inter-PAN messages.  The values are actually the
00010 // corresponding APS frame controls.
00011 //
00012 // 0x03 is the special interPAN message type.  Unicast mode is 0x00,
00013 // broadcast mode is 0x08, and multicast mode is 0x0C.
00014 //
00015
00016 // MAC Frame Max size
00017 // - Frame control (2-bytes)
00018 // - Sequence (1-byte)
00019 // - Dest PAN ID (2-bytes)
00020 // - Dest long (8-bytes)
00021 // - Source PAN ID (2-bytes)
00022 // - Source long (8-bytes)
00023 #define MAX_INTER_PAN_MAC_SIZE 23
00024
00025 // NWK stub frame has two control bytes.
00026 #define STUB_NWK_SIZE 2
00027 #define STUB_NWK_FRAME_CONTROL 0x000B
00028
00029 // Interpan APS Unicast
00030 // - Frame Control (1-byte)
00031 // - Cluster ID (2-bytes)
00032 // - Profile ID (2-bytes)

```

```

00033 #define INTERPANAPS_UNICAST_SIZE 5
00034
00035 // Interpan APS Broadcast, same as unicast
00036 #define INTERPANAPS_BROADCAST_SIZE 5
00037
00038 // Interpan APS Multicast
00039 // - Frame Control (1-byte)
00040 // - Group ID (2-bytes)
00041 // - Cluster ID (2-bytes)
00042 // - Profile ID (2-bytes)
00043 #define INTERPANAPS_MULTICAST_SIZE 7
00044
00045 #define MAX_STUBAPS_SIZE (INTERPANAPS_MULTICAST_SIZE)
00046 #define MIN_STUBAPS_SIZE (INTERPANAPS_UNICAST_SIZE)
00047
00048 #define MAX_INTERPAN_HEADER_SIZE \
00049 (MAX_INTERPAN_MAC_SIZE + STUB_NWK_SIZE + MAX_STUBAPS_SIZE)
00050
00051 #define INTERPANAPS_FRAME_TYPE 0x03
00052 #define INTERPANAPS_FRAME_TYPE_MASK 0x03
00053
00054 // The only allowed APS FC value (without the delivery mode subfield)
00055 #define INTERPANAPS_FRAME_CONTROL_NO_DELIVERY_MODE (INTERPANAPS_FRAME_TYPE)
00056
00057 #define INTERPANAPS_FRAME_DELIVERY_MODE_MASK 0x0C
00058 #define INTERPANAPS_FRAME_SECURITY 0x20
00059
00060 // 5 byte AUX header + 4 byte MIC
00061 #define INTERPANAPS_ENCRYPTION_OVERHEAD (5 + 4)
00062
00063 #define EMBER_AF_PLUGIN_INTERPAN_FILTER_LIST \
00064 (EMBER_MAC_FILTER_MATCH_ENABLED \
00065 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_LOCAL \
00066 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_NON_LOCAL \
00067 | EMBER_MAC_FILTER_MATCH_ON_DEST_BROADCAST_SHORT \
00068 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00069 (EMBER_MAC_FILTER_MATCH_ENABLED \
00070 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_LOCAL \
00071 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_NON_LOCAL \
00072 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_SHORT \
00073 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00074 (EMBER_MAC_FILTER_MATCH_ENABLED \
00075 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_LOCAL \
00076 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_NON_LOCAL \
00077 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_LONG \
00078 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00079 (EMBER_MAC_FILTER_MATCH_ENABLED \
00080 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_LOCAL \
00081 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_LOCAL \
00082 | EMBER_MAC_FILTER_MATCH_ON_DEST_BROADCAST_SHORT \
00083 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00084 (EMBER_MAC_FILTER_MATCH_ENABLED \
00085 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_LOCAL \
00086 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_LOCAL \
00087 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_SHORT \
00088 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00089 (EMBER_MAC_FILTER_MATCH_ENABLED \
00090 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_LOCAL \
00091 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_LOCAL \
00092 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_LONG \
00093 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00094 (EMBER_MAC_FILTER_MATCH_ENABLED \
00095 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_BROADCAST \
00096 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_NON_LOCAL \
00097 | EMBER_MAC_FILTER_MATCH_ON_DEST_BROADCAST_SHORT \
00098 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00099 (EMBER_MAC_FILTER_MATCH_ENABLED \
00100 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_BROADCAST \
00101 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_NON_LOCAL \
00102 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_SHORT \
00103 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00104 (EMBER_MAC_FILTER_MATCH_ENABLED \
00105 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_BROADCAST \
00106 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_NON_LOCAL \
00107 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_LONG \
00108 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG), \
00109 (EMBER_MAC_FILTER_MATCH_ENABLED \
00110 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_BROADCAST \
00111 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_LOCAL \
00112 | EMBER_MAC_FILTER_MATCH_ON_DEST_BROADCAST_SHORT \

```

```

0013 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG),           \
0014 (EMBER_MAC_FILTER_MATCH_ENABLED                \
0015 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_BROADCAST \
0016 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_LOCAL    \
0017 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_SHORT \
0018 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG),         \
0019 (EMBER_MAC_FILTER_MATCH_ENABLED                \
0020 | EMBER_MAC_FILTER_MATCH_ON_PAN_DEST_BROADCAST \
0021 | EMBER_MAC_FILTER_MATCH_ON_PAN_SOURCE_LOCAL    \
0022 | EMBER_MAC_FILTER_MATCH_ON_DEST_UNICAST_LONG   \
0023 | EMBER_MAC_FILTER_MATCH_ON_SOURCE_LONG),         \
0024
0025 boolean emAfPluginInterpanProcessMessage(int8u messageLength,
0026                               int8u *messageContents);
0027
0028 EmberStatus emAfPluginInterpanSendRawMessage(int8u length, int8u* message);
0029
0030 EmberStatus emAfInterpanApsCryptMessage(boolean encrypt,
0031                               int8u* apsFrame,
0032                               int8u* messageLength,
0033                               int8u apsHeaderLength,
0034                               EmberEUI64 remoteEui64);

```

9.73 key-establishment-storage.h File Reference

Functions

- boolean [storePublicPartnerData](#) (boolean *isCertificate*, int8u **data*)
- boolean [retrieveAndClearPublicPartnerData](#) (EmberCertificateData **partnerCertificate*, EmberPublicKeyData **partnerEphemeralPublicKey*)
- boolean [storeSmac](#) (EmberSmacData **smac*)
- boolean [getSmacPointer](#) (EmberSmacData ***smacPtr*)
- void [clearAllTemporaryPublicData](#) (void)

9.73.1 Function Documentation

9.73.1.1 boolean [storePublicPartnerData](#) (boolean *isCertificate*, int8u * *data*)

9.73.1.2 boolean [retrieveAndClearPublicPartnerData](#) (EmberCertificateData * *partnerCertificate*, EmberPublicKeyData * *partnerEphemeralPublicKey*)

9.73.1.3 boolean [storeSmac](#) (EmberSmacData * *smac*)

9.73.1.4 boolean [getSmacPointer](#) (EmberSmacData ** *smacPtr*)

9.73.1.5 void [clearAllTemporaryPublicData](#) (void)

9.74 key-establishment-storage.h

```

00001 // ****
00002 // * key-establishment-storage.h
00003 // *
00004 // * API for the storage of public temporary partner data.
00005 // * - Partner Certificate
00006 // * - Partner Ephemeral Public Key
00007 // * - A single SMAC
00008 // *
00009 // * Copyright 2008 by Ember Corporation. All rights reserved.
00010 // * 80*
00011 // ****

```

```

00012 // If isCertificate is FALSE, data is a public key.
00013 boolean storePublicPartnerData(boolean isCertificate,
00014                               int8u* data);
00015 boolean retrieveAndClearPublicPartnerData(EmberCertificateData*
00016                                              partnerCertificate,
00017                                              EmberPublicKeyData*
00018                                              partnerEphemeralPublicKey);
00019 boolean storeSmac(EmberSmacData* smac);
00020 boolean getSmacPointer(EmberSmacData** smacPtr);
00021 void clearAllTemporaryPublicData(void);

```

9.75 key-establishment.h File Reference

Defines

- #define EM_AF_KE_INITIATE_SIZE
- #define EM_AF_KE_EPHEMERAL_SIZE
- #define EM_AF_KE_SMAC_SIZE
- #define EM_AF_KE_TERMINATE_SIZE
- #define APS_ACK_TIMEOUT_SECONDS
- #define DEFAULT_EPHEMERAL_DATA_GENERATE_TIME_SECONDS
- #define DEFAULT_GENERATE_SHARED_SECRET_TIME_SECONDS
- #define emAfPluginKeyEstablishmentGenerateCbkeKeysHandler
- #define emAfPluginKeyEstablishmentCalculateSmacsHandler
- #define TERMINATE_STATUS_STRINGS
- #define UNKNOWN_TERMINATE_STATUS

Variables

- PGM int8u emAfKeyEstablishMessageToDataSize []

9.75.1 Define Documentation

9.75.1.1 #define EM_AF_KE_INITIATE_SIZE

Definition at line 10 of file [key-establishment.h](#).

9.75.1.2 #define EM_AF_KE_EPHEMERAL_SIZE

Definition at line 12 of file [key-establishment.h](#).

9.75.1.3 #define EM_AF_KE_SMAC_SIZE

Definition at line 13 of file [key-establishment.h](#).

9.75.1.4 #define EM_AF_KE_TERMINATE_SIZE

Definition at line 16 of file [key-establishment.h](#).

9.75.1.5 #define APS_ACK_TIMEOUT_SECONDS

Definition at line 18 of file [key-establishment.h](#).

9.75.1.6 #define DEFAULT_Ephemeral_Data_Generate_Time_Seconds

Definition at line 22 of file [key-establishment.h](#).

9.75.1.7 #define DEFAULT_Generate_Shared_Secret_Time_Seconds

Definition at line 23 of file [key-establishment.h](#).

9.75.1.8 #define emAfPluginKeyEstablishmentGenerateCbkeKeysHandler

Definition at line 31 of file [key-establishment.h](#).

9.75.1.9 #define emAfPluginKeyEstablishmentCalculateSmacsHandler

Definition at line 32 of file [key-establishment.h](#).

9.75.1.10 #define TERMINATE_STATUS_STRINGS

Definition at line 35 of file [key-establishment.h](#).

9.75.1.11 #define UNKNOWN_TERMINATE_STATUS

Definition at line 44 of file [key-establishment.h](#).

9.75.2 Variable Documentation**9.75.2.1 PGM int8u emAfKeyEstablishMessageToDataSize[]****9.76 key-establishment.h**

```

00001 // ****
00002 // * key-establishment.h
00003 // *
00004 // *
00005 // * Copyright 2008 by Ember Corporation. All rights reserved.
00006 // *80*
00007 // ****
00008
00009 // Init - bytes: suite (2), key gen time (1), derive secret time (1), cert (48)
00010 #define EM_AF_KE_INITIATE_SIZE (2 + 1 + 1 + EMBER_CERTIFICATE_SIZE)
00011
00012 #define EM_AF_KE_EPHEMERAL_SIZE EMBER_PUBLIC_KEY_SIZE
00013 #define EM_AF_KE_SMAC_SIZE EMBER_SMAC_SIZE
00014
00015 // Terminate - bytes: status (1), wait time (1), suite (2)
00016 #define EM_AF_KE_TERMINATE_SIZE (1 + 1 + 2)
00017
00018 #define APS_ACK_TIMEOUT_SECONDS 1
00019

```

```

00020 // These values reported to the remote device as to how long the local
00021 // device takes to execute these operations.
00022 #define DEFAULT_EPHEMERAL_DATA_GENERATE_TIME_SECONDS (10 +
    APS_ACK_TIMEOUT_SECONDS)
00023 #define DEFAULT_GENERATE_SHARED_SECRET_TIME_SECONDS (15 +
    APS_ACK_TIMEOUT_SECONDS)
00024
00025 extern PGM int8u emAfKeyEstablishMessageToDataSize[];
00026
00027 #ifdef EZSP_HOST
00028     #define emAfPluginKeyEstablishmentGenerateCbkeKeysHandler
        ezspGenerateCbkeKeysHandler
00029     #define emAfPluginKeyEstablishmentCalculateSmacsHandler
        ezspCalculateSmacsHandler
00030 #else
00031     #define emAfPluginKeyEstablishmentGenerateCbkeKeysHandler
        emberGenerateCbkeKeysHandler
00032     #define emAfPluginKeyEstablishmentCalculateSmacsHandler
        emberCalculateSmacshandler
00033 #endif
00034
00035 #define TERMINATE_STATUS_STRINGS { \
00036     "Success", \
00037     "Unknown Issuer", \
00038     "Bad Key Confirm", \
00039     "Bad Message", \
00040     "No resources", \
00041     "Unsupported suite", \
00042     "???", \
00043 }
00044 #define UNKNOWN_TERMINATE_STATUS 6

```

9.77 level-control.h File Reference

Defines

- #define EMBER_AF_PLUGIN_LEVEL_CONTROL_TICKS_PER_SECOND
- #define EMBER_AF_PLUGIN_LEVEL_CONTROL_TICK_TIME
- #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MINIMUM_LEVEL
- #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MAXIMUM_LEVEL

Functions

- void [emAfPluginLevelControlClusterOnOffEffectHandler](#) (int8u commandId, int8u level, boolean onLevel, int16u transitionTime)

9.77.1 Define Documentation

9.77.1.1 #define EMBER_AF_PLUGIN_LEVEL_CONTROL_TICKS_PER_SECOND

Definition at line 12 of file [level-control.h](#).

9.77.1.2 #define EMBER_AF_PLUGIN_LEVEL_CONTROL_TICK_TIME

Definition at line 14 of file [level-control.h](#).

9.77.1.3 #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MINIMUM_LEVEL

Definition at line 21 of file [level-control.h](#).

9.77.1.4 #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MAXIMUM_LEVEL

Definition at line 29 of file [level-control.h](#).

9.77.2 Function Documentation

9.77.2.1 void emAfPluginLevelControlClusterOnOffEffectHandler (int8u commandId, int8u level, boolean onLevel, int16u transitionTime)

9.78 level-control.h

```

0001 // ****
0002 // * level-control.h
0003 // *
0004 // *
0005 // * Copyright 2007 by Ember Corporation. All rights reserved.
0006 // * * * * *
0007
0008 // Rate of level control tick execution.
0009 // To increase tick frequency (for more granular updates of device state based
0010 // on level), redefine EMBER_AF_PLUGIN_LEVEL_CONTROL_TICKS_PER_SECOND.
0011 #ifndef EMBER_AF_PLUGIN_LEVEL_CONTROL_TICKS_PER_SECOND
0012     #define EMBER_AF_PLUGIN_LEVEL_CONTROL_TICKS_PER_SECOND 32
0013 #endif
0014 #define EMBER_AF_PLUGIN_LEVEL_CONTROL_TICK_TIME \
0015     (MILLISECOND_TICKS_PER_SECOND / \
0016      EMBER_AF_PLUGIN_LEVEL_CONTROL_TICKS_PER_SECOND)
0017 #ifndef EMBER_AF_PLUGIN_LEVEL_CONTROL_MINIMUM_LEVEL
0018     #ifdef EMBER_ZLL_STACK
0019         #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MINIMUM_LEVEL 0x01
0020     #else
0021         #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MINIMUM_LEVEL 0x00
0022     #endif
0023 #endif
0024
0025 #ifndef EMBER_AF_PLUGIN_LEVEL_CONTROL_MAXIMUM_LEVEL
0026     #ifdef EMBER_ZLL_STACK
0027         #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MAXIMUM_LEVEL 0xFE
0028     #else
0029         #define EMBER_AF_PLUGIN_LEVEL_CONTROL_MAXIMUM_LEVEL 0xFF
0030     #endif
0031 #endif
0032
0033 // Method to handle effects on level-control cluster from
0034 // on-off commands
0035 void emAfPluginLevelControlClusterOnOffEffectHandler(int8u commandId,
0036                                         int8u level,
0037                                         boolean onLevel,
0038                                         int16u transitionTime);

```

9.79 load-control-event-table.h File Reference

```
#include "../../include/af.h"
```

Defines

- #define RANDOMIZE_START_TIME_FLAG
- #define RANDOMIZE_END_TIME_FLAG
- #define CANCEL_WITH_RANDOMIZATION

Enumerations

- enum { `ENTRY_VOID`, `ENTRY_SCHEDULED`, `ENTRY_STARTED`, `ENTRY_IS_SUPERSEDED_EVENT`, `ENTRY_IS_CANCELLED_EVENT` }
- enum { `EVENT_OPT_FLAG_OPT_IN`, `EVENT_OPT_FLAG_PARTIAL` }

Functions

- void `afLoadControlEventTableInit` (int8u endpoint)
- void `emAfScheduleLoadControlEvent` (`EmberAfLoadControlEvent` *event)
- void `emAfLoadControlEventTableTick` (int8u endpoint)
- boolean `emAfCancelAllLoadControlEvents` (int8u cancelControl)
- void `emAfCancelLoadControlEvent` (int32u eventId, int8u cancelControl, int32u effectiveTime)
- void `afScheduleCancelEvent` (`EmberAfLoadControlEvent` *e)
- void `emAfLoadControlEventOptInOrOut` (int32u eventId, boolean optIn)
- void `emberAfEventAction` (`EmberAfLoadControlEvent` *event, int8u eventStatus, int8u sequenceNumber, int8u esiIndex)
- void `emAfNoteSignatureFailure` (void)
- void `emAfLoadControlEventTablePrint` (void)
- void `emAfLoadControlEventTableInit` (void)
- void `emAfLoadControlEventTableClear` (void)

9.79.1 Define Documentation

9.79.1.1 #define RANDOMIZE_START_TIME_FLAG

Definition at line 37 of file `load-control-event-table.h`.

9.79.1.2 #define RANDOMIZE_END_TIME_FLAG

Definition at line 38 of file `load-control-event-table.h`.

9.79.1.3 #define CANCEL_WITH_RANDOMIZATION

Definition at line 40 of file `load-control-event-table.h`.

9.79.2 Enumeration Type Documentation

9.79.2.1 anonymous enum

Enumerator:

`ENTRY_VOID`
`ENTRY_SCHEDULED`
`ENTRY_STARTED`
`ENTRY_IS_SUPERSEDED_EVENT`
`ENTRY_IS_CANCELLED_EVENT`

Definition at line 43 of file `load-control-event-table.h`.

9.79.2.2 anonymous enum

Enumerator:

EVENT_OPT_FLAG_OPT_IN
EVENT_OPT_FLAG_PARTIAL

Definition at line 51 of file [load-control-event-table.h](#).

9.79.3 Function Documentation

9.79.3.1 void afLoadControlEventTableInit (int8u *endpoint*)

9.79.3.2 void emAfScheduleLoadControlEvent (EmberAfLoadControlEvent * *event*)

This function is used to schedule events in the load control event table. The interface expects that the user will populate a LoadControlEvent with all the necessary fields and will pass a pointer to this event. The passed event will be copied into the event table so it does not need to survive the call to scheduleEvent.

A call to this function always generates an event response OTA

9.79.3.3 void emAfLoadControlEventTableTick (int8u *endpoint*)

Tells the Event table when a tick has taken place. This function should be called by the cluster that uses the event table.

9.79.3.4 boolean emAfCancelAllLoadControlEvents (int8u *cancelControl*)

Used to cancel all events in the event table

Returns

A boolean value indicating that a response was generated for this action.

9.79.3.5 void emAfCancelLoadControlEvent (int32u *eventId*, int8u *cancelControl*, int32u *effectiveTime*)

Used to cancel an event in the event table

A call to this function always generates an event response OTA.

9.79.3.6 void afScheduleCancelEvent (EmberAfLoadControlEvent * *e*)

Used to schedule a call to cancel an event. Takes a LoadControlEvent struct which is used to encapsulate the necessary information for the scheduled cancel.

The scheduleCancelEvent function only uses three fields from the LoadControlEvent struct, eventId, startTime, and eventControl, as follows:

eventId: The eventId of the event to cancel.

startTime: The starttime of the event should be the same as the effective time of the cancel and will be used to schedule the call to cancel.

eventControl: The eventControl of the event should be the same as the cancelControl passed when sending the initial cancel event call.

NOTE: A call to cancelAllEvents() will wipe out this scheduled cancel as well as all other events which should be ok, since the event scheduled to cancel would be affected as well by the cancel all call anyway.

9.79.3.7 void emAfLoadControlEventOptInOrOut (int32u eventId, boolean optIn)

An interface for opting in and out of an event

9.79.3.8 void emberAfEventAction (EmberAfLoadControlEvent * event, int8u eventStatus, int8u sequenceNumber, int8u esIndex)

Called by the event table when an events status has changed. This handle should be used to inform the ESP(s) and or react to scheduled events. The event table will take care of clearing itself if the event is completed.

9.79.3.9 void emAfNoteSignatureFailure (void)

A routine that prints a message indicating an attempt to append a signature to the event status message has failed.

9.79.3.10 void emAfLoadControlEventTablePrint (void)

Prints the load control event table

9.79.3.11 void emAfLoadControlEventTableInit (void)

Initialization function.

9.79.3.12 void emAfLoadControlEventTableClear (void)

9.80 load-control-event-table.h

```

00001 // ****
00002 // * load-control-event-table.h
00003 // *
00004 // * The Demand Response Load Control Event Table is responsible
00005 // * for keeping track of all load control events scheduled
00006 // * by the Energy Service Provider. This module provides
00007 // * interfaces used to schedule and inform load shedding
00008 // * devices of scheduled events.
00009 // *
00010 // * Any code that uses this event table is responsible for
00011 // * providing four things:
00012 // *   1. frequent calls to eventTableTick(), one per millisecond
00013 // *      will do. These calls are used to drive the
00014 // *      table's timing mechanism.
00015 // *   2. A way to get the real time by implementing
00016 // *      getCurrentTime(int32u *currentTime);
00017 // *   3. An implementation of eventAction which
00018 // *      will be called whenever event status changes
00019 // *
00020 // * The load control event table expects that currentTime, startTime
00021 // * and randomization are provided in seconds. And that duration is
00022 // * provided in minutes.
00023 // *

```

```

00024 // * The implementing code is responsible for over the
00025 // * air communication based on event status changes
00026 // * reported through the eventAction interface
00027 //
00028 // * Copyright 2007 by Ember Corporation. All rights reserved.
00029 // ****
00030
00031 #ifndef __LOAD_CONTROL_EVENT_TABLE_H__
00032 #define __LOAD_CONTROL_EVENT_TABLE_H__
00033
00034 // include global header for public LoadControlEvent struct
00035 #include "../../include/af.h"
00036
00037 #define RANDOMIZE_START_TIME_FLAG      1
00038 #define RANDOMIZE_END_TIME_FLAG       2
00039
00040 #define CANCEL_WITH_RANDOMIZATION     1
00041
00042 // Table entry status
00043 enum {
00044     ENTRY_VOID,
00045     ENTRY_SCHEDULED,
00046     ENTRY_STARTED,
00047     ENTRY_IS_SUPERSEDED_EVENT,
00048     ENTRY_IS_CANCELLED_EVENT
00049 };
00050
00051 enum {
00052     EVENT_OPT_FLAG_OPT_IN           = 0x01,
00053     EVENT_OPT_FLAG_PARTIAL          = 0x02
00054 };
00055
00056
00057 // EVENT TABLE API
00058
00059 void afLoadControlEventTableInit(int8u endpoint);
00060
00061
00073 void emAfScheduleLoadControlEvent(EmberAfLoadControlEvent *event);
00074
00080 void emAfLoadControlEventTableTick(int8u endpoint);
00081
00088 boolean emAfCancelAllLoadControlEvents(int8u cancelControl);
00089
00095 void emAfCancelLoadControlEvent(int32u eventId,
00096                                     int8u cancelControl,
00097                                     int32u effectiveTime);
00098
00124 void afScheduleCancelEvent(EmberAfLoadControlEvent *e);
00125
00129 void emAfLoadControlEventOptInOrOut(int32u eventId, boolean optIn);
00130
00131 // The module using this table is responsible for providing the following
00132 // functions.
00140 void emberAfEventAction(EmberAfLoadControlEvent *event,
00141                           int8u eventStatus,
00142                           int8u sequenceNumber,
00143                           int8u esiIndex);
00144
00149 void emAfNoteSignatureFailure(void);
00150
00153 void emAfLoadControlEventTablePrint(void);
00154
00158 void emAfLoadControlEventTableInit(void);
00159
00160 /*
00161 * Clear the event table.
00162 */
00163 void emAfLoadControlEventTableClear(void);
00164
00165 #endif //__LOAD_CONTROL_EVENT_TABLE_H__
00166

```

9.81 messaging-client-callback.h File Reference

Functions

- void `emberAfPluginMessagingClientDisplayMessageCallback` (EmberAfPluginMessagingClientMessage *message)
- void `emberAfPluginMessagingClientCancelMessageCallback` (EmberAfPluginMessagingClientMessage *message)

9.82 messaging-client-callback.h

```
00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00022 void emberAfPluginMessagingClientDisplayMessageCallback(
    EmberAfPluginMessagingClientMessage * message);
00023
00032 void emberAfPluginMessagingClientCancelMessageCallback(
    EmberAfPluginMessagingClientMessage * message);
00033
00034
00035
```

9.83 messaging-client.h File Reference

Defines

- #define `ZCL_MESSAGING_CLUSTER_TRANSMISSION_MASK`
- #define `ZCL_MESSAGING_CLUSTER_IMPORTANCE_MASK`
- #define `ZCL_MESSAGING_CLUSTER_CONFIRMATION_MASK`
- #define `ZCL_MESSAGING_CLUSTER_START_TIME_NOW`
- #define `ZCL_MESSAGING_CLUSTER_END_TIME_NEVER`
- #define `ZCL_MESSAGING_CLUSTER_DURATION_UNTIL_CHANGED`

Functions

- void `emAfPluginMessagingClientPrintInfo` (void)
- EmberAfStatus `emberAfPluginMessagingClientConfirmMessage` (void)

9.83.1 Define Documentation

9.83.1.1 #define ZCL_MESSAGING_CLUSTER_TRANSMISSION_MASK

Definition at line 12 of file `messaging-client.h`.

9.83.1.2 #define ZCL_MESSAGING_CLUSTER_IMPORTANCE_MASK

Definition at line 13 of file `messaging-client.h`.

9.83.1.3 #define ZCL_MESSAGING_CLUSTER_CONFIRMATION_MASK

Definition at line 14 of file [messaging-client.h](#).

9.83.1.4 #define ZCL_MESSAGING_CLUSTER_START_TIME_NOW

Definition at line 16 of file [messaging-client.h](#).

9.83.1.5 #define ZCL_MESSAGING_CLUSTER_END_TIME_NEVER

Definition at line 17 of file [messaging-client.h](#).

9.83.1.6 #define ZCL_MESSAGING_CLUSTER_DURATION_UNTIL_CHANGED

Definition at line 18 of file [messaging-client.h](#).

9.83.2 Function Documentation

9.83.2.1 void emAfPluginMessagingClientPrintInfo (void)

9.83.2.2 EmberAfStatus emberAfPluginMessagingClientConfirmMessage (void)

Confirm a message.

This function can be used to confirm a message. The Messaging client plugin will send the confirmation command to the endpoint on the node that sent the message.

Returns

`EMBER_ZCL_STATUS_SUCCESS` if the confirmation was sent, `EMBER_ZCL_STATUS_FAILURE` if an error occurred, or `EMBER_ZCL_STATUS_NOT_FOUND` if the message does not exist.

9.84 messaging-client.h

```

0001 // ****
0002 // * messaging-client.h
0003 // *
0004 // *
0005 // * Copyright 2010 by Ember Corporation. All rights reserved.
0006 // *
0007 // -----
0008 // -----
0009 // Message Control byte
0010 // -----
0011
0012 #define ZCL_MESSAGING_CLUSTER_TRANSMISSION_MASK (BIT(1) | BIT(0))
0013 #define ZCL_MESSAGING_CLUSTER_IMPORTANCE_MASK (BIT(3) | BIT(2))
0014 #define ZCL_MESSAGING_CLUSTER_CONFIRMATION_MASK BIT(7)
0015
0016 #define ZCL_MESSAGING_CLUSTER_START_TIME_NOW 0x00000000UL
0017 #define ZCL_MESSAGING_CLUSTER_END_TIME_NEVER 0xFFFFFFFFFUL
0018 #define ZCL_MESSAGING_CLUSTER_DURATION_UNTIL_CHANGED 0xFFFF
0019
0020 void emAfPluginMessagingClientPrintInfo(void);
0021
0033 EmberAfStatus emberAfPluginMessagingClientConfirmMessage(void);

```

9.85 messaging-server.h File Reference

Data Structures

- struct [EmberAfPluginMessagingServerMessage](#)
The message and metadata used by the Messaging server plugin.

Defines

- #define [ZCL_MESSAGING_CLUSTER_TRANSMISSION_MASK](#)
- #define [ZCL_MESSAGING_CLUSTER_IMPORTANCE_MASK](#)
- #define [ZCL_MESSAGING_CLUSTER_RESERVED_MASK](#)
- #define [ZCL_MESSAGING_CLUSTER_CONFIRMATION_MASK](#)
- #define [ZCL_MESSAGING_CLUSTER_START_TIME_NOW](#)
- #define [ZCL_MESSAGING_CLUSTER_END_TIME_NEVER](#)
- #define [ZCL_MESSAGING_CLUSTER_DURATION_UNTIL_CHANGED](#)

Functions

- boolean [emberAfPluginMessagingServerGetMessage](#) (EmberAfPluginMessagingServerMessage *message)
- void [emberAfPluginMessagingServerSetMessage](#) (const EmberAfPluginMessagingServerMessage *message)
- void [emAfPluginMessagingServerPrintInfo](#) (void)

9.85.1 Define Documentation

9.85.1.1 #define ZCL_MESSAGING_CLUSTER_TRANSMISSION_MASK

Definition at line [12](#) of file [messaging-server.h](#).

9.85.1.2 #define ZCL_MESSAGING_CLUSTER_IMPORTANCE_MASK

Definition at line [13](#) of file [messaging-server.h](#).

9.85.1.3 #define ZCL_MESSAGING_CLUSTER_RESERVED_MASK

Definition at line [14](#) of file [messaging-server.h](#).

9.85.1.4 #define ZCL_MESSAGING_CLUSTER_CONFIRMATION_MASK

Definition at line [15](#) of file [messaging-server.h](#).

9.85.1.5 #define ZCL_MESSAGING_CLUSTER_START_TIME_NOW

Definition at line [17](#) of file [messaging-server.h](#).

9.85.1.6 #define ZCL_MESSAGING_CLUSTER_END_TIME_NEVER

Definition at line 18 of file [messaging-server.h](#).

9.85.1.7 #define ZCL_MESSAGING_CLUSTER_DURATION_UNTIL_CHANGED

Definition at line 19 of file [messaging-server.h](#).

9.85.2 Function Documentation

9.85.2.1 boolean emberAfPluginMessagingServerGetMessage (EmberAfPluginMessagingServer-Message * *message*)

Get the message used by the Messaging server plugin.

This function can be used to get the message and metadata that the plugin will send to clients. For "start now" messages that are current or scheduled, the duration is adjusted to reflect how many minutes remain for the message. Otherwise, the start time and duration of "start now" messages reflect the actual start and the original duration.

Parameters

| | |
|----------------|---|
| <i>message</i> | The EmberAfPluginMessagingServerMessage structure describing the message. |
|----------------|---|

Returns

TRUE if the message is valid or FALSE if the message does not exist or is expired.

9.85.2.2 void emberAfPluginMessagingServerSetMessage (const EmberAfPluginMessagingServer-Message * *message*)

Set the message used by the Messaging server plugin.

This function can be used to set the message and metadata that the plugin will send to clients. Setting the start time to zero instructs clients to start the message now. For "start now" messages, the plugin will automatically adjust the duration reported to clients based on the original start time of the message.

Parameters

| | |
|----------------|--|
| <i>message</i> | The EmberAfPluginMessagingServerMessage structure describing the message. If NULL, the message is removed from the server. |
|----------------|--|

9.85.2.3 void emAfPluginMessagingServerPrintInfo (void)

9.86 messaging-server.h

```
00001 // ****
00002 // * messaging-server.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
*80*
```

```

00006 // ****
00007
00008 // -----
00009 // Message Control byte
00010 // -----
00011
00012 #define ZCL_MESSAGING_CLUSTER_TRANSMISSION_MASK (BIT(1) | BIT(0))
00013 #define ZCL_MESSAGING_CLUSTER_IMPORTANCE_MASK (BIT(3) | BIT(2))
00014 #define ZCL_MESSAGING_CLUSTER_RESERVED_MASK (BIT(6) | BIT(5) | BIT(4))
00015 #define ZCL_MESSAGING_CLUSTER_CONFIRMATION_MASK BIT(7)
00016
00017 #define ZCL_MESSAGING_CLUSTER_START_TIME_NOW 0x00000000UL
00018 #define ZCL_MESSAGING_CLUSTER_END_TIME_NEVER 0xFFFFFFFFFUL
00019 #define ZCL_MESSAGING_CLUSTER_DURATION_UNTIL_CHANGED 0xFFFF
00020
00028 typedef struct {
00030     int32u messageId;
00032     int8u messageControl;
00034     int32u startTime;
00038     int16u durationInMinutes;
00040     int8u message[EMBER_AF_PLUGIN_MESSAGING_SERVER_MESSAGE_SIZE + 1];
00041 } EmberAfPluginMessagingServerMessage;
00042
00057 boolean emberAfPluginMessagingServerGetMessage(
    EmberAfPluginMessagingServerMessage *message);
00058
00071 void emberAfPluginMessagingServerSetMessage(const
    EmberAfPluginMessagingServerMessage *message);
00072
00073 void emAfPluginMessagingServerPrintInfo(void);

```

9.87 network-find-callback.h File Reference

Functions

- void [emberAfPluginNetworkFindFinishedCallback](#) (EmberStatus status)

9.88 network-find-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00023 void emberAfPluginNetworkFindFinishedCallback(EmberStatus status);
00024
00025
00026

```

9.89 on-off.h File Reference

Functions

- [EmberAfStatus emberAfOnOffSetValue](#) (int8u endpoint, int8u command, boolean initiatedByLevelChange)

9.89.1 Function Documentation

9.89.1.1 EmberAfStatus emberAfOnOffSetValue (int8u *endpoint*, int8u *command*, boolean *initiatedByLevelChange*)

9.90 on-off.h

```
00001 // ****
00002 // * on-off.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // *80*
00007
00008 EmberAfStatus emberAfOnOffSetValue(int8u endpoint,
00009                     int8u command,
00010                     boolean initiatedByLevelChange);
```

9.91 ota-bootload-ncp.h File Reference

Functions

- boolean [emAfStartNcpBootloaderCommunications](#) (void)
- void [emAfPostNcpBootload](#) (boolean success)
- boolean [emAfRebootNcpAfterBootload](#) (void)
- boolean [emAfBootloadSendData](#) (const int8u *data, int16u length)
- boolean [emAfBootloadSendByte](#) (int8u byte)
- boolean [emAfBootloadWaitChar](#) (int8u *data, boolean expect, int8u expected)

9.91.1 Function Documentation

9.91.1.1 boolean emAfStartNcpBootloaderCommunications (void)

9.91.1.2 void emAfPostNcpBootload (boolean *success*)

9.91.1.3 boolean emAfRebootNcpAfterBootload (void)

9.91.1.4 boolean emAfBootloadSendData (const int8u * *data*, int16u *length*)

9.91.1.5 boolean emAfBootloadSendByte (int8u *byte*)

9.91.1.6 boolean emAfBootloadWaitChar (int8u * *data*, boolean *expect*, int8u *expected*)

9.92 ota-bootload-ncp.h

```
00001 // ****
00002 // * ota-bootload-ncp.h
00003 // *
00004 // * SPI/UART Interface to bootloading the NCP from a connected host.
00005 // *
00006 // * Copyright 2010 by Ember Corporation. All rights reserved.
00007 // *80*
00008
00009
00010 boolean emAfStartNcpBootloaderCommunications(void);
00011 void emAfPostNcpBootload(boolean success);
```

```

00012 boolean emAfRebootNcpAfterBootload(void);
00013
00014 // These primitives are called by the Xmodem code to pass data via
00015 // the specific mechanism (UART or SPI).
00016 boolean emAfBootloadSendData(const int8u *data, int16u length);
00017 boolean emAfBootloadSendByte(int8u byte);
00018 boolean emAfBootloadWaitChar(int8u *data, boolean expect, int8u expected);
00019

```

9.93 ota-bootload-xmodem.h File Reference

Functions

- void **emAfInitXmodemState** (boolean startImmediately)
- boolean **emAfSendXmodemData** (const int8u *data, int16u length, boolean finished)

9.93.1 Function Documentation

9.93.1.1 void **emAfInitXmodemState** (boolean *startImmediately*)

9.93.1.2 boolean **emAfSendXmodemData** (const int8u * *data*, int16u *length*, boolean *finished*)

9.94 ota-bootload-xmodem.h

```

00001 // ****
00002 // * ota-bootload-xmodem.c
00003 // *
00004 // * Routines for sending data via xmodem
00005 // *
00006 // * Copyright 2010 by Ember Corporation. All rights reserved.
00007 // *80*
00008 //
00009 // Initialize xmodem state machine for a new transfer
00010 // If startImmediately is set, will not wait for an initial 'C' character
00011 // to be received before sending the first block of data
00012 void emAfInitXmodemState(boolean startImmediately);
00013
00014 // Send a chunk of data via xmodem. Arbitrary lengths of data may be passed,
00015 // it will be broken up into appropriate sized chunks for transmission.
00016 // Xmodem
00017 // Note: This function will block for the duration of time required to send
00018 // the data that is passed in.
00019 // The "finished" flag should be set when called with the final chunk to be
00020 // transferred to terminate the transfer properly
00021 boolean emAfSendXmodemData(const int8u *data, int16u length, boolean finished);

```

9.95 ota-client-page-request-test.h File Reference

Functions

- void **pageRequestTest** (void)

9.95.1 Function Documentation

9.95.1.1 void pageRequestTest (void)

9.96 ota-client-page-request-test.h

```
00001
00002
00003 void pageRequestTest (void);
```

9.97 ota-client-page-request.h File Reference

Defines

- #define EM_AF_PAGE_REQUEST_BLOCK_SIZE

Typedefs

- typedef int8u EmAfPageRequestClientStatus

Enumerations

- enum { EM_AF_NO_PAGE_REQUEST, EM_AF_WAITING_PAGE_REQUEST_REPLIES, EM_AF_RETRY_MISSED_PACKETS, EM_AF_PAGE_REQUEST_COMPLETE, EM_AF_BLOCK_ALREADY_RECEIVED, EM_AF_PAGE_REQUEST_ERROR }

Functions

- int32u emAfInitPageRequestClient (int32u offsetForPageRequest, int32u totalImageSize)
- void emAfPageRequestTimerExpired (void)
- boolean emAfHandlingPageRequestClient (void)
- EmAfPageRequestClientStatus emAfGetCurrentPageRequestStatus (void)
- EmAfPageRequestClientStatus emAfNoteReceivedBlockForPageRequestClient (int32u offset)
- EmAfPageRequestClientStatus emAfNextMissedBlockRequestOffset (int32u *nextOffset)
- int32u emAfGetPageRequestMissedPacketDelayMs (void)
- int32u emAfGetFinishedPageRequestOffset (void)
- void emAfAbortPageRequest (void)

9.97.1 Define Documentation

9.97.1.1 #define EM_AF_PAGE_REQUEST_BLOCK_SIZE

Definition at line 21 of file [ota-client-page-request.h](#).

9.97.2 Typedef Documentation

9.97.2.1 typedef int8u EmAfPageRequestClientStatus

Definition at line 19 of file [ota-client-page-request.h](#).

9.97.3 Enumeration Type Documentation

9.97.3.1 anonymous enum

Enumerator:

```
EM_AF_NO_PAGE_REQUEST
EM_AF_WAITING_PAGE_REQUEST_REPLIES
EM_AF_RETRY_MISSED_PACKETS
EM_AF_PAGE_REQUEST_COMPLETE
EM_AF_BLOCK_ALREADY_RECEIVED
EM_AF_PAGE_REQUEST_ERROR
```

Definition at line 11 of file [ota-client-page-request.h](#).

9.97.4 Function Documentation

- 9.97.4.1 `int32u emAfInitPageRequestClient (int32u offsetForPageRequest, int32u totalImageSize)`
- 9.97.4.2 `void emAfPageRequestTimerExpired (void)`
- 9.97.4.3 `boolean emAfHandlingPageRequestClient (void)`
- 9.97.4.4 `EmAfPageRequestClientStatus emAfGetCurrentPageRequestStatus (void)`
- 9.97.4.5 `EmAfPageRequestClientStatus emAfNoteReceivedBlockForPageRequestClient (int32u offset)`
- 9.97.4.6 `EmAfPageRequestClientStatus emAfNextMissedBlockRequestOffset (int32u * nextOffset)`
- 9.97.4.7 `int32u emAfGetPageRequestMissedPacketDelayMs (void)`
- 9.97.4.8 `int32u emAfGetFinishedPageRequestOffset (void)`
- 9.97.4.9 `void emAfAbortPageRequest (void)`

9.98 ota-client-page-request.h

```
00001 // ****
00002 // * ota-client-page-request.h
00003 // *
00004 // * Zigbee Over-the-air bootload cluster for upgrading firmware and
00005 // * downloading device specific file.
00006 // * This file handles the page request feature for the client.
00007 // *
00008 // * Copyright 2010 by Ember Corporation. All rights reserved.
00009 // *80*
00010 ****
00011 enum {
00012     EM_AF_NO_PAGE_REQUEST      = 0,
00013     EM_AF_WAITING_PAGE_REQUEST_REPLIES = 1,
00014     EM_AF_RETRY_MISSED_PACKETS      = 2,
00015     EM_AF_PAGE_REQUEST_COMPLETE    = 3,
00016     EM_AF_BLOCK_ALREADY_RECEIVED   = 4,
```

```

00017     EM_AF_PAGE_REQUEST_ERROR          = 0xFF
00018 };
00019 typedef int8u EmAfPageRequestClientStatus;
00020
00021 #define EM_AF_PAGE_REQUEST_BLOCK_SIZE 32
00022
00023 // This routine returns a timer indicating how long we should wait for
00024 // the page request responses to come in. 0 if there was an error.
00025 int32u emAfInitPageRequestClient(int32u offsetForPageRequest,
00026                                     int32u totalImageSize);
00027 void emAfPageRequestTimerExpired(void);
00028 boolean emAfHandlingPageRequestClient(void);
00029 EmAfPageRequestClientStatus emAfGetCurrentPageRequestStatus(void);
00030 EmAfPageRequestClientStatus emAfNoteReceivedBlockForPageRequestClient(int32u
00031 offset);
00031 EmAfPageRequestClientStatus emAfNextMissedBlockRequestOffset(int32u* nextOffset
00032 );
00032
00033 int32u emAfGetPageRequestMissedPacketDelayMs(void);
00034 int32u emAfGetFinishedPageRequestOffset(void);
00035 void emAfAbortPageRequest(void);
00036
00037

```

9.99 ota-client-policy.h File Reference

Defines

- **#define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_IMAGE_TYPE_ID**
- **#define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_FIRMWARE_VERSION**
- **#define SECONDS_IN_MS**
- **#define MINUTES_IN_MS**
- **#define HOURS_IN_MS**
- **#define EMBER_AF_INVALID_HARDWARE_VERSION**
- **#define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_HARDWARE_VERSION**

TypeDefs

- **typedef int8u EmberAfOtaDownloadResult**

Enumerations

- **enum { EMBER_AF_OTA_DOWNLOAD_AND_VERIFY_SUCCESS, EMBER_AF_OTA_DO-
WNLOAD_TIME_OUT, EMBER_AF_OTA_VERIFY_FAILED, EMBER_AF_OTA_SERVER_-
ABORTED, EMBER_AF_OTA_CLIENT_ABORTED }**

9.99.1 Define Documentation

9.99.1.1 **#define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_IMAGE_TYPE_ID**

Definition at line 17 of file [ota-client-policy.h](#).

9.99.1.2 **#define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_FIRMWARE_VERSION**

Definition at line 21 of file [ota-client-policy.h](#).

9.99.1.3 #define SECONDS_IN_MS

Definition at line 24 of file [ota-client-policy.h](#).

9.99.1.4 #define MINUTES_IN_MS

Definition at line 25 of file [ota-client-policy.h](#).

9.99.1.5 #define HOURS_IN_MS

Definition at line 26 of file [ota-client-policy.h](#).

9.99.1.6 #define EMBER_AF_INVALID_HARDWARE_VERSION

Definition at line 33 of file [ota-client-policy.h](#).

9.99.1.7 #define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_HARDWARE_VERSION

Definition at line 35 of file [ota-client-policy.h](#).

9.99.2 Typedef Documentation**9.99.2.1 typedef int8u EmberAfOtaDownloadResult**

Definition at line 48 of file [ota-client-policy.h](#).

9.99.3 Enumeration Type Documentation**9.99.3.1 anonymous enum**

Enumerator:

EMBER_AF_OTA_DOWNLOAD_AND_VERIFY_SUCCESS
EMBER_AF_OTA_DOWNLOAD_TIME_OUT
EMBER_AF_OTA_VERIFY_FAILED
EMBER_AF_OTA_SERVER_ABORTED
EMBER_AF_OTA_CLIENT_ABORTED

Definition at line 41 of file [ota-client-policy.h](#).

9.100 ota-client-policy.h

```
00001 // ****
00002 // * ota-client-policy.h
00003 // *
00004 // * Config for Zigbee Over-the-air bootloader cluster for upgrading firmware and
00005 // * downloading device specific file.
```

```

0006 // *
0007 // * This file defines the interface for the customer's application to
0008 // * control the behavior of the OTA client.
0009 // *
0010 // * Copyright 2009 by Ember Corporation. All rights reserved.
0011 // *80*
0011 //
*****+
0012
0013
0014 // Note: EMBER_AF_MANUFACTURER_CODE defined in client's config
0015
0016 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_IMAGE_TYPE_ID)
0017     #define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_IMAGE_TYPE_ID      0x5678
0018 #endif
0019
0020 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_FIRMWARE_VERSION)
0021     #define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_FIRMWARE_VERSION 0x00000005L
0022 #endif
0023
0024 #define SECONDS_IN_MS (1000L)
0025 #define MINUTES_IN_MS (60 * SECONDS_IN_MS)
0026 #define HOURS_IN_MS (60 * MINUTES_IN_MS)
0027
0028 // By default if hardware version is not defined, it is not used.
0029 // Most products do not limit upgrade images based on the version.
0030 // Instead they have different images for different hardware. However
0031 // this can provide support for an image that only supports certain hardware
0032 // revision numbers.
0033 #define EMBER_AF_INVALID_HARDWARE_VERSION 0xFFFF
0034 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_HARDWARE_VERSION)
0035     #define EMBER_AF_PLUGIN_OTA_CLIENT_POLICY_HARDWARE_VERSION
0036         EMBER_AF_INVALID_HARDWARE_VERSION
0036 #endif
0037
0038 //
-----+
0039 // Custom Application Callbacks
0040
0041 enum {
0042     EMBER_AF_OTA_DOWNLOAD_AND_VERIFY_SUCCESS = 0,
0043     EMBER_AF_OTA_DOWNLOAD_TIME_OUT           = 1,
0044     EMBER_AF_OTA_VERIFY_FAILED              = 2,
0045     EMBER_AF_OTA_SERVER_ABORTED            = 3,
0046     EMBER_AF_OTA_CLIENT_ABORTED           = 4,
0047 };
0048 typedef int8u EmberAfOtaDownloadResult;
0049
0050

```

9.101 ota-client-signature-verify.h File Reference

Defines

- `#define MAX_DIGEST_CALCULATIONS_PER_CALL`

Functions

- `EmberAfImageVerifyStatus emAfOtaImageSignatureVerify (int16u maxHashCalculations, const - EmberAfOtaImageId *id, boolean newVerification)`
- `void emAfOtaVerifyStoredDataFinish (EmberAfImageVerifyStatus status)`
- `void emAfOtaClientSignatureVerifyPrintSigners (void)`

9.101.1 Define Documentation

9.101.1.1 #define MAX_DIGEST_CALCULATIONS_PER_CALL

Definition at line 27 of file [ota-client-signature-verify.h](#).

9.101.2 Function Documentation

9.101.2.1 EmberAfImageVerifyStatus emAfOtaImageSignatureVerify (int16u *maxHashCalculations*, const EmberAfOtaImageId * *id*, boolean *newVerification*)

9.101.2.2 void emAfOtaVerifyStoredDataFinish (EmberAfImageVerifyStatus *status*)

9.101.2.3 void emAfOtaClientSignatureVerifyPrintSigners (void)

9.102 ota-client-signature-verify.h

```

00001
00002
00003 // Hashing a file can be expensive for small processors. The
00004 // maxHashCalculations
00004 // determines how many iterations are made before returning back to the caller.
00005 // A value of 0 indicates to completely calculate the digest before returning.
00006 // A value greater than 0 means that a number of hashes will be performed and
00007 // then the routine will return EMBER_AF_OTA_VERIFICATION_IN_PROGRESS. In that
00008 // case it is expected that this function must be called repeatedly until it
00009 // returns another status code.
00010 // When EMBER_AF_OTA_VERIFICATION_WAIT is returned then no further calls
00011 // are necessary. The verify code will fire the callback
00012 // emAfOtaVerifyStoredDataFinish() when it has a result.
00013 EmberAfImageVerifyStatus emAfOtaImageSignatureVerify(int16u maxHashCalculations
00014
00014
00015
00015
00016
00017 // This is the maximum number of digest calculations we perform per call to
00018 // emAfOtaImageSignatureVerify(). Arbitrary chosen value to limit
00019 // time spent in this routine. A value of 0 means we will NOT return
00020 // until we are completely done with our digest calculations.
00021 // Empirically waiting until digest calculations are complete can
00022 // take quite a while for EZSP hosts (~40 seconds for a UART connected host).
00023 // So we want to make sure that other parts of the framework can run during
00024 // this time. On SOC systems a similar problem occurs. If we set this to 0
00025 // then emberTick() will not fire and therefore the watchdog timer will not be
00026 // serviced.
00027 #define MAX_DIGEST_CALCULATIONS_PER_CALL 5
00028
00029 void emAfOtaVerifyStoredDataFinish(EmberAfImageVerifyStatus status);
00030
00031 void emAfOtaClientSignatureVerifyPrintSigners(void);

```

9.103 ota-client.h File Reference

Defines

- #define EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_DELAY_MS
- #define EMBER_AF_OTA_SERVER_DISCOVERY_DELAY_MS
- #define EMBER_AF_OTA_QUERY_DELAY_MS
- #define EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_ERROR_THRESHOLD
- #define EMBER_AF_RUN_UPGRADE_REQUEST_DELAY_MS
- #define EMBER_AF_PLUGIN_OTA_CLIENT_UPGRADE_WAIT_THRESHOLD

- #define EMBER_AF_PLUGIN_OTA_CLIENT_PAGE_REQUEST_SIZE
- #define EMBER_AF_OTA_CLIENT_PAGE_REQUEST_SPACING_MS
- #define EMBER_AF_PLUGIN_OTA_CLIENT_VERIFY_DELAY_MS
- #define NULL_EUI64
- #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI0
- #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI1
- #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI2

Functions

- void emAfOtaClientStop (void)
- void emAfOtaClientPrintState (void)
- void emAfSendImageBlockRequestTest (void)
- void emAfSetPageRequest (boolean pageRequest)
- boolean emAfUsingPageRequest (void)
- void emAfOtaBootloadClusterClientResumeAfterErase (boolean success)

9.103.1 Define Documentation

9.103.1.1 #define EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_DELAY_MS

Definition at line 16 of file [ota-client.h](#).

9.103.1.2 #define EMBER_AF_OTA_SERVER_DISCOVERY_DELAY_MS

Definition at line 26 of file [ota-client.h](#).

9.103.1.3 #define EMBER_AF_OTA_QUERY_DELAY_MS

Definition at line 35 of file [ota-client.h](#).

9.103.1.4 #define EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_ERROR_THRESHOLD

Definition at line 41 of file [ota-client.h](#).

9.103.1.5 #define EMBER_AF_RUN_UPGRADE_REQUEST_DELAY_MS

Definition at line 50 of file [ota-client.h](#).

9.103.1.6 #define EMBER_AF_PLUGIN_OTA_CLIENT_UPGRADE_WAIT_THRESHOLD

Definition at line 57 of file [ota-client.h](#).

9.103.1.7 #define EMBER_AF_PLUGIN_OTA_CLIENT_PAGE_REQUEST_SIZE

Definition at line 61 of file [ota-client.h](#).

9.103.1.8 #define EMBER_AF_OTA_CLIENT_PAGE_REQUEST_SPACING_MS

Definition at line 67 of file [ota-client.h](#).

9.103.1.9 #define EMBER_AF_PLUGIN_OTA_CLIENT_VERIFY_DELAY_MS

Definition at line 75 of file [ota-client.h](#).

9.103.1.10 #define NULL_EUI64

Definition at line 78 of file [ota-client.h](#).

9.103.1.11 #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI0

Definition at line 82 of file [ota-client.h](#).

9.103.1.12 #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI1

Definition at line 86 of file [ota-client.h](#).

9.103.1.13 #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI2

Definition at line 90 of file [ota-client.h](#).

9.103.2 Function Documentation

9.103.2.1 void emAfOtaClientStop (void)

9.103.2.2 void emAfOtaClientPrintState (void)

9.103.2.3 void emAfSendImageBlockRequestTest (void)

9.103.2.4 void emAfSetPageRequest (boolean *pageRequest*)

9.103.2.5 boolean emAfUsingPageRequest (void)

9.103.2.6 void emAfOtaBootloadClusterClientResumeAfterErase (boolean *success*)

9.104 ota-client.h

```

00001
00002
00003 void emAfOtaClientStop(void);
00004 void emAfOtaClientPrintState(void);
00005 void emAfSendImageBlockRequestTest(void);
00006
00007 void emAfSetPageRequest(boolean pageRequest);
00008 boolean emAfUsingPageRequest(void);
00009
00010 void emAfOtaBootloadClusterClientResumeAfterErase(boolean success);
00011
00012 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_DELAY_MS)

```

```

00013 // How often the client will ask for a piece of an upgrade image being
00014 // actively downloaded. A rate of 0 means the client will pull down the data
00015 // as fast as it can.
00016 #define EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_DELAY_MS 0L
00017 #endif
00018
00019 // How often the OTA client looks for an OTA server when there is NOT
00020 // one present in the network. Once it has found one, it queries the
00021 // same one forever (or until it reboots).
00022 #if defined(EMBER_AF_PLUGIN_OTA_CLIENT_SERVER_DISCOVERY_DELAY_MINUTES)
00023 #define EMBER_AF_OTA_SERVER_DISCOVERY_DELAY_MS \
00024 (EMBER_AF_PLUGIN_OTA_CLIENT_SERVER_DISCOVERY_DELAY_MINUTES * MINUTES_IN_MS)
00025 #else
00026 #define EMBER_AF_OTA_SERVER_DISCOVERY_DELAY_MS (2 * MINUTES_IN_MS)
00027 #endif
00028
00029 // How often the OTA client asks the OTA server if there is a new image
00030 // available
00031 #if defined(EMBER_AF_PLUGIN_OTA_CLIENT_QUERY_DELAY_MINUTES)
00032 #define EMBER_AF_OTA_QUERY_DELAY_MS \
00033 (EMBER_AF_PLUGIN_OTA_CLIENT_QUERY_DELAY_MINUTES * MINUTES_IN_MS)
00034 #else
00035 #define EMBER_AF_OTA_QUERY_DELAY_MS (5 * MINUTES_IN_MS)
00036 #endif
00037
00038 // The maximum number of sequential errors when downloading that will trigger
00039 // the OTA client to abort the download.
00040 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_ERROR_THRESHOLD)
00041 #define EMBER_AF_PLUGIN_OTA_CLIENT_DOWNLOAD_ERROR_THRESHOLD 10
00042 #endif
00043
00044 // The delay between attempts to request to initiate the bootload
00045 // of a successfully downloaded file.
00046 #if defined(EMBER_AF_PLUGIN_OTA_CLIENT_RUN_UPGRADE_REQUEST_DELAY_MINUTES)
00047 #define EMBER_AF_RUN_UPGRADE_REQUEST_DELAY_MS \
00048 (EMBER_AF_PLUGIN_OTA_CLIENT_RUN_UPGRADE_REQUEST_DELAY_MINUTES *
MINUTES_IN_MS)
00049 #else
00050 #define EMBER_AF_RUN_UPGRADE_REQUEST_DELAY_MS (10 * MINUTES_IN_MS)
00051 #endif
00052
00053 // The maximum number of sequential errors when asking the OTA Server when to
00054 // upgrade that will cause the OTA client to apply the upgrade without the
00055 // server telling it to do so.
00056 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_UPGRADE_WAIT_THRESHOLD)
00057 #define EMBER_AF_PLUGIN_OTA_CLIENT_UPGRADE_WAIT_THRESHOLD 10
00058 #endif
00059
00060 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_PAGE_REQUEST_SIZE)
00061 #define EMBER_AF_PLUGIN_OTA_CLIENT_PAGE_REQUEST_SIZE 1024
00062 #endif
00063
00064 // The spacing requested by the client between the image blocks sent by the
00065 // server to the client during a page request.
00066 #if !defined(EMBER_AF_OTA_CLIENT_PAGE_REQUEST_SPACING_MS)
00067 #define EMBER_AF_OTA_CLIENT_PAGE_REQUEST_SPACING_MS 50L
00068 #endif
00069
00070 // This is the time delay between calls to emAfOtaImageDownloadVerify().
00071 // Verification can take a while (especially in the case of signature
00072 // checking for Smart Energy) so this provides the ability for other
00073 // parts of the system to run.
00074 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_VERIFY_DELAY_MS)
00075 #define EMBER_AF_PLUGIN_OTA_CLIENT_VERIFY_DELAY_MS 10L
00076 #endif
00077
00078 #define NULL_EUI64 { 0, 0, 0, 0, 0, 0, 0, 0 }
00079
00080 // A NULL eui64 is an invalid signer. It will never match.
00081 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI0)
00082 #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI0 NULL_EUI64
00083 #endif
00084
00085 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI1)
00086 #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI1 NULL_EUI64
00087 #endif
00088
00089 #if !defined(EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI2)
00090 #define EMBER_AF_PLUGIN_OTA_CLIENT_SIGNER_EUI2 NULL_EUI64
00091 #endif

```

```

00092
00093
00094 #if defined(EMBER_TEST)
00095 extern int8u emAfOtaClientStopDownloadPercentage;
00096 #endif
00097

```

9.105 ota-server-policy.h File Reference

Functions

- void [emAfOtaServerPolicyPrint](#) (void)
- void [emAfOtaServerSetQueryPolicy](#) (int8u value)
- void [emAfOtaServerSetBlockRequestPolicy](#) (int8u value)
- void [emAfOtaServerSetUpgradePolicy](#) (int8u value)
- boolean [emAfServerPageRequestTickCallback](#) (int16u relativeOffset, int8u blockSize)
- void [emAfSetPageRequestMissedBlockModulus](#) (int16u modulus)
- void [emAfOtaServerSetPageRequestPolicy](#) (int8u value)

9.105.1 Function Documentation

- 9.105.1.1 void [emAfOtaServerPolicyPrint](#) (void)
- 9.105.1.2 void [emAfOtaServerSetQueryPolicy](#) (int8u value)
- 9.105.1.3 void [emAfOtaServerSetBlockRequestPolicy](#) (int8u value)
- 9.105.1.4 void [emAfOtaServerSetUpgradePolicy](#) (int8u value)
- 9.105.1.5 boolean [emAfServerPageRequestTickCallback](#) (int16u *relativeOffset*, int8u *blockSize*)
- 9.105.1.6 void [emAfSetPageRequestMissedBlockModulus](#) (int16u *modulus*)
- 9.105.1.7 void [emAfOtaServerSetPageRequestPolicy](#) (int8u value)

9.106 ota-server-policy.h

```

00001 // ****
00002 // * ota-server-policy.h
00003 // *
00004 // * A sample policy file that implements the callbacks for the
00005 // * Zigbee Over-the-air bootload cluster server.
00006 // *
00007 // * Copyright 2010 by Ember Corporation. All rights reserved.
00008 // ****
00009
00010 void emAfOtaServerPolicyPrint(void);
00011
00012 void emAfOtaServerSetQueryPolicy(int8u value);
00013 void emAfOtaServerSetBlockRequestPolicy(int8u value);
00014 void emAfOtaServerSetUpgradePolicy(int8u value);
00015
00016 boolean emAfServerPageRequestTickCallback(int16u relativeOffset, int8u
00017 blockSize);
00017 void emAfSetPageRequestMissedBlockModulus(int16u modulus);
00018 void emAfOtaServerSetPageRequestPolicy(int8u value);

```

9.107 ota-server.h File Reference

Functions

- int8u [emAfOtaServerGetBlockSize](#) (void)
 - int8u [emAfOtaImageBlockRequestHandler](#) (EmberNodeId source, const [EmberAfOtaImageId](#) *id, int32u offset, int8u maxDataSize)
 - boolean [emAfOtaPageRequestErrorHandler](#) (void)
 - void [emAfOtaPageRequestTick](#) (int8u endpoint)
 - int8u [emAfOtaPageRequestHandler](#) (int8u endpoint, const [EmberAfOtaImageId](#) *id, int32u offset, int8u maxDataSize, int16u pageSize, int16u responseSpacing)
 - boolean [emAfOtaServerHandlingPageRequest](#) (void)
 - void [emberAfOtaServerSendUpgradeCommandCallback](#) (EmberNodeId dest, int8u endpoint, const [EmberAfOtaImageId](#) *id)

9.107.1 Function Documentation

9.107.1.1 int8u emAfOtaServerGetBlockSize (void)

9.107.1.2 int8u emAfOtaImageBlockRequestHandler (EmberNodeid source, const EmberAfOtaImageId * id, int32u offset, int8u maxDataSize)

9.107.1.3 boolean emAfOtaPageRequestErrorHandler (void)

9.107.1.4 void emAfOtaPageRequestTick (int8u endpoint)

9.107.1.5 int8u emAfOtaPageRequestHandler (int8u *endpoint*, const EmberAfOtaImageId * *id*, int32u *offset*, int8u *maxDataSize*, int16u *pageSize*, int16u *responseSpacing*)

9.107.1.6 boolean emAfOtaServerHandlingPageRequest (void)

9.107.1.7 void emberAfOtaServerSendUpgradeCommandCallback (EmberNodeID dest, int8u endpoint, const EmberAfOtaImageID * id)

9.108 ota-server.h

```
00001 // ****
00002 // * ota-server.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 int8u emAfOtaServerGetBlockSize(void);
00009 int8u emAfOtaImageBlockRequestHandler(EmberNodeId source,
00010                                     const EmberAfOtaImageId* id,
00011                                     int32u offset,
00012                                     int8u maxDataSize);
00013
00014 boolean emAfOtaPageRequestErrorHandler(void);
00015
00016 void emAfOtaPageRequestTick(int8u endpoint);
00017
00018 // Returns the status code to the request.
00019 int8u emAfOtaPageRequestHandler(int8u endpoint,
00020                                     const EmberAfOtaImageId* id,
00021                                     int32u offset,
```

```

00022             int8u maxDataSize,
00023             int16u pageSize,
00024             int16u responseSpacing);
00025
00026     boolean emAfOtaServerHandlingPageRequest(void);
00027
00028 // This will eventually be moved into a Plugin specific callbacks file.
00029 void emberAfOtaServerSendUpgradeCommandCallback(EmberNodeId dest,
00030                                         int8u endpoint,
00031                                         const EmberAfOtaImageId* id);
00032
00033
00034 #if defined(EMBER_TEST) && !defined(EM_AF_TEST_HARNESS_CODE)
00035     #define EM_AF_TEST_HARNESS_CODE
00036 #endif
00037

```

9.109 ota-static-file-data.h File Reference

Defines

- `#define STATIC_IMAGE_DATA`
- `#define STATIC_IMAGE_DATA_SIZE`

9.109.1 Define Documentation

9.109.1.1 `#define STATIC_IMAGE_DATA`

Definition at line 47 of file [ota-static-file-data.h](#).

9.109.1.2 `#define STATIC_IMAGE_DATA_SIZE`

Definition at line 73 of file [ota-static-file-data.h](#).

9.110 ota-static-file-data.h

```

00001 // Auto-generated C header created by ota-static-file.pl
00002 // Input file:
00003 //   app/framework/plugin/ota-storage-simple-ram/ota-static-sample.ota
00004 //   image-builder (C) 2010 by Ember Corporation.
00005 //   Version: 1.0
00006 //   ECC signature support present.
00007 //
00008 //
00009 //   File: app/framework/plugin/ota-storage-simple-ram/ota-static-sample.ota
00010 //   Magic Number:          0x0BEEF11E
00011 //   Header Version:       0x0100
00012 //   Header Length:        56 bytes
00013 //   Field Control:       0x0000
00014 //   Manufacturer ID:    0x1002
00015 //   Image Type:          0x5678
00016 //   Firmware Version:    0x00000005
00017 //   Stack Version:        0x0002
00018 //   Header String:        The latest and greatest upgrade.
00019 //   Total Image Size:    182 bytes
00020 //   Total Tags:           3
00021 //   ID:                  0xF000  (Manufacturer Specific)
00022 //   Length:               10 bytes
00023 //
00024 //   ID:                  0x0002  (ECDSA Signing Certificate)
00025 //   Length:                48 bytes
00026 //   Subject: (>)000D6F0000198B36

```

```

00027 //      Issuer:  (>)5445535453454341 (Certicom TEST CA)
00028 //
00029 //      ID:          0x0001 (ECDSA Signature)
00030 //      Length:       50 bytes
00031 //      Signer:     (>)000D6F0000198B36
00032 //      Data:        01C2C31CB8C40064 EABB3189AD8969EA
00033 //                  C25893183A023BD2 8D5FB2134D3E07B9
00034 //                  2E06A258E478D20C 7ACC
00035 //
00036 //
00037 // Using Certicom TEST CA issued certificate.
00038 //
00039 // Message Digest: E26A886E8030458DA084586F2DCB08A2
00040 //
00041 // Signature is valid
00042 //
00043 //
00044 // Found 1 files.
00045
00046
00047 #define STATIC_IMAGE_DATA { \
00048     0x1e, 0xf1, 0xee, 0x0b, 0x00, 0x01, 0x38, 0x00, \
00049     0x00, 0x00, 0x02, 0x10, 0x78, 0x56, 0x05, 0x00, \
00050     0x00, 0x00, 0x02, 0x00, 0x54, 0x68, 0x65, 0x20, \
00051     0x6c, 0x61, 0x74, 0x65, 0x73, 0x74, 0x20, 0x61, \
00052     0x6e, 0x64, 0x20, 0x67, 0x72, 0x65, 0x61, 0x74, \
00053     0x65, 0x73, 0x74, 0x20, 0x75, 0x70, 0x67, 0x72, \
00054     0x61, 0x64, 0x65, 0x2e, 0xb6, 0x00, 0x00, 0x00, \
00055     0x00, 0xf0, 0xa, 0x00, 0x00, 0x00, 0x00, 0x01, \
00056     0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09, \
00057     0x02, 0x00, 0x30, 0x00, 0x00, 0x00, 0x03, 0x07, \
00058     0x79, 0x29, 0x47, 0xb3, 0x85, 0xa, 0x95, 0x85, \
00059     0xbf, 0x8e, 0x25, 0xc1, 0x9d, 0x8e, 0x86, 0x78, \
00060     0x43, 0x4f, 0x58, 0x36, 0x00, 0x0d, 0x6f, 0x00, \
00061     0x00, 0x19, 0x8b, 0x36, 0x54, 0x45, 0x53, 0x54, \
00062     0x53, 0x45, 0x43, 0x41, 0x01, 0x09, 0x00, 0x00, \
00063     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x00, \
00064     0x32, 0x00, 0x00, 0x00, 0x36, 0x8b, 0x19, 0x00, \
00065     0x00, 0x6f, 0x0d, 0x00, 0x01, 0xc2, 0xc3, 0x1c, \
00066     0xb8, 0xc4, 0x00, 0x64, 0xea, 0xbb, 0x31, 0x89, \
00067     0xad, 0x89, 0x69, 0xea, 0xc2, 0x58, 0x93, 0x18, \
00068     0x3a, 0x02, 0x3b, 0xd2, 0x8d, 0x5f, 0xb2, 0x13, \
00069     0x4d, 0x3e, 0x07, 0xb9, 0x2e, 0x06, 0xa2, 0x58, \
00070     0xe4, 0x78, 0xd2, 0xc, 0x7a, 0xcc, \
00071 }
00072
00073 #define STATIC_IMAGE_DATA_SIZE 182L

```

9.111 ota-storage-eeprom.h File Reference

Defines

- #define SOC_BOOTLOADING_SUPPORT_ENABLED
- #define SOC_BOOTLOADING_SUPPORT_TEXT
- #define READ MODIFY_WRITE_SUPPORT_TEXT
- #define EEPROM_START
- #define EEPROM_END
- #define SAVE_RATE
- #define MAX_IMAGE_INFO_AND_OTA_HEADER_SIZE
- #define IMAGE_INFO_START
- #define MAGIC_NUMBER_INDEX
- #define MAGIC_NUMBER_SIZE
- #define VERSION_NUMBER_INDEX
- #define VERSION_NUMBER_SIZE
- #define MAGIC_NUMBER
- #define VERSION_NUMBER

- #define EBL_START_OFFSET_INDEX
- #define EBL_START_OFFSET_SIZE
- #define SAVED_DOWNLOAD_OFFSET_INDEX
- #define MAX_BYTEMASK_LENGTH
- #define OTA_HEADER_INDEX
- #define MINIMUM_FILE_SIZE_TO_STORE_OFFSET
- #define debugPrint(...)
- #define debugFlush()

Functions

- void emAfOtaStorageWriteInt32uToEeprom (int32u value, int32u realOffset)
- int32u emAfOtaStorageReadInt32uFromEeprom (int32u realOffset)
- void emAfStorageEepromUpdateDownloadOffset (int32u offset, boolean finalOffset)
- boolean emAfOtaStorageDriverGetRealOffset (int32u *offset, int32u *length)
- boolean emAfOtaStorageCheckDownloadMetaData (void)
- void emAfOtaStorageWriteDownloadMetaData (void)
- void emAfOtaStorageEepromInit (void)

Variables

- EmberEventControl emberAfPluginOtaStorageSimpleEepromPageEraseEventControl

9.111.1 Define Documentation

9.111.1.1 #define SOC_BOOTLOADING_SUPPORT_ENABLED

Definition at line 96 of file [ota-storage-eeprom.h](#).

9.111.1.2 #define SOC_BOOTLOADING_SUPPORT_TEXT

Definition at line 97 of file [ota-storage-eeprom.h](#).

9.111.1.3 #define READ MODIFY_WRITE_SUPPORT_TEXT

Definition at line 103 of file [ota-storage-eeprom.h](#).

9.111.1.4 #define EEPROM_START

Definition at line 107 of file [ota-storage-eeprom.h](#).

9.111.1.5 #define EEPROM_END

Definition at line 108 of file [ota-storage-eeprom.h](#).

9.111.1.6 #define SAVE_RATE

Definition at line 109 of file [ota-storage-eeprom.h](#).

9.111.1.7 #define MAX_IMAGE_INFO_AND_OTA_HEADER_SIZE

Definition at line 115 of file [ota-storage-eeprom.h](#).

9.111.1.8 #define IMAGE_INFO_START

Definition at line 119 of file [ota-storage-eeprom.h](#).

9.111.1.9 #define MAGIC_NUMBER_INDEX

Definition at line 124 of file [ota-storage-eeprom.h](#).

9.111.1.10 #define MAGIC_NUMBER_SIZE

Definition at line 125 of file [ota-storage-eeprom.h](#).

9.111.1.11 #define VERSION_NUMBER_INDEX

Definition at line 126 of file [ota-storage-eeprom.h](#).

9.111.1.12 #define VERSION_NUMBER_SIZE

Definition at line 127 of file [ota-storage-eeprom.h](#).

9.111.1.13 #define MAGIC_NUMBER

Definition at line 132 of file [ota-storage-eeprom.h](#).

9.111.1.14 #define VERSION_NUMBER

Definition at line 133 of file [ota-storage-eeprom.h](#).

9.111.1.15 #define EBL_START_OFFSET_INDEX

Definition at line 141 of file [ota-storage-eeprom.h](#).

9.111.1.16 #define EBL_START_OFFSET_SIZE

Definition at line 142 of file [ota-storage-eeprom.h](#).

9.111.1.17 #define SAVED_DOWNLOAD_OFFSET_INDEX

Definition at line 149 of file [ota-storage-eeprom.h](#).

9.111.1.18 #define MAX_BYTEMASK_LENGTH

Definition at line 152 of file [ota-storage-eeprom.h](#).

9.111.1.19 #define OTA_HEADER_INDEX

Definition at line 154 of file [ota-storage-eeprom.h](#).

9.111.1.20 #define MINIMUM_FILE_SIZE_TO_STORE_OFFSET

Definition at line 158 of file [ota-storage-eeprom.h](#).

9.111.1.21 #define debugPrint(...)

Definition at line 184 of file [ota-storage-eeprom.h](#).

9.111.1.22 #define debugFlush()

Definition at line 185 of file [ota-storage-eeprom.h](#).

9.111.2 Function Documentation**9.111.2.1 void emAfOtaStorageWriteInt32uToEeprom (int32u value, int32u realOffset)****9.111.2.2 int32u emAfOtaStorageReadInt32uFromEeprom (int32u realOffset)****9.111.2.3 void emAfStorageEepromUpdateDownloadOffset (int32u offset, boolean finalOffset)****9.111.2.4 boolean emAfOtaStorageDriverGetRealOffset (int32u * offset, int32u * length)****9.111.2.5 boolean emAfOtaStorageCheckDownloadMetaData (void)****9.111.2.6 void emAfOtaStorageWriteDownloadMetaData (void)****9.111.2.7 void emAfOtaStorageEepromInit (void)****9.111.3 Variable Documentation****9.111.3.1 EmberEventControl emberAfPluginOtaStorageSimpleEepromPageEraseEventControl****9.112 ota-storage-eeprom.h**

```
00001 // Layout of the EEPROM data for OTA is dependent upon whether SOC Bootloading
      support is
00002 // enabled. When it is NOT enabled, the layout of data is pretty
```

```

0003 // straightforward:
0004
0005 // LAYOUT 1
0006 //
0007 // EEPROM Start      -----
0008 // Image Info Meta-data |   Info   |
0009 //
0010 // OTA Header (offset 0 for the |   OTA   |
0011 //           OTA storage module) |   Header  |
0012 //
0013 // Rest of OTA image      |
0014 // (upgrade image data)    |   EBL   |
0015 //                           |   +   |
0016 //                           |   Signature  |
0017 // End of OTA image      -----
0018 //
0019 // ... (unused) ...
0020 //
0021 // EEPROM End      -----
0022
0023
0024 // For SOC Bootloading, we must put the EBL at the top of the EEPROM
0025 // since existing bootloaders have no knowledge of OTA headers.
0026
0027 // LAYOUT 2
0028 //
0029 // EEPROM Start      -----
0030 // Beginning of EBL file |   |
0031 // (upgrade image data) |   EBL   |
0032 //
0033 // End of EBL data      |
0034 //
0035 // Other OTA image data |   |
0036 // (e.g. signature)     |   Signature  |
0037 //
0038 // End of OTA image      -----
0039 //
0040 // ... (unused) ...
0041 //
0042 //
0043 // Image Info Meta-data |   Info   |
0044 //
0045 // OTA Header (offset 0 for the |   OTA   |
0046 //           OTA storage module) |   Header  |
0047 // ...extra space...
0048 // EEPROM End      -----
0049
0050
0051 // The Image Info Meta-data is DIFFERENT than previous versions of this plugin.
0052 // The meta-data NOW contains the following data:
0053 //   Magic Number (8 bytes)
0054 //   Version Tag (2 bytes)
0055 //   EBL Start offset within OTA file (4 bytes)
0056 //   Saved Download Offset data (100 bytes)
0057 //     This comes in 2 flavors:
0058 //       1. For read-modify-write flash drivers this will be a simple 4-byte
0059 //          counter indicating the last downloaded offset. It will only be
0060 //          updated based on the plugin option...
0061 //          EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_DOWNLOAD_OFFSET_SAVE_RATE
0062 //          Rest of the space is unused.
0063 //       2. For flash drivers without read-modify-write support, we will use
0064 //          a byte-mask indicating the last full flash page of written data.
0065 //          The byte-mask will have negative logic (0xFF means flash page not
0066 //          downloaded) and requires one byte per page of the EEPROM space
0067 //          allocated for the OTA code.
0068 //          In other words if the client is given 200k of download space within
0069 //          the EEPROM, and a flash page is 4k, then we need 50 bytes for the
0070 //          byte-mask.
0071
0072 #if !defined(OTA_STORAGE_EEPROM_INTERNAL_HEADER)
0073 #error "Do not include this header with files outside of app/framework/
0074 ota-storage-simple-eeprom/"
0075
0076 #if defined(EMBER_TEST)
0077 // So that we don't need separately configured applications, we play games
0078 // with the #defines generated by App Builder. We still need to compile
0079 // different applications, but that can be more easily done by passing
0080 // in -D parameters globally.

```

```

00081
00082 #if defined(EMBER_TEST_OTA_EEPROM_PAGE_ERASE)
00083     #undef EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_READ MODIFY_WRITE_SUPPORT
00084 #endif
00085
00086 #if defined(EMBER_TEST_OTA_EEPROM_SOC_BOOTLOAD)
00087     #define EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_SOC_BOOTLOADING_SUPPORT
00088 #endif
00089#endif
00090
00091 #if defined(EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_SOC_BOOTLOADING_SUPPORT)
00092     #define SOC_BOOTLOADING_SUPPORT
00093     #define SOC_BOOTLOADING_SUPPORT_ENABLED TRUE
00094     #define SOC_BOOTLOADING_SUPPORT_TEXT "yes"
00095 #else
00096     #define SOC_BOOTLOADING_SUPPORT_ENABLED FALSE
00097     #define SOC_BOOTLOADING_SUPPORT_TEXT "no"
00098#endif
00099
00100 #if
00101     defined(EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_READ MODIFY_WRITE_SUPPORT)
00102     #define READ MODIFY WRITE SUPPORT TEXT "yes"
00102 #else
00103     #define READ MODIFY WRITE SUPPORT TEXT "no"
00104#endif
00105
00106 // I like shorter names, so redefine the App. Builder names.
00107 #define EEPROM_START EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_STORAGE_START
00108 #define EEPROM_END   EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_STORAGE_END
00109 #define SAVE_RATE
00110     EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_DOWNLOAD_OFFSET_SAVE_RATE
00110
00111 #if
00112     defined(EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_READ MODIFY_WRITE_SUPPORT)
00112     #define READ MODIFY WRITE SUPPORT
00112     EMBER_AF_PLUGIN_OTA_STORAGE_SIMPLE_EEPROM_READ MODIFY_WRITE SUPPORT
00113#endif
00114
00115 #define MAX_IMAGE_INFO_AND_OTA_HEADER_SIZE 200           // bytes
00116 #if defined(SOC_BOOTLOADING_SUPPORT)
00117     #define IMAGE_INFO_START (EEPROM_END - MAX_IMAGE_INFO_AND_OTA_HEADER_SIZE)
00118 #else
00119     #define IMAGE_INFO_START (EEPROM_START)
00120#endif
00121
00122 // The following indexes are all relative to the start of the Image Info
00122 section
00123
00124 #define MAGIC_NUMBER_INDEX    0
00125 #define MAGIC_NUMBER_SIZE     8
00126 #define VERSION_NUMBER_INDEX  (MAGIC_NUMBER_INDEX + MAGIC_NUMBER_SIZE)
00127 #define VERSION_NUMBER_SIZE    2
00128
00129 // Magic number to indicate that the stored download meta-data is valid.
00130 // Magic Number = 1-951-0200 (Ember's main phone number in hex)
00131 // Version = 0x00 0x01 (big endian).
00132 #define MAGIC_NUMBER 0x01, 0x09, 0x05, 0x01, 0x00, 0x02, 0x00, 0x00
00133 #define VERSION_NUMBER 0x00, 0x01
00134
00135 // The Offset within the OTA file (relative to offset 0) where the
00136 // EBL data starts. We assume EBL data starts right after the 1st
00137 // tag meta-data. However OTA headers are variable in size so we
00138 // must keep track of how big the header is.
00139 // This #define is actually the LOCATION where that offset is stored,
00140 // not the actual offset.
00141 #define EBL_START_OFFSET_INDEX      (VERSION_NUMBER_INDEX +
00141     VERSION_NUMBER_SIZE)
00142 #define EBL_START_OFFSET_SIZE       4
00143
00144 // The last recorded offset we downloaded. This may not be the same as the
00145 // value stored in RAM by the OTA cluster itself. This value will be
00146 // the absolute offset of the file, regardless of the re-mapping
00147 // this code does. It is an offset understood by the OTA storage interfaces
00148 // relative to the start of the OTA file.
00149 #define SAVED_DOWNLOAD_OFFSET_INDEX (EBL_START_OFFSET_INDEX +
00149     EBL_START_OFFSET_SIZE)
00150
00151 // If we are using a Bytemask, then this is the maximum size.
00152 #define MAX_BYTEMASK_LENGTH 100
00153

```

```

00154 #define OTA_HEADER_INDEX (SAVED_DOWNLOAD_OFFSET_INDEX + MAX_BYTEMASK_LENGTH)
00155
00156 // The minimum offset we will write that determines if we store the current
00157 // download offset persistently. This is equal to the minimum OTA header size.
00158 #define MINIMUM_FILE_SIZE_TO_STORE_OFFSET (OTA_MINIMUM_HEADER_LENGTH)
00159
00160
00161 void emAfOtaStorageWriteInt32uToEeprom(int32u value, int32u realOffset);
00162 int32u emAfOtaStorageReadInt32uFromEeprom(int32u realOffset);
00163 void emAfStorageEepromUpdateDownloadOffset(int32u offset, boolean finalOffset);
00164
00165 boolean emAfOtaStorageDriverGetRealOffset(int32u* offset,
00166                                         int32u* length);
00167
00168 extern EmberEventControl
00169     emberAfPluginOtaStorageSimpleEepromPageEraseEventControl;
00170
00171 boolean emAfOtaStorageCheckDownloadMetaData(void);
00172 void emAfOtaStorageWriteDownloadMetaData(void);
00173 void emAfOtaStorageEepromInit(void);
00174 #if defined(SOC_BOOTLOADING_SUPPORT)
00175 int32u emAfGetEblStartOffset(void);
00176 #endif
00177
00178 // Very very verbose debug printing.
00179 // #define DEBUG_PRINT
00180 #if defined(DEBUG_PRINT)
00181     #define debugPrint(...) otaPrintln(__VA_ARGS__)
00182     #define debugFlush()    emberAfCoreFlush()
00183 #else
00184     #define debugPrint(...)
00185     #define debugFlush()
00186 #endif
00187
00188

```

9.113 ota-storage-linux.h File Reference

Data Structures

- struct [EmAfOtaStorageLinuxConfig](#)

TypeDefs

- [typedef void\(EmAfOtaStorageFileAddedHandler \)\(const EmberAfOtaHeader *\)](#)

Functions

- [void emAfOtaStorageGetConfig \(EmAfOtaStorageLinuxConfig *currentConfig\)](#)
- [void emAfOtaStorageSetConfig \(const EmAfOtaStorageLinuxConfig *newConfig\)](#)

9.113.1 Typedef Documentation

9.113.1.1 [typedef void\(EmAfOtaStorageFileAddedHandler\)\(const EmberAfOtaHeader *\)](#)

Definition at line 3 of file [ota-storage-linux.h](#).

9.113.2 Function Documentation

9.113.2.1 void emAfOtaStorageGetConfig (EmAfOtaStorageLinuxConfig * *currentConfig*)

9.113.2.2 void emAfOtaStorageSetConfig (const EmAfOtaStorageLinuxConfig * *newConfig*)

9.114 ota-storage-linux.h

```
00001 // Internal definitions for the OTA storage Linux.
00002
00003 typedef void (EmAfOtaStorageFileAddedHandler)(const EmberAfOtaHeader*);
00004
00005 typedef struct {
00006     boolean memoryDebug;
00007     boolean fileDebug;
00008     boolean fieldDebug;
00009     boolean ignoreFilesWithUnderscorePrefix;
00010    boolean printFileDiscoveryOrRemoval;
00011    EmAfOtaStorageFileAddedHandler* fileAddedHandler;
00012 } EmAfOtaStorageLinuxConfig;
00013
00014 void emAfOtaStorageGetConfig(EmAfOtaStorageLinuxConfig* currentConfig);
00015 void emAfOtaStorageSetConfig(const EmAfOtaStorageLinuxConfig* newConfig);
00016
```

9.115 ota-storage-ram.h File Reference

Functions

- void *emAfOtaStorageDriverCorruptImage* (int16u *index*)
- int16u *emAfOtaStorageDriveGetImageSize* (void)

9.115.1 Function Documentation

9.115.1.1 void emAfOtaStorageDriverCorruptImage (int16u *index*)

9.115.1.2 int16u emAfOtaStorageDriveGetImageSize (void)

9.116 ota-storage-ram.h

```
00001 // Internal routines for the OTA storage RAM plugin.
00002
00003 void emAfOtaStorageDriverCorruptImage(int16u index);
00004 int16u emAfOtaStorageDriveGetImageSize(void);
```

9.117 ota-storage-simple-custom.h File Reference

Functions

- **boolean** *emberAfCustomStorageInitCallback* (void)
- **boolean** *emberAfCustomStorageReadCallback* (int32u *offset*, int32u *length*, int8u **returnData*)
- **boolean** *emberAfCustomStorageWriteCallback* (const int8u **dataToWrite*, int32u *offset*, int32u *length*)

9.117.1 Function Documentation

- 9.117.1.1 boolean `emberAfCustomStorageInitCallback (void)`
- 9.117.1.2 boolean `emberAfCustomStorageReadCallback (int32u offset, int32u length, int8u * returnData)`
- 9.117.1.3 boolean `emberAfCustomStorageWriteCallback (const int8u * dataToWrite, int32u offset, int32u length)`

9.118 ota-storage-simple-custom.h

```

00001 /**
00002 // * ota-storage-custom.h
00003 // *
00004 // * This defines the custom storage interface used by ota-storage-simple.c
00005 // * to interact with the actual hardware where the images are stored.
00006 // *
00007 // * Copyright 2010 by Ember Corporation. All rights reserved.
00008 // *8*
00009 /**
00010 boolean emberAfCustomStorageInitCallback(void);
00011 boolean emberAfCustomStorageReadCallback(int32u offset,
00012                               int32u length,
00013                               int8u* returnData);
00014 boolean emberAfCustomStorageWriteCallback(const int8u* dataToWrite,
00015                               int32u offset,
00016                               int32u length);

```

9.119 ota-storage-simple-driver.h File Reference

Functions

- boolean `emberAfCustomStorageInitCallback (void)`
- boolean `emberAfCustomStorageReadCallback (int32u offset, int32u length, int8u *returnData)`
- boolean `emberAfCustomStorageWriteCallback (const int8u *dataToWrite, int32u offset, int32u length)`

9.119.1 Function Documentation

- 9.119.1.1 boolean `emberAfCustomStorageInitCallback (void)`
- 9.119.1.2 boolean `emberAfCustomStorageReadCallback (int32u offset, int32u length, int8u * returnData)`
- 9.119.1.3 boolean `emberAfCustomStorageWriteCallback (const int8u * dataToWrite, int32u offset, int32u length)`

9.120 ota-storage-simple-driver.h

```

00001 /**
00002 // * ota-storage-simple-driver.h
00003 // *
00004 // * The Simple Storage Module driver interface. In other words, primitives
00005 // * for reading / writing and storing data about the OTA file that is stored,
00006 // * or is in the process of being downloaded and stored.
00007 // *

```

```

00008 // * Copyright 2010 by Ember Corporation. All rights reserved.
00009 *80*
00009 //
00010 ****
00011 boolean emberAfCustomStorageInitCallback(void);
00012
00013 boolean emberAfCustomStorageReadCallback(int32u offset,
00014                                     int32u length,
00015                                     int8u* returnData);
00016
00017 boolean emberAfCustomStorageWriteCallback(const int8u* dataToWrite,
00018                                         int32u offset,
00019                                         int32u length);
00020
00021
00022 #if defined(EMBER_TEST)
00023 void emAfOtaLoadFileCommand(void);
00024 #endif

```

9.121 ota-storage.h File Reference

Defines

- #define OTA_MINIMUM_HEADER_LENGTH
- #define OTA_MAXIMUM_HEADER_LENGTH
- #define OTA_FILE_MAGIC_NUMBER
- #define MAGIC_NUMBER_OFFSET
- #define HEADER_VERSION_OFFSET
- #define HEADER_LENGTH_OFFSET
- #define FIELD_CONTROL_OFFSET
- #define MANUFACTURER_ID_OFFSET
- #define IMAGE_TYPE_ID_OFFSET
- #define VERSION_OFFSET
- #define STACK_VERSION_OFFSET
- #define HEADER_STRING_OFFSET
- #define IMAGE_SIZE_OFFSET
- #define OPTIONAL_FIELDS_OFFSET
- #define HEADER_LENGTH_FIELD_LENGTH
- #define TAG_OVERHEAD
- #define OTA_HEADER_VERSION
- #define SECURITY_CREDENTIAL_VERSION_FIELD_PRESENT_MASK
- #define DEVICE_SPECIFIC_FILE_PRESENT_MASK
- #define HARDWARE_VERSIONS_PRESENT_MASK
- #define headerHasSecurityCredentials(header)
- #define headerHasUpgradeFileDest(header)
- #define headerHasHardwareVersions(header)
- #define SIGNATURE_TAG_DATA_SIZE
- #define INVALID_MANUFACTURER_ID
- #define INVALID_DEVICE_ID
- #define INVALID_FIRMWARE_VERSION
- #define INVALID_EUI64
- #define INVALID_OTA_IMAGE_ID

Functions

- `EmberAfOtaStorageStatus emAfOtaStorageSetDevice (const void *device)`
- `void emAfOtaStorageClose (void)`
- `const char * emAfOtaStorageGetFilepath (const EmberAfOtaImageId *id)`
- `EmberAfOtaStorageStatus emAfOtaStorageAddImageFile (const char *filename)`
- `EmberAfOtaStorageStatus emAfOtaStorageCreateImage (EmberAfOtaHeader *header, const char *filename)`
- `EmberAfOtaStorageStatus emAfOtaStorageAppendImageData (const char *filename, int32u length, const int8u *data)`
- `EmberAfOtaStorageStatus emAfOtaStorageGetHeaderLengthAndImageSize (const EmberAfOtaImageId *id, int32u *returnHeaderLength, int32u *returnImageSize)`
- `EmberAfOtaImageId emAfOtaStorageGetImageIdFromHeader (const EmberAfOtaHeader *header)`
- `EmberAfOtaStorageStatus emAfOtaStorageGetTagOffsetAndSize (const EmberAfOtaImageId *id, int16u tag, int32u *returnTagOffset, int32u *returnTagSize)`
- `EmberAfOtaStorageStatus emAfOtaStorageGetTagDataFromImage (const EmberAfOtaImageId *id, int16u tag, int8u *returnData, int32u *returnDataLength, int32u maxReturnDataLength)`
- `EmberAfOtaStorageStatus emAfOtaStorageGetRawHeaderData (const EmberAfOtaImageId *id, int8u *returnData, int32u *returnDataLength, int32u maxReturnDataLength)`
- `EmberAfOtaStorageStatus emAfOtaStorageReadAllTagInfo (const EmberAfOtaImageId *id, EmberAfTagData *tagInfo, int16u maxTags, int16u *totalTags)`
- `boolean emberAfIsOtaImageIdValid (const EmberAfOtaImageId *idToCompare)`
- `EmberAfOtaStorageStatus emberAfOtaStorageDeleteImageCallback (const EmberAfOtaImageId *id)`
- `void emAfOtaStorageInfoPrint (void)`
- `void emAfOtaStorageDriverInfoPrint (void)`
- `int32u emberAfOtaStorageDriverMaxDownloadSizeCallback (void)`
- `int remainingAllocations (void)`

9.121.1 Define Documentation

9.121.1.1 #define OTA_MINIMUM_HEADER_LENGTH

Definition at line 12 of file [ota-storage.h](#).

9.121.1.2 #define OTA_MAXIMUM_HEADER_LENGTH

Definition at line 14 of file [ota-storage.h](#).

9.121.1.3 #define OTA_FILE_MAGIC_NUMBER

Definition at line 16 of file [ota-storage.h](#).

9.121.1.4 #define MAGIC_NUMBER_OFFSET

Definition at line 18 of file [ota-storage.h](#).

9.121.1.5 #define HEADER_VERSION_OFFSET

Definition at line 19 of file [ota-storage.h](#).

9.121.1.6 #define HEADER_LENGTH_OFFSET

Definition at line [20](#) of file [ota-storage.h](#).

9.121.1.7 #define FIELD_CONTROL_OFFSET

Definition at line [21](#) of file [ota-storage.h](#).

9.121.1.8 #define MANUFACTURER_ID_OFFSET

Definition at line [22](#) of file [ota-storage.h](#).

9.121.1.9 #define IMAGE_TYPE_ID_OFFSET

Definition at line [23](#) of file [ota-storage.h](#).

9.121.1.10 #define VERSION_OFFSET

Definition at line [24](#) of file [ota-storage.h](#).

9.121.1.11 #define STACK_VERSION_OFFSET

Definition at line [25](#) of file [ota-storage.h](#).

9.121.1.12 #define HEADER_STRING_OFFSET

Definition at line [26](#) of file [ota-storage.h](#).

9.121.1.13 #define IMAGE_SIZE_OFFSET

Definition at line [27](#) of file [ota-storage.h](#).

9.121.1.14 #define OPTIONAL_FIELDS_OFFSET

Definition at line [28](#) of file [ota-storage.h](#).

9.121.1.15 #define HEADER_LENGTH_FIELD_LENGTH

Definition at line [31](#) of file [ota-storage.h](#).

9.121.1.16 #define TAG_OVERHEAD

Definition at line [33](#) of file [ota-storage.h](#).

9.121.1.17 #define OTA_HEADER_VERSION

Definition at line 35 of file [ota-storage.h](#).

9.121.1.18 #define SECURITY_CREDENTIAL_VERSION_FIELD_PRESENT_MASK

Definition at line 37 of file [ota-storage.h](#).

9.121.1.19 #define DEVICE_SPECIFIC_FILE_PRESENT_MASK

Definition at line 38 of file [ota-storage.h](#).

9.121.1.20 #define HARDWARE VERSIONS_PRESENT_MASK

Definition at line 39 of file [ota-storage.h](#).

9.121.1.21 #define headerHasSecurityCredentials(*header*)

Definition at line 41 of file [ota-storage.h](#).

9.121.1.22 #define headerHasUpgradeFileDest(*header*)

Definition at line 43 of file [ota-storage.h](#).

9.121.1.23 #define headerHasHardwareVersions(*header*)

Definition at line 45 of file [ota-storage.h](#).

9.121.1.24 #define SIGNATURE_TAG_DATA_SIZE

Definition at line 50 of file [ota-storage.h](#).

9.121.1.25 #define INVALID_MANUFACTURER_ID

Definition at line 52 of file [ota-storage.h](#).

9.121.1.26 #define INVALID_DEVICE_ID

Definition at line 53 of file [ota-storage.h](#).

9.121.1.27 #define INVALID_FIRMWARE_VERSION

Definition at line 54 of file [ota-storage.h](#).

9.121.1.28 #define INVALID_EUI64

Definition at line 55 of file [ota-storage.h](#).

9.121.1.29 #define INVALID_OTA_IMAGE_ID

Definition at line 57 of file [ota-storage.h](#).

9.121.2 Function Documentation

9.121.2.1 EmberAfOtaStorageStatus emAfOtaStorageSetDevice (**const void * device**)

9.121.2.2 void emAfOtaStorageClose (**void**)

9.121.2.3 const char* emAfOtaStorageGetFilepath (**const EmberAfOtaImageId * id**)

9.121.2.4 EmberAfOtaStorageStatus emAfOtaStorageAddImageFile (**const char * filename**)

9.121.2.5 EmberAfOtaStorageStatus emAfOtaStorageCreateImage (**EmberAfOtaHeader * header, const char * filename**)

9.121.2.6 EmberAfOtaStorageStatus emAfOtaStorageAppendImageData (**const char * filename, int32u length, const int8u * data**)

9.121.2.7 EmberAfOtaStorageStatus emAfOtaStorageGetHeaderLengthAndImageSize (**const EmberAfOtaImageId * id, int32u * returnHeaderLength, int32u * returnImageSize**)

9.121.2.8 EmberAfOtaImageId emAfOtaStorageGetImageIdFromHeader (**const EmberAfOtaHeader * header**)

9.121.2.9 EmberAfOtaStorageStatus emAfOtaStorageGetTagOffsetAndSize (**const EmberAfOtaImageId * id, int16u tag, int32u * returnTagOffset, int32u * returnTagSize**)

9.121.2.10 EmberAfOtaStorageStatus emAfOtaStorageGetTagDataFromImage (**const EmberAfOtaImageId * id, int16u tag, int8u * returnData, int32u * returnDataLength, int32u maxReturnDataLength**)

9.121.2.11 EmberAfOtaStorageStatus emAfOtaStorageGetRawHeaderData (**const EmberAfOtaImageId * id, int8u * returnData, int32u * returnDataLength, int32u maxReturnDataLength**)

9.121.2.12 EmberAfOtaStorageStatus emAfOtaStorageReadAllTagInfo (**const EmberAfOtaImageId * id, EmberAfTagData * tagInfo, int16u maxTags, int16u * totalTags**)

9.121.2.13 boolean emberAfIsOtaImageIdValid (**const EmberAfOtaImageId * idToCompare**)

9.121.2.14 EmberAfOtaStorageStatus emberAfOtaStorageDeleteImageCallback (**const EmberAfOtaImageId * id**)

9.121.2.15 void emAfOtaStorageInfoPrint (**void**)

9.121.2.16 void emAfOtaStorageDriverInfoPrint(void)

9.121.2.17 int32u emberAfOtaStorageDriverMaxDownloadSizeCallback(void)

9.121.2.18 int remainingAllocations(void)

9.122 ota-storage.h

```

00001 //
00002 // * ota-server-storage.h
00003 // *
00004 // * This file defines the interface to a Over-the-air (OTA) storage device.
00005 // * It
00006 // * can be used by either a server or client. The server can store 0 or more
00007 // * files that are indexed uniquely by an identifier made up of their Version
00008 // * Number, Manufacturer ID, and Device ID.
00009 // * Copyright 2009 by Ember Corporation. All rights reserved.
00010 // *80*
00011 //
00012 #define OTA_MINIMUM_HEADER_LENGTH (20 + 32 + 4)
00013 // Optional fields are: security credentials, upgrade dest, and HW versions
00014 #define OTA_MAXIMUM_HEADER_LENGTH (OTA_MINIMUM_HEADER_LENGTH + 1 + 8 + 4)
00015
00016 #define OTA_FILE_MAGIC_NUMBER          0x0BEEF11EL
00017
00018 #define MAGIC_NUMBER_OFFSET          0
00019 #define HEADER_VERSION_OFFSET        4
00020 #define HEADER_LENGTH_OFFSET         6
00021 #define FIELD_CONTROL_OFFSET        8
00022 #define MANUFACTURER_ID_OFFSET      10
00023 #define IMAGE_TYPE_ID_OFFSET        12
00024 #define VERSION_OFFSET             14
00025 #define STACK_VERSION_OFFSET       18
00026 #define HEADER_STRING_OFFSET        20
00027 #define IMAGE_SIZE_OFFSET           52
00028 #define OPTIONAL_FIELDS_OFFSET      56
00029 // The rest are optional fields.
00030
00031 #define HEADER_LENGTH_FIELD_LENGTH 2
00032
00033 #define TAG_OVERHEAD (2 + 4)      // 2 bytes for the tag ID, 4 bytes for the
00034 // length
00035 #define OTA_HEADER_VERSION 0x0100
00036
00037 #define SECURITY_CREDENTIAL_VERSION_FIELD_PRESENT_MASK 0x0001
00038 #define DEVICE_SPECIFIC_FILE_PRESENT_MASK            0x0002
00039 #define HARDWARE_VERSIONS_PRESENT_MASK              0x0004
00040
00041 #define headerHasSecurityCredentials(header) \
00042     ((header)->fieldControl & SECURITY_CREDENTIAL_VERSION_FIELD_PRESENT_MASK)
00043 #define headerHasUpgradeFileDest(header) \
00044     ((header)->fieldControl & DEVICE_SPECIFIC_FILE_PRESENT_MASK)
00045 #define headerHasHardwareVersions(header) \
00046     ((header)->fieldControl & HARDWARE_VERSIONS_PRESENT_MASK)
00047
00048
00049 // This size does NOT include the tag overhead.
00050 #define SIGNATURE_TAG_DATA_SIZE (EUI64_SIZE + EMBER_SIGNATURE_SIZE)
00051
00052 #define INVALID_MANUFACTURER_ID 0xFFFF
00053 #define INVALID_DEVICE_ID      0xFFFF
00054 #define INVALID_FIRMWARE_VERSION 0xFFFFFFFFL
00055 #define INVALID_EUI64 { 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00 }
00056
00057 #define INVALID_OTA_IMAGE_ID    \
00058     { INVALID_MANUFACTURER_ID, \
00059       INVALID_DEVICE_ID, \
00060       INVALID_FIRMWARE_VERSION, \
00061       INVALID_EUI64, \
00062     }

```

```

00063
00064 // -----
00065 // Initialization
00066 // (For the POSIX implementation the device will be a file or directory)
00067 EmberAfOtaStorageStatus emAfOtaStorageSetDevice(const void* device);
00068 void emAfOtaStorageClose(void);
00070
00071 const char* emAfOtaStorageGetFilepath(const EmberAfOtaImageId* id);
00072
00073 EmberAfOtaStorageStatus emAfOtaStorageAddImageFile(const char* filename);
00074
00075
00076 // Creating (two options)
00077 // - Create a file based on a passed "EmberAfOtaHeader" structure, stored
00078 // at the filename passed to the function. This is usually done by a
00079 // PC tool.
00080 // - Create a file based on raw data (presumably received over the air)
00081 // This will be stored in a single static temp file.
00082 EmberAfOtaStorageStatus emAfOtaStorageCreateImage(EmberAfOtaHeader* header,
00083                                         const char* filename);
00084 EmberAfOtaStorageStatus emAfOtaStorageAppendImageData(const char* filename,
00085                                         int32u length,
00086                                         const int8u* data);
00087
00088 // -----
00089 // Generic routines that are independent of the actual storage mechanism.
00090
00091 EmberAfOtaStorageStatus emAfOtaStorageGetHeaderLengthAndImageSize(const
00092                                         EmberAfOtaImageId* id,
00093                                         int32u *
00094                                         returnHeaderLength,
00095                                         int32u *
00096                                         returnImageSize);
00097
00098 EmberAfOtaImageId emAfOtaStorageGetImageIdFromHeader(const EmberAfOtaHeader*
00099                                         header);
00100
00101 // Returns the offset and size of the actual data (does not include
00102 // tag meta-data) in the specified tag.
00103 EmberAfOtaStorageStatus emAfOtaStorageGetTagOffsetAndSize(const
00104                                         EmberAfOtaImageId* id,
00105                                         int16u tag,
00106                                         int32u*
00107                                         returnTagOffset,
00108                                         int32u* returnTagSize
00109                                         );
00110
00111 EmberAfOtaStorageStatus emAfOtaStorageGetTagDataFromImage(const
00112                                         EmberAfOtaImageId* id,
00113                                         int16u tag,
00114                                         int8u* returnData,
00115                                         int32u*
00116                                         returnDataLength,
00117                                         int32u
00118                                         maxReturnDataLength);
00119
00120 // This gets the OTA header as it is formatted in the file, including
00121 // the magic number.
00122 EmberAfOtaStorageStatus emAfOtaStorageGetRawHeaderData(const EmberAfOtaImageId*
00123                                         id,
00124                                         int8u* returnData,
00125                                         int32u* returnDataLength
00126                                         ,
00127                                         int32u
00128                                         maxReturnDataLength);
00129
00130 // This retrieves a list of all tags in the file and their lengths.
00131 // It will read at most 'maxTags' and return that array data in tagInfo.
00132 EmberAfOtaStorageStatus emAfOtaStorageReadAllTagInfo(const EmberAfOtaImageId*
00133                                         id,
00134                                         EmberAfTagData* tagInfo,
00135                                         int16u maxTags,
00136                                         int16u* totalTags);
00137
00138 boolean emberAfIsOtaImageIdValid(const EmberAfOtaImageId* idToCompare);
00139
00140 // This should be moved into the plugin callbacks file.

```

```

00127 EmberAfOtaStorageStatus emberAfOtaStorageDeleteImageCallback(const
00128     EmberAfOtaImageId* id);
00129 void emAfOtaStorageInfoPrint(void);
00130 void emAfOtaStorageDriverInfoPrint(void);
00131
00132 int32u emberAfOtaStorageDriverMaxDownloadSizeCallback(void);
00133
00134 // -----
00135 // Internal (for debugging malloc() and free())
00136 int remainingAllocations(void);
00137

```

9.123 ota.h File Reference

Defines

- #define OTA_UPGRADE_END_RESPONSE_RUN_NOW
- #define MFG_ID_WILD_CARD
- #define IMAGE_TYPE_WILD_CARD
- #define IMAGE_TYPE_SECURITY
- #define IMAGE_TYPE_CONFIG
- #define IMAGE_TYPE_LOG
- #define FILE_VERSION_WILD_CARD
- #define ZIGBEE_2006_STACK_VERSION
- #define ZIGBEE_2007_STACK_VERSION
- #define ZIGBEE_PRO_STACK_VERSION
- #define OTA_HW_VERSION_BIT_MASK
- #define OTA_NODE_EUI64_BIT_MASK
- #define OTA_TAG_UPGRADE_IMAGE
- #define OTA_TAG_ECDSA_SIGNATURE
- #define OTA_TAG_ECDSA_SIGNING_CERTIFICATE
- #define OTA_TAG_RESERVED_START
- #define OTA_TAG_RESERVED_END
- #define OTA_TAG_MANUFACTURER_SPECIFIC_START
- #define EM_AF_OTA_MAX_COMMAND_ID
- #define otaPrintln(...)
- #define otaPrint(...)
- #define otaPrintFlush()
- #define emAfPrintPercentageSetStartAndEnd(x, y)
- #define emAfPrintPercentageUpdate(x, y, z)

Enumerations

- enum { OTA_USE_OFFSET_TIME, OTA_USE_UTC_TIME }
- enum { OTA_UPGRADE_STATUS_NORMAL, OTA_UPGRADE_STATUS_DOWNLOAD_IN_PROGRESS, OTA_UPGRADE_STATUS_DOWNLOAD_COMPLETE, OTA_UPGRADE_STATUS_WAIT, OTA_UPGRADE_STATUS_COUNTDOWN }

Functions

- `EmberAfOtaImageId emAfOtaCreateEmberAfOtaImageIdStruct (int16u manufacturerId, int16u imageType, int32u fileVersion)`
- `int8u emAfOtaParseImageIdFromMessage (EmberAfOtaImageId *returnId, const int8u *buffer, int8u length)`

Variables

- `EmberNodeId upgradeServerNodeId`
- `PGM int8u emAfOtaMinMessageLengths []`

9.123.1 Define Documentation

9.123.1.1 `#define OTA_UPGRADE_END_RESPONSE_RUN_NOW`

Definition at line 11 of file `ota.h`.

9.123.1.2 `#define MFG_ID_WILD_CARD`

Definition at line 13 of file `ota.h`.

9.123.1.3 `#define IMAGE_TYPE_WILD_CARD`

Definition at line 14 of file `ota.h`.

9.123.1.4 `#define IMAGE_TYPE_SECURITY`

Definition at line 15 of file `ota.h`.

9.123.1.5 `#define IMAGE_TYPE_CONFIG`

Definition at line 16 of file `ota.h`.

9.123.1.6 `#define IMAGE_TYPE_LOG`

Definition at line 17 of file `ota.h`.

9.123.1.7 `#define FILE_VERSION_WILD_CARD`

Definition at line 18 of file `ota.h`.

9.123.1.8 `#define ZIGBEE_2006_STACK_VERSION`

Definition at line 20 of file `ota.h`.

9.123.1.9 #define ZIGBEE_2007_STACK_VERSION

Definition at line [21](#) of file [ota.h](#).

9.123.1.10 #define ZIGBEE_PRO_STACK_VERSION

Definition at line [22](#) of file [ota.h](#).

9.123.1.11 #define OTA_HW_VERSION_BIT_MASK

Definition at line [25](#) of file [ota.h](#).

9.123.1.12 #define OTA_NODE_EUI64_BIT_MASK

Definition at line [26](#) of file [ota.h](#).

9.123.1.13 #define OTA_TAG_UPGRADE_IMAGE

Definition at line [37](#) of file [ota.h](#).

9.123.1.14 #define OTA_TAG_ECDSA_SIGNATURE

Definition at line [38](#) of file [ota.h](#).

9.123.1.15 #define OTA_TAG_ECDSA_SIGNING_CERTIFICATE

Definition at line [39](#) of file [ota.h](#).

9.123.1.16 #define OTA_TAG_RESERVED_START

Definition at line [40](#) of file [ota.h](#).

9.123.1.17 #define OTA_TAG_RESERVED_END

Definition at line [41](#) of file [ota.h](#).

9.123.1.18 #define OTA_TAG_MANUFACTURER_SPECIFIC_START

Definition at line [42](#) of file [ota.h](#).

9.123.1.19 #define EM_AF_OTA_MAX_COMMAND_ID

Definition at line [47](#) of file [ota.h](#).

9.123.1.20 #define otaPrintln(...)

Definition at line [50](#) of file [ota.h](#).

9.123.1.21 #define otaPrint(...)

Definition at line [51](#) of file [ota.h](#).

9.123.1.22 #define otaPrintFlush()

Definition at line [52](#) of file [ota.h](#).

9.123.1.23 #define emAfPrintPercentageSetStartAndEnd(x, y)

Definition at line [71](#) of file [ota.h](#).

9.123.1.24 #define emAfPrintPercentageUpdate(x, y, z)

Definition at line [72](#) of file [ota.h](#).

9.123.2 Enumeration Type Documentation

9.123.2.1 anonymous enum

Enumerator:

OTA_USE_OFFSET_TIME

OTA_USE_UTC_TIME

Definition at line [7](#) of file [ota.h](#).

9.123.2.2 anonymous enum

Enumerator:

OTA_UPGRADE_STATUS_NORMAL

OTA_UPGRADE_STATUS_DOWNLOAD_IN_PROGRESS

OTA_UPGRADE_STATUS_DOWNLOAD_COMPLETE

OTA_UPGRADE_STATUS_WAIT

OTA_UPGRADE_STATUS_COUNTDOWN

Definition at line [29](#) of file [ota.h](#).

9.123.3 Function Documentation

9.123.3.1 EmberAfOtaImageId emAfOtaCreateEmberAfOtaImageIdStruct (int16u *manufacturerId*, int16u *imageType*, int32u *fileVersion*)

9.123.3.2 int8u emAfOtaParseImageIdFromMessage (EmberAfOtaImageId * returnId, const int8u * buffer, int8u length)

9.123.4 Variable Documentation

9.123.4.1 EmberNodeid upgradeServerNodeId

9.123.4.2 PGM int8u emAfOtaMinMessageLengths[]

9.124 ota.h

```

00001 // ****
00002 // * ota.h
00003 // *
00004 // *
00005 // * Copyright 2009 by Ember Corporation. All rights reserved.
00006 // ****
00007 enum {
00008     OTA_USE_OFFSET_TIME,
00009     OTA_USE_UTC_TIME
00010 };
00011 #define OTA_UPGRADE_END_RESPONSE_RUN_NOW 0x00
00012
00013 #define MFG_ID_WILD_CARD          0xFFFF
00014 #define IMAGE_TYPE_WILD_CARD      0xFFFF
00015 #define IMAGE_TYPE_SECURITY       0xFFC0
00016 #define IMAGE_TYPE_CONFIG         0xFFC1
00017 #define IMAGE_TYPE_LOG            0xFFC2
00018 #define FILE_VERSION_WILD_CARD   0xFFFFFFFF
00019
00020 #define ZIGBEE_2006_STACK_VERSION 0x0000
00021 #define ZIGBEE_2007_STACK_VERSION 0x0001
00022 #define ZIGBEE_PRO_STACK_VERSION 0x0002
00023
00024 // These apply to the field control of the Over-the-air messages
00025 #define OTA_HW_VERSION_BIT_MASK 0x01
00026 #define OTA_NODE_EUI64_BIT_MASK 0x01
00027
00028 // OTA Upgrade status as defined by OTA cluster spec.
00029 enum {
00030     OTA_UPGRADE_STATUS_NORMAL,
00031     OTA_UPGRADE_STATUS_DOWNLOAD_IN_PROGRESS,
00032     OTA_UPGRADE_STATUS_DOWNLOAD_COMPLETE,
00033     OTA_UPGRADE_STATUS_WAIT,
00034     OTA_UPGRADE_STATUS_COUNTDOWN
00035 };
00036
00037 #define OTA_TAG_UPGRADE_IMAGE          0x0000
00038 #define OTA_TAG_ECDSA_SIGNATURE        0x0001
00039 #define OTA_TAG_ECDSA_SIGNING_CERTIFICATE 0x0002
00040 #define OTA_TAG_RESERVED_START        0x0003
00041 #define OTA_TAG_RESERVED_END          0xEFFF
00042 #define OTA_TAG_MANUFACTURER_SPECIFIC_START 0xFFFF
00043
00044 extern EmberNodeId upgradeServerNodeId;
00045 extern PGM int8u emAfOtaMinMessageLengths[];
00046
00047 #define EM_AF OTA_MAX_COMMAND_ID ZCL_QUERY_SPECIFIC_FILE_RESPONSE_COMMAND_ID
00048
00049 // Create a shorter name for printing to make the code more readable.
00050 #define otaPrintln(...) emberAfOtaBootloadClusterPrintln(__VA_ARGS__)
00051 #define otaPrint(...)    emberAfOtaBootloadClusterPrint(__VA_ARGS__)
00052 #define otaPrintFlush()   emberAfOtaBootloadClusterFlush()
00053
00054 // -----
00055 // Common to both client and server
00056 // -----
00057 EmberAfOtaImageId emAfOtaCreateEmberAfOtaImageIdStruct(int16u manufacturerId,
00058                                         int16u imageType,
00059                                         int32u fileVersion);
00060
00061 int8u emAfOtaParseImageIdFromMessage(EmberAfOtaImageId* returnId,

```

```

00062                     const int8u* buffer,
00063                     int8u length);
00064
00065 #if defined(EMBER_AF_PRINT_CORE)
00066 void emAfPrintPercentageSetStartAndEnd(int32u startingOffset, int32u endOffset)
00067 ;
00068     int8u emAfPrintPercentageUpdate(PGM_P prefixString,
00069                               int8u updateFrequency,
00070                               int32u currentOffset);
00071 #else
00072     #define emAfPrintPercentageSetStartAndEnd(x,y)
00073     #define emAfPrintPercentageUpdate(x,y,z)
00074 #endif

```

9.125 partner-link-key-exchange.h File Reference

Defines

- #define EMBER_AF_PLUGIN_PARTNER_LINK_KEY_EXCHANGE_TIMEOUT_MILLISECONDS

Variables

- boolean emAfAllowPartnerLinkKey

9.125.1 Define Documentation

9.125.1.1 #define EMBER_AF_PLUGIN_PARTNER_LINK_KEY_EXCHANGE_TIMEOUT_MILLISECONDS

Definition at line 9 of file [partner-link-key-exchange.h](#).

9.125.2 Variable Documentation

9.125.2.1 boolean emAfAllowPartnerLinkKey

9.126 partner-link-key-exchange.h

```

00001 // ****
00002 // * partner-link-key-exchange.h
00003 // *
00004 // * Support of requesting link keys with another device.
00005 // *
00006 // * Copyright 2008 by Ember Corporation. All rights reserved.
00007 // *
00008
00009 #define EMBER_AF_PLUGIN_PARTNER_LINK_KEY_EXCHANGE_TIMEOUT_MILLISECONDS \
00010   (EMBER_AF_PLUGIN_PARTNER_LINK_KEY_EXCHANGE_TIMEOUT_SECONDS * \
00011     MILLISECOND_TICKS_PER_SECOND)
00012 extern boolean emAfAllowPartnerLinkKey;

```

9.127 price-client-callback.h File Reference

Functions

- void `emberAfPluginPriceClientPriceStartedCallback` (EmberAfPluginPriceClientPrice *price)
- void `emberAfPluginPriceClientPriceExpiredCallback` (EmberAfPluginPriceClientPrice *price)

9.128 price-client-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00021 void emberAfPluginPriceClientPriceStartedCallback(EmberAfPluginPriceClientPrice
           * price);
00022
00030 void emberAfPluginPriceClientPriceExpiredCallback(EmberAfPluginPriceClientPrice
           * price);
00031
00032
00033

```

9.129 price-client.h File Reference

Defines

- #define `EMBER_AF_PLUGIN_PRICE_CLIENT_TABLE_SIZE`
- #define `ZCL_PRICE_CLUSTER_PRICE_ACKNOWLEDGEMENT_MASK`
- #define `ZCL_PRICE_CLUSTER_RESERVED_MASK`
- #define `ZCL_PRICE_CLUSTER_START_TIME_NOW`
- #define `ZCL_PRICE_CLUSTER_END_TIME_NEVER`
- #define `ZCL_PRICE_CLUSTER_DURATION_UNTIL_CHANGED`
- #define `ZCL_PRICE_CLUSTER_PRICE_RATIO_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_GENERATION_PRICE_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_GENERATION_PRICE_RATIO_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_ALTERNATE_COST_DELIVERED_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_ALTERNATE_COST_UNIT_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_ALTERNATE_COST_TRAILING_DIGIT_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_NUMBER_OF_BLOCK_THRESHOLDS_NOT_USED`
- #define `ZCL_PRICE_CLUSTER_PRICE_CONTROL_NOT_USED`

Functions

- void `emAfPluginPriceClientPrintInfo` (void)

9.129.1 Define Documentation

9.129.1.1 #define EMBER_AF_PLUGIN_PRICE_CLIENT_TABLE_SIZE

Definition at line 9 of file `price-client.h`.

9.129.1.2 #define ZCL_PRICE_CLUSTER_PRICE_ACKNOWLEDGEMENT_MASK

Definition at line 12 of file [price-client.h](#).

9.129.1.3 #define ZCL_PRICE_CLUSTER_RESERVED_MASK

Definition at line 13 of file [price-client.h](#).

9.129.1.4 #define ZCL_PRICE_CLUSTER_START_TIME_NOW

Definition at line 15 of file [price-client.h](#).

9.129.1.5 #define ZCL_PRICE_CLUSTER_END_TIME_NEVER

Definition at line 16 of file [price-client.h](#).

9.129.1.6 #define ZCL_PRICE_CLUSTER_DURATION_UNTIL_CHANGED

Definition at line 17 of file [price-client.h](#).

9.129.1.7 #define ZCL_PRICE_CLUSTER_PRICE_RATIO_NOT_USED

Definition at line 18 of file [price-client.h](#).

9.129.1.8 #define ZCL_PRICE_CLUSTER_GENERATION_PRICE_NOT_USED

Definition at line 19 of file [price-client.h](#).

9.129.1.9 #define ZCL_PRICE_CLUSTER_GENERATION_PRICE_RATIO_NOT_USED

Definition at line 20 of file [price-client.h](#).

9.129.1.10 #define ZCL_PRICE_CLUSTER_ALTERNATE_COST_DELIVERED_NOT_USED

Definition at line 21 of file [price-client.h](#).

9.129.1.11 #define ZCL_PRICE_CLUSTER_ALTERNATE_COST_UNIT_NOT_USED

Definition at line 22 of file [price-client.h](#).

9.129.1.12 #define ZCL_PRICE_CLUSTER_ALTERNATE_COST_TRAILING_DIGIT_NOT_USED

Definition at line 23 of file [price-client.h](#).

9.129.1.13 #define ZCL_PRICE_CLUSTER_NUMBER_OF_BLOCK_THRESHOLDS_NOT_USED

Definition at line 24 of file [price-client.h](#).

9.129.1.14 #define ZCL_PRICE_CLUSTER_PRICE_CONTROL_NOT_USED

Definition at line 25 of file [price-client.h](#).

9.129.2 Function Documentation

9.129.2.1 void emAfPluginPriceClientPrintInfo (void)

9.130 price-client.h

```

00001 // ****
00002 // * price-client.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // * 80*
00007 // ****
00008 #ifndef EMBER_AF_PLUGIN_PRICE_CLIENT_TABLE_SIZE
00009 #define EMBER_AF_PLUGIN_PRICE_CLIENT_TABLE_SIZE 2
00010 #endif //EMBER_AF_PLUGIN_PRICE_CLIENT_TABLE_SIZE
00011
00012 #define ZCL_PRICE_CLUSTER_PRICE_ACKNOWLEDGEMENT_MASK 0x01
00013 #define ZCL_PRICE_CLUSTER_RESERVED_MASK 0xFE
00014
00015 #define ZCL_PRICE_CLUSTER_START_TIME_NOW 0x00000000UL
00016 #define ZCL_PRICE_CLUSTER_END_TIME_NEVER 0xFFFFFFFFUL
00017 #define ZCL_PRICE_CLUSTER_DURATION_UNTIL_CHANGED 0xFFFF
00018 #define ZCL_PRICE_CLUSTER_PRICE_RATIO_NOT_USED 0xFF
00019 #define ZCL_PRICE_CLUSTER_GENERATION_PRICE_NOT_USED 0xFFFFFFFFUL
00020 #define ZCL_PRICE_CLUSTER_GENERATION_PRICE_RATIO_NOT_USED 0xFF
00021 #define ZCL_PRICE_CLUSTER_ALTERNATE_COST_DELIVERED_NOT_USED 0xFFFFFFFFUL
00022 #define ZCL_PRICE_CLUSTER_ALTERNATE_COST_UNIT_NOT_USED 0xFF
00023 #define ZCL_PRICE_CLUSTER_ALTERNATE_COST_TRAILING_DIGIT_NOT_USED 0xFF
00024 #define ZCL_PRICE_CLUSTER_NUMBER_OF_BLOCK_THRESHOLDS_NOT_USED 0xFF
00025 #define ZCL_PRICE_CLUSTER_PRICE_CONTROL_NOT_USED 0x00
00026
00027 void emAfPluginPriceClientPrintInfo(void);

```

9.131 price-server.h File Reference

Data Structures

- struct [EmberAfScheduledPrice](#)

The price and metadata used by the Price server plugin.

Defines

- #define [EMBER_AF_PLUGIN_PRICE_SERVER_PRICE_TABLE_SIZE](#)
- #define [ZCL_PRICE_CLUSTER_PRICE_ACKNOWLEDGEMENT_MASK](#)
- #define [ZCL_PRICE_CLUSTER_RESERVED_MASK](#)
- #define [ZCL_PRICE_CLUSTER_START_TIME_NOW](#)
- #define [ZCL_PRICE_CLUSTER_END_TIME_NEVER](#)

- #define `ZCL_PRICE_CLUSTER_DURATION_UNTIL_CHANGED`
- #define `ZCL_PRICE_CLUSTER_NUMBER_OF_EVENTS_ALL`
- #define `ZCL_PRICE_INVALID_INDEX`

Functions

- void `emberAfPriceClearPriceTable` (void)
- boolean `emberAfPriceGetPriceTableEntry` (int8u index, EmberAfScheduledPrice *price)
- boolean `emberAfPriceSetPriceTableEntry` (int8u index, const EmberAfScheduledPrice *price)
- boolean `emberAfGetCurrentPrice` (EmberAfScheduledPrice *price)
- void `emberAfPricePrint` (const EmberAfScheduledPrice *price)
- void `emberAfPricePrintTable` (void)

9.131.1 Define Documentation

9.131.1.1 #define EMBER_AF_PLUGIN_PRICE_SERVER_PRICE_TABLE_SIZE

Definition at line 9 of file `price-server.h`.

9.131.1.2 #define ZCL_PRICE_CLUSTER_PRICE_ACKNOWLEDGEMENT_MASK

Definition at line 12 of file `price-server.h`.

9.131.1.3 #define ZCL_PRICE_CLUSTER_RESERVED_MASK

Definition at line 13 of file `price-server.h`.

9.131.1.4 #define ZCL_PRICE_CLUSTER_START_TIME_NOW

Definition at line 15 of file `price-server.h`.

9.131.1.5 #define ZCL_PRICE_CLUSTER_END_TIME_NEVER

Definition at line 16 of file `price-server.h`.

9.131.1.6 #define ZCL_PRICE_CLUSTER_DURATION_UNTIL_CHANGED

Definition at line 17 of file `price-server.h`.

9.131.1.7 #define ZCL_PRICE_CLUSTER_NUMBER_OF_EVENTS_ALL

Definition at line 18 of file `price-server.h`.

9.131.1.8 #define ZCL_PRICE_INVALID_INDEX

Definition at line 48 of file `price-server.h`.

9.131.2 Function Documentation

9.131.2.1 void emberAfPriceClearPriceTable(void)

Clear all prices in the price table.

9.131.2.2 boolean emberAfPriceGetPriceTableEntry(int8u *index*, EmberAfScheduledPrice * *price*)

Get a price used by the Price server plugin.

This function can be used to get a price and metadata that the plugin will send to clients. For "start now" prices that are current or scheduled, the duration is adjusted to reflect how many minutes remain for the price. Otherwise, the start time and duration of "start now" prices reflect the actual start and the original duration.

Parameters

| | |
|--------------|---|
| <i>index</i> | The index in the price table. |
| <i>price</i> | The EmberAfScheduledPrice structure describing the price. |

Returns

TRUE if the price was found or FALSE is the index is invalid.

9.131.2.3 boolean emberAfPriceSetPriceTableEntry(int8u *index*, const EmberAfScheduledPrice * *price*)

Set a price used by the Price server plugin.

This function can be used to set a price and metadata that the plugin will send to clients. Setting the start time to zero instructs clients to start the price now. For "start now" prices, the plugin will automatically adjust the duration reported to clients based on the original start time of the price.

Parameters

| | |
|--------------|--|
| <i>index</i> | The index in the price table. |
| <i>price</i> | The EmberAfScheduledPrice structure describing the price. If NULL, the price is removed from the server. |

Returns

TRUE if the price was set or removed or FALSE is the index is invalid.

9.131.2.4 boolean emberAfGetCurrentPrice(EmberAfScheduledPrice * *price*)

Get the current price used by the Price server plugin.

This function can be used to get the current price and metadata that the plugin will send to clients. For "start now" prices, the duration is adjusted to reflect how many minutes remain for the price. Otherwise, the start time and duration reflect the actual start and the original duration.

Parameters

| | |
|--------------|---|
| <i>price</i> | The EmberAfScheduledPrice structure describing the price. |
|--------------|---|

Returns

TRUE if the current price was found or FALSE is there is no current price.

9.131.2.5 void emberAfPricePrint (const EmberAfScheduledPrice * *price*)**9.131.2.6 void emberAfPricePrintTable (void)****9.132 price-server.h**

```

00001 // ****
00002 // * price.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // *80*
00007
00008 #ifndef EMBER_AF_PLUGIN_PRICE_SERVER_PRICE_TABLE_SIZE
00009     #define EMBER_AF_PLUGIN_PRICE_SERVER_PRICE_TABLE_SIZE 5
00010 #endif
00011
00012 #define ZCL_PRICE_CLUSTER_PRICE_ACKNOWLEDGEMENT_MASK 0x01
00013 #define ZCL_PRICE_CLUSTER_RESERVED_MASK          0xFE
00014
00015 #define ZCL_PRICE_CLUSTER_START_TIME_NOW        0x00000000UL
00016 #define ZCL_PRICE_CLUSTER_END_TIME_NEVER        0xFFFFFFFFFUL
00017 #define ZCL_PRICE_CLUSTER_DURATION_UNTIL_CHANGED 0xFFFF
00018 #define ZCL_PRICE_CLUSTER_NUMBER_OF_EVENTS_ALL   0x00
00019
00020
00021 typedef struct {
00022     int32u providerId;
00023     int8u rateLabel[ZCL_PRICE_CLUSTER_MAXIMUM_RATE_LABEL_LENGTH + 1];
00024     int32u issuerEventID;
00025     int8u unitOfMeasure;
00026     int16u currency;
00027     int8u priceTrailingDigitAndTier;
00028     int32u startTime; // added later in errata
00029     int16u duration; // in minutes
00030     int32u price;
00031     int8u priceRatio;
00032     int32u generationPrice;
00033     int8u generationPriceRatio;
00034     int32u alternateCostDelivered;
00035     int8u alternateCostUnit;
00036     int8u alternateCostTrailingDigit;
00037     int8u numberofBlockThresholds;
00038     int8u priceControl;
00039 } EmberAfScheduledPrice;
00040
00041 #define ZCL_PRICE_INVALID_INDEX 0xFF
00042
00043 void emberAfPriceClearPriceTable(void);
00044
00045 boolean emberAfPriceGetPriceTableEntry(int8u index,
00046                                         EmberAfScheduledPrice *price);
00047
00048 boolean emberAfPriceSetPriceTableEntry(int8u index,
00049                                         const EmberAfScheduledPrice *price);
00050
00051 boolean emberAfGetCurrentPrice(EmberAfScheduledPrice *price);
00052
00053 void emberAfPricePrint(const EmberAfScheduledPrice *price);
00054 void emberAfPricePrintTable(void);
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```

9.133 print-cluster.h File Reference

Defines

- #define __PRINTCLUSTER_BASIC_CLUSTER
- #define __PRINTCLUSTER_POWER_CONFIG_CLUSTER
- #define __PRINTCLUSTER_DEVICE_TEMP_CLUSTER
- #define __PRINTCLUSTER_IDENTIFY_CLUSTER
- #define __PRINTCLUSTER_GROUPS_CLUSTER
- #define __PRINTCLUSTER_SCENES_CLUSTER
- #define __PRINTCLUSTER_ON_OFF_CLUSTER
- #define __PRINTCLUSTER_ON_OFF_SWITCH_CONFIG_CLUSTER
- #define __PRINTCLUSTER_LEVEL_CONTROL_CLUSTER
- #define __PRINTCLUSTER_ALARM_CLUSTER
- #define __PRINTCLUSTER_TIME_CLUSTER
- #define __PRINTCLUSTER_RSSI_LOCATION_CLUSTER
- #define __PRINTCLUSTER_BINARY_INPUT_BASIC_CLUSTER
- #define __PRINTCLUSTER_COMMISSIONING_CLUSTER
- #define __PRINTCLUSTER_SHADE_CONFIG_CLUSTER
- #define __PRINTCLUSTER_PUMP_CONFIG_CONTROL_CLUSTER
- #define __PRINTCLUSTER_THERMOSTAT_CLUSTER
- #define __PRINTCLUSTER_FAN_CONTROL_CLUSTER
- #define __PRINTCLUSTER_DEHUMID_CONTROL_CLUSTER
- #define __PRINTCLUSTER_THERMOSTAT_UI_CONFIG_CLUSTER
- #define __PRINTCLUSTER_COLOR_CONTROL_CLUSTER
- #define __PRINTCLUSTER_BALAST_CONFIGURATION_CLUSTER
- #define __PRINTCLUSTER_ILLUM_MEASUREMENT_CLUSTER
- #define __PRINTCLUSTER_ILLUM_LEVEL_SENSING_CLUSTER
- #define __PRINTCLUSTER_TEMP_MEASUREMENT_CLUSTER
- #define __PRINTCLUSTER_PRESSURE_MEASUREMENT_CLUSTER
- #define __PRINTCLUSTER_FLOW_MEASUREMENT_CLUSTER
- #define __PRINTCLUSTER_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER
- #define __PRINTCLUSTER_OCCUPANCY_SENSING_CLUSTER
- #define __PRINTCLUSTER_IAS_ZONE_CLUSTER
- #define __PRINTCLUSTER_IAS_ACE_CLUSTER
- #define __PRINTCLUSTER_IAS_WD_CLUSTER
- #define __PRINTCLUSTER_DOOR_LOCK_CLUSTER
- #define __PRINTCLUSTER_WINDOW_COVERING_CLUSTER
- #define __PRINTCLUSTER_POWER_PROFILE_CLUSTER
- #define __PRINTCLUSTER_APPLIANCE_CONTROL_CLUSTER
- #define __PRINTCLUSTER_POLL_CONTROL_CLUSTER
- #define __PRINTCLUSTER_APPLIANCE_IDENTIFICATION_CLUSTER
- #define __PRINTCLUSTER_METER_IDENTIFICATION_CLUSTER
- #define __PRINTCLUSTER_APPLIANCE_EVENTS_AND_ALERT_CLUSTER
- #define __PRINTCLUSTER_GENERIC_TUNNEL_CLUSTER
- #define __PRINTCLUSTER_BACNET_PROTOCOL_TUNNEL_CLUSTER
- #define __PRINTCLUSTER_OTA_BOOTLOAD_CLUSTER
- #define __PRINTCLUSTER_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER
- #define __PRINTCLUSTER_SIMPLE_METERING_CLUSTER
- #define __PRINTCLUSTER_PRICE_CLUSTER

- #define __PRINTCLUSTER_MESSAGING_CLUSTER
- #define __PRINTCLUSTER_TUNNELING_CLUSTER
- #define __PRINTCLUSTER_PREPAYMENT_CLUSTER
- #define __PRINTCLUSTER_KEY_ESTABLISHMENT_CLUSTER
- #define __PRINTCLUSTER_ZLL_COMMISSIONING_CLUSTER
- #define __PRINTCLUSTER_SAMPLE_MFG_SPECIFIC_CLUSTER
- #define CLUSTER_IDS_TO_NAMES
- #define MAX_CLUSTER_NAME_LENGTH

9.133.1 Define Documentation

9.133.1.1 #define __PRINTCLUSTER_BASIC_CLUSTER

Definition at line 16 of file [print-cluster.h](#).

9.133.1.2 #define __PRINTCLUSTER_POWER_CONFIG_CLUSTER

Definition at line 21 of file [print-cluster.h](#).

9.133.1.3 #define __PRINTCLUSTER_DEVICE_TEMP_CLUSTER

Definition at line 26 of file [print-cluster.h](#).

9.133.1.4 #define __PRINTCLUSTER_IDENTIFY_CLUSTER

Definition at line 31 of file [print-cluster.h](#).

9.133.1.5 #define __PRINTCLUSTER_GROUPS_CLUSTER

Definition at line 36 of file [print-cluster.h](#).

9.133.1.6 #define __PRINTCLUSTER_SCENES_CLUSTER

Definition at line 41 of file [print-cluster.h](#).

9.133.1.7 #define __PRINTCLUSTER_ON_OFF_CLUSTER

Definition at line 46 of file [print-cluster.h](#).

9.133.1.8 #define __PRINTCLUSTER_ON_OFF_SWITCH_CONFIG_CLUSTER

Definition at line 51 of file [print-cluster.h](#).

9.133.1.9 #define __PRINTCLUSTER_LEVEL_CONTROL_CLUSTER

Definition at line 56 of file [print-cluster.h](#).

9.133.1.10 #define __PRINTCLUSTER_ALARM_CLUSTER

Definition at line 61 of file [print-cluster.h](#).

9.133.1.11 #define __PRINTCLUSTER_TIME_CLUSTER

Definition at line 66 of file [print-cluster.h](#).

9.133.1.12 #define __PRINTCLUSTER_RSSI_LOCATION_CLUSTER

Definition at line 71 of file [print-cluster.h](#).

9.133.1.13 #define __PRINTCLUSTER_BINARY_INPUT_BASIC_CLUSTER

Definition at line 76 of file [print-cluster.h](#).

9.133.1.14 #define __PRINTCLUSTER_COMMISSIONING_CLUSTER

Definition at line 81 of file [print-cluster.h](#).

9.133.1.15 #define __PRINTCLUSTER_SHADE_CONFIG_CLUSTER

Definition at line 86 of file [print-cluster.h](#).

9.133.1.16 #define __PRINTCLUSTER_PUMP_CONFIG_CONTROL_CLUSTER

Definition at line 91 of file [print-cluster.h](#).

9.133.1.17 #define __PRINTCLUSTER_THERMOSTAT_CLUSTER

Definition at line 96 of file [print-cluster.h](#).

9.133.1.18 #define __PRINTCLUSTER_FAN_CONTROL_CLUSTER

Definition at line 101 of file [print-cluster.h](#).

9.133.1.19 #define __PRINTCLUSTER_DEHUMID_CONTROL_CLUSTER

Definition at line 106 of file [print-cluster.h](#).

9.133.1.20 #define __PRINTCLUSTER_THERMOSTAT_UI_CONFIG_CLUSTER

Definition at line 111 of file [print-cluster.h](#).

9.133.1.21 #define __PRINTCLUSTER_COLOR_CONTROL_CLUSTER

Definition at line 116 of file [print-cluster.h](#).

9.133.1.22 #define __PRINTCLUSTER_BALLAST_CONFIGURATION_CLUSTER

Definition at line 121 of file [print-cluster.h](#).

9.133.1.23 #define __PRINTCLUSTER_ILLUM_MEASUREMENT_CLUSTER

Definition at line 126 of file [print-cluster.h](#).

9.133.1.24 #define __PRINTCLUSTER_ILLUM_LEVEL_SENSING_CLUSTER

Definition at line 131 of file [print-cluster.h](#).

9.133.1.25 #define __PRINTCLUSTER_TEMP_MEASUREMENT_CLUSTER

Definition at line 136 of file [print-cluster.h](#).

9.133.1.26 #define __PRINTCLUSTER_PRESSURE_MEASUREMENT_CLUSTER

Definition at line 141 of file [print-cluster.h](#).

9.133.1.27 #define __PRINTCLUSTER_FLOW_MEASUREMENT_CLUSTER

Definition at line 146 of file [print-cluster.h](#).

9.133.1.28 #define __PRINTCLUSTER_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER

Definition at line 151 of file [print-cluster.h](#).

9.133.1.29 #define __PRINTCLUSTER_OCCUPANCY_SENSING_CLUSTER

Definition at line 156 of file [print-cluster.h](#).

9.133.1.30 #define __PRINTCLUSTER_IAS_ZONE_CLUSTER

Definition at line 161 of file [print-cluster.h](#).

9.133.1.31 #define __PRINTCLUSTER_IAS_ACE_CLUSTER

Definition at line 166 of file [print-cluster.h](#).

9.133.1.32 #define __PRINTCLUSTER_IAS_WD_CLUSTER

Definition at line 171 of file [print-cluster.h](#).

9.133.1.33 #define __PRINTCLUSTER_DOOR_LOCK_CLUSTER

Definition at line 176 of file [print-cluster.h](#).

9.133.1.34 #define __PRINTCLUSTER_WINDOW_COVERING_CLUSTER

Definition at line 181 of file [print-cluster.h](#).

9.133.1.35 #define __PRINTCLUSTER_POWER_PROFILE_CLUSTER

Definition at line 186 of file [print-cluster.h](#).

9.133.1.36 #define __PRINTCLUSTER_APPLIANCE_CONTROL_CLUSTER

Definition at line 191 of file [print-cluster.h](#).

9.133.1.37 #define __PRINTCLUSTER_POLL_CONTROL_CLUSTER

Definition at line 196 of file [print-cluster.h](#).

9.133.1.38 #define __PRINTCLUSTER_APPLIANCE_IDENTIFICATION_CLUSTER

Definition at line 201 of file [print-cluster.h](#).

9.133.1.39 #define __PRINTCLUSTER_METER_IDENTIFICATION_CLUSTER

Definition at line 206 of file [print-cluster.h](#).

9.133.1.40 #define __PRINTCLUSTER_APPLIANCE_EVENTS_AND_ALERT_CLUSTER

Definition at line 211 of file [print-cluster.h](#).

9.133.1.41 #define __PRINTCLUSTER_GENERIC_TUNNEL_CLUSTER

Definition at line 216 of file [print-cluster.h](#).

9.133.1.42 #define __PRINTCLUSTER_BACNET_PROTOCOL_TUNNEL_CLUSTER

Definition at line 221 of file [print-cluster.h](#).

9.133.1.43 `#define __PRINTCLUSTER_OTA_BOOTLOAD_CLUSTER`

Definition at line 226 of file [print-cluster.h](#).

9.133.1.44 `#define __PRINTCLUSTER_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER`

Definition at line 231 of file [print-cluster.h](#).

9.133.1.45 `#define __PRINTCLUSTER_SIMPLE_METERING_CLUSTER`

Definition at line 236 of file [print-cluster.h](#).

9.133.1.46 `#define __PRINTCLUSTER_PRICE_CLUSTER`

Definition at line 241 of file [print-cluster.h](#).

9.133.1.47 `#define __PRINTCLUSTER_MESSAGING_CLUSTER`

Definition at line 246 of file [print-cluster.h](#).

9.133.1.48 `#define __PRINTCLUSTER_TUNNELING_CLUSTER`

Definition at line 251 of file [print-cluster.h](#).

9.133.1.49 `#define __PRINTCLUSTER_PREPAYMENT_CLUSTER`

Definition at line 256 of file [print-cluster.h](#).

9.133.1.50 `#define __PRINTCLUSTER_KEY_ESTABLISHMENT_CLUSTER`

Definition at line 261 of file [print-cluster.h](#).

9.133.1.51 `#define __PRINTCLUSTER_ZLL_COMMISSIONING_CLUSTER`

Definition at line 266 of file [print-cluster.h](#).

9.133.1.52 `#define __PRINTCLUSTER_SAMPLE_MFG_SPECIFIC_CLUSTER`

Definition at line 271 of file [print-cluster.h](#).

9.133.1.53 `#define CLUSTER_IDS_TO_NAMES`

Definition at line 273 of file [print-cluster.h](#).

9.133.1.54 #define MAX_CLUSTER_NAME_LENGTH

Definition at line 328 of file [print-cluster.h](#).

9.134 print-cluster.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // This is the mapping of IDs to cluster names assuming a format according
00008 // to the "EmberAfClusterName" defined in the ZCL header.
00009 // The names of clusters that are not present, are removed.
00010
00011
00012
00013 #if defined(ZCL_USING_BASIC_CLUSTER_SERVER) ||
     defined(ZCL_USING_BASIC_CLUSTER_CLIENT)
00014 #define __PRINTCLUSTER_BASIC_CLUSTER {ZCL_BASIC_CLUSTER_ID, "Basic" },
00015 #else
00016 #define __PRINTCLUSTER_BASIC_CLUSTER
00017 #endif
00018 #if defined(ZCL_USING_POWER_CONFIG_CLUSTER_SERVER) ||
     defined(ZCL_USING_POWER_CONFIG_CLUSTER_CLIENT)
00019 #define __PRINTCLUSTER_POWER_CONFIG_CLUSTER {ZCL_POWER_CONFIG_CLUSTER_ID,
     "Power Configuration" },
00020 #else
00021 #define __PRINTCLUSTER_POWER_CONFIG_CLUSTER
00022 #endif
00023 #if defined(ZCL_USING_DEVICE_TEMP_CLUSTER_SERVER) ||
     defined(ZCL_USING_DEVICE_TEMP_CLUSTER_CLIENT)
00024 #define __PRINTCLUSTER_DEVICE_TEMP_CLUSTER {ZCL_DEVICE_TEMP_CLUSTER_ID,
     "Device Temperature Configuration" },
00025 #else
00026 #define __PRINTCLUSTER_DEVICE_TEMP_CLUSTER
00027 #endif
00028 #if defined(ZCL_USING_IDENTIFY_CLUSTER_SERVER) ||
     defined(ZCL_USING_IDENTIFY_CLUSTER_CLIENT)
00029 #define __PRINTCLUSTER_IDENTIFY_CLUSTER {ZCL_IDENTIFY_CLUSTER_ID, "Identify"
     },
00030 #else
00031 #define __PRINTCLUSTER_IDENTIFY_CLUSTER
00032 #endif
00033 #if defined(ZCL_USING_GROUPS_CLUSTER_SERVER) ||
     defined(ZCL_USING_GROUPS_CLUSTER_CLIENT)
00034 #define __PRINTCLUSTER_GROUPS_CLUSTER {ZCL_GROUPS_CLUSTER_ID, "Groups" },
00035 #else
00036 #define __PRINTCLUSTER_GROUPS_CLUSTER
00037 #endif
00038 #if defined(ZCL_USING_SCENES_CLUSTER_SERVER) ||
     defined(ZCL_USING_SCENES_CLUSTER_CLIENT)
00039 #define __PRINTCLUSTER_SCENES_CLUSTER {ZCL_SCENES_CLUSTER_ID, "Scenes" },
00040 #else
00041 #define __PRINTCLUSTER_SCENES_CLUSTER
00042 #endif
00043 #if defined(ZCL_USING_ON_OFF_CLUSTER_SERVER) ||
     defined(ZCL_USING_ON_OFF_CLUSTER_CLIENT)
00044 #define __PRINTCLUSTER_ON_OFF_CLUSTER {ZCL_ON_OFF_CLUSTER_ID, "On/off" },
00045 #else
00046 #define __PRINTCLUSTER_ON_OFF_CLUSTER
00047 #endif
00048 #if defined(ZCL_USING_ON_OFF_SWITCH_CONFIG_CLUSTER_SERVER) ||
     defined(ZCL_USING_ON_OFF_SWITCH_CONFIG_CLUSTER_CLIENT)
00049 #define __PRINTCLUSTER_ON_OFF_SWITCH_CONFIG_CLUSTER
     {ZCL_ON_OFF_SWITCH_CONFIG_CLUSTER_ID, "On/off Switch Configuration" },
00050 #else
00051 #define __PRINTCLUSTER_ON_OFF_SWITCH_CONFIG_CLUSTER
00052 #endif
00053 #if defined(ZCL_USING_LEVEL_CONTROL_CLUSTER_SERVER) ||
     defined(ZCL_USING_LEVEL_CONTROL_CLUSTER_CLIENT)
00054 #define __PRINTCLUSTER_LEVEL_CONTROL_CLUSTER {ZCL_LEVEL_CONTROL_CLUSTER_ID,
     "Level Control" },
00055 #else

```

```

00056 #define __PRINTCLUSTER_LEVEL_CONTROL_CLUSTER
00057 #endif
00058 #if defined(ZCL_USING_ALARM_CLUSTER_SERVER) ||
     defined(ZCL_USING_ALARM_CLUSTER_CLIENT)
00059 #define __PRINTCLUSTER_ALARM_CLUSTER {ZCL_ALARM_CLUSTER_ID, "Alarms" },
00060 #else
00061 #define __PRINTCLUSTER_ALARM_CLUSTER
00062 #endif
00063 #if defined(ZCL_USING_TIME_CLUSTER_SERVER) ||
     defined(ZCL_USING_TIME_CLUSTER_CLIENT)
00064 #define __PRINTCLUSTER_TIME_CLUSTER {ZCL_TIME_CLUSTER_ID, "Time" },
00065 #else
00066 #define __PRINTCLUSTER_TIME_CLUSTER
00067 #endif
00068 #if defined(ZCL_USING_RSSI_LOCATION_CLUSTER_SERVER) ||
     defined(ZCL_USING_RSSI_LOCATION_CLUSTER_CLIENT)
00069 #define __PRINTCLUSTER_RSSI_LOCATION_CLUSTER {ZCL_RSSI_LOCATION_CLUSTER_ID,
     "RSSI Location" },
00070 #else
00071 #define __PRINTCLUSTER_RSSI_LOCATION_CLUSTER
00072 #endif
00073 #if defined(ZCL_USING_BINARY_INPUT_BASIC_CLUSTER_SERVER) ||
     defined(ZCL_USING_BINARY_INPUT_BASIC_CLUSTER_CLIENT)
00074 #define __PRINTCLUSTER_BINARY_INPUT_BASIC_CLUSTER
     {ZCL_BINARY_INPUT_BASIC_CLUSTER_ID, "Binary Input (Basic)" },
00075 #else
00076 #define __PRINTCLUSTER_BINARY_INPUT_BASIC_CLUSTER
00077 #endif
00078 #if defined(ZCL_USING_COMMISSIONING_CLUSTER_SERVER) ||
     defined(ZCL_USING_COMMISSIONING_CLUSTER_CLIENT)
00079 #define __PRINTCLUSTER_COMMISSIONING_CLUSTER {ZCL_COMMISSIONING_CLUSTER_ID,
     "Commissioning" },
00080 #else
00081 #define __PRINTCLUSTER_COMMISSIONING_CLUSTER
00082 #endif
00083 #if defined(ZCL_USING_SHADE_CONFIG_CLUSTER_SERVER) ||
     defined(ZCL_USING_SHADE_CONFIG_CLUSTER_CLIENT)
00084 #define __PRINTCLUSTER_SHADE_CONFIG_CLUSTER {ZCL_SHADE_CONFIG_CLUSTER_ID,
     "Shade Configuration" },
00085 #else
00086 #define __PRINTCLUSTER_SHADE_CONFIG_CLUSTER
00087 #endif
00088 #if defined(ZCL_USING_PUMP_CONFIG_CONTROL_CLUSTER_SERVER) ||
     defined(ZCL_USING_PUMP_CONFIG_CONTROL_CLUSTER_CLIENT)
00089 #define __PRINTCLUSTER_PUMP_CONFIG_CONTROL_CLUSTER
     {ZCL_PUMP_CONFIG_CONTROL_CLUSTER_ID, "Pump Configuration and Control" },
00090 #else
00091 #define __PRINTCLUSTER_PUMP_CONFIG_CONTROL_CLUSTER
00092 #endif
00093 #if defined(ZCL_USING_THERMOSTAT_CLUSTER_SERVER) ||
     defined(ZCL_USING_THERMOSTAT_CLUSTER_CLIENT)
00094 #define __PRINTCLUSTER_THERMOSTAT_CLUSTER {ZCL_THERMOSTAT_CLUSTER_ID,
     "Thermostat" },
00095 #else
00096 #define __PRINTCLUSTER_THERMOSTAT_CLUSTER
00097 #endif
00098 #if defined(ZCL_USING_FAN_CONTROL_CLUSTER_SERVER) ||
     defined(ZCL_USING_FAN_CONTROL_CLUSTER_CLIENT)
00099 #define __PRINTCLUSTER_FAN_CONTROL_CLUSTER {ZCL_FAN_CONTROL_CLUSTER_ID, "Fan
     Control" },
00100 #else
00101 #define __PRINTCLUSTER_FAN_CONTROL_CLUSTER
00102 #endif
00103 #if defined(ZCL_USING_DEHUMID_CONTROL_CLUSTER_SERVER) ||
     defined(ZCL_USING_DEHUMID_CONTROL_CLUSTER_CLIENT)
00104 #define __PRINTCLUSTER_DEHUMID_CONTROL_CLUSTER
     {ZCL_DEHUMID_CONTROL_CLUSTER_ID, "Dehumidification Control" },
00105 #else
00106 #define __PRINTCLUSTER_DEHUMID_CONTROL_CLUSTER
00107 #endif
00108 #if defined(ZCL_USING_THERMOSTAT_UI_CONFIG_CLUSTER_SERVER) ||
     defined(ZCL_USING_THERMOSTAT_UI_CONFIG_CLUSTER_CLIENT)
00109 #define __PRINTCLUSTER_THERMOSTAT_UI_CONFIG_CLUSTER
     {ZCL_THERMOSTAT_UI_CONFIG_CLUSTER_ID, "Thermostat User Interface Configuration" },
00110 #else
00111 #define __PRINTCLUSTER_THERMOSTAT_UI_CONFIG_CLUSTER
00112 #endif
00113 #if defined(ZCL_USING_COLOR_CONTROL_CLUSTER_SERVER) ||
     defined(ZCL_USING_COLOR_CONTROL_CLUSTER_CLIENT)
00114 #define __PRINTCLUSTER_COLOR_CONTROL_CLUSTER {ZCL_COLOR_CONTROL_CLUSTER_ID,

```

```

        "Color Control" },
00115 #else
00116 #define __PRINTCLUSTER_COLOR_CONTROL_CLUSTER
00117 #endif
00118 #if defined(ZCL_USING_BALLAST_CONFIGURATION_CLUSTER_SERVER) ||
      defined(ZCL_USING_BALLAST_CONFIGURATION_CLUSTER_CLIENT)
00119 #define __PRINTCLUSTER_BALLAST_CONFIGURATION_CLUSTER
      {ZCL_BALLAST_CONFIGURATION_CLUSTER_ID, "Ballast Configuration" },
00120 #else
00121 #define __PRINTCLUSTER_BALLAST_CONFIGURATION_CLUSTER
00122 #endif
00123 #if defined(ZCL_USING_ILLUM_MEASUREMENT_CLUSTER_SERVER) ||
      defined(ZCL_USING_ILLUM_MEASUREMENT_CLUSTER_CLIENT)
00124 #define __PRINTCLUSTER_ILLUM_MEASUREMENT_CLUSTER
      {ZCL_ILLUM_MEASUREMENT_CLUSTER_ID, "Illuminance Measurement" },
00125 #else
00126 #define __PRINTCLUSTER_ILLUM_MEASUREMENT_CLUSTER
00127 #endif
00128 #if defined(ZCL_USING_ILLUM_LEVEL_SENSING_CLUSTER_SERVER) ||
      defined(ZCL_USING_ILLUM_LEVEL_SENSING_CLUSTER_CLIENT)
00129 #define __PRINTCLUSTER_ILLUM_LEVEL_SENSING_CLUSTER
      {ZCL_ILLUM_LEVEL_SENSING_CLUSTER_ID, "Illuminance Level Sensing" },
00130 #else
00131 #define __PRINTCLUSTER_ILLUM_LEVEL_SENSING_CLUSTER
00132 #endif
00133 #if defined(ZCL_USING_TEMP_MEASUREMENT_CLUSTER_SERVER) ||
      defined(ZCL_USING_TEMP_MEASUREMENT_CLUSTER_CLIENT)
00134 #define __PRINTCLUSTER_TEMP_MEASUREMENT_CLUSTER
      {ZCL_TEMP_MEASUREMENT_CLUSTER_ID, "Temperature Measurement" },
00135 #else
00136 #define __PRINTCLUSTER_TEMP_MEASUREMENT_CLUSTER
00137 #endif
00138 #if defined(ZCL_USING_PRESSURE_MEASUREMENT_CLUSTER_SERVER) ||
      defined(ZCL_USING_PRESSURE_MEASUREMENT_CLUSTER_CLIENT)
00139 #define __PRINTCLUSTER_PRESSURE_MEASUREMENT_CLUSTER
      {ZCL_PRESSURE_MEASUREMENT_CLUSTER_ID, "Pressure Measurement" },
00140 #else
00141 #define __PRINTCLUSTER_PRESSURE_MEASUREMENT_CLUSTER
00142 #endif
00143 #if defined(ZCL_USING_FLOW_MEASUREMENT_CLUSTER_SERVER) ||
      defined(ZCL_USING_FLOW_MEASUREMENT_CLUSTER_CLIENT)
00144 #define __PRINTCLUSTER_FLOW_MEASUREMENT_CLUSTER
      {ZCL_FLOW_MEASUREMENT_CLUSTER_ID, "Flow Measurement" },
00145 #else
00146 #define __PRINTCLUSTER_FLOW_MEASUREMENT_CLUSTER
00147 #endif
00148 #if defined(ZCL_USING_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER_SERVER) ||
      defined(ZCL_USING_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER_CLIENT)
00149 #define __PRINTCLUSTER_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER
      {ZCL_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER_ID, "Relative Humidity Measurement" },
00150 #else
00151 #define __PRINTCLUSTER_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER
00152 #endif
00153 #if defined(ZCL_USING_OCCUPANCY_SENSING_CLUSTER_SERVER) ||
      defined(ZCL_USING_OCCUPANCY_SENSING_CLUSTER_CLIENT)
00154 #define __PRINTCLUSTER_OCCUPANCY_SENSING_CLUSTER
      {ZCL_OCCUPANCY_SENSING_CLUSTER_ID, "Occupancy Sensing" },
00155 #else
00156 #define __PRINTCLUSTER_OCCUPANCY_SENSING_CLUSTER
00157 #endif
00158 #if defined(ZCL_USING_IAS_ZONE_CLUSTER_SERVER) ||
      defined(ZCL_USING_IAS_ZONE_CLUSTER_CLIENT)
00159 #define __PRINTCLUSTER_IAS_ZONE_CLUSTER {ZCL_IAS_ZONE_CLUSTER_ID, "IAS Zone" },
00160 #else
00161 #define __PRINTCLUSTER_IAS_ZONE_CLUSTER
00162 #endif
00163 #if defined(ZCL_USING_IAS_ACE_CLUSTER_SERVER) ||
      defined(ZCL_USING_IAS_ACE_CLUSTER_CLIENT)
00164 #define __PRINTCLUSTER_IAS_ACE_CLUSTER {ZCL_IAS_ACE_CLUSTER_ID, "IAS ACE" },
00165 #else
00166 #define __PRINTCLUSTER_IAS_ACE_CLUSTER
00167 #endif
00168 #if defined(ZCL_USING_IAS_WD_CLUSTER_SERVER) ||
      defined(ZCL_USING_IAS_WD_CLUSTER_CLIENT)
00169 #define __PRINTCLUSTER_IAS_WD_CLUSTER {ZCL_IAS_WD_CLUSTER_ID, "IAS WD" },
00170 #else
00171 #define __PRINTCLUSTER_IAS_WD_CLUSTER
00172 #endif
00173 #if defined(ZCL_USING_DOOR_LOCK_CLUSTER_SERVER) ||

```

```

defined(ZCL_USING_DOOR_LOCK_CLUSTER_CLIENT)
00174 #define __PRINTCLUSTER_DOOR_LOCK_CLUSTER {ZCL_DOOR_LOCK_CLUSTER_ID, "Door
Lock" },
00175 #else
00176 #define __PRINTCLUSTER_DOOR_LOCK_CLUSTER
00177 #endif
00178 #if defined(ZCL_USING_WINDOW_COVERING_CLUSTER_SERVER) ||
defined(ZCL_USING_WINDOW_COVERING_CLUSTER_CLIENT)
00179 #define __PRINTCLUSTER_WINDOW_COVERING_CLUSTER
{ZCL_WINDOW_COVERING_CLUSTER_ID, "Window Covering" },
00180 #else
00181 #define __PRINTCLUSTER_WINDOW_COVERING_CLUSTER
00182 #endif
00183 #if defined(ZCL_USING_POWER_PROFILE_CLUSTER_SERVER) ||
defined(ZCL_USING_POWER_PROFILE_CLUSTER_CLIENT)
00184 #define __PRINTCLUSTER_POWER_PROFILE_CLUSTER {ZCL_POWER_PROFILE_CLUSTER_ID,
"Power Profile" },
00185 #else
00186 #define __PRINTCLUSTER_POWER_PROFILE_CLUSTER
00187 #endif
00188 #if defined(ZCL_USING_APPLIANCE_CONTROL_CLUSTER_SERVER) ||
defined(ZCL_USING_APPLIANCE_CONTROL_CLUSTER_CLIENT)
00189 #define __PRINTCLUSTER_APPLIANCE_CONTROL_CLUSTER
{ZCL_APPLIANCE_CONTROL_CLUSTER_ID, "Appliance Control" },
00190 #else
00191 #define __PRINTCLUSTER_APPLIANCE_CONTROL_CLUSTER
00192 #endif
00193 #if defined(ZCL_USING_POLL_CONTROL_CLUSTER_SERVER) ||
defined(ZCL_USING_POLL_CONTROL_CLUSTER_CLIENT)
00194 #define __PRINTCLUSTER_POLL_CONTROL_CLUSTER {ZCL_POLL_CONTROL_CLUSTER_ID,
"Poll Control" },
00195 #else
00196 #define __PRINTCLUSTER_POLL_CONTROL_CLUSTER
00197 #endif
00198 #if defined(ZCL_USING_APPLIANCE_IDENTIFICATION_CLUSTER_SERVER) ||
defined(ZCL_USING_APPLIANCE_IDENTIFICATION_CLUSTER_CLIENT)
00199 #define __PRINTCLUSTER_APPLIANCE_IDENTIFICATION_CLUSTER
{ZCL_APPLIANCE_IDENTIFICATION_CLUSTER_ID, "Appliance Identification" },
00200 #else
00201 #define __PRINTCLUSTER_APPLIANCE_IDENTIFICATION_CLUSTER
00202 #endif
00203 #if defined(ZCL_USING_METER_IDENTIFICATION_CLUSTER_SERVER) ||
defined(ZCL_USING_METER_IDENTIFICATION_CLUSTER_CLIENT)
00204 #define __PRINTCLUSTER_METER_IDENTIFICATION_CLUSTER
{ZCL_METER_IDENTIFICATION_CLUSTER_ID, "Meter Identification" },
00205 #else
00206 #define __PRINTCLUSTER_METER_IDENTIFICATION_CLUSTER
00207 #endif
00208 #if defined(ZCL_USING_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_SERVER) ||
defined(ZCL_USING_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_CLIENT)
00209 #define __PRINTCLUSTER_APPLIANCE_EVENTS_AND_ALERT_CLUSTER
{ZCL_APPLIANCE_EVENTS_AND_ALERT_CLUSTER_ID, "Appliance Events and Alert" },
00210 #else
00211 #define __PRINTCLUSTER_APPLIANCE_EVENTS_AND_ALERT_CLUSTER
00212 #endif
00213 #if defined(ZCL_USING_GENERIC_TUNNEL_CLUSTER_SERVER) ||
defined(ZCL_USING_GENERIC_TUNNEL_CLUSTER_CLIENT)
00214 #define __PRINTCLUSTER_GENERIC_TUNNEL_CLUSTER {ZCL_GENERIC_TUNNEL_CLUSTER_ID,
"Generic Tunnel" },
00215 #else
00216 #define __PRINTCLUSTER_GENERIC_TUNNEL_CLUSTER
00217 #endif
00218 #if defined(ZCL_USING_BACNET_PROTOCOL_TUNNEL_CLUSTER_SERVER) ||
defined(ZCL_USING_BACNET_PROTOCOL_TUNNEL_CLUSTER_CLIENT)
00219 #define __PRINTCLUSTER_BACNET_PROTOCOL_TUNNEL_CLUSTER
{ZCL_BACNET_PROTOCOL_TUNNEL_CLUSTER_ID, "BACnet Protocol Tunnel" },
00220 #else
00221 #define __PRINTCLUSTER_BACNET_PROTOCOL_TUNNEL_CLUSTER
00222 #endif
00223 #if defined(ZCL_USING_OTA_BOOTLOAD_CLUSTER_SERVER) ||
defined(ZCL_USING_OTA_BOOTLOAD_CLUSTER_CLIENT)
00224 #define __PRINTCLUSTER_OTA_BOOTLOAD_CLUSTER {ZCL_OTA_BOOTLOAD_CLUSTER_ID,
"Over the Air Bootloading Cluster" },
00225 #else
00226 #define __PRINTCLUSTER_OTA_BOOTLOAD_CLUSTER
00227 #endif
00228 #if defined(ZCL_USING_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_SERVER) ||
defined(ZCL_USING_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_CLIENT)
00229 #define __PRINTCLUSTER_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER
{ZCL_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_ID, "Demand Response and Load Control" },

```

```

00230 #else
00231   #define __PRINTCLUSTER_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER
00232 #endif
00233 #if defined(ZCL_USING_SIMPLE_METERING_CLUSTER_SERVER) ||
     defined(ZCL_USING_SIMPLE_METERING_CLUSTER_CLIENT)
00234   #define __PRINTCLUSTER_SIMPLE_METERING_CLUSTER
     {ZCL_SIMPLE_METERING_CLUSTER_ID, "Simple Metering" },
00235 #else
00236   #define __PRINTCLUSTER_SIMPLE_METERING_CLUSTER
00237 #endif
00238 #if defined(ZCL_USING_PRICE_CLUSTER_SERVER) ||
     defined(ZCL_USING_PRICE_CLUSTER_CLIENT)
00239   #define __PRINTCLUSTER_PRICE_CLUSTER {ZCL_PRICE_CLUSTER_ID, "Price" },
00240 #else
00241   #define __PRINTCLUSTER_PRICE_CLUSTER
00242 #endif
00243 #if defined(ZCL_USING_MESSAGING_CLUSTER_SERVER) ||
     defined(ZCL_USING_MESSAGING_CLUSTER_CLIENT)
00244   #define __PRINTCLUSTER_MESSAGING_CLUSTER {ZCL_MESSAGING_CLUSTER_ID,
     "Messaging" },
00245 #else
00246   #define __PRINTCLUSTER_MESSAGING_CLUSTER
00247 #endif
00248 #if defined(ZCL_USING_TUNNELING_CLUSTER_SERVER) ||
     defined(ZCL_USING_TUNNELING_CLUSTER_CLIENT)
00249   #define __PRINTCLUSTER_TUNNELING_CLUSTER {ZCL_TUNNELING_CLUSTER_ID,
     "Tunneling" },
00250 #else
00251   #define __PRINTCLUSTER_TUNNELING_CLUSTER
00252 #endif
00253 #if defined(ZCL_USING_PREPAYMENT_CLUSTER_SERVER) ||
     defined(ZCL_USING_PREPAYMENT_CLUSTER_CLIENT)
00254   #define __PRINTCLUSTER_PREPAYMENT_CLUSTER {ZCL_PREPAYMENT_CLUSTER_ID,
     "prepayment" },
00255 #else
00256   #define __PRINTCLUSTER_PREPAYMENT_CLUSTER
00257 #endif
00258 #if defined(ZCL_USING_KEY_ESTABLISHMENT_CLUSTER_SERVER) ||
     defined(ZCL_USING_KEY_ESTABLISHMENT_CLUSTER_CLIENT)
00259   #define __PRINTCLUSTER_KEY_ESTABLISHMENT_CLUSTER
     {ZCL_KEY_ESTABLISHMENT_CLUSTER_ID, "Key establishment" },
00260 #else
00261   #define __PRINTCLUSTER_KEY_ESTABLISHMENT_CLUSTER
00262 #endif
00263 #if defined(ZCL_USING_ZLL_COMMISSIONING_CLUSTER_SERVER) ||
     defined(ZCL_USING_ZLL_COMMISSIONING_CLUSTER_CLIENT)
00264   #define __PRINTCLUSTER_ZLL_COMMISSIONING_CLUSTER
     {ZCL_ZLL_COMMISSIONING_CLUSTER_ID, "ZLL Commissioning" },
00265 #else
00266   #define __PRINTCLUSTER_ZLL_COMMISSIONING_CLUSTER
00267 #endif
00268 #if defined(ZCL_USING_SAMPLE_MFG_SPECIFIC_CLUSTER_SERVER) ||
     defined(ZCL_USING_SAMPLE_MFG_SPECIFIC_CLUSTER_CLIENT)
00269   #define __PRINTCLUSTER_SAMPLE_MFG_SPECIFIC_CLUSTER
     {ZCL_SAMPLE_MFG_SPECIFIC_CLUSTER_ID, "Sample Mfg Specific Cluster" },
00270 #else
00271   #define __PRINTCLUSTER_SAMPLE_MFG_SPECIFIC_CLUSTER
00272 #endif
00273 #define CLUSTER_IDS_TO_NAMES \
00274   __PRINTCLUSTER_BASIC_CLUSTER \
00275   __PRINTCLUSTER_POWER_CONFIG_CLUSTER \
00276   __PRINTCLUSTER_DEVICE_TEMP_CLUSTER \
00277   __PRINTCLUSTER_IDENTIFY_CLUSTER \
00278   __PRINTCLUSTER_GROUPS_CLUSTER \
00279   __PRINTCLUSTER_SCENES_CLUSTER \
00280   __PRINTCLUSTER_ON_OFF_CLUSTER \
00281   __PRINTCLUSTER_ON_OFF_SWITCH_CONFIG_CLUSTER \
00282   __PRINTCLUSTER_LEVEL_CONTROL_CLUSTER \
00283   __PRINTCLUSTER_ALARM_CLUSTER \
00284   __PRINTCLUSTER_TIME_CLUSTER \
00285   __PRINTCLUSTER_RSST_LOCATION_CLUSTER \
00286   __PRINTCLUSTER_BINARY_INPUT_BASIC_CLUSTER \
00287   __PRINTCLUSTER_COMMISIONING_CLUSTER \
00288   __PRINTCLUSTER_SHADE_CONFIG_CLUSTER \
00289   __PRINTCLUSTER_PUMP_CONFIG_CONTROL_CLUSTER \
00290   __PRINTCLUSTER_THERMOSTAT_CLUSTER \
00291   __PRINTCLUSTER_FAN_CONTROL_CLUSTER \
00292   __PRINTCLUSTER_DEHUMID_CONTROL_CLUSTER \
00293   __PRINTCLUSTER_THERMOSTAT_UI_CONFIG_CLUSTER \
00294   __PRINTCLUSTER_COLOR_CONTROL_CLUSTER \

```

```

00295     __PRINTCLUSTER_BALLAST_CONFIGURATION_CLUSTER \
00296     __PRINTCLUSTER_ILLUM_MEASUREMENT_CLUSTER \
00297     __PRINTCLUSTER_ILLUM_LEVEL_SENSING_CLUSTER \
00298     __PRINTCLUSTER_TEMP_MEASUREMENT_CLUSTER \
00299     __PRINTCLUSTER_PRESSURE_MEASUREMENT_CLUSTER \
00300     __PRINTCLUSTER_FLOW_MEASUREMENT_CLUSTER \
00301     __PRINTCLUSTER_RELATIVE_HUMIDITY_MEASUREMENT_CLUSTER \
00302     __PRINTCLUSTER_OCCUPANCY_SENSING_CLUSTER \
00303     __PRINTCLUSTER_IAS_ZONE_CLUSTER \
00304     __PRINTCLUSTER_IAS_ACE_CLUSTER \
00305     __PRINTCLUSTER_IAS_WD_CLUSTER \
00306     __PRINTCLUSTER_DOOR_LOCK_CLUSTER \
00307     __PRINTCLUSTER_WINDOW_COVERING_CLUSTER \
00308     __PRINTCLUSTER_POWER_PROFILE_CLUSTER \
00309     __PRINTCLUSTER_APPLIANCE_CONTROL_CLUSTER \
00310     __PRINTCLUSTER_POLL_CONTROL_CLUSTER \
00311     __PRINTCLUSTER_APPLIANCE_IDENTIFICATION_CLUSTER \
00312     __PRINTCLUSTER_METER_IDENTIFICATION_CLUSTER \
00313     __PRINTCLUSTER_APPLIANCE_EVENTS_AND_ALERT_CLUSTER \
00314     __PRINTCLUSTER_GENERIC_TUNNEL_CLUSTER \
00315     __PRINTCLUSTER_BACNET_PROTOCOL_TUNNEL_CLUSTER \
00316     __PRINTCLUSTER_OTA_BOOTLOAD_CLUSTER \
00317     __PRINTCLUSTER_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER \
00318     __PRINTCLUSTER_SIMPLE_METERING_CLUSTER \
00319     __PRINTCLUSTER_PRICE_CLUSTER \
00320     __PRINTCLUSTER_MESSAGING_CLUSTER \
00321     __PRINTCLUSTER_TUNNELING_CLUSTER \
00322     __PRINTCLUSTER_PREPAYMENT_CLUSTER \
00323     __PRINTCLUSTER_KEY_ESTABLISHMENT_CLUSTER \
00324     __PRINTCLUSTER_ZLL_COMMISSIONING_CLUSTER \
00325     __PRINTCLUSTER_SAMPLE_MFG_SPECIFIC_CLUSTER \
00326
00327
00328 #define MAX_CLUSTER_NAME_LENGTH 39

```

9.135 reporting-callback.h File Reference

Functions

- `EmberAfStatus emberAfPluginReportingConfiguredCallback (const EmberAfPluginReportingEntry *entry)`

9.136 reporting-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00028 EmberAfStatus emberAfPluginReportingConfiguredCallback(const
    EmberAfPluginReportingEntry * entry);
00029
00030
00031

```

9.137 reporting.h File Reference

Functions

- `EmberAfStatus emAfPluginReportingConfigureReportedAttribute (const EmberAfClusterCommand *cmd, EmberAfAttributeId attributeId, int8u mask, EmberAfAttributeType dataType, int16u minInterval, int16u maxInterval, int32u reportableChange)`

- void `emAfPluginReportingGetEntry` (int8u index, EmberAfPluginReportingEntry *result)
- void `emAfPluginReportingSetEntry` (int8u index, EmberAfPluginReportingEntry *value)
- EmberStatus `emAfPluginReportingRemoveEntry` (int8u index)

9.137.1 Function Documentation

- 9.137.1.1 EmberAfStatus `emAfPluginReportingConfigureReportedAttribute` (const EmberAfClusterCommand * *cmd*, EmberAfAttributeId *attributeId*, int8u *mask*, EmberAfAttributeType *dataType*, int16u *minInterval*, int16u *maxInterval*, int32u *reportableChange*)
- 9.137.1.2 void `emAfPluginReportingGetEntry` (int8u *index*, EmberAfPluginReportingEntry * *result*)
- 9.137.1.3 void `emAfPluginReportingSetEntry` (int8u *index*, EmberAfPluginReportingEntry * *value*)
- 9.137.1.4 EmberStatus `emAfPluginReportingRemoveEntry` (int8u *index*)

9.138 reporting.h

```

00001 // ****
00002 // * reporting.h
00003 // *
00004 // *
00005 // * Copyright 2011 by Ember Corporation. All rights reserved.
00006 // * * * * *
00007
00008 EmberAfStatus emAfPluginReportingConfigureReportedAttribute(const
00009                           EmberAfClusterCommand *cmd,
00010                           EmberAfAttributeId
00011                           attributeId,
00012                           int8u mask,
00013                           EmberAfAttributeType
00014                           dataType,
00015                           int16u minInterval,
00016                           int16u maxInterval,
00017                           int32u
00018                           reportableChange);
00019 void emAfPluginReportingGetEntry(int8u index, EmberAfPluginReportingEntry *
00020                                   result);
00021 void emAfPluginReportingSetEntry(int8u index, EmberAfPluginReportingEntry *
00022                                   value);
00023 EmberStatus emAfPluginReportingRemoveEntry(int8u index);

```

9.139 scenes-client.h File Reference

Functions

- boolean `emberAfPluginScenesClientParseAddSceneResponse` (const EmberAfClusterCommand *cmd, int8u status, int16u groupId, int8u sceneId)
- boolean `emberAfPluginScenesClientParseViewSceneResponse` (const EmberAfClusterCommand *cmd, int8u status, int16u groupId, int8u sceneId, int16u transitionTime, const int8u *sceneName, const int8u *extensionFieldSets)

9.139.1 Function Documentation

- 9.139.1.1 **boolean emberAfPluginScenesClientParseAddSceneResponse (const EmberAfClusterCommand * cmd, int8u status, int16u groupId, int8u sceneId)**
- 9.139.1.2 **boolean emberAfPluginScenesClientParseViewSceneResponse (const EmberAfClusterCommand * cmd, int8u status, int16u groupId, int8u sceneId, int16u transitionTime, const int8u * sceneName, const int8u * extensionFieldSets)**

9.140 scenes-client.h

```

00001 // ****
00002 // * scenes-client.h
00003 // *
00004 // *
00005 // * Copyright 2011 by Ember Corporation. All rights reserved.
00006 // * 80*
00007 // ****
00008 boolean emberAfPluginScenesClientParseAddSceneResponse(const
    EmberAfClusterCommand *cmd,
00009                                     int8u status,
00010                                     int16u groupId,
00011                                     int8u sceneId);
00012
00013 boolean emberAfPluginScenesClientParseViewSceneResponse(const
    EmberAfClusterCommand *cmd,
00014                                     int8u status,
00015                                     int16u groupId,
00016                                     int8u sceneId,
00017                                     int16u transitionTime,
00018                                     const int8u *sceneName,
00019                                     const int8u *
    extensionFieldSets);

```

9.141 scenes.h File Reference

Defines

- #define **emberAfPluginScenesServerRetrieveSceneEntry**(entry, i)
- #define **emberAfPluginScenesServerSaveSceneEntry**(entry, i)
- #define **emberAfPluginScenesServerNumSceneEntriesInUse()**
- #define **emberAfPluginScenesServerSetNumSceneEntriesInUse**(x)
- #define **emberAfPluginScenesServerIncrNumSceneEntriesInUse()**
- #define **emberAfPluginScenesServerDecrNumSceneEntriesInUse()**

Functions

- **EmberAfStatus emberAfScenesSetSceneCountAttribute** (int8u endpoint, int8u newCount)
- **EmberAfStatus emberAfScenesMakeValid** (int8u endpoint, int8u sceneId, int16u groupId)
- **EmberAfStatus emberAfScenesMakeInvalid** (int8u endpoint)
- void **emAfPluginScenesServerPrintInfo** (void)
- boolean **emberAfPluginScenesServerParseAddScene** (const **EmberAfClusterCommand** *cmd, int16u groupId, int8u sceneId, int16u transitionTime, int8u *sceneName, int8u *extensionFieldSets)
- boolean **emberAfPluginScenesServerParseViewScene** (const **EmberAfClusterCommand** *cmd, int16u groupId, int8u sceneId)

Variables

- int8u `emberAfPluginScenesServerEntriesInUse`
- `EmberAfSceneTableEntry` `emberAfPluginScenesServerSceneTable` []

9.141.1 Define Documentation

9.141.1.1 #define emberAfPluginScenesServerRetrieveSceneEntry(*entry*, *i*)

Definition at line 40 of file `scenes.h`.

9.141.1.2 #define emberAfPluginScenesServerSaveSceneEntry(*entry*, *i*)

Definition at line 42 of file `scenes.h`.

9.141.1.3 #define emberAfPluginScenesServerNumSceneEntriesInUse()

Definition at line 44 of file `scenes.h`.

9.141.1.4 #define emberAfPluginScenesServerSetNumSceneEntriesInUse(*x*)

Definition at line 46 of file `scenes.h`.

9.141.1.5 #define emberAfPluginScenesServerIncrNumSceneEntriesInUse()

Definition at line 48 of file `scenes.h`.

9.141.1.6 #define emberAfPluginScenesServerDecrNumSceneEntriesInUse()

Definition at line 50 of file `scenes.h`.

9.141.2 Function Documentation

9.141.2.1 EmberAfStatus emberAfScenesSetSceneCountAttribute (int8u *endpoint*, int8u *newCount*)

9.141.2.2 EmberAfStatus emberAfScenesMakeValid (int8u *endpoint*, int8u *sceneld*, int16u *groupId*)

9.141.2.3 EmberAfStatus emberAfScenesMakeInvalid (int8u *endpoint*)

9.141.2.4 void emAfPluginScenesServerPrintInfo (void)

9.141.2.5 boolean emberAfPluginScenesServerParseAddScene (const EmberAfClusterCommand * *cmd*, int16u *groupId*, int8u *sceneld*, int16u *transitionTime*, int8u * *sceneName*, int8u * *extensionFieldSets*)

9.141.2.6 boolean emberAfPluginScenesServerParseViewScene (const EmberAfClusterCommand * *cmd*, int16u *groupId*, int8u *sceneld*)

9.141.3 Variable Documentation

9.141.3.1 int8u emberAfPluginScenesServerEntriesInUse

9.141.3.2 EmberAfSceneTableEntry emberAfPluginScenesServerSceneTable[]

9.142 scenes.h

```

00001 // ****
00002 // * scenes.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 EmberAfStatus emberAfScenesSetSceneCountAttribute(int8u endpoint,
00009                                int8u newCount);
00010 EmberAfStatus emberAfScenesMakeValid(int8u endpoint,
00011                                int8u sceneId,
00012                                int16u groupId);
00013 EmberAfStatus emberAfScenesMakeInvalid(int8u endpoint);
00014 void emAfPluginScenesServerPrintInfo(void);
00015
00016 extern int8u emberAfPluginScenesServerEntriesInUse;
00017 #if defined(EMBER_AF_PLUGIN_SCENES_USE_TOKENS) && !defined(EZSP_HOST)
00018 // In this case, we use token storage
00019 #define emberAfPluginScenesServerRetrieveSceneEntry(entry, i) \
00020     halCommonGetIndexedToken(&entry, TOKEN_SCENES_TABLE, i)
00021 #define emberAfPluginScenesServerSaveSceneEntry(entry, i) \
00022     halCommonSetIndexedToken(TOKEN_SCENES_TABLE, i, &entry)
00023 #define emberAfPluginScenesServerNumSceneEntriesInUse() \
00024     (halCommonGetToken(&emberAfPluginScenesServerEntriesInUse,
00025         TOKEN_SCENES_NUM_ENTRIES), \
00026     emberAfPluginScenesServerEntriesInUse)
00027 #define emberAfPluginScenesServerSetNumSceneEntriesInUse(x) \
00028     (emberAfPluginScenesServerEntriesInUse = x, \
00029     halCommonSetToken(TOKEN_SCENES_NUM_ENTRIES,
00030         &emberAfPluginScenesServerEntriesInUse))
00031 #define emberAfPluginScenesServerIncrNumSceneEntriesInUse() \
00032     (halCommonGetToken(&emberAfPluginScenesServerEntriesInUse,
00033         TOKEN_SCENES_NUM_ENTRIES), \
00034     ++emberAfPluginScenesServerEntriesInUse, \
00035     halCommonSetToken(TOKEN_SCENES_NUM_ENTRIES,
00036         &emberAfPluginScenesServerEntriesInUse))
00037 #else
00038 // Use normal RAM storage
00039 extern EmberAfSceneTableEntry emberAfPluginScenesServerSceneTable[];
00040 #define emberAfPluginScenesServerRetrieveSceneEntry(entry, i) \
00041     (entry = emberAfPluginScenesServerSceneTable[i])
00042 #define emberAfPluginScenesServerSaveSceneEntry(entry, i) \
00043     (emberAfPluginScenesServerSceneTable[i] = entry)
00044 #define emberAfPluginScenesServerNumSceneEntriesInUse() \
00045     (emberAfPluginScenesServerEntriesInUse)
00046 #define emberAfPluginScenesServerSetNumSceneEntriesInUse(x) \
00047     (emberAfPluginScenesServerEntriesInUse = x)
00048 #define emberAfPluginScenesServerIncrNumSceneEntriesInUse() \
00049     (++emberAfPluginScenesServerEntriesInUse)
00050 #define emberAfPluginScenesServerDecrNumSceneEntriesInUse() \
00051     (--emberAfPluginScenesServerEntriesInUse)
00052 #endif // Use tokens
00053
00054 boolean emberAfPluginScenesServerParseAddScene(const EmberAfClusterCommand *cmd
00055 ,
00056                                int16u groupId,
00057                                int8u sceneId,
00058                                int16u transitionTime,
00059                                int8u *sceneName,
00059                                int8u *extensionFieldSets);

```

```

00060 boolean emberAfPluginScenesServerParseViewScene(const EmberAfClusterCommand *
00061     cmd,
00062             int16u groupId,
00062             int8u sceneId);

```

9.143 simple-metering-client-callback.h File Reference

Functions

- int16u `emberAfPluginSimpleMeteringClientRequestMirrorCallback` (EmberEUI64 requestingDevice-IeeeAddress)
- int16u `emberAfPluginSimpleMeteringClientRemoveMirrorCallback` (EmberEUI64 requestingDevice-IeeeAddress)

9.144 simple-metering-client-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00024 int16u emberAfPluginSimpleMeteringClientRequestMirrorCallback(EmberEUI64
    requestingDeviceIeeeAddress);
00025
00035 int16u emberAfPluginSimpleMeteringClientRemoveMirrorCallback(EmberEUI64
    requestingDeviceIeeeAddress);
00036
00037
00038

```

9.145 simple-metering-test.h File Reference

Defines

- #define `PROFILE_INTERVAL_PERIOD_TIMEFRAME`
- #define `PROFILE_INTERVAL_PERIOD_IN_MINUTES`
- #define `PROFILE_INTERVAL_PERIOD_IN_SECONDS`
- #define `PROFILE_INTERVAL_PERIOD_IN_MILLISECONDS`
- #define `MAX_PROFILE_INDEX`
- #define `TOTAL_PROFILE_TIME_SPAN_IN_SECONDS`

Functions

- void `emAfTestMeterTick` (int8u endpoint)
- void `emAfTestMeterInit` (int8u endpoint)
- void `afTestMeterPrint` (void)
- void `afTestMeterSetConsumptionRate` (int16u rate)
- void `afTestMeterSetConsumptionVariance` (int16u variance)
- void `afTestMeterAdjust` (int8u endpoint)
- void `afTestMeterMode` (int8u endpoint, int8u electric)
- void `afTestMetersetError` (int8u endpoint, int8u error)
- void `afTestMeterRandomError` (int8u changeIn256)

- void `afTestMeterEnableProfiles` (int8u enable)
- boolean `emAfTestMeterGetProfiles` (int8u intervalChannel, int32u endTime, int8u numberOfPeriods)

9.145.1 Define Documentation

9.145.1.1 `#define PROFILE_INTERVAL_PERIOD_TIMEFRAME`

Definition at line 13 of file [simple-metering-test.h](#).

9.145.1.2 `#define PROFILE_INTERVAL_PERIOD_IN_MINUTES`

Definition at line 14 of file [simple-metering-test.h](#).

9.145.1.3 `#define PROFILE_INTERVAL_PERIOD_IN_SECONDS`

Definition at line 15 of file [simple-metering-test.h](#).

9.145.1.4 `#define PROFILE_INTERVAL_PERIOD_IN_MILLISECONDS`

Definition at line 16 of file [simple-metering-test.h](#).

9.145.1.5 `#define MAX_PROFILE_INDEX`

Definition at line 17 of file [simple-metering-test.h](#).

9.145.1.6 `#define TOTAL_PROFILE_TIME_SPAN_IN_SECONDS`

Definition at line 18 of file [simple-metering-test.h](#).

9.145.2 Function Documentation

9.145.2.1 `void emAfTestMeterTick (int8u endpoint)`

9.145.2.2 `void emAfTestMeterInit (int8u endpoint)`

9.145.2.3 `void afTestMeterPrint (void)`

9.145.2.4 `void afTestMeterSetConsumptionRate (int16u rate)`

9.145.2.5 `void afTestMeterSetConsumptionVariance (int16u variance)`

9.145.2.6 `void afTestMeterAdjust (int8u endpoint)`

9.145.2.7 `void afTestMeterMode (int8u endpoint, int8u electric)`

9.145.2.8 `void afTestMeterSetError (int8u endpoint, int8u error)`

9.145.2.9 void afTestMeterRandomError (int8u *changeIn256*)

9.145.2.10 void afTestMeterEnableProfiles (int8u *enable*)

9.145.2.11 boolean emAfTestMeterGetProfiles (int8u *intervalChannel*, int32u *endTime*, int8u *numberOfPeriods*)

9.146 simple-metering-test.h

```

00001 // ****
00002 // * simple-metering-test.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // * 80*
00007 // ****
00008 void emAfTestMeterTick(int8u endpoint);
00009 void emAfTestMeterInit(int8u endpoint);
00010
00011 // The Test meter's profile interval period timeframe enum value
00012 // is 3 which according to the SE spec is 15 minutes
00013 #define PROFILE_INTERVAL_PERIOD_TIMEFRAME 3
00014 #define PROFILE_INTERVAL_PERIOD_IN_MINUTES 15
00015 #define PROFILE_INTERVAL_PERIOD_IN_SECONDS (PROFILE_INTERVAL_PERIOD_IN_MINUTES
00016 * 60)
00016 #define PROFILE_INTERVAL_PERIOD_IN_MILLISECONDS
00017 // ((PROFILE_INTERVAL_PERIOD_IN_MINUTES * 60) * 1000)
00017 #define MAX_PROFILE_INDEX
00018 // (EMBER_AF_PLUGIN_SIMPLE_METERING_SERVER_TEST_METER_PROFILES - 1)
00018 #define TOTAL_PROFILE_TIME_SPAN_IN_SECONDS
00019 // (EMBER_AF_PLUGIN_SIMPLE_METERING_SERVER_TEST_METER_PROFILES * (PROFILE_INTERVAL_PERIOD_IN_MINUTES * 60))
00019
00020 void afTestMeterPrint(void);
00021 void afTestMeterSetConsumptionRate(int16u rate);
00022 void afTestMeterSetConsumptionVariance(int16u variance);
00023 void afTestMeterAdjust(int8u endpoint);
00024
00025 // 0 off, 1 if electric, 2 if gas
00026 void afTestMeterMode(int8u endpoint, int8u electric);
00027
00028 void afTestMetersetError(int8u endpoint, int8u error);
00029 // Sets the random error occurrence:
00030 //   data = 0: disable
00031 //   otherwise:
00032 void afTestMeterRandomError(int8u changeIn256);
00033
00034 void afTestMeterEnableProfiles(int8u enable);
00035
00036 boolean emAfTestMeterGetProfiles(int8u intervalChannel,
00037                                     int32u endTime,
00038                                     int8u numberOfPeriods);
00039
00040

```

9.147 smart-energy-registration.h File Reference

Defines

- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ERROR_LIMIT
- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_INITIAL
- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_RETRY
- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_BRIEF
- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_RESUME
- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_TRANSITION
- #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_NONE

Functions

- int8u `emAfPluginSmartEnergyRegistrationTrustCenterKeyEstablishmentEndpoint` (void)
- void `emAfPluginSmartEnergyRegistrationTick` (void)

Variables

- EmberEventControl `emAfPluginSmartEnergyRegistrationEventControl`

9.147.1 Define Documentation

9.147.1.1 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ERROR_LIMIT`

Definition at line 8 of file [smart-energy-registration.h](#).

9.147.1.2 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_INITIAL`

Definition at line 11 of file [smart-energy-registration.h](#).

9.147.1.3 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_RETRY`

Definition at line 12 of file [smart-energy-registration.h](#).

9.147.1.4 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_BRIEF`

Definition at line 13 of file [smart-energy-registration.h](#).

9.147.1.5 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_RESUME`

Definition at line 14 of file [smart-energy-registration.h](#).

9.147.1.6 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_TRANSITION`

Definition at line 15 of file [smart-energy-registration.h](#).

9.147.1.7 `#define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_NONE`

Definition at line 16 of file [smart-energy-registration.h](#).

9.147.2 Function Documentation

9.147.2.1 int8u emAfPluginSmartEnergyRegistrationTrustCenterKeyEstablishmentEndpoint (void)

9.147.2.2 void emAfPluginSmartEnergyRegistrationTick (void)

9.147.3 Variable Documentation

9.147.3.1 EmberEventControl emAfPluginSmartEnergyRegistrationEventControl

9.148 smart-energy-registration.h

```

00001 // ****
00002 // * smart-energy-registration.c
00003 // *
00004 // * Copyright 2010 by Ember Corporation. All rights reserved.
00005 // *80*
00006 ****
00007 #ifndef EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ERROR_LIMIT
00008 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ERROR_LIMIT 3
00009 #endif //EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ERROR_LIMIT
00010
00011 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_INITIAL
00012     (MILLISECOND_TICKS_PER_SECOND << 2)
00013 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_RETRY
00014     (MILLISECOND_TICKS_PER_SECOND << 5)
00015 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_BRIEF
00016     (MILLISECOND_TICKS_PER_SECOND << 3)
00017 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_RESUME
00018     (MILLISECOND_TICKS_PER_SECOND >> 1)
00019 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_TRANSITION
00020     (MILLISECOND_TICKS_PER_SECOND >> 2)
00021 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_NONE 0
00022
00023 // ESI discovery and binding is only required if the device implements certain
00024 // Smart Energy clusters. If it doesn't implement these clusters (e.g., it is
00025 // an ESI), the ESI discovery and binding process can be skipped altogether.
00026 If
00027 // discovery is required, it shall be repeated on a period of no more than once
00028 // every three hours and no less than once every 24 hours, according to section
00029 // 5.4.9.2 of 105638r09.
00030 #if defined(EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION) \
00031     && (defined(ZCL_USING_DEMAND_RESPONSE_LOAD_CONTROL_CLUSTER_CLIENT) \
00032         || defined(ZCL_USING_MESSAGING_CLUSTER_CLIENT)) \
00033         || defined(ZCL_USING_PRICE_CLUSTER_CLIENT))
00034 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_DISCOVERY_REQUIRED
00035
00036 // The plugin option for the discovery period is specified in hours and is
00037 // converted here to milliseconds. If rediscovery is not enabled, the delay
00038 // is not defined, and the plugin won't schedule an event to rediscover ESIs.
00039 #ifdef EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_REDISCOVERY
00040     #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_DELAY_PERIOD \
00041         (EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_DISCOVERY_PERIOD * \
00042          MILLISECOND_TICKS_PER_HOUR)
00043
00044 #define EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_NON_SLEEPY_INVALIDATED_SERVER_DELAY_PERIOD \
00045     (15 * MILLISECOND_TICKS_PER_MINUTE)
00046
00047 void emAfPluginSmartEnergyRegistrationReadAttributesResponseCallback(int8u *
00048 buffer,
00049     int16u
00050     buflen);
00051 #endif
00052
00053
00054 int8u emAfPluginSmartEnergyRegistrationTrustCenterKeyEstablishmentEndpoint(void
00055 );
00056

```

```

00046 extern EmberEventControl emAfPluginSmartEnergyRegistrationEventControl;
00047 void emAfPluginSmartEnergyRegistrationTick(void);
00048
00049 #ifdef EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_DISCOVERY_REQUIRED
00050 #ifdef EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_REDISCOVERY
00051 extern int32u emAfPluginSmartEnergyRegistrationDiscoveryPeriod;
00052 #endif //EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_REDISCOVERY
00053 #endif //EMBER_AF_PLUGIN_SMART_ENERGY_REGISTRATION_ESI_DISCOVERY_REQUIRED
00054

```

9.149 stack-handlers.h File Reference

Defines

- `#define EMBER_APPLICATION_HAS_POLL_COMPLETE_HANDLER`

9.149.1 Define Documentation

9.149.1.1 `#define EMBER_APPLICATION_HAS_POLL_COMPLETE_HANDLER`

Definition at line 29 of file [stack-handlers.h](#).

9.150 stack-handlers.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00007 // Enclosing macro to prevent multiple inclusion
00008 #ifndef __EMBER_AF_STACK_HANDLERS__
00009 #define __EMBER_AF_STACK_HANDLERS__
00010
00011
00012 // Macros required for implemented stack handlers.
00013
00014
00015 #ifdef EZSP_HOST
00016 // This is called by the EZSP when a data poll to the parent is complete. See
// EZSP documentation for more information.
00017 //
00018 // Application framework itself defines this callback and calls function
// emberAfEzspPollCompleteHandler(). If you wish to
00019 // add functionality to this handler, while still maintaining app framework
// functionality, then implement it yourself and make
00020 // sure you call emberAfEzspPollCompleteHandler() function within your
// implementation of ezspPollCompleteHandler().
00021 #define EZSP_APPLICATION_HAS_POLL_COMPLETE_HANDLER
00022
00023 #else // ! EZSP_HOST
00024 // This is called by the stack when a data poll to the parent is complete. See
// stack documentation for more information.
00025 //
00026 // Application framework itself defines this callback and calls function
// emberAfPollCompleteHandler(). If you wish to
00027 // add functionality to this handler, while still maintaining app framework
// functionality, then implement it yourself and make
00028 // sure you call emberAfPollCompleteHandler() function within your
// implementation of emberPollCompleteHandler().
00029 #define EMBER_APPLICATION_HAS_POLL_COMPLETE_HANDLER
00030
00031 #endif // EZSP_HOST
00032 #endif // __EMBER_AF_STACK_HANDLERS__

```

9.151 temperature-measurement.h File Reference

9.152 temperature-measurement.h

```

00001 // ****
00002 // * temperature-measurement.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // *80*
00007 // ****

```

9.153 test-harness-cli.h File Reference

Defines

- #define TEST_HARNESS_CLI_COMMANDS

9.153.1 Define Documentation

9.153.1.1 #define TEST_HARNESS_CLI_COMMANDS

Definition at line 8 of file [test-harness-cli.h](#).

9.154 test-harness-cli.h

```

00001
00002 #if defined(EMBER_AF_PLUGIN_TEST_HARNESS)
00003     extern EmberCommandEntry emAfTestHarnessCommands[];
00004
00005     #define TEST_HARNESS_CLI_COMMANDS \
00006         { "test-harness", NULL, (PGM_P)emAfTestHarnessCommands },
00007 #else
00008     #define TEST_HARNESS_CLI_COMMANDS
00009 #endif
00010

```

9.155 test-harness.h File Reference

Defines

- #define CBKE_OPERATION_GENERATE_KEYS
- #define CBKE_OPERATION_GENERATE_SECRET
- #define sendSE11PublishPriceCommand
- #define emAfKeyEstablishmentTestHarnessMessageSendCallback(x)
- #define emAfKeyEstablishmentTestHarnessCbkeCallback(x, y, z)
- #define EMBER_KEY_ESTABLISHMENT_TEST_HARNESS_EVENT
- #define emAfTestHarnessAllowRegistration

9.155.1 Define Documentation

9.155.1.1 #define CBKE_OPERATION_GENERATE_KEYS

Definition at line 1 of file [test-harness.h](#).

9.155.1.2 #define CBKE_OPERATION_GENERATE_SECRET

Definition at line 2 of file [test-harness.h](#).

9.155.1.3 #define sendSE11PublishPriceCommand

Definition at line 39 of file [test-harness.h](#).

9.155.1.4 #define emAfKeyEstablishmentTestHarnessMessageSendCallback(x)

Definition at line 41 of file [test-harness.h](#).

9.155.1.5 #define emAfKeyEstablishmentTestHarnessCbkeCallback(x, y, z)

Definition at line 42 of file [test-harness.h](#).

9.155.1.6 #define EMBER_KEY_ESTABLISHMENT_TEST_HARNESS_EVENT

Definition at line 44 of file [test-harness.h](#).

9.155.1.7 #define emAfTestHarnessAllowRegistration

Definition at line 46 of file [test-harness.h](#).

9.156 test-harness.h

```

00001 #define CBKE_OPERATION_GENERATE_KEYS    0
00002 #define CBKE_OPERATION_GENERATE_SECRET 1
00003
00004 #if defined(EMBER_AF_PLUGIN_TEST_HARNESS)
00005     extern EmberEventControl emAfKeyEstablishmentTestHarnessEventControl;
00006
00007     extern int16u emAfKeyEstablishmentTestHarnessGenerateKeyTime;
00008     extern int16u emAfKeyEstablishmentTestHarnessConfirmKeyTime;
00009
00010    extern int16u emAfKeyEstablishmentTestHarnessAdvertisedGenerateKeyTime;
00011
00012    extern boolean emAfTestHarnessAllowRegistration;
00013
00014 // Allows test harness to change the message or suppress it.
00015 // Returns TRUE if the message should be sent, false if not.
00016    boolean emAfKeyEstablishmentTestHarnessMessageSendCallback(int8u message);
00017
00018    boolean emAfKeyEstablishmentTestHarnessCbkeCallback(int8u cbkeOperation,
00019                                         int8u* data1,
00020                                         int8u* data2);
00021    void emAfKeyEstablishmentTestHarnessEventHandler(void);
00022
00023 #define EMBER_KEY_ESTABLISHMENT_TEST_HARNESS_EVENT \
00024     { &emAfKeyEstablishmentTestHarnessEventControl,

```

```

00025     emAfKeyEstablishmentTestHarnessEventHandler },
00026     #define EMBER_AF_CUSTOM_KE_EPHEMERAL_DATA_GENERATE_TIME_SECONDS \
00027         emAfKeyEstablishmentTestHarnessGenerateKeyTime
00028     #define EMBER_AF_CUSTOM_KE_GENERATE_SHARED_SECRET_TIME_SECONDS \
00029         emAfKeyEstablishmentTestHarnessConfirmKeyTime
00030     #define EM_AF_ADVERTISED_EPHEMERAL_DATA_GEN_TIME_SECONDS \
00031         emAfKeyEstablishmentTestHarnessAdvertisedGenerateKeyTime
00032
00033     extern boolean emKeyEstablishmentPolicyAllowNewKeyEntries;
00034     extern boolean emAfTestHarnessSupportForNewPriceFields;
00035
00036     #define sendSE11PublishPriceCommand emAfTestHarnessSupportForNewPriceFields
00037
00038 #else
00039     #define sendSE11PublishPriceCommand TRUE
00040
00041     #define emAfKeyEstablishmentTestHarnessMessageSendCallback(x)      (TRUE)
00042     #define emAfKeyEstablishmentTestHarnessCbkeCallback(x, y, z) (FALSE)
00043
00044     #define EMBER_KEY_ESTABLISHMENT_TEST_HARNESS_EVENT
00045
00046     #define emAfTestHarnessAllowRegistration (1)
00047 #endif

```

9.157 thermostat.h File Reference

Functions

- EmberAfStatus emAfSetLocalTemperature (int8u endpoint, int16s localTemperature)

9.157.1 Function Documentation

9.157.1.1 EmberAfStatus emAfSetLocalTemperature (int8u *endpoint*, int16s *localTemperature*)

9.158 thermostat.h

```

00001 // ****
00002 // * thermostat.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // *
00007
00008 EmberAfStatus emAfSetLocalTemperature(int8u endpoint, int16s localTemperature);

```

9.159 time-client.h File Reference

Functions

- int32u emAfTimeClusterClientGetCurrentTime (void)
- void emAfTimeClusterClientSetCurrentTime (int32u utcTime)

9.159.1 Function Documentation

9.159.1.1 int32u emAfTimeClusterClientGetCurrentTime (void)

9.159.1.2 void emAfTimeClusterClientSetCurrentTime (int32u *utcTime*)

9.160 time-client.h

```
00001 // ****
00002 // * time-client.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 int32u emAfTimeClusterClientGetCurrentTime(void);
00009 void emAfTimeClusterClientSetCurrentTime(int32u utcTime);
```

9.161 time-server.h File Reference

Functions

- int32u [emAfTimeClusterServerGetCurrentTime](#) (void)
 - void [emAfTimeClusterServerSetCurrentTime](#) (int32u utcTime)

9.161.1 Function Documentation

9.161.1.1 int32u emAfTimeClusterServerGetCurrentTime(void)

9.161.1.2 void emAfTimeClusterServerSetCurrentTime (int32u *utcTime*)

9.162 time-server.h

```
00001 // ****
00002 // * time-server.h
00003 // *
00004 // *
00005 // * Copyright 2007 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 int32u emAfTimeClusterServerGetCurrentTime(void);
00009 void emAfTimeClusterServerSetCurrentTime(int32u utcTime);
```

9.163 trust-center-backup.h File Reference

Functions

- EmberStatus `emberTrustCenterExportBackupData` (`EmberAfTrustCenterBackupData` *`backup`)
 - EmberStatus `emberTrustCenterImportBackupAndStartNetwork` (`const EmberAfTrustCenterBackupData` *`backup`)
 - void `emAfTcExportCommand` (void)
 - void `emAfTcImportCommand` (void)
 - EmberStatus `emberAfTrustCenterImportBackupFromFile` (`const char` *`filepath`)
 - EmberStatus `emberAfTrustCenterExportBackupToFile` (`const char` *`filepath`)

9.163.1 Function Documentation

- 9.163.1.1 **EmberStatus emberTrustCenterExportBackupData (EmberAfTrustCenterBackupData * *backup*)**
- 9.163.1.2 **EmberStatus emberTrustCenterImportBackupAndStartNetwork (const EmberAfTrustCenterBackupData * *backup*)**
- 9.163.1.3 **void emAfTcExportCommand (void)**
- 9.163.1.4 **void emAfTcImportCommand (void)**
- 9.163.1.5 **EmberStatus emberAfTrustCenterImportBackupFromFile (const char * *filepath*)**
- 9.163.1.6 **EmberStatus emberAfTrustCenterExportBackupToFile (const char * *filepath*)**

9.164 trust-center-backup.h

```

00001 // ****
00002 // * trust-center-backup.h
00003 // *
00004 // * Header for backing up and restoring a trust center.
00005 // *
00006 // * Copyright 2011 by Ember Corporation. All rights reserved.
00007 // *80*
00008 // ****
00009 EmberStatus emberTrustCenterExportBackupData(EmberAfTrustCenterBackupData*
00010     backup);
00011 EmberStatus emberTrustCenterImportBackupAndStartNetwork(const
00012     EmberAfTrustCenterBackupData* backup);
00013 // Available only for
00014 // EMBER_AF_PLUGIN_TRUST_CENTER_BACKUP_POSIX_FILE_BACKUP_SUPPORT
00015 void emAfTcExportCommand(void);
00016 void emAfTcImportCommand(void);
00017 EmberStatus emberAfTrustCenterImportBackupFromFile(const char* filepath);
00018 EmberStatus emberAfTrustCenterExportBackupToFile(const char* filepath);

```

9.165 trust-center-keepalive.h File Reference

Defines

- #define **EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_DELAY_INTERVAL**
- #define **EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_FAILURE_LIMIT**

Functions

- void **emAfPluginTrustCenterKeepaliveReadAttributesResponseCallback** (int8u *buffer, int16u bufLen)
- void **emAfSendKeepaliveSignal** (void)

9.165.1 Define Documentation

9.165.1.1 #define EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_DELAY_INTERVAL

Definition at line 11 of file [trust-center-keepalive.h](#).

9.165.1.2 #define EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_FAILURE_LIMIT

Definition at line 17 of file [trust-center-keepalive.h](#).

9.165.2 Function Documentation

**9.165.2.1 void emAfPluginTrustCenterKeepaliveReadAttributesResponseCallback (int8u * buffer,
int16u bufLen)**

9.165.2.2 void emAfSendKeepaliveSignal (void)

9.166 trust-center-keepalive.h

```

00001 //
00002 // ****
00003 // *
00004 // * Copyright 2010 by Ember Corporation. All rights reserved.
00005 // *80*
00006 // ****
00007 // The duration in milliseconds to wait between two successive keepalives. The
00008 // period shall be between five and 20 minutes, according to section
00009 // 5.4.2.2.3.4
00010 // of 105638r09. The plugin option, specified in minutes, is converted here to
00011 // milliseconds.
00012 #define EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_DELAY_INTERVAL \
00013     (EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_INTERVAL *
00014         MILLISECOND_TICKS_PER_MINUTE)
00015 // The number of unacknowledged keepalives permitted before declaring that the
00016 // trust center is inaccessible and initiating a search for it. Section
00017 // 5.4.2.2.3.4 of 105638r09 specifies that this value shall be three.
00018 #define EMBER_AF_PLUGIN_TRUST_CENTER_KEEPALIVE_FAILURE_LIMIT 3
00019 void emAfPluginTrustCenterKeepaliveReadAttributesResponseCallback(int8u *buffer
00020 ,
00021             int16u bufLen
00022 );
00023 void emAfSendKeepaliveSignal(void);

```

9.167 trust-center-nwk-key-update-broadcast.h File Reference

Defines

- #define [TC_KEY_UPDATE_BROADCAST_EVENT](#)
- #define [EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION](#)

Functions

- void [emberAfPluginTrustCenterNwkKeyUpdateBroadcastMyEventHandler](#) (void)
- EmberStatus [emberAfTrustCenterStartNetworkKeyUpdate](#) (void)

Variables

- EmberEventControl [emberAfPluginTrustCenterNwkKeyUpdateBroadcastMyEventControl](#)

9.167.1 Define Documentation

9.167.1.1 #define TC_KEY_UPDATE_BROADCAST_EVENT

Definition at line 6 of file [trust-center-nwk-key-update-broadcast.h](#).

9.167.1.2 #define EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION

Definition at line 23 of file [trust-center-nwk-key-update-broadcast.h](#).

9.167.2 Function Documentation

9.167.2.1 void [emberAfPluginTrustCenterNwkKeyUpdateBroadcastMyEventHandler](#)(void)

9.167.2.2 EmberStatus [emberAfTrustCenterStartNetworkKeyUpdate](#)(void)

9.167.3 Variable Documentation

9.167.3.1 EmberEventControl [emberAfPluginTrustCenterNwkKeyUpdateBroadcastMyEventControl](#)

9.168 trust-center-nwk-key-update-broadcast.h

```

00001
00002
00003 extern EmberEventControl
00004     emberAfPluginTrustCenterNwkKeyUpdateBroadcastMyEventControl;
00005 void emberAfPluginTrustCenterNwkKeyUpdateBroadcastMyEventHandler(void);
00006 #define TC_KEY_UPDATE_BROADCAST_EVENT \
00007     { &emAfTcKeyUpdateBroadcastEvent, emAfTcKeyUpdateBroadcastEventHandler },
00008
00009
00010 #if defined(EMBER_AF_PLUGIN_TEST_HARNESS) || defined(EMBER_SCRIPTED_TEST)
00011 // For testing, we need to support a single application that can do
00012 // unicast AND broadcast key updates. This function is actually
00013 // emberAfTrustCenterStartNetworkKeyUpdate() but is renamed.
00014 EmberStatus emberAfTrustCenterStartBroadcastNetworkKeyUpdate(void);
00015 #endif
00016
00017 // Because both the unicast and broadcast plugins for Trust Center NWK Key
00018 // update
00019 // define this function, we must protect it to eliminate the redundant
00020 // function declaration. Unicast and broadcast headers may be included
00021 // together
00022 // since the code then doesn't need to determine which plugin (unicast or
00023 // broadcast) is being used and thus which header it should include.
00024 #if !defined(EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION)
00025     #define EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION
00026     EmberStatus emberAfTrustCenterStartNetworkKeyUpdate(void);
00027 #endif

```

9.169 trust-center-nwk-key-update-periodic.h File Reference

9.170 trust-center-nwk-key-update-periodic.h

```
00001
00002
```

9.171 trust-center-nwk-key-update-unicast.h File Reference

Defines

- #define `TC_KEY_UPDATE_EVENT`
- #define `EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION`

Functions

- void `emberAfPluginTrustCenterNwkKeyUpdateUnicastMyEventHandler` (void)
- EmberStatus `emberAfTrustCenterStartNetworkKeyUpdate` (void)

Variables

- EmberEventControl `emberAfPluginTrustCenterNwkKeyUpdateUnicastMyEventControl`

9.171.1 Define Documentation

9.171.1.1 #define TC_KEY_UPDATE_EVENT

Definition at line 6 of file [trust-center-nwk-key-update-unicast.h](#).

9.171.1.2 #define EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION

Definition at line 27 of file [trust-center-nwk-key-update-unicast.h](#).

9.171.2 Function Documentation

9.171.2.1 void `emberAfPluginTrustCenterNwkKeyUpdateUnicastMyEventHandler` (void)

9.171.2.2 EmberStatus `emberAfTrustCenterStartNetworkKeyUpdate` (void)

9.171.3 Variable Documentation

9.171.3.1 EmberEventControl `emberAfPluginTrustCenterNwkKeyUpdateUnicastMyEventControl`

9.172 trust-center-nwk-key-update-unicast.h

```
00001
00002
00003 extern EmberEventControl
00004     emberAfPluginTrustCenterNwkKeyUpdateUnicastMyEventControl;
00005 void emberAfPluginTrustCenterNwkKeyUpdateUnicastMyEventHandler(void);
```

```

00006 #define TC_KEY_UPDATE_EVENT \
00007     { &emAfTcKeyUpdateUnicastEvent, emAfTcKeyUpdateUnicastEventHandler },
00008
00009
00010 #if defined EMBER_TEST
00011     void zdoDiscoveryCallback(const EmberAfServiceDiscoveryResult* result);
00012 #endif
00013
00014 #if defined(EMBER_AF_PLUGIN_TEST_HARNESS) || defined(EMBER_SCRIPTED_TEST)
00015     // For testing, we need to support a single application that can do
00016     // unicast AND broadcast key updates. This function is actually
00017     // emberAfTrustCenterStartNetworkKeyUpdate() but is renamed.
00018     EmberStatus emberAfTrustCenterStartUnicastNetworkKeyUpdate(void);
00019 #endif
00020
00021 // Because both the unicast and broadcast plugins for Trust Center NWK Key
00022     update
00023 // define this function, we must protect it to eliminate the redundant
00024 // function declaration. Unicast and broadcast headers may be included
00025 // together
00026 // since the code then doesn't need to determine which plugin (unicast or
00027 // broadcast) is being used and thus which header it should include.
00028 #if !defined(EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION)
00029     #define EM_AF_TC_START_NETWORK_KEY_UPDATE_DECLARATION
00030     EmberStatus emberAfTrustCenterStartNetworkKeyUpdate(void);
00031 #endif

```

9.173 tunneling-client-callback.h File Reference

Functions

- void [emberAfPluginTunnelingClientTunnelOpenedCallback](#) (int8u tunnelIndex, EmberAfPluginTunnelingClientStatus tunnelStatus, int16u maximumIncomingTransferSize)
- void [emberAfPluginTunnelingClientDataReceivedCallback](#) (int8u tunnelIndex, int8u *data, int16u dataLen)
- void [emberAfPluginTunnelingClientDataErrorCallback](#) (int8u tunnelIndex, [EmberAfTunnelingTransferDataStatus](#) transferDataStatus)
- void [emberAfPluginTunnelingClientTunnelClosedCallback](#) (int8u tunnelIndex)

9.174 tunneling-client-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00026 void emberAfPluginTunnelingClientTunnelOpenedCallback(int8u tunnelIndex,
00027     EmberAfPluginTunnelingClientStatus tunnelStatus,
00028     int16u
00029     maximumIncomingTransferSize);
00040 void emberAfPluginTunnelingClientDataReceivedCallback(int8u tunnelIndex,
00041     int8u * data,
00042     int16u dataLen);
00043
00055 void emberAfPluginTunnelingClientDataErrorCallback(int8u tunnelIndex,
00056     EmberAfTunnelingTransferDataStatus transferDataStatus);
00057
00068 void emberAfPluginTunnelingClientTunnelClosedCallback(int8u tunnelIndex);
00069
00070
00071

```

9.175 tunneling-client.h File Reference

Defines

- #define EMBER_AF_PLUGIN_TUNNELING_CLIENT_NULL_INDEX

Functions

- EmberAfPluginTunnelingClientStatus [emberAfPluginTunnelingClientRequestTunnel](#) (EmberNode-Id server, int8u clientEndpoint, int8u serverEndpoint, int8u protocolId, int16u manufacturerCode, boolean flowControlSupport)
- [EmberAfStatus emberAfPluginTunnelingClientTransferData](#) (int8u tunnelIndex, int8u *data, int16u dataLen)
- [EmberAfStatus emberAfPluginTunnelingClientCloseTunnel](#) (int8u tunnelIndex)
- void [emAfPluginTunnelingClientPrint](#) (void)

9.175.1 Define Documentation

9.175.1.1 #define EMBER_AF_PLUGIN_TUNNELING_CLIENT_NULL_INDEX

Definition at line 8 of file [tunneling-client.h](#).

9.175.2 Function Documentation

9.175.2.1 EmberAfPluginTunnelingClientStatus [emberAfPluginTunnelingClientRequestTunnel](#) (EmberNodeId *server*, int8u *clientEndpoint*, int8u *serverEndpoint*, int8u *protocolId*, int16u *manufacturerCode*, boolean *flowControlSupport*)

Request a Tunneling cluster tunnel with a server.

This function can be used to request a tunnel with a server. The Tunneling client plugin will look up the long address of the server (using discovery, if necessary), establish a link key with the server, and create an address table entry for the server before sending the request. All future communication using the tunnel will be sent using the address table entry. The plugin will call [emberAfPluginTunnelingClientTunnelOpened-Callback](#) with the status of the request.

Parameters

| | |
|----------------------------|---|
| <i>server</i> | The network address of the server to which the request will be sent. |
| <i>clientEndpoint</i> | The local endpoint from which the request will be sent. |
| <i>serverEndpoint</i> | The remote endpoint to which the request will be sent. |
| <i>protocolId</i> | The protocol id of the requested tunnel. |
| <i>manufacturer-Code</i> | The manufacturer code of the requested tunnel. |
| <i>flowControl-Support</i> | TRUE if flow control support is requested or FALSE if not. Note: flow control is not currently supported by the Tunneling client or server plugins. |

Returns

::EMBER_AF_PLUGIN_TUNNELING_CLIENT_SUCCESS if the request is in process or another ::EmberAfPluginTunnelingClientStatus otherwise.

9.175.2.2 EmberAfStatus emberAfPluginTunnelingClientTransferData (int8u tunnelIndex, int8u * data, int16u dataLen)

Transfer data to a server through a Tunneling cluster tunnel.

This function can be used to transfer data to a server through a tunnel. The Tunneling client plugin will send the data to the endpoint on the node that is managing the given tunnel.

Parameters

| | |
|--------------------|---|
| <i>tunnelIndex</i> | The index of the tunnel through which to send the data. |
| <i>data</i> | Buffer containing the raw octets of the data. |
| <i>dataLen</i> | The length in octets of the data. |

Returns

[EMBER_ZCL_STATUS_SUCCESS](#) if the data was sent, [EMBER_ZCL_STATUS_FAILURE](#) if an error occurred, or [EMBER_ZCL_STATUS_NOT_FOUND](#) if the tunnel does not exist.

9.175.2.3 EmberAfStatus emberAfPluginTunnelingClientCloseTunnel (int8u tunnelIndex)

Close a Tunneling cluster tunnel.

This function can be used to close a tunnel. The Tunneling client plugin will send the close command to the endpoint on the node that is managing the given tunnel.

Parameters

| | |
|--------------------|-----------------------------------|
| <i>tunnelIndex</i> | The index of the tunnel to close. |
|--------------------|-----------------------------------|

Returns

[EMBER_ZCL_STATUS_SUCCESS](#) if the close request was sent, [EMBER_ZCL_STATUS_FAILURE](#) if an error occurred, or [EMBER_ZCL_STATUS_NOT_FOUND](#) if the tunnel does not exist.

9.175.2.4 void emAfPluginTunnelingClientPrint (void)

9.176 tunneling-client.h

```

00001 // ****
00002 // * tunneling-client.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // *80*
00007 // ****
00008 #define EMBER_AF_PLUGIN_TUNNELING_CLIENT_NULL_INDEX 0xFF
00009
00034 EmberAfPluginTunnelingClientStatus emberAfPluginTunnelingClientRequestTunnel(
00035     EmberNodeId server,
00036     int8u clientEndpoint,
00036     int8u serverEndpoint,
00037     int8u protocolId,
```

```

00038     int16u manufacturerCode,
00039     boolean flowControlSupport);
00040
00055 EmberAfStatus emberAfPluginTunnelingClientTransferData(int8u tunnelIndex,
00056                                         int8u *data,
00057                                         int16u dataLen);
00058
00071 EmberAfStatus emberAfPluginTunnelingClientCloseTunnel(int8u tunnelIndex);
00072
00073 void emAfPluginTunnelingClientPrint(void);

```

9.177 tunneling-server-callback.h File Reference

Functions

- boolean `emberAfPluginTunnelingServerIsProtocolSupportedCallback` (int8u protocolId, int16u manufacturerCode)
- void `emberAfPluginTunnelingServerTunnelOpenedCallback` (int16u tunnelId, int8u protocolId, int16u manufacturerCode, boolean flowControlSupport, int16u maximumIncomingTransferSize)
- void `emberAfPluginTunnelingServerDataReceivedCallback` (int16u tunnelId, int8u *data, int16u dataLen)
- void `emberAfPluginTunnelingServerDataErrorCallback` (int16u tunnelId, `EmberAfTunnelingTransferDataStatus` transferDataStatus)
- void `emberAfPluginTunnelingServerTunnelClosedCallback` (int16u tunnelId, boolean clientInitiated)

9.178 tunneling-server-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00026 boolean emberAfPluginTunnelingServerIsProtocolSupportedCallback(int8u
00027                                         protocolId,
00028                                         int16u
00029                                         manufacturerCode);
00028
00045 void emberAfPluginTunnelingServerTunnelOpenedCallback(int16u tunnelId,
00046                                         int8u protocolId,
00047                                         int16u manufacturerCode,
00048                                         boolean
00049                                         flowControlSupport,
00050                                         int16u
00051                                         maximumIncomingTransferSize);
00050
00061 void emberAfPluginTunnelingServerDataReceivedCallback(int16u tunnelId,
00062                                         int8u * data,
00063                                         int16u dataLen);
00064
00076 void emberAfPluginTunnelingServerDataErrorCallback(int16u tunnelId,
00077                                         EmberAfTunnelingTransferDataStatus transferDataStatus);
00078
00091 void emberAfPluginTunnelingServerTunnelClosedCallback(int16u tunnelId,
00092                                         boolean clientInitiated);
00093
00094
00095

```

9.179 tunneling-server.h File Reference

Defines

- #define **ZCL_TUNNELING_CLUSTER_INVALID_TUNNEL_ID**
- #define **ZCL_TUNNELING_CLUSTER_UNUSED_MANUFACTURER_CODE**
- #define **CLOSE_INITIATED_BY_CLIENT**
- #define **CLOSE_INITIATED_BY_SERVER**

Functions

- `EmberAfStatus emberAfPluginTunnelingServerTransferData (int16u tunnelId, int8u *data, int16u dataLen)`
- `void emberAfPluginTunnelingServerToggleBusyCommand (void)`
- `void emAfPluginTunnelingServerPrint (void)`

9.179.1 Define Documentation

9.179.1.1 #define ZCL_TUNNELING_CLUSTER_INVALID_TUNNEL_ID

Definition at line 8 of file [tunneling-server.h](#).

9.179.1.2 #define ZCL_TUNNELING_CLUSTER_UNUSED_MANUFACTURER_CODE

Definition at line 9 of file [tunneling-server.h](#).

9.179.1.3 #define CLOSE_INITIATED_BY_CLIENT

Definition at line 10 of file [tunneling-server.h](#).

9.179.1.4 #define CLOSE_INITIATED_BY_SERVER

Definition at line 11 of file [tunneling-server.h](#).

9.179.2 Function Documentation

9.179.2.1 EmberAfStatus emberAfPluginTunnelingServerTransferData (int16u *tunnelId*, int8u * *data*, int16u *dataLen*)

Transfer data to a client through a Tunneling cluster tunnel.

This function can be used to transfer data to a client through a tunnel. The Tunneling server plugin will send the data to the endpoint on the node that opened the given tunnel.

Parameters

| | |
|-----------------|--|
| <i>tunnelId</i> | The identifier of the tunnel through which to send the data. |
| <i>data</i> | Buffer containing the raw octets of the data. |
| <i>dataLen</i> | The length in octets of the data. |

Returns

`EMBER_ZCL_STATUS_SUCCESS` if the data was sent, `EMBER_ZCL_STATUS_FAILURE` if an error occurred, or `EMBER_ZCL_STATUS_NOT_FOUND` if the tunnel does not exist.

9.179.2.2 void emberAfPluginTunnelingServerToggleBusyCommand (void)

Toggle a "server busy" status for running as a test harness.

This function can be used to set the server in to a busy state, where it will respond to all request tunnel commands with a busy status. NOTE: existing tunnels will continue to operate as normal at this point in time.

9.179.2.3 void emAfPluginTunnelingServerPrint (void)

9.180 tunneling-server.h

```

00001 // ****
00002 // * tunneling-server.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 #define ZCL_TUNNELING_CLUSTER_INVALID_TUNNEL_ID      0xFFFF
00009 #define ZCL_TUNNELING_CLUSTER_UNUSED_MANUFACTURER_CODE 0xFFFF
00010 #define CLOSE_INITIATED_BY_CLIENT TRUE
00011 #define CLOSE_INITIATED_BY_SERVER FALSE
00012
00027 EmberAfStatus emberAfPluginTunnelingServerTransferData(int16u tunnelId,
00028                               int8u *data,
00029                               int16u dataLen);
00030
00038 void emberAfPluginTunnelingServerToggleBusyCommand(void);
00039
00040 void emAfPluginTunnelingServerPrint(void);

```

9.181 zll-commissioning-callback.h File Reference

Functions

- void `emberAfPluginZllCommissioningInitialSecurityStateCallback` (EmberZllInitialSecurityState *securityState)
- void `emberAfPluginZllCommissioningTouchLinkCompleteCallback` (const EmberZllNetwork *networkInfo, int8u deviceInformationRecordCount, const EmberZllDeviceInfoRecord *deviceInformationRecordList)
- void `emberAfPluginZllCommissioningTouchLinkFailedCallback` (EmberAfZllCommissioningStatus status)
- int8u `emberAfPluginZllCommissioningGroupIdentifierCountCallback` (int8u endpoint)
- boolean `emberAfPluginZllCommissioningGroupIdentifierCallback` (int8u endpoint, int8u index, - EmberAfPluginZllCommissioningGroupInformationRecord *record)
- int8u `emberAfPluginZllCommissioningEndpointInformationCountCallback` (int8u endpoint)
- boolean `emberAfPluginZllCommissioningEndpointInformationCallback` (int8u endpoint, int8u index, EmberAfPluginZllCommissioningEndpointInformationRecord *record)
- void `emberAfPluginZllCommissioningIdentifyCallback` (int16u duration)
- void `emberAfPluginZllCommissioningResetToFactoryNewCallback` (void)

9.182 zll-commissioning-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00027 void emberAfPluginZllCommissioningInitialSecurityStateCallback(
    EmberZllInitialSecurityState * securityState);
00028
00041 void emberAfPluginZllCommissioningTouchLinkCompleteCallback(const
    EmberZllNetwork * networkInfo,
00042                                     int8u
    deviceInformationRecordCount,
00043                                     const
    EmberZllDeviceInfoRecord * deviceInformationRecordList);
00044
00052 void emberAfPluginZllCommissioningTouchLinkFailedCallback(
    EmberAfZllCommissioningStatus status);
00053
00064 int8u emberAfPluginZllCommissioningGroupIdentifierCountCallback(int8u endpoint)
00065 ;
00079 boolean emberAfPluginZllCommissioningGroupIdentifierCallback(int8u endpoint,
00080                                     int8u index,
00081     EmberAfPluginZllCommissioningGroupInformationRecord * record);
00082
00092 int8u emberAfPluginZllCommissioningEndpointInformationCountCallback(int8u
00093     endpoint);
00109 boolean emberAfPluginZllCommissioningEndpointInformationCallback(int8u endpoint
00110 ,
00111     int8u index,
00112     EmberAfPluginZllCommissioningEndpointInformationRecord * record);
00112
00125 void emberAfPluginZllCommissioningIdentifyCallback(int16u duration);
00126
00137 void emberAfPluginZllCommissioningResetToFactoryNewCallback(void);
00138
00139
00140

```

9.183 zll-commissioning.h File Reference

Defines

- #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_SCAN_DURATION
- #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_TOUCH_LINK_MILLISECONDS_DELAY
- #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_ADDITIONAL_STATE

Functions

- EmberStatus emberAfZllSetInitialSecurityState (void)
- EmberStatus emberAfZllInitiateTouchLink (void)
- EmberStatus emberAfZllDeviceInformationRequest (void)
- EmberStatus emberAfZllIdentifyRequest (void)
- EmberStatus emberAfZllResetToFactoryNewRequest (void)
- void emberAfZllAbortTouchLink (void)
- boolean emberAfZllTouchLinkInProgress (void)
- void emberAfZllResetToFactoryNew (void)

- EmberStatus [emberAfZllScanForJoinableNetwork](#) (void)
- EmberStatus [emberAfZllScanForUnusedPanId](#) (void)
- EmberStatus [emAfZllFormNetwork](#) (int8u channel, int8s power, EmberPanId panId)

Variables

- int32u [emAfZllPrimaryChannelMask](#)
- int32u [emAfZllSecondaryChannelMask](#)

9.183.1 Define Documentation

9.183.1.1 #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_SCAN_DURATION

Definition at line [150](#) of file [zll-commissioning.h](#).

9.183.1.2 #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_TOUCH_LINK_MILLISEC-ONDS_DELAY

Definition at line [152](#) of file [zll-commissioning.h](#).

9.183.1.3 #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_ADDITIONAL_STATE

Definition at line [158](#) of file [zll-commissioning.h](#).

9.183.2 Function Documentation

9.183.2.1 EmberStatus [emberAfZllSetInitialSecurityState](#) (void)

Generate a random network key and initialize the security state of the device.

This function is a convenience wrapper for ::emberZllSetInitialSecurityState, which must be called before starting or joining a network. The plugin will initialize the security state for the initiator during touch linking. The target must initialize its own security state prior to forming a network either by using this function or by calling ::emberZllSetInitialSecurityState directly.

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.2 EmberStatus [emberAfZllInitiateTouchLink](#) (void)

Initiate the touch link procedure.

This function will cause the stack to broadcast a series of ScanRequest commands via inter-PAN messaging. The plugin will select the target that sent a ScanResponse command with the strongest RSSI and attempt to link with it. If touch linking completes successfully, the plugin will call [emberAfPluginZllCommissioningTouchLinkCompleteCallback](#) with information about the network and the target. If touch linking fails, the plugin will call [emberAfPluginZllCommissioningTouchLinkFailedCallback](#).

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.3 EmberStatus emberAfZllDeviceInformationRequest (void)

Initiates a touch link for the purpose of retrieving information about a target device.

As with a traditional touch link, this function will cause the stack to broadcast messages to discover a target device. When the target is selected (based on RSSI), the plugin will retrieve information about it by unicasting a series of DeviceInformationRequest commands via inter-PAN messaging. If the process completes successfully, the plugin will call [emberAfPluginZllCommissioningTouchLinkCompleteCallback](#) with information about the target. If touch linking fails, the plugin will call [emberAfPluginZllCommissioningTouchLinkFailedCallback](#).

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.4 EmberStatus emberAfZllIdentifyRequest (void)

Initiates a touch link for the purpose of causing a target device to identify itself.

As with a traditional touch link, this function will cause the stack to broadcast messages to discover a target device. When the target is selected (based on RSSI), the plugin will cause it to identify itself by unicasting an IdentifyRequest command via inter-PAN messaging. If the process completes successfully, the plugin will call [emberAfPluginZllCommissioningTouchLinkCompleteCallback](#) with information about the target. If touch linking fails, the plugin will call [emberAfPluginZllCommissioningTouchLinkFailedCallback](#).

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.5 EmberStatus emberAfZllResetToFactoryNewRequest (void)

Initiates a touch link for the purpose of resetting a target device.

As with a traditional touch link, this function will cause the stack to broadcast messages to discover a target device. When the target is selected (based on RSSI), the plugin will reset it by unicasting a ResetToFactoryNewRequest command via inter-PAN messaging. If the process completes successfully, the plugin will call [emberAfPluginZllCommissioningTouchLinkCompleteCallback](#) with information about the target. If touch linking fails, the plugin will call [emberAfPluginZllCommissioningTouchLinkFailedCallback](#).

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.6 void emberAfZllAbortTouchLink (void)

Abort the touch link procedure.

This function can be called to cancel the touch link procedure. This can be useful, for example, if the touch link target is incorrect.

9.183.2.7 boolean emberAfZllTouchLinkInProgress (void)

Indicates if a touch link procedure is currently in progress.

Returns

TRUE if a touch link is in progress or FALSE otherwise.

9.183.2.8 void emberAfZllResetToFactoryNew (void)

Reset the local device to a factory new state.

This function will cause the device to leave the network and clear its network parameters, reset its attributes to their default values, and clear the group and scene tables.

9.183.2.9 EmberStatus emberAfZllScanForJoinableNetwork (void)

Scan for joinable networks.

This function will scan the primary channel set for joinable networks. If a joinable network is found, the plugin will attempt to join to it. If no joinable networks are found or if joining is not successful, the plugin will scan the secondary channel set for joinable networks. If a joinable network is found, the plugin will attempt to join to it. The plugin will only scan the secondary channel set if ::EMBER_AF_PLUGIN_ZLL_COMMISSIONING_SCAN_SECONDARY_CHANNELS is defined. Otherwise, scanning stops after the initial scan of the primary channel set.

Routers and end devices should scan for joinable networks when directed by the application. Scanning for joinable networks enables classical ZigBee commissioning with non-ZLL devices.

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.10 EmberStatus emberAfZllScanForUnusedPanId (void)

Scan for an unused PAN id.

This function will scan the primary channel set for a channel with low average energy and then select a PAN id that is not in use on that channel. The plugin will then form a ZLL network on that channel with the chosen PAN id.

Factory new routers should form a new ZLL network at startup. All routers should form a new ZLL network if classical ZigBee commissioning has failed. End devices should not use this API and should instead form ZLL networks via touch linking.

Returns

An ::EmberStatus value that indicates the success or failure of the command.

9.183.2.11 EmberStatus emAfZllFormNetwork (int8u *channel*, int8s *power*, EmberPanId *panId*)

9.183.3 Variable Documentation

9.183.3.1 int32u emAfZllPrimaryChannelMask

9.183.3.2 int32u emAfZllSecondaryChannelMask

9.184 zll-commissioning.h

```

00001 // ****
00002 // * zll-commissioning.h
00003 // *
00004 // *
00005 // * Copyright 2010 by Ember Corporation. All rights reserved.
00006 // ****
00007
00021 EmberStatus emberAfZllSetInitialSecurityState(void);
00022
00036 EmberStatus emberAfZllInitiateTouchLink(void);
00037
00053 EmberStatus emberAfZllDeviceInformationRequest(void);
00054
00070 EmberStatus emberAfZllIdentifyRequest(void);
00071
00086 EmberStatus emberAfZllResetToFactoryNewRequest(void);
00087
00093 void emberAfZllAbortTouchLink(void);
00094
00099 boolean emberAfZllTouchLinkInProgress(void);
00100
00107 void emberAfZllResetToFactoryNew(void);
00108
00127 EmberStatus emberAfZllScanForJoinableNetwork(void);
00128
00144 EmberStatus emberAfZllScanForUnusedPanId(void);
00145
00146 // The exponent of the number of scan periods, where a scan period is 960
00147 // symbols, and a symbol is 16 microseconds. The scan will occur for
00148 // ((2^duration) + 1) scan periods. The ZLL specification requires routers to
00149 // scan for joinable networks using a duration of 4.
00150 #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_SCAN_DURATION 4
00151
00152 #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_TOUCH_LINK_MILLISECONDS_DELAY \
00153     (EMBER_AF_PLUGIN_ZLL_COMMISSIONING_TOUCH_LINK_SECONDS_DELAY * \
         MILLISECOND_TICKS_PER_SECOND)
00154
00155 #ifdef EMBER_AF_PLUGIN_ZLL_COMMISSIONING_LINK_INITIATOR
00156     #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_ADDITIONAL_STATE \
         EMBER_ZLL_STATE_ADDRESS_ASSIGNMENT_CAPABLE
00157 #else
00158     #define EMBER_AF_PLUGIN_ZLL_COMMISSIONING_ADDITIONAL_STATE \
         EMBER_ZLL_STATE_NONE
00159 #endif
00160
00161 // Internal API for joining.
00162 EmberStatus emAfZllFormNetwork(int8u channel, int8s power, EmberPanId panId);
00163
00164 extern int32u emAfZllPrimaryChannelMask;
00165 extern int32u emAfZllSecondaryChannelMask;

```

9.185 zll-level-control-server.h File Reference

Functions

- EmberAfStatus **emberAfPluginZllLevelControlServerMoveToLevelWithOnOffZllExtensions** (const EmberAfClusterCommand *cmd)
- boolean **emberAfPluginZllLevelControlServerIgnoreMoveToLevelMoveStepStop** (int8u endpoint, int8u commandId)

9.185.1 Function Documentation

- 9.185.1.1 `EmberAfStatus emberAfPluginZllLevelControlServerMoveToLevelWithOnOffZllExtensions (const EmberAfClusterCommand * cmd)`
- 9.185.1.2 `boolean emberAfPluginZllLevelControlServerIgnoreMoveToLevelMoveStepStop (int8u endpoint, int8u commandId)`

9.186 zll-level-control-server.h

```

00001 // ****
00002 // * zll-level-control-server.h
00003 // *
00004 // *
00005 // * Copyright 2011 by Ember Corporation. All rights reserved.
00006 // * * * * *
00007
00008 EmberAfStatus
00009     emberAfPluginZllLevelControlServerMoveToLevelWithOnOffZllExtensions(const
00009     EmberAfClusterCommand *cmd);
00009 boolean emberAfPluginZllLevelControlServerIgnoreMoveToLevelMoveStepStop(int8u
00009     endpoint, int8u commandId);

```

9.187 zll-on-off-server-callback.h File Reference

Functions

- `EmberAfStatus emberAfPluginZllOnOffServerOffWithEffectCallback (int8u endpoint, int8u effectId, int8u effectVariant)`

9.188 zll-on-off-server-callback.h

```

00001 // Copyright 2007 - 2012 by Ember Corporation. All rights reserved.
00002 //
00003 // This file is generated. Please do not edit manually.
00004 //
00005 //
00006
00027 EmberAfStatus emberAfPluginZllOnOffServerOffWithEffectCallback(int8u endpoint,
00028                                         int8u effectId,
00029                                         int8u
00030                                         effectVariant);
00030
00031
00032

```

9.189 zll-on-off-server.h File Reference

Functions

- `EmberAfStatus emberAfPluginZllOnOffServerOffZllExtensions (const EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPluginZllOnOffServerOnZllExtensions (const EmberAfClusterCommand *cmd)`

- `EmberAfStatus emberAfPluginZllOnOffServerToggleZllExtensions (const EmberAfClusterCommand *cmd)`
- `EmberAfStatus emberAfPluginZllOnOffServerLevelControlZllExtensions (int8u endpoint)`

9.189.1 Function Documentation

- 9.189.1.1 `EmberAfStatus emberAfPluginZllOnOffServerOffZllExtensions (const EmberAfClusterCommand * cmd)`
- 9.189.1.2 `EmberAfStatus emberAfPluginZllOnOffServerOnZllExtensions (const EmberAfClusterCommand * cmd)`
- 9.189.1.3 `EmberAfStatus emberAfPluginZllOnOffServerToggleZllExtensions (const EmberAfClusterCommand * cmd)`
- 9.189.1.4 `EmberAfStatus emberAfPluginZllOnOffServerLevelControlZllExtensions (int8u endpoint)`

9.190 zll-on-off-server.h

```

00001 // ****
00002 // * zll-on-off-server.h
00003 // *
00004 // *
00005 // * Copyright 2011 by Ember Corporation. All rights reserved.
00006 // ****
00007
00008 EmberAfStatus emberAfPluginZllOnOffServerOffZllExtensions(const
00009 EmberAfClusterCommand *cmd);
00010 EmberAfStatus emberAfPluginZllOnOffServerOnZllExtensions(const
00011 EmberAfClusterCommand *cmd);
00012 EmberAfStatus emberAfPluginZllOnOffServerToggleZllExtensions(const
00013 EmberAfClusterCommand *cmd);
00014 EmberAfStatus emberAfPluginZllOnOffServerLevelControlZllExtensions(int8u
00015 endpoint);

```

9.191 zll-scenes-server.h File Reference

Functions

- `EmberAfStatus emberAfPluginZllScenesServerRecallSceneZllExtensions (int8u endpoint)`

9.191.1 Function Documentation

- 9.191.1.1 `EmberAfStatus emberAfPluginZllScenesServerRecallSceneZllExtensions (int8u endpoint)`

9.192 zll-scenes-server.h

```

00001 // ****
00002 // * zll-scenes-server.h
00003 // *
00004 // *
00005 // * Copyright 2011 by Ember Corporation. All rights reserved.

```

```
*80*
00006 // ****
00007
00008 EmberAfStatus emberAfPluginZllScenesServerRecallSceneZllExtensions(int8u
endpoint);
```

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