

# Domain “domain1”

## Devices

root1

### Modules

#### AffectedParametersList

A list of parameters affected by a compatibility control action

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceParameters	Array <i>ApplianceParameters</i> : Struct <i>ApplianceParameter</i> <ul style="list-style-type: none"><li>- string <i>description</i></li><li>- Struct <i>ApplianceParameterTable</i><ul style="list-style-type: none"><li>- string <i>permissions</i></li><li>- string <i>unit</i></li><li>- uri <i>NameListLink</i></li></ul></li><li>- integer <i>id</i></li><li>- string <i>href</i></li><li>- uri <i>ActiveApplianceParameterSettingsLink</i></li><li>- uri <i>NameListLink</i></li></ul>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### Appliance

An appliance is any kind of smart home device

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
loadShedDeviceCategory	array <i>loadShedDeviceCategory</i>	Yes	Yes	Yes	Yes	
sFDI	integer <i>sFDI</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
ActiveApplianceControlListLink	uri	Yes	Yes	Yes	Yes	
ApplianceControlListLink	uri	Yes	Yes	Yes	Yes	
ApplianceLogEventListLink	uri	Yes	Yes	Yes	Yes	
ApplianceMonitorListLink	uri	Yes	Yes	Yes	Yes	
ApplianceParameterCompatibilityActionListLink	uri	Yes	Yes	Yes	Yes	
ApplianceParameterListLink	uri	Yes	Yes	Yes	Yes	
ApplianceWorkingModeListLink	uri	Yes	Yes	Yes	Yes	
ApplianceStatisticListLink	uri	Yes	Yes	Yes	Yes	
ConfigurationLink	uri	Yes	Yes	Yes	Yes	
DERListLink	uri	Yes	Yes	Yes	Yes	
DeviceInformationLink	uri	Yes	Yes	Yes	Yes	
DeviceStatusLink	uri	Yes	Yes	Yes	Yes	
FileStatusLink	uri	Yes	Yes	Yes	Yes	
IPInterfaceListLink	uri	Yes	Yes	Yes	Yes	
LoadShedAvailabilityLink	uri	Yes	Yes	Yes	Yes	
LogEventListLink	uri	Yes	Yes	Yes	Yes	
PowerStatusLink	uri	Yes	Yes	Yes	Yes	
ExtendedPowerProfileListLink	uri	Yes	Yes	Yes	Yes	

#### ApplianceControlList

A List of Appliance Controls

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteApplianceControl	href: string <i>href</i>	No	
None	CreateApplianceControl	ApplianceControl: Struct <i>ApplianceControl</i> - Array <i>ApplianceParameterStates</i> : Struct <i>ApplianceParameterState</i> - integer <i>now</i> - uri <i>ApplianceParameterLink</i> - integer <i>creationTime</i> - Struct <i>EventStatus</i> - integer <i>currentStatus</i> - integer <i>dateTime</i> - boolean <i>potentiallySuperseded</i> - integer <i>potentiallySupersededTime</i> - string <i>reason</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - array <i>responseRequired</i> - string <i>replyTo</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i>	No	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceControls	Array <i>ApplianceControls</i> : Struct <i>ApplianceControl</i> - Array <i>ApplianceParameterStates</i> : Struct <i>ApplianceParameterState</i> - integer <i>now</i> - uri <i>ApplianceParameterLink</i> - integer <i>creationTime</i> - Struct <i>EventStatus</i> - integer <i>currentStatus</i> - integer <i>dateTime</i> - boolean <i>potentiallySuperseded</i> - integer <i>potentiallySupersededTime</i> - string <i>reason</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - array <i>responseRequired</i> - string <i>replyTo</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ApplianceMonitorList

A list of Appliance Monitors

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceMonitors	Array <i>ApplianceMonitors</i> : Struct <i>ApplianceMonitor</i> - Struct <i>ApplianceParameterState</i> - integer <i>now</i> - uri <i>ApplianceParameterLink</i> - integer <i>maxValue</i> - integer <i>minValue</i> - integer <i>subscribable</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ApplianceParameterCompatibilityActionList

A list of Appliance Parameter Compatibility Actions

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceParameterCompatibilityActions	Array <i>ApplianceParameterCompatibilityActions:</i> Struct <i>ApplianceParameterCompatibilityAction</i> - integer <i>action</i> - Array Expressions: Struct <i>Expression</i> - string <i>logicalConnective</i> - string <i>mathOperator</i> - integer <i>value</i> - uri <i>ApplianceParameterLink</i> - integer <i>max</i> - string <i>href</i> - uri <i>AffectedParametersListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ApplianceParameterList

A List of Appliance Parameters

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceParameters	Array <i>ApplianceParameters:</i> Struct <i>ApplianceParameter</i> - string <i>description</i> - Struct <i>ApplianceParameterTable</i> - string <i>permissions</i> - string <i>unit</i> - uri <i>NameListLink</i> - integer <i>id</i> - string <i>href</i> - uri <i>ActiveApplianceParameterSettingsLink</i> - uri <i>NameListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ApplianceParameterSetList

A List of Appliance Parameter Sets

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceParameterSets	Array <i>ApplianceParameterSets:</i> Struct <i>ApplianceParameterSet</i> - Array <i>ApplianceParameterSettingss:</i> Struct <i>ApplianceParameterSettings</i> - Array <i>AvoidedValues:</i> Struct <i>AvoidedValue</i> - integer <i>value</i> - integer <i>default</i> - integer <i>max</i> - integer <i>min</i> - string <i>href</i> - uri <i>ApplianceParameterLink</i> - Array Expressions: Struct <i>Expression</i> - string <i>logicalConnective</i> - string <i>mathOperator</i> - integer <i>value</i> - uri <i>ApplianceParameterLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ApplianceWorkingModeList

A list of Appliance Working Modes

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceWorkingModes	Array <i>ApplianceWorkingModes</i> : Struct <i>ApplianceWorkingMode</i> - string <i>name</i> - integer <i>id</i> - string <i>href</i> - uri <i>ApplianceParameterSetListLink</i> - uri <i>NameListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### LocalNameList

A List of names associated with an object, used for internazionalization

##### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
LocalNames	Array <i>LocalNames</i> : Struct <i>LocalName</i> - string <i>name</i> - string <i>language</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### ApplianceStatisticList

A List element to hold ApplianceStatistic objects.

##### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ApplianceStatistics	Array <i>ApplianceStatistics</i> : Struct <i>ApplianceStatistic</i> - integer <i>applianceStatisticID</i> - string <i>applianceStatisticPayload</i> - integer <i>timeStamp</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
applianceStatisticListMaxSize	integer <i>applianceStatisticListMaxSize</i>	No	Yes	Yes	Yes	
applianceStatisticMaxSize	integer <i>applianceStatisticMaxSize</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### ExtendedPowerProfileList

A List of Extended Power Profiles for a device

##### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
energyRemote	boolean <i>energyRemote</i>	No	Yes	Yes	Yes	
ExtendedPowerProfiles	Array <i>ExtendedPowerProfiles</i> : Struct <i>ExtendedPowerProfile</i> - Array <i>PowerProfiles</i> : Struct <i>PowerProfile</i> - integer <i>alternativeModesNumber</i> - integer <i>duration</i> - integer <i>minPowerProfileDelay</i> - boolean <i>mixEnable</i> - Array <i>Modes</i> : Struct <i>Mode</i> - Array <i>EnergyPhases</i> : Struct <i>EnergyPhase</i> - Struct <i>SignedRealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>expectedDuration</i> - integer <i>macroPhaseID</i> - integer <i>maxActivationDelay</i> - integer <i>maxAnticipation</i> - integer <i>maxOverloadPause</i> - Struct <i>ActivePower</i> - integer <i>multiplier</i> - integer <i>value</i> - string <i>href</i> - uri <i>EnergyPhaseScheduleStateLink</i> - integer <i>repetitionNumber</i> - integer <i>all</i> - integer <i>results</i> - string <i>href</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>ExtendedPowerProfilePriceLink</i> - uri <i>PowerProfileScheduleConstraintsLink</i> - uri <i>PowerProfileScheduleStateLink</i> - uri <i>PowerProfileStateLink</i> - integer <i>results</i> - integer <i>all</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
multipleScheduling	boolean <i>multipleScheduling</i>	No	Yes	Yes	Yes	
totalProfileNum	integer <i>totalProfileNum</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### ExtendedPowerProfilePrice

Price of an Extended Power Profile

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
currency	integer <i>currency</i>	No	Yes	Yes	Yes	
price	integer <i>price</i>	No	Yes	Yes	Yes	
pricePowerOfTenMultiplier	integer <i>pricePowerOfTenMultiplier</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### OverallSchedulePrice

Cost associated to all the Extended Power Profiles scheduled for the next 24 hours.

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
currency	integer <i>currency</i>	No	Yes	Yes	Yes	
price	integer <i>price</i>	No	Yes	Yes	Yes	
pricePowerOfTenMultiplier	integer <i>pricePowerOfTenMultiplier</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### PowerProfileSchedule

Schedule for an Extended Power Profile

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
PowerProfileScheduleLists	Array <i>PowerProfileScheduleLists</i> : Struct <i>PowerProfileScheduleList</i> - integer <i>minPowerProfileDelay</i> - Array <i>PowerProfileScheduleModes</i> : Struct <i>PowerProfileScheduleMode</i> - Array <i>EnergyPhaseSchedules</i> : Struct <i>EnergyPhaseSchedule</i> - integer <i>activationDelay</i> - string <i>href</i> - uri <i>EnergyPhaseLink</i> - uri <i>ModeLink</i> - integer <i>all</i> - integer <i>results</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### PowerProfileScheduleContraints

Scheduling constraints of a Power Profile

##### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
scheduleMode	array <i>scheduleMode</i>	No	Yes	Yes	Yes	
startAfter	integer <i>startAfter</i>	No	Yes	Yes	Yes	
stopBefore	integer <i>stopBefore</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### PowerProfileScheduleState

Actual scheduling state of a Power Profile

##### Actions

Return Type	Name	Arguments	Optional	Documentation
None	CreatePowerProfileScheduleState	PowerProfileScheduleState: Struct <i>PowerProfileScheduleState</i> - integer <i>minPowerProfileDelay</i> - Array <i>PowerProfileScheduleModeStates</i> : Struct <i>PowerProfileScheduleModeState</i> - Array <i>EnergyPhaseScheduleStates</i> : Struct <i>EnergyPhaseScheduleState</i> - integer <i>activationDelay</i> - string <i>href</i> - uri <i>EnergyPhaseLink</i> - uri <i>ModeLink</i> - integer <i>all</i> - integer <i>results</i> - integer <i>subscribable</i> - string <i>href</i>	Yes	

##### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
minPowerProfileDelay	integer <i>minPowerProfileDelay</i>	No	Yes	Yes	Yes	
PowerProfileScheduleModeStates	Array <i>PowerProfileScheduleModeStates</i> : Struct <i>PowerProfileScheduleModeState</i> - Array <i>EnergyPhaseScheduleStates</i> : Struct <i>EnergyPhaseScheduleState</i> - integer <i>activationDelay</i> - string <i>href</i> - uri <i>EnergyPhaseLink</i> - uri <i>ModeLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### PowerProfileState

Actual state of a Power Profile

##### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
remoteControl	boolean <i>remoteControl</i>	No	Yes	Yes	Yes	
state	integer <i>state</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
ActiveEnergyPhaseLink	uri	Yes	Yes	Yes	Yes	

### DeviceCapability

Returned by the URI provided by DNS-SD, to allow clients to find the URIs to the resources in which they are interested.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
href	string <i>href</i>	No	Yes	Yes	Yes	
EndDeviceListLink	uri	Yes	Yes	Yes	Yes	
MirrorUsagePointListLink	uri	Yes	Yes	Yes	Yes	
SelfDeviceLink	uri	Yes	Yes	Yes	Yes	
CustomerAccountListLink	uri	Yes	Yes	Yes	Yes	
DemandResponseProgramListLink	uri	Yes	Yes	Yes	Yes	
DERProgramListLink	uri	Yes	Yes	Yes	Yes	
FileListLink	uri	Yes	Yes	Yes	Yes	
MessagingProgramListLink	uri	Yes	Yes	Yes	Yes	
PrepaymentListLink	uri	Yes	Yes	Yes	Yes	
ResponseSetListLink	uri	Yes	Yes	Yes	Yes	
TariffProfileListLink	uri	Yes	Yes	Yes	Yes	
TimeLink	uri	Yes	Yes	Yes	Yes	
UsagePointListLink	uri	Yes	Yes	Yes	Yes	

### DeviceStatus

Status of device

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
changedTime	integer <i>changedTime</i>	No	Yes	Yes	Yes	
onCount	integer <i>onCount</i>	Yes	Yes	Yes	Yes	
opState	integer <i>opState</i>	Yes	Yes	Yes	Yes	
opTime	integer <i>opTime</i>	Yes	Yes	Yes	Yes	
Temperature	Struct <i>Temperature</i> - integer <i>multiplier</i> - integer <i>subject</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
TimeLink	uri	Yes	Yes	Yes	Yes	

### EndDeviceList

A List element to hold EndDevice objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteEndDevice	href: string <i>href</i>	Yes	
None	CreateEndDevice	EndDevice: Struct <i>EndDevice</i> - Struct <i>OverallSchedulePricelink</i> - string <i>href</i> - array <i>loadShedDeviceCategory</i> - integer <i>sFDI</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>ExtendedPowerProfilePriceLink</i> - uri <i>FlowReservationRequestListLink</i> - uri <i>FlowReservationResponseListLink</i> - uri <i>FunctionSetAssignmentsListLink</i> - uri <i>PowerProfileScheduleLink</i> - uri <i>RegistrationLink</i> - uri <i>SubscriptionListLink</i> - uri <i>ApplianceStatisticListLink</i> - uri <i>ConfigurationLink</i> - uri <i>DERListLink</i> - uri <i>DeviceInformationLink</i> - uri <i>DeviceStatusLink</i> - uri <i>FileStatusLink</i> - uri <i>IPInterfaceListLink</i> - uri <i>LoadShedAvailabilityLink</i> - uri <i>LogEventListLink</i> - uri <i>PowerStatusLink</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
EndDevices	Array <i>EndDevices</i> : Struct <i>EndDevice</i> - Struct <i>OverallSchedulePricelink</i> - string <i>href</i> - array <i>loadShedDeviceCategory</i> - integer <i>sFDI</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>ExtendedPowerProfilePriceLink</i> - uri <i>FlowReservationRequestListLink</i> - uri <i>FlowReservationResponseListLink</i> - uri <i>FunctionSetAssignmentsListLink</i> - uri <i>PowerProfileScheduleLink</i> - uri <i>RegistrationLink</i> - uri <i>SubscriptionListLink</i> - uri <i>ApplianceStatisticListLink</i> - uri <i>ConfigurationLink</i> - uri <i>DERListLink</i> - uri <i>DeviceInformationLink</i> - uri <i>DeviceStatusLink</i> - uri <i>FileStatusLink</i> - uri <i>IPInterfaceListLink</i> - uri <i>LoadShedAvailabilityLink</i> - uri <i>LogEventListLink</i> - uri <i>PowerStatusLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### Registration

Registration represents an authorization to access the resources on a host.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
dateTimeRegistered	integer <i>dateTimeRegistered</i>	No	Yes	Yes	Yes	
pIN	integer <i>pIN</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### SelfDevice

The EndDevice providing the resources available within the DeviceCapabilities.

#### Data



Name	Type	Optional	Writable	Readable	Eventable	Documentation
loadShedDeviceCategory	array <i>loadShedDeviceCategory</i>	Yes	Yes	Yes	Yes	
sFDI	integer <i>sFDI</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
ExtendedPowerProfileListLink	uri	Yes	Yes	Yes	Yes	
ApplianceStatisticListLink	uri	Yes	Yes	Yes	Yes	
ConfigurationLink	uri	Yes	Yes	Yes	Yes	
DERListLink	uri	Yes	Yes	Yes	Yes	
DeviceInformationLink	uri	Yes	Yes	Yes	Yes	
DeviceStatusLink	uri	Yes	Yes	Yes	Yes	
FileStatusLink	uri	Yes	Yes	Yes	Yes	
IPInterfaceListLink	uri	Yes	Yes	Yes	Yes	
LoadShedAvailabilityLink	uri	Yes	Yes	Yes	Yes	
LogEventListLink	uri	Yes	Yes	Yes	Yes	
PowerStatusLink	uri	Yes	Yes	Yes	Yes	

### FunctionSetAssignmentsList

A List element to hold FunctionSetAssignments objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
FunctionSetAssignmentss	Array <i>FunctionSetAssignmentss</i> : Struct <i>FunctionSetAssignments</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>CustomerAccountListLink</i> - uri <i>DemandResponseProgramListLink</i> - uri <i>DERProgramListLink</i> - uri <i>FileListLink</i> - uri <i>MessagingProgramListLink</i> - uri <i>PrepaymentListLink</i> - uri <i>ResponseSetListLink</i> - uri <i>TariffProfileListLink</i> - uri <i>TimeLink</i> - uri <i>UsagePointListLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### SubscriptionList

A List element to hold Subscription objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteSubscription	href: string <i>href</i>	No	
None	CreateSubscription	Subscription: Struct <i>Subscription</i> - Struct <i>Condition</i> - integer <i>attributeIdentifier</i> - integer <i>lowerThreshold</i> - integer <i>upperThreshold</i> - integer <i>encoding</i> - string <i>level</i> - integer <i>limit</i> - string <i>notificationURI</i> - string <i>subscribedResource</i> - string <i>href</i>	No	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Subscriptions	Array <i>Subscriptions</i> : Struct <i>Subscription</i> - Struct <i>Condition</i> - integer <i>attributeIdentifier</i> - integer <i>lowerThreshold</i> - integer <i>upperThreshold</i> - integer <i>encoding</i> - string <i>level</i> - integer <i>limit</i> - string <i>notificationURI</i> - string <i>subscribedResource</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### NotificationList

A List element to hold Notification objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	CreateNotification	Notification: Struct <i>Notification</i> - string <i>newResourceURI</i> - Struct <i>Resource</i> - string <i>href</i> - integer <i>status</i> - string <i>subscriptionURI</i> - string <i>subscribedResource</i> - string <i>href</i>	No	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Notifications	Array <i>Notifications</i> : Struct <i>Notification</i> - string <i>newResourceURI</i> - Struct <i>Resource</i> - string <i>href</i> - integer <i>status</i> - string <i>subscriptionURI</i> - string <i>subscribedResource</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### ResponseList

A List element to hold Response objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteResponse	href: string <i>href</i>	Yes	
None	CreateResponse	Response: Struct <i>Response</i> - integer <i>createdDateTime</i> - array <i>endDeviceLFDI</i> - integer <i>status</i> - array <i>subject</i> - string <i>href</i>	No	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Responses	Array <i>Responses</i> : Struct <i>Response</i> - integer <i>createdDateTime</i> - array <i>endDeviceLFDI</i> - integer <i>status</i> - array <i>subject</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ResponseSetList

A List element to hold ResponseSet objects.

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ResponseSets	Array <i>ResponseSets</i> : Struct <i>ResponseSet</i> <ul style="list-style-type: none"><li>- string <i>href</i></li><li>- array <i>mRID</i></li><li>- string <i>description</i></li><li>- integer <i>version</i></li><li>- uri <i>ResponseListLink</i></li></ul>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

Time

Contains the representation of time, constantly updated.

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
currentTime	integer <i>currentTime</i>	No	Yes	Yes	Yes	
dstEndTime	integer <i>dstEndTime</i>	No	Yes	Yes	Yes	
dstOffset	integer <i>dstOffset</i>	No	Yes	Yes	Yes	
dstStartTime	integer <i>dstStartTime</i>	No	Yes	Yes	Yes	
lastSetTime	integer <i>lastSetTime</i>	Yes	Yes	Yes	Yes	
localTime	integer <i>localTime</i>	Yes	Yes	Yes	Yes	
quality	integer <i>quality</i>	No	Yes	Yes	Yes	
tzOffset	integer <i>tzOffset</i>	No	Yes	Yes	Yes	
validUntilTime	integer <i>validUntilTime</i>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

DeviceInformation

Contains identification and other information about the device that changes very infrequently, typically only when updates are applied, if ever.

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
brandID	integer <i>brandID</i>	Yes	Yes	Yes	Yes	
brandName	string <i>brandName</i>	Yes	Yes	Yes	Yes	
CECEDSpecificationVersion	integer <i>CECEDSpecificationVersion</i>	Yes	Yes	Yes	Yes	
companyName	string <i>companyName</i>	Yes	Yes	Yes	Yes	
DRLCCapabilities	Struct <i>DRLCCapabilities</i> <ul style="list-style-type: none"><li>- Struct <i>RealEnergy</i><ul style="list-style-type: none"><li>- integer <i>multiplier</i></li><li>- integer <i>value</i></li></ul></li><li>- Struct <i>ActivePower</i><ul style="list-style-type: none"><li>- integer <i>multiplier</i></li><li>- integer <i>value</i></li></ul></li><li>- array <i>optionsImplemented</i></li></ul>	Yes	Yes	Yes	Yes	
functionsImplemented	array <i>functionsImplemented</i>	Yes	Yes	Yes	Yes	
IFDI	array <i>IFDI</i>	No	Yes	Yes	Yes	
mfDate	integer <i>mfDate</i>	No	Yes	Yes	Yes	
mfHwVer	string <i>mfHwVer</i>	No	Yes	Yes	Yes	
mfID	integer <i>mfID</i>	No	Yes	Yes	Yes	
mfInfo	string <i>mfInfo</i>	Yes	Yes	Yes	Yes	
mfModel	string <i>mfModel</i>	No	Yes	Yes	Yes	
mfSerNum	string <i>mfSerNum</i>	No	Yes	Yes	Yes	
primaryPower	integer <i>primaryPower</i>	No	Yes	Yes	Yes	
productTypeID	integer <i>productTypeID</i>	Yes	Yes	Yes	Yes	
productTypeName	string <i>productTypeName</i>	Yes	Yes	Yes	Yes	
secondaryPower	integer <i>secondaryPower</i>	No	Yes	Yes	Yes	
swActTime	integer <i>swActTime</i>	No	Yes	Yes	Yes	
swVer	string <i>swVer</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
SupportedLocaleListLink	uri	Yes	Yes	Yes	Yes	

SupportedLocaleList

A List element to hold SupportedLocale objects.

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteSupportedLocale	href: string <i>href</i>	No	
None	CreateSupportedLocale	SupportedLocale: Struct <i>SupportedLocale</i> - string <i>locale</i> - string <i>href</i>	No	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
SupportedLocales	Array <i>SupportedLocales</i> : Struct <i>SupportedLocale</i> - string <i>locale</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

PowerStatus

Contains the status of the device's power sources

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
batteryStatus	integer <i>batteryStatus</i>	No	Yes	Yes	Yes	
changedTime	integer <i>changedTime</i>	No	Yes	Yes	Yes	
currentPowerSource	integer <i>currentPowerSource</i>	No	Yes	Yes	Yes	
estimatedChargeRemaining	integer <i>estimatedChargeRemaining</i>	Yes	Yes	Yes	Yes	
estimatedTimeRemaining	integer <i>estimatedTimeRemaining</i>	Yes	Yes	Yes	Yes	
PEVInfo	Struct <i>PEVInfo</i> - Struct <i>ActivePower</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>ActivePower</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>minimumChargingDuration</i> - integer <i>targetStateOfCharge</i> - integer <i>timeChargelsNeeded</i> - integer <i>timeChargingStatusPEV</i>	Yes	Yes	Yes	Yes	
sessionTimeOnBattery	integer <i>sessionTimeOnBattery</i>	Yes	Yes	Yes	Yes	
totalTimeOnBattery	integer <i>totalTimeOnBattery</i>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

IPAddrList

List of IPAddr instances.

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteIPAddr	href: string <i>href</i>	Yes	
None	CreateIPAddr	IPAddr: Struct <i>IPAddr</i> - array <i>address</i> - string <i>href</i> - uri <i>RPLInstanceListLink</i>	Yes	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
IPAddrs	Array <i>IPAddrs</i> : Struct <i>IPAddr</i> - array <i>address</i> - string <i>href</i> - uri <i>RPLInstanceListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### IPInterfaceList

List of IPInterface instances.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeletelPInterface	href: string <i>href</i>	Yes	
None	CreateIPInterface	IPInterface: Struct <i>IPInterface</i> - string <i>ifDescr</i> - integer <i>ifHighSpeed</i> - integer <i>ifInBroadcastPkts</i> - integer <i>ifIndex</i> - integer <i>ifInDiscards</i> - integer <i>ifInErrors</i> - integer <i>ifInMulticastPkts</i> - integer <i>ifInOctets</i> - integer <i>ifInUcastPkts</i> - integer <i>ifInUnknownProtos</i> - integer <i>ifMtu</i> - string <i>ifName</i> - integer <i>ifOperStatus</i> - integer <i>ifOutBroadcastPkts</i> - integer <i>ifOutDiscards</i> - integer <i>ifOutErrors</i> - integer <i>ifOutMulticastPkts</i> - integer <i>ifOutOctets</i> - integer <i>ifOutUcastPkts</i> - boolean <i>ifPromiscuousMode</i> - integer <i>ifSpeed</i> - integer <i>ifType</i> - integer <i>lastResetTime</i> - integer <i>lastUpdatedTime</i> - string <i>href</i> - uri <i>IPAddrListLink</i> - uri <i>LLInterfaceListLink</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
IPInterfaces	Array <i>IPInterfaces</i> : Struct <i>IPInterface</i> - string <i>ifDescr</i> - integer <i>ifHighSpeed</i> - integer <i>ifInBroadcastPkts</i> - integer <i>ifIndex</i> - integer <i>ifInDiscards</i> - integer <i>ifInErrors</i> - integer <i>ifInMulticastPkts</i> - integer <i>ifInOctets</i> - integer <i>ifInUcastPkts</i> - integer <i>ifInUnknownProtos</i> - integer <i>ifMtu</i> - string <i>ifName</i> - integer <i>ifOperStatus</i> - integer <i>ifOutBroadcastPkts</i> - integer <i>ifOutDiscards</i> - integer <i>ifOutErrors</i> - integer <i>ifOutMulticastPkts</i> - integer <i>ifOutOctets</i> - integer <i>ifOutUcastPkts</i> - boolean <i>ifPromiscuousMode</i> - integer <i>ifSpeed</i> - integer <i>ifType</i> - integer <i>lastResetTime</i> - integer <i>lastUpdatedTime</i> - string <i>href</i> - uri <i>IPAddrListLink</i> - uri <i>LLInterfaceListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

LLInterfaceList

List of LLInterface instances.

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteLLInterface	href: string <i>href</i>	Yes	
None	CreateLLInterface	LLInterface: Struct <i>LLInterface</i> - integer <i>CRCErrors</i> - array <i>EUI64</i> - Struct <i>IEEE_802_15_4</i> - array <i>capabilityInfo</i> - integer <i>shortAddress</i> - uri <i>NeighborListLink</i> - integer <i>linkLayerType</i> - integer <i>LLAckNotRx</i> - integer <i>LLCSMAFail</i> - integer <i>LLFramesDropRx</i> - integer <i>LLFramesDropTx</i> - integer <i>LLFramesRx</i> - integer <i>LLFramesTx</i> - integer <i>LLMediaAccessFail</i> - integer <i>LLOctetsRx</i> - integer <i>LLOctetsTx</i> - integer <i>LLRetryCount</i> - integer <i>LLSecurityErrorRx</i> - Struct <i>loWPAN</i> - integer <i>octetsRx</i> - integer <i>octetsTx</i> - integer <i>packetsRx</i> - integer <i>packetsTx</i> - integer <i>rxFragError</i> - string <i>href</i>	Yes	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
LLInterfaces	Array <i>LLInterfaces</i> : Struct <i>LLInterface</i> - integer <i>CRCErrors</i> - array <i>EUI64</i> - Struct <i>IEEE_802_15_4</i> - array <i>capabilityInfo</i> - integer <i>shortAddress</i> - uri <i>NeighborListLink</i> - integer <i>linkLayerType</i> - integer <i>LLAckNotRx</i> - integer <i>LLCSMAFail</i> - integer <i>LLFramesDropRx</i> - integer <i>LLFramesDropTx</i> - integer <i>LLFramesRx</i> - integer <i>LLFramesTx</i> - integer <i>LLMediaAccessFail</i> - integer <i>LLOctetsRx</i> - integer <i>LLOctetsTx</i> - integer <i>LLRetryCount</i> - integer <i>LLSecurityErrorRx</i> - Struct <i>loWPAN</i> - integer <i>octetsRx</i> - integer <i>octetsTx</i> - integer <i>packetsRx</i> - integer <i>packetsTx</i> - integer <i>rxFragError</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

NeighborList

List of 15.4 neighbors.

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteNeighbor	href: string <i>href</i>	Yes	
None	CreateNeighbor	Neighbor: Struct <i>Neighbor</i> - boolean <i>isChild</i> - integer <i>linkQuality</i> - integer <i>shortAddress</i> - string <i>href</i>	Yes	

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Neighbors	Array <i>Neighbors</i> : Struct <i>Neighbor</i> <ul style="list-style-type: none"><li>- boolean <i>isChild</i></li><li>- integer <i>linkQuality</i></li><li>- integer <i>shortAddress</i></li><li>- string <i>href</i></li></ul>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

## RPLInstanceList

List of RPLInstances associated with the IPInterface.

## Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteRPLInstance	href: string <i>href</i>	Yes	
None	CreateRPLInstance	RPLInstance: Struct <i>RPLInstance</i> <ul style="list-style-type: none"><li>- integer <i>DODAGid</i></li><li>- boolean <i>DODAGroot</i></li><li>- integer <i>flags</i></li><li>- boolean <i>groundedFlag</i></li><li>- integer <i>MOP</i></li><li>- integer <i>PRF</i></li><li>- integer <i>rank</i></li><li>- integer <i>RPLInstanceID</i></li><li>- integer <i>versionNumber</i></li><li>- string <i>href</i></li><li>- uri <i>RPLSourceRoutesListLink</i></li></ul>	Yes	

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
RPLInstances	Array <i>RPLInstances</i> : Struct <i>RPLInstance</i> <ul style="list-style-type: none"><li>- integer <i>DODAGid</i></li><li>- boolean <i>DODAGroot</i></li><li>- integer <i>flags</i></li><li>- boolean <i>groundedFlag</i></li><li>- integer <i>MOP</i></li><li>- integer <i>PRF</i></li><li>- integer <i>rank</i></li><li>- integer <i>RPLInstanceID</i></li><li>- integer <i>versionNumber</i></li><li>- string <i>href</i></li><li>- uri <i>RPLSourceRoutesListLink</i></li></ul>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

## RPLSourceRoutesList

List or RPL source routes if the hosting device is the DODAGroot

## Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteRPLSourceRoutes	href: string <i>href</i>	Yes	
None	CreateRPLSourceRoutes	RPLSourceRoutes: Struct <i>RPLSourceRoutes</i> <ul style="list-style-type: none"><li>- array <i>DestAddress</i></li><li>- array <i>SourceRoute</i></li><li>- string <i>href</i></li></ul>	Yes	

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
RPLSourceRoutes	Array <i>RPLSourceRoutes</i> : Struct <i>RPLSourceRoutes</i> <ul style="list-style-type: none"><li>- array <i>DestAddress</i></li><li>- array <i>SourceRoute</i></li><li>- string <i>href</i></li></ul>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

ApplianceLogEventList

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteLogEvent	href: string <i>href</i>	No	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
LogEvents	Array <i>LogEvents</i> : Struct <i>LogEvent</i> <ul style="list-style-type: none"><li>- integer <i>createdDateTime</i></li><li>- integer <i>extendedData</i></li><li>- integer <i>functionSet</i></li><li>- integer <i>logEventCode</i></li><li>- integer <i>logEventID</i></li><li>- integer <i>logEventPEN</i></li><li>- integer <i>profileID</i></li><li>- string <i>href</i></li></ul>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

LogEventList

A List element to hold LogEvent objects.

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteLogEvent	href: string <i>href</i>	No	
None	CreateLogEvent	LogEvent: Struct <i>LogEvent</i> <ul style="list-style-type: none"><li>- integer <i>createdDateTime</i></li><li>- integer <i>extendedData</i></li><li>- integer <i>functionSet</i></li><li>- integer <i>logEventCode</i></li><li>- integer <i>logEventID</i></li><li>- integer <i>logEventPEN</i></li><li>- integer <i>profileID</i></li><li>- string <i>href</i></li></ul>	No	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
LogEvents	Array <i>LogEvents</i> : Struct <i>LogEvent</i> <ul style="list-style-type: none"><li>- integer <i>createdDateTime</i></li><li>- integer <i>extendedData</i></li><li>- integer <i>functionSet</i></li><li>- integer <i>logEventCode</i></li><li>- integer <i>logEventID</i></li><li>- integer <i>logEventPEN</i></li><li>- integer <i>profileID</i></li><li>- string <i>href</i></li></ul>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

Configuration

This resource contains various settings to control the operation of the device

Data



Name	Type	Optional	Writable	Readable	Eventable	Documentation
currentLocale	string <i>currentLocale</i>	No	Yes	Yes	Yes	
PowerConfiguration	Struct <i>PowerConfiguration</i> - integer <i>batteryInstallTime</i> - integer <i>lowChargeThreshold</i>	Yes	Yes	Yes	Yes	
TimeConfiguration	Struct <i>TimeConfiguration</i> - array <i>dstEndRule</i> - integer <i>dstOffset</i> - array <i>dstStartRule</i> - integer <i>tzOffset</i>	Yes	Yes	Yes	Yes	
userDeviceName	string <i>userDeviceName</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
PriceResponseCfgListLink	uri	Yes	Yes	Yes	Yes	

### PriceResponseCfgList

A List element to hold PriceResponseCfg objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeletePriceResponseCfg	href: string <i>href</i>	No	
None	CreatePriceResponseCfg	PriceResponseCfg: Struct <i>PriceResponseCfg</i> - integer <i>consumeThreshold</i> - integer <i>maxReductionThreshold</i> - string <i>href</i> - uri <i>RateComponentLink</i>	No	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
PriceResponseCfgs	Array <i>PriceResponseCfgs</i> : Struct <i>PriceResponseCfg</i> - integer <i>consumeThreshold</i> - integer <i>maxReductionThreshold</i> - string <i>href</i> - uri <i>RateComponentLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### FileList

A List element to hold File objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Files	Array <i>Files</i> : Struct <i>File</i> - integer <i>activateTime</i> - string <i>fileURI</i> - array <i>IFDI</i> - string <i>mfHwVer</i> - integer <i>mfID</i> - string <i>mfModel</i> - string <i>mfSerNum</i> - string <i>mfVer</i> - integer <i>size</i> - array <i>type</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### FileStatus

This object provides status of device file load and activation operations.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
activateTime	integer <i>activateTime</i>	Yes	Yes	Yes	Yes	
loadPercent	integer <i>loadPercent</i>	No	Yes	Yes	Yes	
nextRequestAttempt	integer <i>nextRequestAttempt</i>	No	Yes	Yes	Yes	
request503Count	integer <i>request503Count</i>	No	Yes	Yes	Yes	
requestFailCount	integer <i>requestFailCount</i>	No	Yes	Yes	Yes	
status	integer <i>status</i>	No	Yes	Yes	Yes	
statusTime	integer <i>statusTime</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
FileLink	uri	Yes	Yes	Yes	Yes	

### DemandResponseProgramList

A List element to hold DemandResponseProgram objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
DemandResponsePrograms	Array <i>DemandResponsePrograms</i> : Struct <i>DemandResponseProgram</i> - integer <i>availabilityUpdatePercentChangeThreshold</i> - Struct <i>ActivePower</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>primacy</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ActiveEventListLink</i> - uri <i>EventListLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### EndDeviceControlList

A List element to hold EndDeviceControl objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
EndDeviceControls	Array <i>EndDeviceControls</i> : Struct <i>EndDeviceControl</i> <ul style="list-style-type: none"> <li>- Struct <i>ApplianceLoadReduction</i> <ul style="list-style-type: none"> <li>- integer <i>type</i></li> </ul> </li> <li>- array <i>deviceCategory</i></li> <li>- boolean <i>drProgramMandatory</i></li> <li>- Struct <i>DutyCycle</i> <ul style="list-style-type: none"> <li>- integer <i>normalValue</i></li> </ul> </li> <li>- boolean <i>loadShiftForward</i></li> <li>- Struct <i>Offset</i> <ul style="list-style-type: none"> <li>- integer <i>coolingOffset</i></li> <li>- integer <i>heatingOffset</i></li> <li>- integer <i>loadAdjustmentPercentageOffset</i></li> </ul> </li> <li>- integer <i>overrideDuration</i></li> <li>- Struct <i>SetPoint</i> <ul style="list-style-type: none"> <li>- integer <i>coolingSetpoint</i></li> <li>- integer <i>heatingSetpoint</i></li> </ul> </li> <li>- Struct <i>TargetReduction</i> <ul style="list-style-type: none"> <li>- integer <i>type</i></li> <li>- integer <i>value</i></li> </ul> </li> <li>- integer <i>creationTime</i></li> <li>- Struct <i>EventStatus</i> <ul style="list-style-type: none"> <li>- integer <i>currentStatus</i></li> <li>- integer <i>dateTime</i></li> <li>- boolean <i>potentiallySuperseded</i></li> <li>- integer <i>potentiallySupersededTime</i></li> <li>- string <i>reason</i></li> </ul> </li> <li>- Struct <i>DateTimeInterval</i> <ul style="list-style-type: none"> <li>- integer <i>duration</i></li> <li>- integer <i>start</i></li> </ul> </li> <li>- array <i>responseRequired</i></li> <li>- string <i>replyTo</i></li> <li>- string <i>href</i></li> <li>- integer <i>randomizeDuration</i></li> <li>- integer <i>randomizeStart</i></li> <li>- array <i>mRID</i></li> <li>- string <i>description</i></li> <li>- integer <i>version</i></li> <li>- integer <i>subscribable</i></li> </ul>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

LoadShedAvailability

Indicates current consumption status and ability to shed load.

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
availabilityDuration	integer <i>availabilityDuration</i>	Yes	Yes	Yes	Yes	
sheddablePercent	integer <i>sheddablePercent</i>	Yes	Yes	Yes	Yes	
sheddablePower	Struct <i>sheddablePower</i> <ul style="list-style-type: none"> <li>- integer <i>multiplier</i></li> <li>- integer <i>value</i></li> </ul>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
DemandResponseProgramLink	uri	Yes	Yes	Yes	Yes	

MeterReadingList

A List element to hold MeterReading objects.

Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteMeterReading	href: string <i>href</i>	Yes	
None	CreateMeterReading	MeterReading: Struct <i>MeterReading</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> <li>- array <i>mRID</i></li> <li>- string <i>description</i></li> <li>- integer <i>version</i></li> <li>- uri <i>RateComponentListLink</i></li> <li>- uri <i>ReadingLink</i></li> <li>- uri <i>ReadingSetListLink</i></li> <li>- uri <i>ReadingTypeLink</i></li> </ul>	Yes	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
MeterReadings	Array <i>MeterReadings</i> : Struct <i>MeterReading</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>RateComponentListLink</i> - uri <i>ReadingLink</i> - uri <i>ReadingSetListLink</i> - uri <i>ReadingTypeLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### ReadingList

A List element to hold Reading objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteReading	href: string <i>href</i>	Yes	
None	CreateReading	Reading: Struct <i>Reading</i> - array <i>localID</i> - integer <i>subscribable</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Readings	Array <i>Readings</i> : Struct <i>Reading</i> - array <i>localID</i> - integer <i>subscribable</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### ReadingSetList

A List element to hold ReadingSet objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteReadingSet	href: string <i>href</i>	Yes	
None	CreateReadingSet	ReadingSet: Struct <i>ReadingSet</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ReadingListLink</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ReadingSets	Array <i>ReadingSets</i> : Struct <i>ReadingSet</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ReadingListLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### ReadingType

Type of data conveyed by a specific Reading. See IEC 61968 Part 9 Annex C for full definitions of these values.

### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
accumulationBehaviour	integer <i>accumulationBehaviour</i>	Yes	Yes	Yes	Yes	
calorificValue	Struct <i>calorificValue</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
commodity	integer <i>commodity</i>	Yes	Yes	Yes	Yes	
conversionFactor	Struct <i>conversionFactor</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
dataQualifier	integer <i>dataQualifier</i>	Yes	Yes	Yes	Yes	
flowDirection	integer <i>flowDirection</i>	Yes	Yes	Yes	Yes	
intervalLength	integer <i>intervalLength</i>	Yes	Yes	Yes	Yes	
kind	integer <i>kind</i>	Yes	Yes	Yes	Yes	
maxNumberOfIntervals	integer <i>maxNumberOfIntervals</i>	Yes	Yes	Yes	Yes	
numberOfConsumptionBlocks	integer <i>numberOfConsumptionBlocks</i>	Yes	Yes	Yes	Yes	
numberOfTouTiers	integer <i>numberOfTouTiers</i>	Yes	Yes	Yes	Yes	
phase	integer <i>phase</i>	Yes	Yes	Yes	Yes	
powerOfTenMultiplier	integer <i>powerOfTenMultiplier</i>	Yes	Yes	Yes	Yes	
subIntervalLength	integer <i>subIntervalLength</i>	Yes	Yes	Yes	Yes	
supplyDisconnectLimit	integer <i>supplyDisconnectLimit</i>	Yes	Yes	Yes	Yes	
supplyLimit	integer <i>supplyLimit</i>	Yes	Yes	Yes	Yes	
supplyWarningLimit	integer <i>supplyWarningLimit</i>	Yes	Yes	Yes	Yes	
tieredConsumptionBlocks	boolean <i>tieredConsumptionBlocks</i>	Yes	Yes	Yes	Yes	
uom	integer <i>uom</i>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### UsagePointList

A List element to hold UsagePoint objects.

### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteUsagePoint	href: string <i>href</i>	Yes	
None	CreateUsagePoint	UsagePoint: Struct <i>UsagePoint</i> - string <i>href</i> - array <i>roleFlags</i> - integer <i>serviceCategoryKind</i> - integer <i>status</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>MeterReadingListLink</i>	Yes	

### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
UsagePoints	Array <i>UsagePoints</i> : Struct <i>UsagePoint</i> - string <i>href</i> - array <i>roleFlags</i> - integer <i>serviceCategoryKind</i> - integer <i>status</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>MeterReadingListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### ConsumptionTariffIntervalList

A List element to hold ConsumptionTariffInterval objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ConsumptionTariffIntervals	Array <i>ConsumptionTariffIntervals</i> : Struct <i>ConsumptionTariffInterval</i> - integer <i>consumptionBlock</i> - Array <i>EnvironmentalCosts</i> : Struct <i>EnvironmentalCost</i> - integer <i>amount</i> - integer <i>costKind</i> - integer <i>costLevel</i> - integer <i>numCostLevels</i> - integer <i>price</i> - integer <i>priceRatio</i> - integer <i>startValue</i> - string <i>href</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### RateComponentList

A List element to hold RateComponent objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
RateComponents	Array <i>RateComponents</i> : Struct <i>RateComponent</i> - Struct <i>UnitValueType</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i> - Struct <i>UnitValueType</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i> - array <i>roleFlags</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ActiveTimeTariffIntervalListLink</i> - uri <i>ReadingTypeLink</i> - uri <i>TimeTariffIntervalListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### TariffProfileList

A List element to hold TariffProfile objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
TariffProfiles	Array <i>TariffProfiles</i> : Struct <i>TariffProfile</i> - integer <i>currency</i> - integer <i>pricePowerOfTenMultiplier</i> - integer <i>primacy</i> - string <i>rateCode</i> - integer <i>serviceCategoryKind</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>RateComponentListLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### TimeTariffIntervalList

A List element to hold TimeTariffInterval objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
TimeTariffIntervals	Array <i>TimeTariffIntervals</i> : Struct <i>TimeTariffInterval</i> - integer <i>touTier</i> - integer <i>creationTime</i> - Struct <i>EventStatus</i> - integer <i>currentStatus</i> - integer <i>dateTime</i> - boolean <i>potentiallySuperseded</i> - integer <i>potentiallySupersededTime</i> - string <i>reason</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - array <i>responseRequired</i> - string <i>replyTo</i> - string <i>href</i> - integer <i>randomizeDuration</i> - integer <i>randomizeStart</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i> - uri <i>ConsumptionTariffIntervalListLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### MessagingProgramList

A List element to hold MessagingProgram objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
MessagingPrograms	Array <i>MessagingPrograms</i> : Struct <i>MessagingProgram</i> - string <i>locale</i> - integer <i>primacy</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>ActiveTextMessageListLink</i> - uri <i>TextMessageListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### TextMessageList

A List element to hold TextMessage objects.

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
TextMessages	Array <i>TextMessages</i> : Struct <i>TextMessage</i> - string <i>originator</i> - integer <i>priority</i> - string <i>textMessage</i> - integer <i>creationTime</i> - Struct <i>EventStatus</i> - integer <i>currentStatus</i> - integer <i>dateTime</i> - boolean <i>potentiallySuperseded</i> - integer <i>potentiallySupersededTime</i> - string <i>reason</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>replyTo</i> - array <i>responseRequired</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### BillingPeriodList

A List element to hold BillingPeriod objects.

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
BillingPeriods	Array <i>BillingPeriods</i> : Struct <i>BillingPeriod</i> - integer <i>billLastPeriod</i> - integer <i>billToDate</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>statusTimeStamp</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### BillingReadingList

A List element to hold BillingReading objects.

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
BillingReadings	Array <i>BillingReadings</i> : Struct <i>BillingReading</i> - Array <i>Charges</i> : Struct <i>Charge</i> - string <i>description</i> - integer <i>kind</i> - integer <i>value</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### BillingReadingSetList

A List element to hold BillingReadingSet objects.



**Data**

Name	Type	Optional	Writable	Readable	Eventable	Documentation
BillingReadingSets	Array <i>BillingReadingSets</i> : Struct <i>BillingReadingSet</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>BillingReadingListLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

**CustomerAccountList**

A List element to hold CustomerAccount objects.

**Data**

Name	Type	Optional	Writable	Readable	Eventable	Documentation
CustomerAccounts	Array <i>CustomerAccounts</i> : Struct <i>CustomerAccount</i> - integer <i>currency</i> - string <i>customerAccount</i> - string <i>customerName</i> - integer <i>pricePowerOfTenMultiplier</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>CustomerAgreementListLink</i> - uri <i>ServiceSupplierLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

**CustomerAgreementList**

A List element to hold CustomerAgreement objects.

**Data**

Name	Type	Optional	Writable	Readable	Eventable	Documentation
CustomerAgreements	Array <i>CustomerAgreements</i> : Struct <i>CustomerAgreement</i> - string <i>serviceAccount</i> - string <i>serviceLocation</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ActiveBillingPeriodListLink</i> - uri <i>ActiveProjectionReadingListLink</i> - uri <i>ActiveTargetReadingListLink</i> - uri <i>BillingPeriodListLink</i> - uri <i>HistoricalReadingListLink</i> - uri <i>PrepaymentLink</i> - uri <i>ProjectionReadingListLink</i> - uri <i>TargetReadingListLink</i> - uri <i>TariffProfileLink</i> - uri <i>UsagePointLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

**HistoricalReadingList**

A List element to hold HistoricalReading objects.

**Data**

Name	Type	Optional	Writable	Readable	Eventable	Documentation
HistoricalReadings	Array <i>HistoricalReadings</i> : Struct <i>HistoricalReading</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>BillingReadingSetListLink</i> - uri <i>ReadingTypeLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### ProjectionReadingList

A List element to hold ProjectionReading objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
ProjectionReadings	Array <i>ProjectionReadings</i> : Struct <i>ProjectionReading</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>BillingReadingSetListLink</i> - uri <i>ReadingTypeLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### TargetReadingList

A List element to hold TargetReading objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
TargetReadings	Array <i>TargetReadings</i> : Struct <i>TargetReading</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>BillingReadingSetListLink</i> - uri <i>ReadingTypeLink</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### ServiceSupplier

Organisation that provides services to Customers.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
email	string <i>email</i>	Yes	Yes	Yes	Yes	
phone	string <i>phone</i>	Yes	Yes	Yes	Yes	
providerID	integer <i>providerID</i>	Yes	Yes	Yes	Yes	
web	string <i>web</i>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	
mRID	array <i>mRID</i>	No	Yes	Yes	Yes	
description	string <i>description</i>	Yes	Yes	Yes	Yes	
version	integer <i>version</i>	Yes	Yes	Yes	Yes	

### AccountBalance

AccountBalance contains the regular credit and emergency credit balance for this given service or commodity prepay instance. It may also contain status information concerning the balance data.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
availableCredit	Struct <i>availableCredit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i>	No	Yes	Yes	Yes	
creditStatus	integer <i>creditStatus</i>	Yes	Yes	Yes	Yes	
emergencyCredit	Struct <i>emergencyCredit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
emergencyCreditStatus	integer <i>emergencyCreditStatus</i>	Yes	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### CreditRegisterList

A List element to hold CreditRegister objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteCreditRegister	href: string <i>href</i>	Yes	
None	CreateCreditRegister	CreditRegister: Struct <i>CreditRegister</i> - Struct <i>AccountingUnit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>creditType</i> - integer <i>effectiveTime</i> - string <i>token</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
CreditRegisters	Array <i>CreditRegisters</i> : Struct <i>CreditRegister</i> - Struct <i>AccountingUnit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>creditType</i> - integer <i>effectiveTime</i> - string <i>token</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### PrepaymentList

A List element to hold Prepayment objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteUsagePoint	href: string <i>href</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
Prepayments	Array <i>Prepayments</i> : Struct <i>Prepayment</i> - Struct <i>AccountingUnit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>AccountingUnit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>AccountingUnit</i> - Struct <i>RealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>monetaryUnit</i> - integer <i>multiplier</i> - integer <i>value</i> - integer <i>prepayMode</i> - Array <i>UsagePoints</i> : Struct <i>UsagePoint</i> - string <i>href</i> - array <i>roleFlags</i> - integer <i>serviceCategoryKind</i> - integer <i>status</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>MeterReadingListLink</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>AccountBalanceLink</i> - uri <i>ActiveCreditRegisterListLink</i> - uri <i>ActiveSupplyInterruptionOverrideListLink</i> - uri <i>CreditRegisterListLink</i> - uri <i>PrepayOperationStatusLink</i> - uri <i>SupplyInterruptionOverrideListLink</i> - uri <i>UsagePointLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### PrepayOperationStatus

PrepayOperationStatus describes the status of the service or commodity being conditionally controlled by the Prepayment function set.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
creditTypeChange	Struct <i>creditTypeChange</i> - integer <i>newType</i> - integer <i>startTime</i>	Yes	Yes	Yes	Yes	
creditTypeInUse	integer <i>creditTypeInUse</i>	Yes	Yes	Yes	Yes	
serviceChange	Struct <i>serviceChange</i> - integer <i>newStatus</i> - integer <i>startTime</i>	Yes	Yes	Yes	Yes	
serviceStatus	integer <i>serviceStatus</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### SupplyInterruptionOverrideList

A List element to hold SupplyInterruptionOverride objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
SupplyInterruptionOverrides	Array <i>SupplyInterruptionOverrides</i> : Struct <i>SupplyInterruptionOverride</i> - string <i>description</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>href</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### FlowReservationRequestList

A List element to hold FlowReservationRequest objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteFlowReservationRequest	href: string <i>href</i>	Yes	
None	CreateFlowReservationRequest	FlowReservationRequest: Struct <i>FlowReservationRequest</i> - integer <i>creationTime</i> - integer <i>durationRequested</i> - Struct <i>SignedRealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - Struct <i>ActivePower</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>RequestStatus</i> - integer <i>dateTime</i> - integer <i>requestStatus</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	No	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
FlowReservationRequests	Array <i>FlowReservationRequests</i> : Struct <i>FlowReservationRequest</i> - integer <i>creationTime</i> - integer <i>durationRequested</i> - Struct <i>SignedRealEnergy</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - Struct <i>ActivePower</i> - integer <i>multiplier</i> - integer <i>value</i> - Struct <i>RequestStatus</i> - integer <i>dateTime</i> - integer <i>requestStatus</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

### FlowReservationResponseList

A List element to hold FlowReservationResponse objects.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
FlowReservationResponses	Array <i>FlowReservationResponses</i> : Struct <i>FlowReservationResponse</i> <ul style="list-style-type: none"> <li>- Struct <i>RealEnergy</i> <ul style="list-style-type: none"> <li>- integer <i>multiplier</i></li> <li>- integer <i>value</i></li> </ul> </li> <li>- Struct <i>ActivePower</i> <ul style="list-style-type: none"> <li>- integer <i>multiplier</i></li> <li>- integer <i>value</i></li> </ul> </li> <li>- array <i>subject</i></li> <li>- integer <i>creationTime</i></li> <li>- Struct <i>EventStatus</i> <ul style="list-style-type: none"> <li>- integer <i>currentStatus</i></li> <li>- integer <i>dateTime</i></li> </ul> </li> <li>- boolean <i>potentiallySuperseded</i></li> <li>- integer <i>potentiallySupersededTime</i></li> <li>- string <i>reason</i></li> <li>- Struct <i>DateTimeInterval</i> <ul style="list-style-type: none"> <li>- integer <i>duration</i></li> <li>- integer <i>start</i></li> </ul> </li> <li>- array <i>responseRequired</i></li> <li>- string <i>replyTo</i></li> <li>- string <i>href</i></li> <li>- array <i>mRID</i></li> <li>- string <i>description</i></li> <li>- integer <i>version</i></li> <li>- integer <i>subscribable</i></li> </ul>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### DefaultDERControl

Contains control mode information to be used if no active DERControl is found.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
DERControlBase	Struct <i>DERControlBase</i> <ul style="list-style-type: none"> <li>- integer <i>opModFixedFlow</i></li> <li>- Struct <i>FixedPowerFactor</i> <ul style="list-style-type: none"> <li>- integer <i>displacement</i></li> <li>- integer <i>multiplier</i></li> </ul> </li> <li>- Struct <i>FixedVAR</i> <ul style="list-style-type: none"> <li>- integer <i>refType</i></li> <li>- integer <i>value</i></li> </ul> </li> <li>- integer <i>opModFixedW</i></li> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>CurvePairType</i> <ul style="list-style-type: none"> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> </ul> </li> <li>- Struct <i>CurvePairType</i> <ul style="list-style-type: none"> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> </ul> </li> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>DERCurveLink</i> <ul style="list-style-type: none"> <li>- string <i>href</i></li> </ul> </li> <li>- integer <i>rampTms</i></li> </ul>	No	Yes	Yes	Yes	
mRID	array <i>mRID</i>	No	Yes	Yes	Yes	
description	string <i>description</i>	Yes	Yes	Yes	Yes	
version	integer <i>version</i>	Yes	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### DERList

A List element to hold DER objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteDER	href: string <i>href</i>	Yes	
None	CreateDER	DER: Struct <i>DER</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>AssociatedDERProgramListLink</i> - uri <i>AssociatedUsagePointLink</i> - uri <i>CurrentDERProgramLink</i> - uri <i>DERAvailabilityLink</i> - uri <i>DERCapabilityLink</i> - uri <i>DERSettingsLink</i> - uri <i>DERStatusLink</i>	Yes	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
DERs	Array <i>DERs</i> : Struct <i>DER</i> - integer <i>subscribable</i> - string <i>href</i> - uri <i>AssociatedDERProgramListLink</i> - uri <i>AssociatedUsagePointLink</i> - uri <i>CurrentDERProgramLink</i> - uri <i>DERAvailabilityLink</i> - uri <i>DERCapabilityLink</i> - uri <i>DERSettingsLink</i> - uri <i>DERStatusLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

DERSettings

Distributed energy resource settings

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
setGenConnect	boolean <i>setGenConnect</i>	Yes	Yes	Yes	Yes	
setGradW	integer <i>setGradW</i>	No	Yes	Yes	Yes	
setMaxChargeRate	Struct <i>setMaxChargeRate</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setMaxDischargeRate	Struct <i>setMaxDischargeRate</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setMaxVA	Struct <i>setMaxVA</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setMaxVAr	Struct <i>setMaxVAr</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setMaxVArNeg	Struct <i>setMaxVArNeg</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setMaxW	Struct <i>setMaxW</i> - integer <i>multiplier</i> - integer <i>value</i>	No	Yes	Yes	Yes	
setMinPF	Struct <i>setMinPF</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setMinPFNeg	Struct <i>setMinPFNeg</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setStorConnect	boolean <i>setStorConnect</i>	Yes	Yes	Yes	Yes	
setVRef	Struct <i>setVRef</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
setVRefOfs	Struct <i>setVRefOfs</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
updatedAtTime	integer <i>updatedAtTime</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

DERAvailability

Indicates current reserve generation status

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
availabilityDuration	integer <i>availabilityDuration</i>	Yes	Yes	Yes	Yes	
maxChargeDuration	integer <i>maxChargeDuration</i>	Yes	Yes	Yes	Yes	
readingTime	integer <i>readingTime</i>	No	Yes	Yes	Yes	
reserveChargePercent	integer <i>reserveChargePercent</i>	Yes	Yes	Yes	Yes	
reservePercent	integer <i>reservePercent</i>	Yes	Yes	Yes	Yes	
statVArAvail	Struct <i>statVArAvail</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
statWAvail	Struct <i>statWAvail</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

DERCapability

Distributed energy resource type and nameplate ratings.

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
modesSupported	array <i>modesSupported</i>	No	Yes	Yes	Yes	
rtgA	Struct <i>rtgA</i> - integer <i>multiplier</i> - integer <i>value</i>	No	Yes	Yes	Yes	
rtgAh	Struct <i>rtgAh</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgMaxChargeRate	Struct <i>rtgMaxChargeRate</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgMaxDischargeRate	Struct <i>rtgMaxDischargeRate</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgMinPF	Struct <i>rtgMinPF</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgMinPFNeg	Struct <i>rtgMinPFNeg</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgVA	Struct <i>rtgVA</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgVAr	Struct <i>rtgVAr</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgVArNeg	Struct <i>rtgVArNeg</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
rtgW	Struct <i>rtgW</i> - integer <i>multiplier</i> - integer <i>value</i>	No	Yes	Yes	Yes	
rtgWh	Struct <i>rtgWh</i> - integer <i>multiplier</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
type	integer <i>type</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

DERControlList

A List element to hold DERControl objects.

Actions



Return Type	Name	Arguments	Optional	Documentation
None	DeleteDERControl	href: string <i>href</i>	Yes	
None	CreateDERControl	DERControl: Struct <i>DERControl</i> - Struct <i>DERControlBase</i> - integer <i>opModFixedFlow</i> - Struct <i>FixedPowerFactor</i> - integer <i>displacement</i> - integer <i>multiplier</i> - Struct <i>FixedVAr</i> - integer <i>refType</i> - integer <i>value</i> - integer <i>opModFixedW</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>CurvePairType</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>CurvePairType</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - integer <i>rampTms</i> - integer <i>creationTime</i> - Struct <i>EventStatus</i> - integer <i>currentStatus</i> - integer <i>dateTime</i> - boolean <i>potentiallySuperseded</i> - integer <i>potentiallySupersededTime</i> - string <i>reason</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - array <i>responseRequired</i> - string <i>replyTo</i> - string <i>href</i> - integer <i>randomizeDuration</i> - integer <i>randomizeStart</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i>	Yes	

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
DERControls	Array <i>DERControls</i> : Struct <i>DERControl</i> - Struct <i>DERControlBase</i> - integer <i>opModFixedFlow</i> - Struct <i>FixedPowerFactor</i> - integer <i>displacement</i> - integer <i>multiplier</i> - Struct <i>FixedVAr</i> - integer <i>refType</i> - integer <i>value</i> - integer <i>opModFixedW</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>CurvePairType</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>CurvePairType</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - Struct <i>DERCurveLink</i> - string <i>href</i> - integer <i>rampTms</i> - integer <i>creationTime</i> - Struct <i>EventStatus</i> - integer <i>currentStatus</i> - integer <i>dateTime</i> - boolean <i>potentiallySuperseded</i> - integer <i>potentiallySupersededTime</i> - string <i>reason</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - array <i>responseRequired</i> - string <i>replyTo</i> - string <i>href</i> - integer <i>randomizeDuration</i> - integer <i>randomizeStart</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>subscribable</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

## DERCurveList

A List element to hold DERCurve objects.

## Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteDERCurve	href: string <i>href</i>	Yes	
None	CreateDERCurve	DERCurve: Struct <i>DERCurve</i> - integer <i>creationTime</i> - Array <i>CurveDatas</i> : Struct <i>CurveData</i> - integer <i>excitation</i> - integer <i>xvalue</i> - integer <i>yvalue</i> - integer <i>curveType</i> - integer <i>rampDecTms</i> - integer <i>rampIncTms</i> - integer <i>rampPT1Tms</i> - integer <i>xMultiplier</i> - integer <i>yMultiplier</i> - integer <i>yRefType</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	Yes	

## Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
DERCurves	Array <i>DERCurves</i> : Struct <i>DERCurve</i> - integer <i>creationTime</i> - Array <i>CurveDatas</i> : Struct <i>CurveData</i> - integer <i>excitation</i> - integer <i>xvalue</i> - integer <i>yvalue</i> - integer <i>curveType</i> - integer <i>rampDecTms</i> - integer <i>rampIncTms</i> - integer <i>rampPT1Tms</i> - integer <i>xMultiplier</i> - integer <i>yMultiplier</i> - integer <i>yRefType</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	Yes	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### DERProgramList

A List element to hold DERProgram objects.

#### Actions

Return Type	Name	Arguments	Optional	Documentation
None	DeleteDERProgram	href: string <i>href</i>	Yes	
None	CreateDERProgram	DERProgram: Struct <i>DERProgram</i> - integer <i>primacy</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ActiveDERControlListLink</i> - uri <i>DefaultDERControlLink</i> - uri <i>DERControlListLink</i> - uri <i>DERCurveListLink</i>	Yes	

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
DERPrograms	Array <i>DERPrograms</i> : Struct <i>DERProgram</i> - integer <i>primacy</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - uri <i>ActiveDERControlListLink</i> - uri <i>DefaultDERControlLink</i> - uri <i>DERControlListLink</i> - uri <i>DERCurveListLink</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

#### DERStatus

DER status information.

#### Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
genConnectStatus	Struct <i>genConnectStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
inverterStatus	Struct <i>inverterStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
localControlModeStatus	Struct <i>localControlModeStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
manufacturerStatus	Struct <i>manufacturerStatus</i> - integer <i>dateTime</i> - string <i>value</i>	Yes	Yes	Yes	Yes	
operationalModeStatus	Struct <i>operationalModeStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
readingTime	integer <i>readingTime</i>	No	Yes	Yes	Yes	
stateOfChargeStatus	Struct <i>stateOfChargeStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
storageModeStatus	Struct <i>storageModeStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
storConnectStatus	Struct <i>storConnectStatus</i> - integer <i>dateTime</i> - integer <i>value</i>	Yes	Yes	Yes	Yes	
subscribable	integer <i>subscribable</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	

## MirrorUsagePointList

A List of MirrorUsagePoint instances.

## Actions

Return Type	Name	Arguments	Optional	Documentation
None	CreateMirrorMeterReading	MirrorMeterReading: Struct <i>MirrorMeterReading</i> - integer <i>lastUpdateTime</i> - Array <i>MirrorReadingSets</i> : Struct <i>MirrorReadingSet</i> - Array <i>Readings</i> : Struct <i>Reading</i> - array <i>localID</i> - integer <i>subscribable</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>nextUpdateTime</i> - Struct <i>Reading</i> - array <i>localID</i> - integer <i>subscribable</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i> - Struct <i>ReadingType</i> - integer <i>accumulationBehaviour</i> - Struct <i>UnitValueType</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i> - integer <i>commodity</i> - Struct <i>UnitValueType</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i>	No	

		<ul style="list-style-type: none"> <li>- integer <i>dataQualifier</i></li> <li>- integer <i>flowDirection</i></li> <li>- integer <i>intervalLength</i></li> <li>- integer <i>kind</i></li> <li>- integer <i>maxNumberOfIntervals</i></li> <li>- integer <i>numberOfConsumptionBlocks</i></li> <li>- integer <i>numberOfTouTiers</i></li> <li>- integer <i>phase</i></li> <li>- integer <i>powerOfTenMultiplier</i></li> <li>- integer <i>subIntervalLength</i></li> <li>- integer <i>supplyDisconnectLimit</i></li> <li>- integer <i>supplyLimit</i></li> <li>- integer <i>supplyWarningLimit</i></li> <li>- boolean <i>tieredConsumptionBlocks</i></li> <li>- integer <i>uom</i></li> <li>- string <i>href</i></li> <li>- string <i>href</i></li> <li>- array <i>mRID</i></li> <li>- string <i>description</i></li> <li>- integer <i>version</i></li> </ul>		
None	DeleteMirrorUsagePoint	href: string <i>href</i>	No	
None	DeleteReading	href: string <i>href</i>	Yes	
		MirrorUsagePoint: Struct <i>MirrorUsagePoint</i> <ul style="list-style-type: none"> <li>- array <i>deviceLFDI</i></li> <li>- Array <i>MirrorMeterReadings</i>:               <ul style="list-style-type: none"> <li>Struct <i>MirrorMeterReading</i> <ul style="list-style-type: none"> <li>- integer <i>lastUpdateTime</i></li> </ul> </li> <li>- Array <i>MirrorReadingSets</i>:               <ul style="list-style-type: none"> <li>Struct <i>MirrorReadingSet</i> <ul style="list-style-type: none"> <li>- Array <i>Readings</i>:                   <ul style="list-style-type: none"> <li>Struct <i>Reading</i> <ul style="list-style-type: none"> <li>- array <i>localID</i></li> <li>- integer <i>subscribable</i></li> <li>- integer <i>consumptionBlock</i></li> <li>- array <i>qualityFlags</i></li> <li>- Struct <i>DateTimeInterval</i> <ul style="list-style-type: none"> <li>- integer <i>duration</i></li> <li>- integer <i>start</i></li> </ul> </li> <li>- integer <i>touTier</i></li> <li>- integer <i>value</i></li> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>DateTimeInterval</i> <ul style="list-style-type: none"> <li>- integer <i>duration</i></li> <li>- integer <i>start</i></li> </ul> </li> <li>- string <i>href</i></li> <li>- array <i>mRID</i></li> <li>- string <i>description</i></li> <li>- integer <i>version</i></li> </ul> </li> <li>- integer <i>nextUpdateTime</i></li> </ul> </li> <li>- Struct <i>Reading</i> <ul style="list-style-type: none"> <li>- array <i>localID</i></li> <li>- integer <i>subscribable</i></li> <li>- integer <i>consumptionBlock</i></li> <li>- array <i>qualityFlags</i></li> <li>- Struct <i>DateTimeInterval</i> <ul style="list-style-type: none"> <li>- integer <i>duration</i></li> <li>- integer <i>start</i></li> </ul> </li> <li>- integer <i>touTier</i></li> <li>- integer <i>value</i></li> <li>- string <i>href</i></li> </ul> </li> <li>- Struct <i>ReadingType</i> <ul style="list-style-type: none"> <li>- integer <i>accumulationBehaviour</i></li> </ul> </li> <li>- Struct <i>UnitValueType</i> <ul style="list-style-type: none"> <li>- integer <i>multiplier</i></li> <li>- integer <i>unit</i></li> <li>- integer <i>value</i></li> </ul> </li> <li>- integer <i>commodity</i></li> <li>- Struct <i>UnitValueType</i> <ul style="list-style-type: none"> <li>- integer <i>multiplier</i></li> <li>- integer <i>unit</i></li> <li>- integer <i>value</i></li> </ul> </li> <li>- integer <i>dataQualifier</i></li> <li>- integer <i>flowDirection</i></li> <li>- integer <i>intervalLength</i></li> <li>- integer <i>kind</i></li> <li>- integer <i>maxNumberOfIntervals</i></li> <li>- integer <i>numberOfConsumptionBlocks</i></li> <li>- integer <i>numberOfTouTiers</i></li> <li>- integer <i>phase</i></li> <li>- integer <i>powerOfTenMultiplier</i></li> <li>- integer <i>subIntervalLength</i></li> <li>- integer <i>supplyDisconnectLimit</i></li> <li>- integer <i>supplyLimit</i></li> <li>- integer <i>supplyWarningLimit</i></li> <li>- boolean <i>tieredConsumptionBlocks</i></li> <li>- integer <i>uom</i></li> <li>- string <i>href</i></li> </ul> </li> </ul> </li></ul>		
None	CreateMirrorUsagePoint		No	

		<ul style="list-style-type: none"><li>- string <i>href</i></li><li>- array <i>mRID</i></li><li>- string <i>description</i></li><li>- integer <i>version</i></li></ul>		
		<ul style="list-style-type: none"><li>- string <i>href</i></li><li>- array <i>roleFlags</i></li><li>- integer <i>serviceCategoryKind</i></li><li>- integer <i>status</i></li><li>- array <i>mRID</i></li><li>- string <i>description</i></li><li>- integer <i>version</i></li></ul>		

Data

Name	Type	Optional	Writable	Readable	Eventable	Documentation
MirrorUsagePoints	Array <i>MirrorUsagePoints</i> : Struct <i>MirrorUsagePoint</i> - array <i>deviceLFDI</i> - Array <i>MirrorMeterReadings</i> : Struct <i>MirrorMeterReading</i> - integer <i>lastUpdateTime</i> - Array <i>MirrorReadingSets</i> : Struct <i>MirrorReadingSet</i> - Array <i>Readings</i> : Struct <i>Reading</i> - array <i>localID</i> - integer <i>subscribable</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - integer <i>nextUpdateTime</i> - Struct <i>Reading</i> - array <i>localID</i> - integer <i>subscribable</i> - integer <i>consumptionBlock</i> - array <i>qualityFlags</i> - Struct <i>DateTimeInterval</i> - integer <i>duration</i> - integer <i>start</i> - integer <i>touTier</i> - integer <i>value</i> - string <i>href</i> - Struct <i>ReadingType</i> - integer <i>accumulationBehaviour</i> - Struct <i>UnitValueType</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i> - integer <i>commodity</i> - Struct <i>UnitValueType</i> - integer <i>multiplier</i> - integer <i>unit</i> - integer <i>value</i> - integer <i>dataQualifier</i> - integer <i>flowDirection</i> - integer <i>intervalLength</i> - integer <i>kind</i> - integer <i>maxNumberOfIntervals</i> - integer <i>numberOfConsumptionBlocks</i> - integer <i>numberOfTouTiers</i> - integer <i>phase</i> - integer <i>powerOfTenMultiplier</i> - integer <i>subIntervalLength</i> - integer <i>supplyDisconnectLimit</i> - integer <i>supplyLimit</i> - integer <i>supplyWarningLimit</i> - boolean <i>tieredConsumptionBlocks</i> - integer <i>uom</i> - string <i>href</i> - string <i>href</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i> - string <i>href</i> - array <i>roleFlags</i> - integer <i>serviceCategoryKind</i> - integer <i>status</i> - array <i>mRID</i> - string <i>description</i> - integer <i>version</i>	Yes	Yes	Yes	Yes	
all	integer <i>all</i>	No	Yes	Yes	Yes	
results	integer <i>results</i>	No	Yes	Yes	Yes	
href	string <i>href</i>	No	Yes	Yes	Yes	