

Attribute Value Change & State Change Notifications

Abstract

This document defines the minimum required notification for all attributes contained in the resource objects (Table 1) and service objects (Table 2).

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1 Introduction

The following attributes (with the names as specified in the tables below) should be reported via an Attribute Value Change (AVC) notification or a State Change (SC) notification as indicated. The table lists the minimum set of attributes for which the target OS is expected to provide AVCs/SCs; the target OS is allowed to provide AVCs/SCs for any other attribute of the objects, even if they are not listed in the tables.

2 Notification Requirements

2.1 Resource Objects

Table 1. Resource Objects

ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
AID	Not valid	Not valid
ASAP	userLabel owner aliasNameList alarmSeverityAssignmentList vendorExtensions	resourceState
CALL	userLabel owner aliasNameList networkAccessDomain callDiversity diversityViolations vendorExtensions	resourceState callState
CONNECTION	userLabel owner aliasNameList networkAccessDomain asapPointer routeGroupLabel usingHomeRoute vendorExtensions	resourceState connectionState
CTP	userLabel owner aliasNameList networkAccessDomain ingressTransmissionDescriptorName egressTransmissionDescriptorName tpMappingMode transmissionParams tpProtectionAssociation edgePoint vendorExtensions	resourceState egressTMDState ingressTMDState connectionState, transmissionParams

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ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
EQ	userLabel owner aliasNameList networkAccessDomain alarmReportingIndicator expectedEquipmentObjectType installedEquipmentObjectType installedVersion protectionRole aSAPpointer vendorExtensions	resourceState resourceFulfillmentState protectionSchemeState
EH	userLabel owner aliasNameList networkAccessDomain alarmReportingIndicator holderType acceptableEquipmentTypeList expectedOrInstalledEquipment location aSAPpointer vendorExtensions	resourceState holderState
EPGP	userLabel owner aliasNameList networkAccessDomain reversionMode aSAPpointer protectedList protectingList vendorExtensions	resourceState protectionSchemeState
FTP	userLabel owner aliasNameList networkAccessDomain ingressTransmissionDescriptorName egressTransmissionDescriptorName tpMappingMode direction transmissionParams tpProtectionAssociation edgePoint vendorExtensions	resourceState egressTMDState ingressTMDState connectionState, transmissionParams
FD	userLabel owner aliasNameList networkAccessDomain fdType transmissionParams vendorExtensions	resourceState fdConnectivityState

ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
FDFr	userLabel owner aliasNameList networkAccessDomain transmissionParams aEnd zEnd vendorExtensions	resourceState administrativeState fdfrState
GTP	userLabel owner aliasNameList networkAccessDomain tpList aSAPpointer alarmReportingIndicator vendorExtensions	resourceState gtpConnectionState
MD	userLabel owner aliasNameList networkAccessDomain vendorExtensions	resourceState
ME	userLabel owner aliasNameList networkAccessDomain location version productName supportedRates aSAPpointer vendorExtensions	resourceState communicationState inSyncState
MFD	userLabel owner aliasNameList networkAccessDomain transmissionParams vendorExtensions	resourceState transmissionParams
MFDFr	transmissionParams	transmissionParams
MLSN	userLabel owner aliasNameList networkAccessDomain supportedRates vendorExtensions	resourceState

ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
OS	userLabel owner aliasNameList networkAccessDomain softwareVersion asapPointer vendorExtensions	resourceState resourceFulfillmentState
PTP	userLabel owner aliasNameList networkAccessDomain direction ingressTransmissionDescriptorName egressTransmissionDescriptorName transmissionParams tpProtectionAssociation edgePoint vendorExtensions	resourceState egressTMDState ingressTMDState transmissionParams
PMP	userLabel owner aliasNameList networkAccessDomain pmParameterWithThresholdsList vendorExtensions	resourceState monitoringState supervisionState
PGP	userLabel owner aliasNameList networkAccessDomain reversionMode apsProtocolType aSAPpointer vendorExtensions	resourceState protectionSchemeState
SNC	userLabel owner aliasNameList networkAccessDomain direction staticProtectionLevel sncType alarmReportingIndicator networkReroute correlationId revertive priority routeGroupLabel retainOldSNC aSAPpointer aEnd zEnd vendorExtensions	resourceState sncState

ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
TCA_PARAMETER_PROFILE	userLabel owner aliasNameList networkAccessDomain tcaParameterList vendorExtensions	resourceState
TpPool	userLabel owner aliasNameList networkAccessDomain numberOfMembers numberOfIdleMembers descriptionOfUse transmissionParams vendorExtensions	resourceState
TL	userLabel owner aliasNameList networkAccessDomain alarmReportingIndicator aSAPpointer vendorExtensions	resourceState
TcProfile	userLabel owner aliasNameList networkAccessDomain transmissionParams vendorExtensions	resourceState
TMD	userLabel owner aliasNameList networkAccessDomain transmissionParams additionalObjectInfo vendorExtensions	resourceState

2.2 Service Objects

Table 2. Service Objects

ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
Customer Facing Service (CFS)	userLabel owner aliasNameList subscriberReferenceList sapReferenceList serviceInstanceCharacteristics vendorExtensions	adminState serviceState operationalState
Resource Facing Service (RFS)	userLabel owner aliasNameList description sapReferenceList serviceInstanceCharacteristics vendorExtensions	adminState serviceState operationalState
Service Access Point (SAP)	userLabel owner aliasNameList description subscriberReferenceList resourceReference vendorExtensions	adminState serviceState operationalState
SAPSpecification	userLabel owner aliasNameList description vendorExtensions	
Service Catalog	userLabel owner aliasNameList description serviceSpecCharacteristicReferenceList serviceDefinitionReferenceList serviceTemplateReferenceList vendorExtensions	
Service Definition	userLabel owner aliasNameList description version activationMode sapSpec characterizedByList status dependencies productSpecificationReference vendorExtensions	

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ObjectType	Attributes sending Attribute Value Change Notifications	Attributes sending State Change Notifications
Service Template	userLabel owner aliasNameList description version source serviceLocation characterizedByList status productOfferingReference vendorExtensions	
Service Order	requestedCompletionDate expectedCompletionDate interactionDateComplete validFor description priority serviceOrderItemReferenceList failedOrderItemReferenceList	state
Service Order Item	description	

3 Administrative Appendix

3.1 Document History

Version Number	Date Modified	Modified by:	Description of changes
1.0	May 2005	Stephen Fratini	This is the first version and as such, there are no changes to report.
1.1	July 2006	Stephen Fratini	Added "location" to the AVC table for EH.
2.0.1	October 2007	Stephen Fratini	Made SD more generic so that it can be used for MTNM and MTOSI. Added a table for service objects.
2.0.2	November 2007	Bernd Zeuner	Converted into new SD template. Missing attributes from MTOSI CommonResourceInfo added. "serviceState" attribute replaced by "resourceFulfillmentState" in table 1. "additionalTPInfo" attribute replaced by "additionalObjectInfo" in the TMD object

3.2 Acknowledgments

First Name	Last Name	Company

3.3 How to comment on this document

Comments and requests for information must be in written form and addressed to the contact identified below:

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Please be specific, since your comments will be dealt with by the team evaluating numerous inputs and trying to produce a single text. Thus we appreciate significant specific input. We are looking for more input than wordsmith” items, however editing and structural help are greatly appreciated where better clarity is the result.