

Traceability between IA and SS

1 Introduction

For traceability purposes between the Information Agreement (IA) and the Solution Set (SS), this supporting document lists all objects (attributes, relationships and operations), enums, strings and structs defined in the IA and associates them with the respective IDL definitions in the SS.

Chapter 4 contains conventions (rules) which have to be taken into account when creating a protocol specific specification (in our case IDL) based on the IA.

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3 Notation

The IDL uses the following notations:

OT_... = Object Type

NT_... = Notification Type

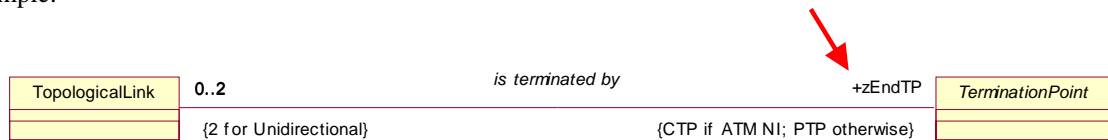
..._T = Data Struct (second level object)

..._I = CORBA Interface

4 UML rules (Relationships versus attributes and operations)

1. If class A has an association with class B and class B plays a public (+) role in this association, then the **name** of the class B instance shall be part of the information when class A is retrieved via the interface (i.e. name of class B instance shall be implemented as an attribute of class A).

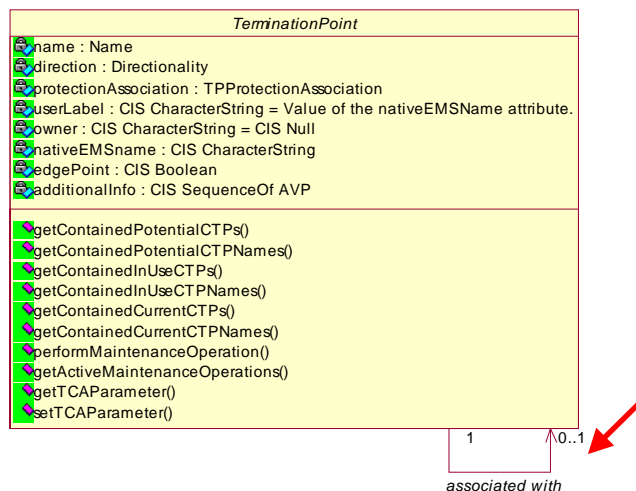
Example:



IDL: zEndTP will become an attribute of the TopologicalLink struct and contains the name of the TP.

2. Associations without any role names are just for explanation to the reader of the model and will not be implemented unless a specific operation or attribute asks for it.

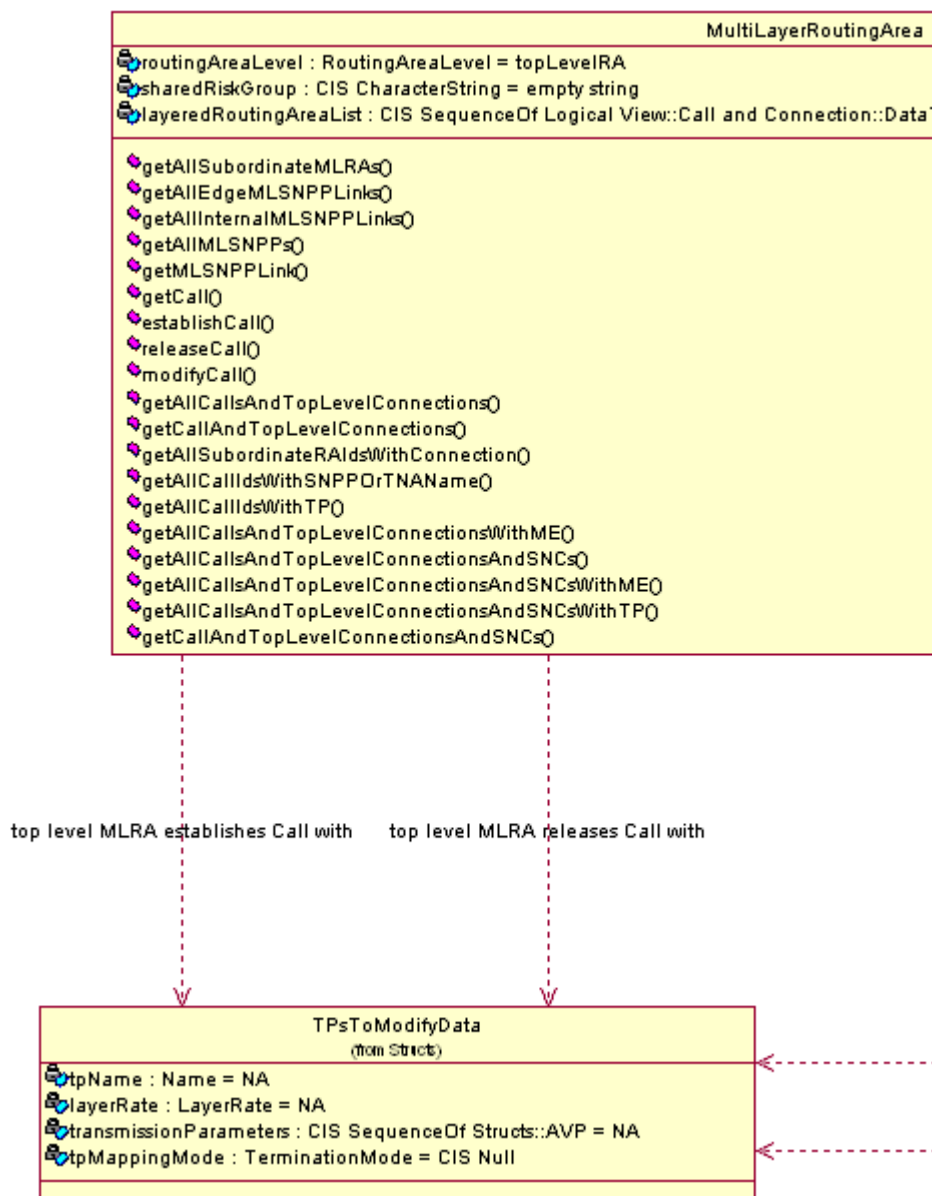
Example:



3. Dependency Relationships are used to show the utilisation of a class by another class. These relationships do not have cardinalities. They are just for explanation to the reader of the model and need

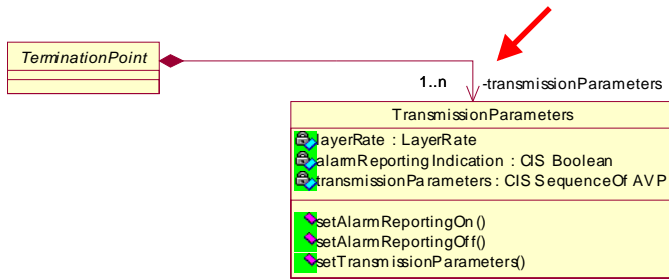
not be taken into account in the Implementation Statement.

Example:



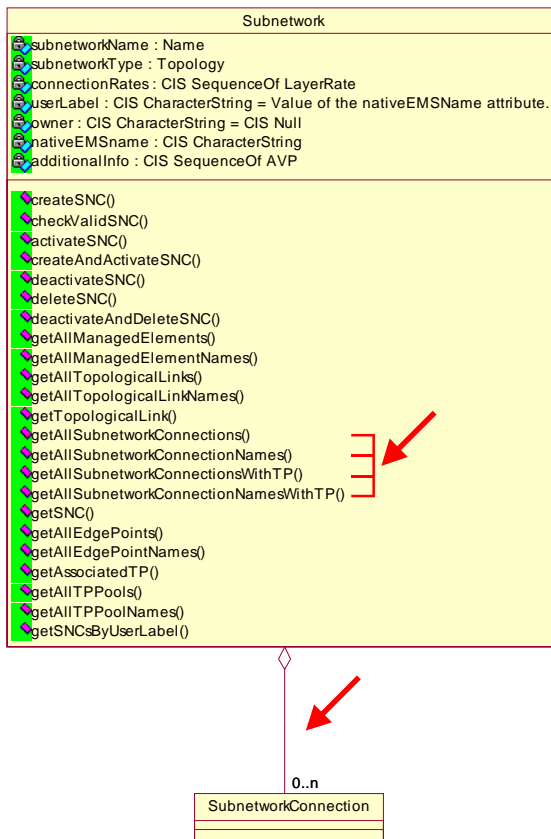
- If class A has a Containment or Composition relationship with class B and class B plays a private (-) role in this relationship, then the contained information of class B shall be part of the information when class A is retrieved via the interface (i.e. attributes of class B shall be retrieved together with attributes of class A).

Example:



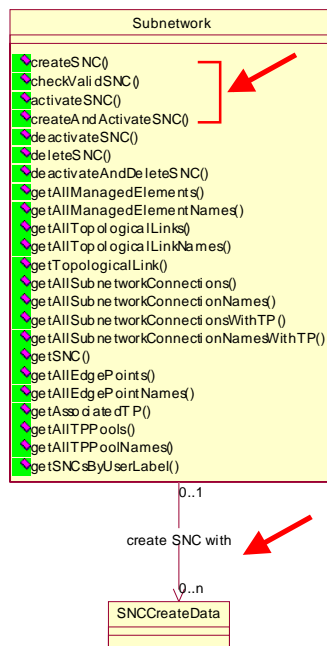
5. Containment and Composition relationships without any role names are just for explanation to the reader of the model and will be used for naming unless a specific operation or attribute asks for it.

Example:



6. Dependency relationships are just for explanation to the reader of the model. No special care has to be taken in the protocol specific part; they are usually modelled in operations of the dependent class.

Example:



5 Objects

5.1 AID

IA	SS	Comment
AID	OT_AID in NT_ALARM	
Attributes		None
Relationships		None
Operations		None

5.2 ASAPCreateModifyData

IA	SS	Comment
ASAPCreateModifyData	ASAPCreateModifyData_T	
Attributes		
userLabel	userLabel of ASAPCreateModifyData_T	
forceUniqueness	forceUniqueness of ASAPCreateModifyData_T	
owner	owner of ASAPCreateModifyData_T	

IA	SS	Comment
alarmSeverityAssignmentList	alarmSeverityAssignmentList of ASAPCreateModifyData_T	
additionalInfo	additionalInfo of ASAPCreateModifyData_T	
Relationships		None
Operations		None

5.3 AlarmInformation

IA	SS	Comment
AlarmInformation derived from EventInformation	NT_ALARM	
Attributes		
isClearable	"isClearable"	
probableCause	"probableCause"	
nativeEMSName	"nativeEMSName"	
nativeProbableCause	"nativeProbableCause"	
layer	"layerRate"	
probableCauseQualifier	"probableCauseQualifier"	
additionalText	"additionalText"	
perceivedSeverity	"perceivedSeverity"	
affectedPTPs	"affectedTPLList"	
serviceAffecting	"serviceAffecting"	
rootCauseAlarmIndication	"rcaiIndicator"	
acknowledgeIndication	"acknowledgeIndication"	
X.733::EventType	"X.733::EventType"	
X.733::SpecificProblems	"X.733::SpecificProblems"	
X.733::BackedUpStatus	"X.733::BackedUpStatus"	
X.733::BackUpObject	"X.733::BackUpObject"	
X.733::TrendIndication	"X.733::TrendIndication"	

IA	SS	Comment
X.733::CorrelatedNotifications	"X.733::CorrelatedNotifications"	
X.733::MonitoredAttributes	"X.733::MonitoredAttributes"	
X.733::ProposedRepairActions	"X.733::ProposedRepairActions"	
X.733::AdditionalInformation	"X.733::AdditionalInfo"	
Relationships		
<i>retrieve active</i> to ManagedElement	ManagedElementMgr_I:: getAllActiveAlarms	
<i>retrieve active</i> to EMS	EMS::getAllEMSAndMEActiveAlarms	
Operations		none

5.4 AlarmSeverityAssignmentProfile

IA	SS	Comment
AlarmSeverityAssignmentProfile derived from CommonResourceInfo	ASAP_T	
Attributes		
fixed	fixed of ASAP_T	
alarmSeverityAssignmentList	alarmSeverityAssignmentList of ASAP_T	
Relationships		
to EMS	"ASAPpointer" in additionalInfo of EMS_T	
to EquipmentHolder	"ASAPpointer" in additionalInfo of EquipmentHolder_T	
to Equipment	"ASAPpointer" in additionalInfo of Equipment_T	
to ProtectionGroup	"ASAPpointer" in additionalInfo of ProtectionGroup_T	
to TopologicalLink	"ASAPpointer" in additionalInfo of TopologicalLink_T	
to TerminationPoint	"ASAPpointer" in transmissionParams of TerminationPoint_T	
to SubnetworkConnection	"ASAPpointer" in additionalInfo of SubnetworkConnection_T	
to EquipmentProtectionGroup	"ASAPpointer" in additionalInfo of EProtectionGroup_T	
to GroupTerminationPoint	"ASAPpointer" in additionalInfo of GPT_T	
to ManagedElement	"ASAPpointer" in additionalInfo of ManagedElement_T	

IA	SS	Comment
to EMS	ASAP naming 1. "CompanyName/EMSname" 2. "AlarmSeverityAssignmentProfileName"	
Operations		
getASAPAssociatedResourceNames	ManagedElementMgr_I::getASAPAssociatedResourceNames	

5.5 Attribute

IA	SS	Comment
Attribute	NT_ATTRIBUTE_VALUE_CHANGE NT_STATE_CHANGE	
Attributes		
id	"attributeList"	
value	"attributeList"	
Relationships		
to ObjectInformation	within same filterable_data	
Operations		none

5.6 Call

IA	SS	Comment
Call derived from CommonResourceInfo	Call_T	
Attributes		
callId	callId of Call_T	CallId is only available in a Control Plane context.
networkAccessDomain	networkAccessDomain of Call_T	
aEnd	aEnd of Call_T with structure CallEnd_T. The value of this attribute is in one or more of the following name types: <ul style="list-style-type: none"> CallEnd_T.tNANameOrGroupTNAName: provides either a TNA or a Group-TNA Name for the call end. It is possible to specify to any depth of substructure (e.g. logical port identifier, index). 	

IA	SS	Comment
	<ul style="list-style-type: none"> CallEnd_T.sNPPid: the control plane identifier of the SNPP at the end of the call. CallEnd_T.sNPid: the control plane identifier of the SNP at the end of the call. CallEnd_T.tpName: represents the name of the TP at the end of the call. One of the end TPs of the Call can be an "off-network" TP (i.e., outside the EMS domain and therefore addressed by a remote address. <p>See SD1-25 Object Naming for further detail.</p>	
zEnd	zEnd of Call_T with structure CallEnd_T (see aEnd)	
callState	callState of Call_T	
callParameters	callParameters of Call_T	
callDiversity	callDiversity of Call_T	
diversityViolations	<p>Mapped to several attributes of Call_T:</p> <ul style="list-style-type: none"> diversitySynthesis linkDiversityViolations nodeDiversityViolations linkPartialDiversityList nodePartialDiversityList 	IA diversity-Violations attribute has internal structure corresponding to SS attributes
Relationships		
to EMS	<p>Call naming:</p> <ol style="list-style-type: none"> "CompanyName/EMSname" "CallName" 	
<i>Call_is_terminated_by_aEnd_TP</i> to TerminationPoint	aEnd of Call_T	These are the various kinds of aEnds and zEnds that are allowed by the CallEnd_T syntax of aEnd and zEnd attributes.
<i>Call_is_terminated_by_zEnd_TP</i> to TerminationPoint	zEnd of Call_T	
<i>Call_is_terminated_by_aEnd_SNPP</i> to SNPP	aEnd of Call_T	
<i>Call_is_terminated_by_zEnd_SNPP</i> to SNPP	zEnd of Call_T	
<i>Call_is_terminated_by_aEnd_SNP</i> to SNP	aEnd of Call_T	
<i>Call_is_terminated_by_zEnd_SNP</i> to SNP	zEnd of Call_T	

IA	SS	Comment
Operations		
getConnection	MultiLayerSubnetworkMgr_I::getSNC	Connection is represented by SNC
getAllConnectionsWithMLSNPPLinks	Implemented by MultiLayerSubnetworkMgr_I::getConnectionsAndRouteDetails. See SD1-45 ASONControlPlaneManagement-Primer .	
addConnections	MultiLayerSubnetworkMgr_I::addConnections	
removeConnections	MultiLayerSubnetworkMgr_I::removeConnections	
modifyDiversityAndCorouting	MultiLayerSubnetworkMgr_I::modifyDiversityAndCorouting	

5.7 callCreateData

IA	SS	Comment
CallCreateData	CallCreateData_T	
Attributes		
callName	callName of CallCreateData_T	
userLabel	userLabel of CallCreateData_T	
forceUniqueness	forceUniqueness of CallCreateData_T	
owner	owner of CallCreateData_T	
networkAccessDomain	networkAccessDomain of CallCreateData_T	
aEnd	aEnd of CallCreateData_T	
zEnd	zEnd of CallCreateData_T	
callParameters	callParameters of CallCreateData_T	
callDiversity	callDiversity of CallCreateData_T	
additionalInfo	additionalCreationInfo of CallCreateData_T	
Relationships		none
Operations		none

5.8 callModifyData

IA	SS	Comment
CallModifyData	CallModifyData_T	

IA	SS	Comment
	(also parameters of the operation: MultiLayerSubnetworkMgr_I::modifyCall)	
Attributes		
callName	callName parameter of modifyCall.	
userLabel	userLabel of CallModifyData _T	
forceUniqueness	forceUniqueness of CallModifyData _T	
owner	owner of CallModifyData _T	
networkAccessDomain	networkAccessDomain of CallModifyData _T	
additionalInfo	additionalModificationInfo of CallModifyData _T	
Relationships		none
Operations		none

5.9 callParameterProfile

IA	SS	Comment
CallParameterProfile	CallParameterProfile_T	
Attributes		
degradedThreshold	degradedThreshold of CallParameterProfile_T	
severelyDegradedThreshold	severelyDegradedThreshold of CallParameterProfile_T	Typo in IA attribute
classOfService	classOfService of CallParameterProfile_T	
classOfServiceParameters	classOfServiceParameters of CallParameterProfile_T	
Relationships		none
Operations		none

5.10 CommonCreateModifyData

IA	SS	Comment
CommonCreateModifyData	part of - FDCreateData_T - FDModifyData_T - FDFrCreateData_T - MFDCreateData_T - MFDMModifyData_T	

IA	SS	Comment
Attributes		
userLabel	userLabel of FDCreateData_T userLabel of FDModifyData_T userLabel of FDFrCreateData_T userLabel of MFDCreateData_T userLabel of MFDMCreateData_T	
forceUniqueness	forceUniqueness of FDCreateData_T forceUniqueness of FDModifyData_T forceUniqueness of FDFrCreateData_T forceUniqueness of MFDCreateData_T forceUniqueness of MFDMModifyData_T	
owner	owner of FDCreateData_T owner of FDModifyData_T owner of FDFrCreateData_T owner of MFDCreateData_T owner of MFDMModifyData_T	
networkAccessDomain	networkAccessDomain of FDCreateData_T networkAccessDomain of FDModifyData_T networkAccessDomain of FDFrCreateData_T networkAccessDomain of MFDCreateData_T networkAccessDomain of MFDMModifyData_T	
additionalInfo	additionalCreationInfo of FDCreateData_T additionalModificationInfo of FDModifyData_T additionalCreationInfo of FDFrCreateData_T additionalCreationInfo of MFDCreateData_T additionalCreationInfo of MFDMModifyData_T	
Relationships		none
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of FDCreateData_T transmissionParams of FDModifyData_T transmissionParams of FDFrCreateData_T transmissionParams of MFDCreateData_T transmissionParams of MFDMModifyData_T	
Operations		none

5.11 CommonResourceInfo

IA	SS	Comment
CommonResourceInfo	Common_I	
Attributes		
name	Parameter name of "second class" CORBA objects (e.g. TerminationPoint_T)	

IA	SS	Comment
userLabel	Parameter userLabel of "second class" CORBA objects (e.g. TerminationPoint_T)	
owner	Parameter owner of "second class" CORBA objects (e.g. TerminationPoint_T)	
nativeEMSName	Parameter nativeEMSName of "second class" CORBA objects (e.g. TerminationPoint_T)	
additionalInfo	Parameter additionalInfo of "second class" CORBA objects (e.g. TerminationPoint_T)	
Relationships		none
Operations		
setNativeEMSName	Common_I::setNativeEMSName	
setOwner	Common_I::setOwner	
setUserLabel	Common_I::setUserLabel	
setNetworkAccessDomain	Common_I::setAdditionalInfo	
setAdditionalInfo	Common_I::setAdditionalInfo	

5.12 CommonTransmissionParameters

IA	SS	Comment
CommonTransmissionParameters	LayeredParameterList_T	
Attributes		
layerRate	layer of LayeredParameters_T	
transmissionParameters	transmissionParams of LayeredParameters_T	
Relationships		
to TPPool	transmissionParams of TerminationPoint_T	
Operations		none

5.13 Connection

IA	SS	Comment
Connection derived from CommonResourceInfo	SubnetworkConnection_T	
Attributes		
connectionID	connectionId in additionalInfo of SubnetworkConnection_T	
layerRate	rate of SubnetworkConnection_T	
aEnd	One or several of the following: <ul style="list-style-type: none"> • aEnd of SubnetworkConnection_T • AEndTPLList in additionalInfo of SubnetworkConnection_T • AEndTNANameOrGroupTNAName in additionalInfo of SubnetworkConnection_T • AEndTNANameList in additionalInfo of SubnetworkConnection_T 	
zEnd	One or several of the following: <ul style="list-style-type: none"> • zEnd of SubnetworkConnection_T • ZEndTPLList in additionalInfo of SubnetworkConnection_T • ZEndTNANameOrGroupTNAName in additionalInfo of SubnetworkConnection_T • ZEndTNANameList in additionalInfo of SubnetworkConnection_T 	
direction	direction of SubnetworkConnection_T	
rerouteAllowed	rerouteAllowed of SubnetworkConnection_T	
staticProtectionLevel	staticProtectionLevel of SubnetworkConnection_T	
maximumCost	maximumCost in additionalInfo of SubnetworkConnection_T	
protectionEffort	protectionEffort in additionalInfo of SubnetworkConnection_T	TB added to additionalInfo
routingConstraintEffort	routingConstraintEffort in additionalInfo of SubnetworkConnection_T	
connectionType	sncType of SubnetworkConnection_T	
connectionSetupType	connectionSetupType in additionalInfo of SubnetworkConnection_T	

IA	SS	Comment
connectionState	ConnectionState in additionalInfo of SubnetworkConnection_T	
revertive	SNC_REVERTIVE in additionalInfo of SubnetworkConnection_T	
networkAccessDomain	NetworkAccessDomain in additionalInfo of SubnetworkConnection_T	
priority	SNC_PRIORITY in additionalInfo of SubnetworkConnection_T	
alarmReportingIndication	AlarmReporting in additionalInfo of SubnetworkConnection_T	
asapPointer	ASAPpointer in additionalInfo of SubnetworkConnection_T	
routeGroupLabel	routeGroupLabel in additionalInfo of SubnetworkConnection_T	
usingHomeRoute	UsingHomeRoute in additionalInfo of SubnetworkConnection_T !	
Relationships		
to EMS	Connection naming: 1."CompanyName/EMSname" 2."ConnectionName"	
<i>supportingSNCs</i> to SubnetworkConnection	Implemented by MultiLayerSubnetworkMgr_I::getConnectionsAndRouteDetails. See SD1-45_ASONControlPlaneManagement-Primer .	
<i>callId</i> to Call	CallId in additionalInfo of SubnetworkConnection_T	
Operations		
getRouteAndMLSNPPLinks	Implemented by MultiLayerSubnetworkMgr_I::getConnectionsAndRouteDetails. See SD1-45_ASONControlPlaneManagement-Primer .	
setAlarmReportingOff	Common_I::setAdditionalInfo (write value "Off" to AlarmReporting in additionalInfo of SubnetworkConnection_T)	
setAlarmReportingOn	Common_I::setAdditionalInfo (write value "On" to AlarmReporting in additionalInfo of SubnetworkConnection_T)	
getRoute	MultiLayerSubnetworkMgr_I::getRoute	
getBackupRoutes	MultiLayerSubnetworkMgr_I::getBackupRoutes	
switchRoute	MultiLayerSubnetworkMgr_I::switchRoute	

IA	SS	Comment
addRoute	MultiLayerSubnetworkMgr_I::addRoute	
removeRoute	MultiLayerSubnetworkMgr_I::removeRoute	
setIntendedRoute	MultiLayerSubnetworkMgr_I::setIntendedRoute	
getIntendedRoute	MultiLayerSubnetworkMgr_I::getIntendedRoute	
setRoutesAdminState	Common_I::setAdditionalInfo (write to RouteAdminState in additionalInfo of SubnetworkConnection_T)	

5.14 ConnectionCreateData

IA	SS	Comment
ConnectionCreateData	SNCCreateData_T	
Attributes		
connectionName	connectionName in additionalCreationInfo of SNCCreateData_T	
userLabel	userLabel of SNCCreateData_T	
forceUniqueness	forceUniqueness of SNCCreateData_T	
owner	owner of SNCCreateData_T	
connectionID	connectionId in additionalCreationInfo of SNCCreateData_T	
layerRate	layerRate of SNCCreateData_T	
aEnd	aEnd of SNCCreateData_T aEndTPLList of SNCCreateData_T aEndTNANameOrGroupTNAName of SNCCreateData_T	
zEnd	zEnd of SNCCreateData_T zEndTPLList of SNCCreateData_T zEndTNANameOrGroupTNAName of SNCCreateData_T	
direction	direction of SNCCreateData_T	
rerouteAllowed	rerouteAllowed of SNCCreateData_T	
staticProtectionLevel	staticProtectionLevel of SNCCreateData_T	
maximumCost	maximumCost in additionalCreationInfo of SNCCreateData_T	
protectionEffort	protectionEffort of SNCCreateData_T	

IA	SS	Comment
routingConstraintEffort	routingConstraintEffort in additionalCreationInfo of SNCCreateData_T	
connectionType	sncType of SNCCreateData_T	
connectionSetupType	connectionSetupType in additionalCreationInfo of SNCCreateData_T	
revertive	SNC_REVERTIVE in additionalCreationInfo of SNCCreateData_T	
networkAccessDomain	NetworkAccessDomain in additionalCreationInfo of SNCCreateData_T	
priority	SNC_PRIORITY in additionalCreationInfo of SNCCreateData_T	
alarmReportingIndication	AlarmReporting in additionalCreationInfo of SNCCreateData_T	
asapPointer	ASAPpointer in additionalCreationInfo of SNCCreateData_T	
routeGroupLabel	routeGroupLabel in additionalCreationInfo of SNCCreateData_T	
additionalInfo	additionalCreationInfo of SNCCreateData_T	
Relationships		
<i>mlsnppLinkExclusions</i> to MultiLayerSNPPLink	neTpSncExclusions in SNCCreateData_T	
<i>mlsnppLinkInclusions</i> to MultiLayerSNPPLink	neTpInclusions in SNCCreateData_T	
<i>ccInclusions</i> to CrossConnect	ccInclusions in SNCCreateData_T	
<i>neInclusions</i> to ManagedElement	neTpInclusions in SNCCreateData_T	
<i>neExclusions</i> to ManagedElement	neTpSncExclusions in SNCCreateData_T	
<i>mlraExclusions</i> to MultiLayerRoutingArea	neTpSncExclusions in SNCCreateData_T	
<i>mlraInclusions</i> to MultiLayerRoutingArea	neTpInclusions in SNCCreateData_T	
<i>snpInclusions</i> to SNPP	neTpInclusions in SNCCreateData_T	
<i>snpExclusions</i> to SNPP	neTpSncExclusions in SNCCreateData_T	
<i>snpInclusions</i> to SNP	neTpInclusions in SNCCreateData_T	
<i>snpExclusions</i> to SNP	neTpSncExclusions in SNCCreateData_	

IA	SS	Comment
<i>tpInclusions</i> to TerminationPoint	neTpInclusions in SNCCreateData_T	
<i>tpExclusions</i> to TerminationPoint	neTpSncExclusions in SNCCreateData_T	
<i>mlraInclusions</i> to MultiLayerRoutingArea	neTpInclusions in SNCCreateData_T	
<i>mlsnppLinkInclusions</i> to MultiLayerSNPPLink		
<i>snppInclusions</i> to SNPP		
<i>snpInclusions</i> to SNP		
<i>tpInclusions</i> to TerminationPoint		
<i>neInclusions</i> to ManagedElement		
<i>ccInclusions</i> to CrossConnect	ccInclusions in SNCCreateData_T	
<i>neExclusions</i> to ManagedElement	neTpSncExclusions in SNCCreateData_T	
<i>mlraExclusions</i> to MultiLayerRoutingArea		
<i>mlsnppLinkExclusions</i> to MultiLayerSNPPLink		
<i>snppExclusions</i> to SNPP		
<i>snpExclusions</i> to SNP		
<i>tpExclusions</i> to TerminationPoint		
Operations		none

5.15 ConnectionlessTechnologyManager

IA	SS	Comment
ConnectionlessTechnologyManager	FlowDomainMgr_I (most of the time) TCProfileMgr_I (the rest of the time)	
Attributes		none
Relationships		none
Operations		
getAssigningMFD	FlowDomainMgr_I::getAssigningMFD	
getAllFlowDomains	FlowDomainMgr_I::getAllFlowDomains	

IA	SS	Comment
getFlowDomainsByUserLabel	FlowDomainMgr_I::getFlowDomainsByUserLabel	
getFlowDomain	FlowDomainMgr_I::getFlowDomain	
getAllTCProfiles	TCProfileMgr_I::getAllTCProfiles	
getTCProfile	TCProfileMgr_I::getTCProfile	
createMFD	FlowDomainMgr_I::createMFD	
deleteMFD	FlowDomainMgr_I::deleteMFD	
modifyMFD	FlowDomainMgr_I::modifyMFD	
createFlowDomain	FlowDomainMgr_I::createFlowDomain	
deleteFlowDomain	FlowDomainMgr_I::deleteFlowDomain	
modifyFlowDomain	FlowDomainMgr_I::modifyFlowDomain	
createTCProfile	TCProfileMgr_I::createTCProfile	
deleteTCProfile	TCProfileMgr_I::deleteTCProfile	
modifyTCProfile	TCProfileMgr_I::modifyTCProfile	
createFTP	FlowDomainMgr_I::createFTP	
deleteFTP	FlowDomainMgr_I::deleteFTP	

5.16 ConnectionTerminationPoint

IA	SS	Comment
ConnectionTerminationPoint derived from TerminationPoint	TerminationPoint_T with type = TPT_CTP	
Attributes		
connectionState	connectionState of TerminationPoint_T	
tpMappingMode	tpMappingMode of TerminationPoint_T	
Relationships		
to PhysicalTerminationPoint	CTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "PTPName" 4. "CTPName"	

IA	SS	Comment
<i>sublayers to</i> ConnectionTerminationPoint	CTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "PTPName" 4. "CTPName" 5. "CTPName" 6.	
<i>protects to</i> ConnectionTerminationPoint	tpProtectionAssociation of TerminationPoint_T	
<i>is a reliable TP of to</i> ConnectionTerminationPoint	aEnd and zEnd of SubnetworkConnection_T	
<i>egressTrafficDescriptor to</i> TrafficDescriptor	egressTrafficDescriptorName of SubnetworkConnection_T	
<i>ingressTrafficDescriptor to</i> TrafficDescriptor	ingressTrafficDescriptorName of SubnetworkConnection_T	
<i>applied to</i> (ctp Role) to TPData	combined through TPData_T	
(aEnd Role) to SNCCreateData	aEnd of SNCCreateData_T	
(zEnd Role) to SNCCreateData	zEnd of SNCCreateData_T	
(aEnd Role) to CrossConnect	aEndNameList of CrossConnect_T	
(zEnd Role) to CrossConnect	zEndNameList of CrossConnect_T	
<i>gtpAssociation to</i> GroupTerminationPoint	listOfTPs of GTP_T	
Operations		
getContainingTPs	ManagedElementMgr_I::getContainingTPs	
getContainingTPNames	ManagedElementMgr_I::getContainingTPNames	
terminateAndMap	via tpMappingMode of TPData_T with ManagedElementMgr_I::setTPData	
unTerminateandUnmap	through setting of tpMappingMode in TPData_T with ManagedElementMgr_I::setTPData	
associateWithTrafficDescriptor	through setting of ingressTrafficDescriptorName or egressTrafficDescriptorName in TPData_T with ManagedElementMgr_I::setTPData	
performProtectionCommand	ProtectionMgr_I::performProtectionCommand	
retrieveSwitchData	ProtectionMgr_I::retrieveSwitchData	
getAssociatedGroupTerminationPoint	ManagedElementMgr_I::getContainingGTP	
getTPMappingMode	ManagedElementMgr_I::getTP	

5.17 Consumer

IA	SS	Comment
Consumer	CORBA Notification Service	
Attributes		none
Relationships		
<i>push events to</i> Supplier		
Operations		
pushEvent		

5.18 ControlPlaneManager

IA	SS	Comment
ControlPlaneManager	EMSMgr_I (some operations) MultiLayerSubnetworkMgr_I (other operations)	
Attributes		none
Relationships		none
Operations		
getAllTopLevelMLRAs	EMSMgr_I::getAllTopLevelSubnetworks	
getAllTopLevelMLRANames	EMSMgr_I::getAllTopLevelSubnetworkNames	
getAllMLRAs	EMSMgr_I::getAllMLRAsandMEs	
getMLRA	MultiLayerSubnetworkMgr_I::getMultiLayerSubnetwork	
getAllMLSNPPLinks	EMSMgr_I::getAllMLSNPPLinks	
getAllMLSNPPLinksWithTP	EMSMgr_I::getAllMLSNPPLinksWithTP	
getAllMLSNPPLinksWithMLRAs	EMSMgr_I::getAllMLSNPPLinksWithMLSNs	
getAllMLSNPPLinksWithTNA	EMSMgr_I::getAllMLSNPPLinksWithTNA	
getMLSNPPLink	MultiLayerSubnetworkMgr_I::getMLSNPPLink	
getAllMLSNPPs	MultiLayerSubnetworkMgr_I::getAllMLSNPPs	
getAllMLSNPPsWithTP	EMSMgr_I::getAllMLSNPPsWithTP	
getAllMLSNPPsWithTNA	EMSMgr_I::getAllMLSNPPsWithTNA	
getConnectionsAndRouteDetails	MultiLayerSubnetworkMgr_I::getConnectionsAndRouteDe	

IA	SS	Comment
	tails	

5.19 CrossConnect

IA	SS	Comment
CrossConnect	CrossConnect_T	
Attributes		
active	active of CrossConnect_T	
direction	direction of CrossConnect_T	
ccType	ccType of CrossConnect_T	
fixed	"Fixed" in additionalInfo of CrossConnect_T	
additionalInfo	additionalInfo of CrossConnect_T	
Relationships		
(ccInclusions Role) to SNCCreateData	ccInclusions of SNCCreateData_T	
<i>aEnd</i> to ConnectionTerminationPoint	aEndNameList of CrossConnect_T	
<i>zEnd</i> to ConnectionTerminationPoint	zEndNameList of CrossConnect_T	
to ManagedElement	ManagedElementMgr_I::getAllCrossConnections	
partially ordered series of (crossConnects Role) to Route	typedef sequence CrossConnect_T Route_T	
<i>aEnd</i> to GroupTerminationPoint	aEndNameList of CrossConnect_T	
<i>zEnd</i> to GroupTerminationPoint	zEndNameList of CrossConnect_T	
(ccInclusions Role) to RouteCreateData	ccInclusions of RouteCreateData_T	
Operations		none

5.20 EMS

IA	SS	Comment
EMS derived from CommonResourceInfo	EMS_T	

IA	SS	Comment
Attributes		
EmsVersion	emsVersion of EMS_T	
type	type of EMS_T	
asapPointer	"ASAPpointer" in additionalInfo of EMS_T	
Relationships		
to Subnetwork	Subnetwork naming: 1."CompanyName/EMSname" 2."SubnetworkName"	
to FlowDomain	FlowDomain naming: 1."CompanyName/EMSname" 2."FlowDomainName"	
to TopologicalLink	TopologicalLink naming: 1."CompanyName/EMSname" 2."TopologicalLinkName"	
to TrafficConditioningProfile	TrafficConditioningProfile naming: 1. "CompanyName/EMSname" 2. "TCProfileName"	
to TrafficDescriptor	TrafficDescriptor naming: 1. "CompanyName/EMSname" 2. "TrafficDescriptorName"	
retrieve active to AlarmInformation	EMSMgr_I::getAllEMSAndMEActiveAlarms EMSMgr_I::getAllEMSSystemActiveAlarms	
to ManagedElement	ManagedElement naming: 1."CompanyName/EMSname" 2. "ManagedElementName"	
to PerformanceManager	EmsSession_I::getSupportedManagers	
to Log	EmsSession_I::getEventChannel	the Log is a subclass of EventChannel and NotificationChannel
to SoftwareManager	EmsSession_I::getSupportedManagers	
to TransmissionDescriptor	TransmissionDescriptor naming: 1. "CompanyName/EMSname" 2. "TransmissionDescriptorName"	
AlarmSeverityAssignmentProfile	ASAP naming: 1. "CompanyName/EMSname" 2. "AlarmSeverityAssignmentProfileName"	

IA	SS	Comment
AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of EMS_T	
Operations		
getAllEMSSystemActiveAlarms	EMSMgr_I::getAllEMSSystemActiveAlarms	
getAllTopLevelSubnetworks	EMSMgr_I::getAllTopLevelSubnetworks	
getAllTopLevelSubnetworkNames	EMSMgr_I::getAllTopLevelSubnetworkNames	
getMultiLayerSubnetwork	MultiLayerSubnetworkMgr_I::getMultiLayerSubnetwork	
getAllTopLevelTopologicalLinks	EMSMgr_I::getAllTopLevelTopologicalLinks	
getAllTopLevelTopologicalLinkNames	EMSMgr_I::etAllTopLevelTopologicalLinkNames	
getTopLevelTopologicalLink	EMSMgr_I::getTopLevelTopologicalLink	
getAllEMSAndMEActiveAlarms	EMSMgr_I::getAllEMSAndMEActiveAlarms	
getAllManagedElements	ManagedElementMgr_I::getAllManagedElements	
getAllManagedElementNames	ManagedElementMgr_I::getAllManagedElementNames	
getManagedElementByName	ManagedElementMgr_I::getManagedElement	
getGCTProfileInfo	GuiCutThroughMgr_I::getGCTProfileInfo	
launchGCT	GuiCutThroughMgr_I::launchGCT	
destroyGCT	GuiCutThroughMgr_I::destroyGCT	
getAllTrafficDescriptors	TrafficDescriptorMgr_I::getAllTrafficDescriptors	
getAllTrafficDescriptorNames	TrafficDescriptorMgr_I::getAllTrafficDescriptorNames	
getTrafficDescriptorByName	TrafficDescriptorMgr_I::getTrafficDescriptor	
createTrafficDescriptor	TrafficDescriptorMgr_I::createTrafficDescriptor	
deleteTrafficDescriptor	TrafficDescriptorMgr_I::deleteTrafficDescriptor	
getCapabilities	Common_I::getCapabilities	
createTopologicalLink	EMSMgr_I::createTopologicalLink	
deleteTopologicalLink	EMSMgr_I::deleteTopologicalLink	
acknowledgeAlarms	EMSMgr_I::acknowledgeAlarms	
unacknowledgeAlarms	EMSMgr_I::unacknowledgeAlarms	
getAllTransmissionDescriptors	TransmissionDescriptorMgr_I::getAllTransmissionDescr ptors	
getAllTransmissionDescriptorNames	TransmissionDescriptorMgr_I::getAllTransmissionDescr	

IA	SS	Comment
	ptorNames	
getTransmissionDescriptorByName	TransmissionDescriptorMgr_I::getTransmissionDescriptor	
createTransmissionDescriptor	TransmissionDescriptorMgr_I::createTransmissionDescriptor	
deleteTransmissionDescriptor	TransmissionDescriptorMgr_I::deleteTransmissionDescriptor	
getLog	CORBA Telecom Log Service	
createASAP	ManagedElementMgr_I::createASAP	
deleteASAP	ManagedElementMgr_I::deleteASAP	
assignASAP	ManagedElementMgr_I::assignASAP	
deassignASAP	ManagedElementMgr_I::deassignASAP	
modifyASAP	ManagedElementMgr_I::modifyASAP	
getAllASAPs	ManagedElementMgr_I::getAllASAPs	
getAllASAPNames	ManagedElementMgr_I::getAllASAPNames	
getASAP	ManagedElementMgr_I::getASAP	
getASAPByResource	ManagedElementMgr_I::getASAPbyResource	
getEMS	EMSMgr_I::getEMS	

5.21 EMSSession

IA	SS	Comment
EMSSession derived from Session	EmsSession_I	
Attributes		none
Relationships		
to Supplier	EmsSession_I::getEventChannel	
Operations		
getSupplier	EmsSession_I::getEventChannel	

5.22 EprotectionSwitch

IA	SS	Comment
EProtectionSwitch derived from Event	NT_EPROTECTION_SWITCH	
Attributes		
neTime	"neTime"	
emsTime	"emsTime"	
eProtectionGroupType	"eProtectionGroupType"	
eSwitchReason	"eSwitchReason"	
groupName	"groupName"	
protectedE	"protectedE"	
switchAwayFromE	"switchAwayFromE"	
switchToE	"switchToE"	
Relationships		none
Operations		none

5.23 ESwitchData

IA	SS	Comment
ESwitchData	ESwitchData_T	
Attributes		
eProtectionGroupType	eProtectionGroupType of ESwitchData_T	
eSwitchReason	eSwitchReason of ESwitchData_T	
additionalInfo	additionalInfo of ESwitchData_T	
Relationships		
to EquipmentProtectionGroup	ePGPName of ESwitchData_T	
<i>protectedE</i> to Equipment	protectedE of ESwitchData_T	
<i>switchToE</i> to Equipment	switchToE of ESwitchData_T	
Operations		none

5.24 Equipment

IA	SS	Comment
Equipment derived from CommonResourceInfo	Equipment_T	
Attributes		
alarmReportingIndicator	alarmReportingIndicator of Equipment_T	
expectedEquipmentType	expectedEquipmentObjectType of Equipment_T	
installedEquipmentType	installedEquipmentObjectType of Equipment_T	
installedPartNumber	installedPartNumber of Equipment_T	
installedSerialNumber	installedSerialNumber of Equipment_T	
serviceState	serviceState of Equipment_T	
installedVersion	installedVersion of Equipment_T	
manufacturer	"Manufacturer" in additionalInfo of Equipment_T	
protectionRole	"ProtectionRole" in additionalInfo of Equipment_T	
protectionSchemeState	"ProtectionSchemeState" in additionalInfo of Equipment_T	
asapPointer	"ASAPpointer" in additionalInfo of Equipment_T	
Relationships		
to PhysicalTerminationPoint	EquipmentInventoryMgr_I::getAllSupportedPTPs EquipmentInventoryMgr_I::getAllSupportedPTPNames	
to EquipmentHolder	Equipment naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentHolderName" 4. "EquipmentName"	
(protectedList Role) to EquipmentProtectionGroup	protectedList of EProtectionGroup_T	
(protectingList Role) to EquipmentProtectionGroup	protectingList of EProtectionGroup_T	
(protectedE Role) to ESwitchData	protectedE of ESwitchData_T	
(switchToE Role) to ESwitchData	switchToE of ESwitchData_T	
<i>protects</i> to Equipment	ESwitchData_T	

IA	SS	Comment
<i>supportedBy</i> (supportingEquipment Role) to Equipment	EquipmentInventoryMgr_I::getSupportingEquipment EquipmentInventoryMgr_I::getSupportingEquipmentNames	
<i>supports</i> (supportedEquipment Role) to Equipment	EquipmentInventoryMgr_I::getSupportedEquipment EquipmentInventoryMgr_I::getSupportedEquipmentNames	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of Equipment_T	
Operations		
setAlarmReportingOn	EquipmentInventoryMgr_I::setAlarmReportingOn	
setAlarmReportingOff	EquipmentInventoryMgr_I::setAlarmReportingOff	
getSupportedPTPs	EquipmentInventoryMgr_I::getAllSupportedPTPs	
getSupportedPTPNames	EquipmentInventoryMgr_I::getAllSupportedPTPNames	
getSupportingEquipment	EquipmentInventoryMgr_I::getSupportingEquipment	
getSupportingEquipmentNames	EquipmentInventoryMgr_I::getSupportingEquipmentNames	
getSupportedEquipment	EquipmentInventoryMgr_I::getSupportedEquipment	
getSupportedEquipmentNames	EquipmentInventoryMgr_I::getSupportedEquipmentNames	

5.25 EquipmentCreateData

IA	SS	Comment
EquipmentCreateData	EQTCreateData_T	
Attributes		
userLabel	userLabel of EQTCreateData_T	
forceUniqueness	forceUniqueness of EQTCreateData_T	
owner	owner of EQTCreateData_T	
expectedEquipmentObjectType	expectedEquipmentObjectType of EQTCreateData_T	
alarmReportingIndication	"AlarmReporting" in additionalInfo of EQTCreateData_T	
asapPointer	"ASAPpointer" in additionalInfo of EQTCreateData_T	
manufacturer	"Manufacturer" in additionalInfo of EQTCreateData_T	

IA	SS	Comment
protectionRole	"ProtectionRole" in additionalInfo of EQTCreateData_T	
protectionSchemeState	"ProtectionSchemeState" in additionalInfo of EQTCreateData_T	
additionalCreationInfo	additionalInfo of EQTCreateData_T	
Relationships		none
Operations		none

5.26 EquipmentHolder

IA	SS	Comment
EquipmentHolder derived from CommonResourceInfo	EquipmentHolder_T	
Attributes		
alarmReportingIndicator	alarmReportingIndicator of EquipmentHolder_T	
equipmentHolderType	holderType	
acceptableEquipmentList	acceptableEquipmentTypeList of EquipmentHolder_T	
expectedOrInstalledEquipment	expectedOrInstalledEquipment of EquipmentHolder_T	
holderState	holderState of EquipmentHolder_T	
asapPointer	"ASAPpointer" in additionalInfo of EquipmentHolder_T	
Relationships		
to ManagedElement	EquipmentHolder naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentHolderName"	
to Equipment	Equipment naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentHolderName" 4. "EquipmentName"	
to EquipmentHolder	EquipmentHolder naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentHolderName"	

IA	SS	Comment
	4. "EquipmentHolderName" 5.	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of EquipmentHolder_T	
Operations		
unprovisionEquipment	EquipmentInventoryMgr_I::unprovisionEquipment	
provisionEquipment	EquipmentInventoryMgr_I::provisionEquipment	
getContainedEquipment	EquipmentInventoryMgr_I::getContainedEquipment	
getAllEquipment	EquipmentInventoryMgr_I::getAllEquipment	
getAllEquipmentNames	EquipmentInventoryMgr_I::getAllEquipmentNames	
setAlarmReportingOn	EquipmentInventoryMgr_I::setAlarmReportingOn	
setAlarmReportingOff	EquipmentInventoryMgr_I::setAlarmReportingOff	

5.27 EquipmentProtectionGroup

IA	SS	Comment
EquipmentProtectionGroup derived from CommonResourceInfo	EProtectionGroup_T	
Attributes		
eProtectionGroupType	eProtectionGroupType of EProtectionGroup_T	
protectionSchemeState	protectionSchemeState of EProtectionGroup_T	
reversionMode	reversionMode of EProtectionGroup_T	
ePgpParameters	ePgpParameters of EProtectionGroup_T	
asapPointer	"ASAPpointer" in additionalInfo of EProtectionGroup_T	
Relationships		
to ManagedElement	EquipmentProtectionGroup naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentProtectionGroupName"	
<i>protectedList</i> to Equipment	protectedList of EProtectionGroup_T	

IA	SS	Comment
<i>protectingList</i> to Equipment	protectingList of EProtectionGroup_T	
to ESwitchData	ePGPName of ESwitchData_T	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of EProtectionGroup_T	
Operations		
retrieveESwitchData	ProtectionMgr_I::retrieveESwitchData	

5.28 Event

IA	SS	Comment
Event	CORBA notification service	
Attributes		
notificationId	"notificationId" in filterable_data of StructuredEvent	
eventType	event_type in fixed_header of StructuredEvent	
Relationships		none
Operations		none

5.29 EventInformation

IA	SS	Comment
EventInformation derived from Event	CORBA notification service	
Attributes		
objectType	"objectType" in filterable_data of StructuredEvent	
objectName	"objectName" in filterable_data of StructuredEvent	
neTime	"neTime" in filterable_data of StructuredEvent	
emsTime	"emsTime" in filterable_data of StructuredEvent	
edgePointRelated	"edgePointRelated" in	

IA	SS	Comment
	filterable_data of StructuredEvent	
Relationships		none
Operations		none

5.30 FDCreateData

IA	SS	Comment
FDCreateData derived from CommonCreateModifyData	FDCreateData_T	
Attributes		
name	name of FDCreateData_T	
Relationships		
<i>transmissionParameters</i> of CommonCreateModifyData to TransmissionParameters	transmissionParams of FDCreateData_T	
<i>matrixFlowDomains</i> to MatrixFlowDomainFragment	mfd of FDCreateData_T	
<i>assignedCPTPs</i> to TerminationPoint	assignedCPTPs parameter in FlowDomainMgr_I::createFlowDomain operation	
Operations		none

5.31 FDModifyData

IA	SS	Comment
FDModifyData derived from CommonCreateModifyData	FDModifyData_T	
Attributes		none additional
Relationships		none additional
Operations		none

5.32 FDFrCreateData

IA	SS	Comment
FDFrCreateData derived from CommonCreateModifyData	FDFrCreateData_T	
Attributes		

IA	SS	Comment
name	name of FDFrCreateData_T	
direction	direction of FDFrCreateData_T	
fullRoute	fullRoute of FDFrCreateData_T	
fdfrType	fdfrType of FDFrCreateData_T	
connectivityRequirement	<i>connectivityRequirement</i> parameter in FlowDomainMgr_I::createAndActivateFDFr operation	
administrativeState	administrativeState of FDFrCreateData_T	
Relationships		
<i>internalTPs</i> to TerminationPoint	<i>internalTPs</i> parameter in FlowDomainMgr_I::createAndActivateFDFr operation	
<i>aEndEdgeTPs</i> to TerminationPoint	<i>aEnd</i> parameter in FlowDomainMgr_I::createAndActivateFDFr operation	
<i>zEndEdgeTPs</i> to TerminationPoint	<i>zEnd</i> parameter in FlowDomainMgr_I::createAndActivateFDFr operation	
<i>fdfrRoute</i> to MatrixFlowDomainFragment	<i>mfdfRs</i> parameter in FlowDomainMgr_I::createAndActivateFDFr operation	
Operations		None

5.33 FDFrModifyData

IA	SS	Comment
FDFrModifyData derived from CommonCreateModifyData	FDFrModifyData_T	
Attributes		
connectivityRequirement	parameter connectivityRequirement in FlowDomainMgr_I::modifyFDFr	
administrativeState	administrativeState of FDFrModifyData_T	
Relationships		none additional
<i>transmissionParameters</i> of CommonCreateModifyData to	transmissionParams of FDFrModifyData_T	

IA	SS	Comment
TransmissionParameters		
<i>removeTPs</i> to TerminationPoint	tpNamesToRemove of FDFrModifyData_T	
<i>aEndEdgeTPs</i> to TerminationPoint	aEndTPNames of FDFrModifyData_T	
<i>zEndEdgeTPs</i> to TerminationPoint	zEndTPNames of FDFrModifyData_T	
<i>internalTPs</i> to TerminationPoint	internalTPNames of FDFrModifyData_T	
Operations		None

5.34 FileTransferStatus

IA	SS	Comment
FileTransferStatus derived from Event	CORBA notification service: event_type in fixed_header of StructuredEvent with type_name = "NT_FILE_TRANSFER_STATUS"	
Attributes		
fileName	"filename" in notification type "NT_FILE_TRANSFER_STATUS"	
transferStatus	"transferStatus" in notification type "NT_FILE_TRANSFER_STATUS"	
percentComplete	"percentComplete" in notification type "NT_FILE_TRANSFER_STATUS"	
failureReason	"failureReason" in notification type "NT_FILE_TRANSFER_STATUS"	
Relationships		none
Operations		none

5.35 Filter

IA	SS	Comment
Filter	CORBA notification service	
Attributes		none

IA	SS	Comment
Relationships		none
Operations		
addConstraints		
match		

5.36 FloatingTerminationPoint

IA	SS	Comment
FloatingTerminationPoint derived from PhysicalTerminationPoint, ConnectionTerminationPoint	TerminationPoint_T with type = TPT_PTP and naming convention to distinguish PTPs and FTPs	
Attributes		none
Relationships		none
Operations		none

5.37 FlowDomain

IA	SS	Comment
FlowDomain derived from CommonResourceInfo	FlowDomain_T	
Attributes		
networkAccessDomain	networkAccessDomain of FlowDomain_T	
fdConnectivityState	fdConnectivityState of FlowDomain_T	
fdType	fdType of FlowDomain_T	
Relationships		
to EMS	FlowDomain naming: 1."CompanyName/EMSname" 2."FlowDomainName"	
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of FlowDomain_T	
Operations		
getAllAssociatedMFDs	FlowDomainMgr_I::getAllAssociatedMFDs	

IA	SS	Comment
getAllCPTPs	FlowDomainMgr_I::getAllCPTPs	
getAllFDFrs	FlowDomainMgr_I::getAllFDFrs	
getFDFr	FlowDomainMgr_I::getFDFr	
getFDFrsWithCPTP	FlowDomainMgr_I:: getFDFrsWithTP (with CPTP input)	
getFDFrWithFP	FlowDomainMgr_I:: getFDFrsWithTP (with FP input)	
getFDFrsByUserLabel	FlowDomainMgr_I::getFDFrsByUserLabel	
getTransmissionParameters	FlowDomainMgr_I::getTransmissionParams	
associateCPTPsWithFlowDomain	FlowDomainMgr_I::associateCPTPsWithFlowDomain	
deassociateCPTPsFromFlowDomain	FlowDomainMgr_I::deAssociateCPTPsFromFlowDomain	
associateMFDsWithFlowDomain	FlowDomainMgr_I::associateMFDsWithFlowDomain	
deassociateMFDsFromFlowDomain	FlowDomainMgr_I::deAssociateMFDsFromFlowDomain	
createAndActivateFDFr	FlowDomainMgr_I::createAndActivateFDFr	
deactivateAndDeleteFDFr	FlowDomainMgr_I::deactivateAndDeleteFDFr	
modifyFDFr	FlowDomainMgr_I::modifyFDFr	
getAllTopologicalLinks	FlowDomainMgr_I::getAllTopologicalLinks	

5.38 FlowDomainFragment

IA	SS	Comment
FlowDomainFragment derived from CommonResourceInfo	FlowDomainFragment_T	
Attributes		
direction	direction of FlowDomainFragment_T	
networkAccessDomain	networkAccessDomain of FlowDomainFragment_T	
flexible	flexible of FlowDomainFragment_T	
administrativeState	administrativeState of FlowDomainFragment_T	
fdfrState	fdfrState of FlowDomainFragment_T	

IA	SS	Comment
fdfrType	fdfrType of FlowDomainFragment_T	
Relationships		
to FlowDomain	FlowDomainFragment naming: 1. "CompanyName/EMSname" 2. "FlowDomainName" 3. "FlowDomainFragmentName"	
aEndTPs to ConnectionTerminationPoint	aEnd of FlowDomainFragment_T	
zEndTPs to ConnectionTerminationPoint	zEnd of FlowDomainFragment_T	
transmissionParameters to TransmissionParameters	transmissionParams of FlowDomainFragment_T	
Operations		
getFDfrRoute	FlowDomainMgr_I::getFDfrRoute	
getTransmissionParameters	FlowDomainMgr_I::getTransmissionParams	

5.39 FTPCreateData

IA	SS	Comment
FTPCreateData derived from CommonCreateModifyData	FTPCreateData_T	
Attributes		
equipmentName	FTPCreateData_T.equipmentName	
connectionState	FTPCreateData_T.connectionState	Same as connectionState of ConnectionTerminationPoint_T
direction	FTPCreateData_T.direction	Same as direction of TerminationPoint_T

IA	SS	Comment
Relationships		
<i>egressTransmissionDescriptor</i> to <i>TransmissionDescriptor</i>	FTPCreateData_T.egressTrafficDescriptorName	
<i>ingressTransmissionDescriptor</i> to <i>TransmissionDescriptor</i>	FTPCreateData_T.ingressTrafficDescriptorName	
<i>transmissionParameters</i> to <i>TransmissionParameters</i>	FTPCreateData_T.transmissionParams	Same as transmissionParams of TerminationPoint_T
Operations		None

5.40 GCTProfileInfo

IA	SS	Comment
GCTProfileInfo	GCTProfileInfo_T	
Attributes		
serverLaunchCapability	ServerLaunchCapability_T of GCTProfileInfo_T	
gctHostname	gctHostname of GCTProfileInfo_T	
emsGctPlatform	emsGctPlatform of GCTProfileInfo_T	
guiCutThroughDataList	guiCutThroughDataList_T of GCTProfileInfo_T	
Relationships		none
Operations		none

5.41 GroupTerminationPoint

IA	SS	Comment
GroupTerminationPoint derived from CommonResourceInfo	GTP_T	
Attributes		
listOfTPs	listOfTPs of GTP_T	
connectionState	gtpConnectionState of GTP_T	

IA	SS	Comment
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of GTP_T	
alarmReportingIndication	"AlarmReporting" in additionalInfo of GTP_T	
asapPointer	"ASAPpointer" in additionalInfo of GTP_T	
Relationships		
to ManagedElement	GTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "GTPName"	
gtpAssociation to ConnectionTerminationPoint	listOfTPs of GTP_T	
(zEnd Role) to SNCCreateData	zEnd of SNCCreateData_T	
(aEnd Role) to SNCCreateData	aEnd of SNCCreateData_T	
(gtpInclusions Role) to SNCCreateData	neTpInclusions of SNCCreateData_T	
(gtpExclusions Role) to SNCCreateData	neTpSncExclusions of SNCCreateData_T	
(aEnd Role) to SubnetworkConnection	aEnd of SubnetworkConnection_T	
(zEnd Role) to SubnetworkConnection	zEnd of SubnetworkConnection_T	
(aEnd Role) to CrossConnect	aEndNameList of CrossConnect_T	
(zEnd Role) to CrossConnect	zEndNameList of CrossConnect_T	
(gtpInclusions Role) to RouteCreateData	neTpInclusions of RouteCreateData_T	
(gtpExclusions Role) to RouteCreateData	neTpSncExclusions of RouteCreateData_T	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of GTP_T	
<i>contained GTP members</i> to TPPool	"TPPoolName" in additionalInfo of GTP_T	
Operations		
setAlarmReportingOn	Common_I::setAdditionalInfo	
setAlarmReportingOff	Common_I::setAdditionalInfo	
getTPGroupingRelationships	"TPPoolName" in additionalInfo of GTP_T	

5.42 HeartbeatInformation

IA	SS	Comment
HeartbeatInformation derived from Event	NT_HEARTBEAT	
Attributes		
objectType	"objectType"	
objectName	"objectName"	
emsTime	"emsTime"	
Relationships		none
Operations		none

5.43 HistoricalPMDDataFile

IA	SS	Comment
HistoricalPMDDataFile	supportingDocumentation\PmFileFormat.html	
Attributes		
startTime	startTime of PerformanceManagementMgr_I::getHistoryPMDData	
endTime	endTime of PerformanceManagementMgr_I::getHistoryPMDData	
Relationships		
to PMHistoricData	Composition of PmFileFormat.html	
Operations		none

5.44 Log

IA	SS	Comment
Log	CORBA Telecom Log Service	
Attributes		
operationalState		
administrativeState		
logSize		

IA	SS	Comment
logFullAction		
logDuration		
logScheduling		
availabilityStatus		
logRecordCompaction		
logCapacityAlarmThresholds		
discriminatorConstruct		
Relationships		
to LogRecord		
to EMS		
Operations		
setAdministrativeState		
setMaxLogSize		
setLogFullAction		
setWeekMask		
setMaxRecordLife		
setCapacityAlarmThreshold		
setDiscriminatorConstruct		
getLogRecords		
retrieveLogRecords		
deleteLogRecords		

5.45 LogAVC

IA	SS	Comment
LogAVC derived from Event	CORBA Telecom Log Service	
Attributes		
attributeType		

IA	SS	Comment
oldValue		
newValue		
Relationships		none
Operations		none

5.46 LogCapacityThresholdAlarm

IA	SS	Comment
LogCapacityThresholdAlarm derived from Event	CORBA Telecom Log Service	
Attributes		
observedValue		
crossedValue		
perceivedSeverity		
Relationships		none
Operations		none

5.47 LogObjectCreation

IA	SS	Comment
LogObjectCreation derived from Event	Log CORBA Telecom Service	
Attributes		none
Relationships		none
Operations		none

5.48 LogObjectDeletion

IA	SS	Comment
LogObjectDeletion derived from Event	CORBA Telecom Log Service	
Attributes		none

IA	SS	Comment
Relationships		none
Operations		none

5.49 LogProcessingErrorAlarm

IA	SS	Comment
LogProcessingErrorAlarm derived from Event	CORBA Telecom Log Service	
Attributes		
errorNumber		
errorReason		
Relationships		none
Operations		none

5.50 LogRecord

IA	SS	Comment
LogRecord derived from Event	CORBA Telecom Log Service	
Attributes		
recordId		
time		
eventInfo		
Relationships		
to Log		
Operations		none

5.51 LogStateChange

IA	SS	Comment
LogStateChange derived from Event	CORBA Telecom Log Service	

IA	SS	Comment
Attributes		
stateType		
newValue		
Relationships		none
Operations		none

5.52 ManagedElement

IA	SS	Comment
ManagedElement	ManagedElement_T	
Attributes		
locationName	location of ManagedElement_T	
systemLevelVersion	version of ManagedElement_T	
productName	productName of ManagedElement_T	
communicationState	communicationState of ManagedElement_T	
emsInSyncState	emsInSyncState of ManagedElement_T	
connectionRates	supportedRates of ManagedElement_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of ManagedElement_T	
manufacturer	"Manufacturer" in additionalInfo of ManagedElement_T	
asapPointer	"ASAPpointer" in additionalInfo of ManagedElement_T	
Relationships		
<i>associated with</i> to Subnetwork	ManagedElementMgr_I::getContainingSubnetworkNames	
to PhysicalTerminationPoint	PTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "PTPName"	
<i>retrieve active</i> to AlarmInformation	ManagedElementMgr_I::getAllActiveAlarms	
to EMS	ManagedElement naming: 1. "CompanyName/EMSname" 2. "ManagedElementName"	
(neInclusions Role) to	neTpInclusions of SNCCreateData_T	

IA	SS	Comment
SNCCreateData		
(neExclusions Role) to SNCCreateData	neTpSncExclusions of SNCCreateData_T	
to CrossConnect	ManagedElementMgr_I::getAllCrossConnections	
to EquipmentHolder	EquipmentHolder naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentHolderName"	
to ProtectionGroup	ProtectionGroup naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "ProtectionGroupName"	
to TCAPParameterProfile	TCAPParameterProfile naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "TCAPParameterProfileName"	
to EquipmentProtectionGroup	EquipmentProtectionGroup naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "EquipmentProtectionGroupName"	
to GroupTerminationPoint	GTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "GTPName"	
(neInclusions Role) to RouteCreateData	neTpInclusions of RouteCreateData_T	
(neExclusion Role) to RouteCreateData	neTpSncExclusions of RouteCreateData_T	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of ManagedElement_T	
Operations		
getContainingSubnetworkNames	ManagedElementMgr_I::getContainingSubnetworkNames	
getTP	ManagedElementMgr_I::getTP	
getAllActiveAlarms	ManagedElementMgr_I::getAllActiveAlarms	
getEquipment	EquipmentInventoryMgr_I::getEquipment	
getAllEquipment	EquipmentInventoryMgr_I::getAllEquipment	
getAllEquipmentNames	EquipmentInventoryMgr_I::getAllEquipmentNames	
getAllPTPs	ManagedElementMgr_I::getAllPTPs	
getAllPTPNames	ManagedElementMgr_I::getAllPTPNames	

IA	SS	Comment
getActiveMaintenanceOperations	MaintenanceMgr_I::getActiveMaintenanceOperations	
getAllProtectionGroups	ProtectionMgr_I::getAllProtectionGroups	
getProtectionGroup	ProtectionMgr_I::getProtectionGroup	
getAllNUTTPNames	ProtectionMgr_I::getAllNUTTPNames	
getAllProtectedTPNames	ProtectionMgr_I::getAllProtectedTPNames	
getAllPreemptibleTPNames	ProtectionMgr_I::getAllPreemptibleTPNames	
getAllCrossConnections	ManagedElementMgr_I::getAllCrossConnections	
getAllFixedCrossConnections	ManagedElementMgr_I::getAllFixedCrossConnections	
getAllPTPsWithoutFTPs	ManagedElementMgr_I::getAllPTPsWithoutFTPs	
getAllPTPNamesWithoutFTPs	ManagedElementMgr_I::getAllPTPNamesWithoutFTPs	
getAllFTPs	ManagedElementMgr_I::getAllFTPs	
getAllFTPNames	ManagedElementMgr_I::getAllFTPNames	
getAllEProtectionGroups	ProtectionMgr_I::getAllEProtectionGroups	
getEProtectionGroup	ProtectionMgr_I::getEProtectionGroup	
createGroupTerminationPoint	ManagedElementMgr_I::createGTP	
deleteGroupTerminationPoint	ManagedElementMgr_I::deleteGTP	
modifyGroupTerminationPoint	ManagedElementMgr_I::modifyGTP	
getGroupTerminationPoint	ManagedElementMgr_I::getGTP	
getAllGroupTerminationPoints	ManagedElementMgr_I::getAllGTPs	
getAllGroupTerminationPointNames	ManagedElementMgr_I::getAllGTPNames	

5.53 MatrixFlowDomain

IA	SS	Comment
MatrixFlowDomain derived from CommonResourceInfo	MatrixFlowDomain_T	
Attributes		
networkAccessDomain	networkAccessDomain of MatrixFlowDomain_T	
flexible	flexible of MatrixFlowDomain_T	

IA	SS	Comment
Relationships		
to ManagedElement	FlowDomain naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "MatrixFlowDomainName"	
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of MatrixFlowDomain_T	
Operations		
getAllSupportingEquipments	EquipmentInventoryMgr_I::getAllSupportingEquipment	
getAssociatingFlowDomain	FlowDomainMgr_I::getAssociatingFD	
assignCPTPsToMFD	FlowDomainMgr_I::assignCPTPsToMFD	
unassignCPTPsFromMFD	FlowDomainMgr_I::unassignCPTPsFromMFD	
verifyTMDAssignmentToMFD	FlowDomainMgr_I::validateTMDAssignmentToMFD TransmissionDescriptorMgr_I::validateTMDAssignmentTo Object	
getTransmissionParameters	FlowDomainMgr_I::getTransmissionParams	

IA	SS	Comment
getAllAssignedCPTPs	FlowDomainMgr_I::getAllAssignedCPTPs	GV: see <i>assignedCPTPs</i> relationship above
getAllAssignableCPTPs	FlowDomainMgr_I::getAllAssignableCPTPs	

5.54 MatrixFlowDomainFragment

IA	SS	Comment
MatrixFlowDomainFragment	MatrixFlowDomainFragment_T	
Attributes		
active	active of MatrixFlowDomainFragment_T	
direction	direction of MatrixFlowDomainFragment_T	
flexible	flexible of MatrixFlowDomainFragment_T	
mfdfrType	mfdfrType of MatrixFlowDomainFragment_T	
additionalInfo	additionalInfo of MatrixFlowDomainFragment_T	
Relationships		
<i>aEndTPs</i> to ConnectionTerminationPoint	aEnd of MatrixFlowDomainFragment_T	
<i>zEndTPs</i> to ConnectionTerminationPoint	zEnd of MatrixFlowDomainFragment_T	
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of MatrixFlowDomainFragment_T	
Operations		none

5.55 MFDCreateData

IA	SS	Comment
MFDCreateData derived from CommonCreateModifyData	MFDCreateData_T	
Attributes		

IA	SS	Comment
name	name of MFDCreateData_T	
Relationships		
<i>unassignedCPTPs</i> to TerminationPoint	unassignedCPTPs of MFDCreateData_T	
<i>transmissionParameters</i> of CommonCreateModifyData superclass to TransmissionParameters	MFDCreateData_T.transmissionParams	
Operations		none

5.56 MFDMModifyData

IA	SS	Comment
MFDMModifyData derived from CommonCreateModifyData	MFDMModifyData_T	
Attributes		none additional
Relationships		none additional
<i>transmissionParameters</i> of CommonCreateModifyData to TransmissionParameters	transmissionParams attribute of MFDMModifyData_T	
Operations		none

5.57 MultiLayerSNPP

IA	SS	Comment
MultiLayerSNPP derived from CommonResourceInfo	MultiLayerSNPP_T	
Attributes		
direction	MultiLayerSNPP_T.direction	
Relationships		
to MLRA	MultiLayerSNPP naming: 1. "CompanyName/EMSname" 2. "MLRA" 3. "MLSNPP"	
<i>LayeredSNPPList</i> to LayeredSNPP	MultiLayerSNPP_T.layeredSNPPList	

IA	SS	Comment
Operations		
setTNAName	MLSNPPMgr_I::setTNANameForMLSNPP	

5.58 MultiLayerSNPPLink

IA	SS	Comment
MultiLayerSNPPLink derived from CommonResourceInfo	MultiLayerSNPPLink_T	
Attributes		
direction	MultiLayerSNPPLink_T.direction	
signallingProtocol	MultiLayerSNPPLink_T.signallingProtocol	
cost	MultiLayerSNPPLink_T.cost	
discovered	MultiLayerSNPPLink_T.discovered	
availability	MultiLayerSNPPLink_T.availability	
additionalRoutingParameters	MultiLayerSNPPLink_T.additionalInfo	
signallingEnabled	MultiLayerSNPPLink_T	
signallingControllerIdentifier	MultiLayerSNPPLink_T.signallingControllerIdentifier	
interfaceType	MultiLayerSNPPLink_T.interfaceType	
linkSRG	MultiLayerSNPPLink_T.linkSRG	
Relationships		
to EMS	FlowDomain naming: 1."CompanyName/EMSname" 2." MLSNPPLink "	
1.	1.	
1.		
AMLRANameto MultiLayerRoutingArea	MultiLayerSNPPLink_T.aMLRAName	
ZMLRAName	MultiLayerSNPPLink_T.zMLRAName	
LayeredSNPPLinkList to LayeredSNPPLink	MultiLayerSNPPLink_T.sNPPLinkList	

IA	SS	Comment
Operations		
assignSignallingController	MLSNPPLinkMgr_I::assignSignallingController	
deassignSignallingController	MLSNPPLinkMgr_I::deassignSignallingController	
setSignallingProtocolAndParameters	MLSNPPLinkMgr_I::setSignallingProtocolAndParameters	
modifySignallingProtocolParameters	MLSNPPLinkMgr_I::modifySignallingProtocolParameters	
enableSignalling	MLSNPPLinkMgr_I::enableSignalling	
disableSignalling	MLSNPPLinkMgr_I::disableSignalling	
getAvailableCapacity	MLSNPPLinkMgr_I::getAvailableCapacity	
setTNAName	MLSNPPLinkMgr_I::setTNANameForMLSNPPLinkEnd	

5.59 MultiLayerRoutingArea

IA	SS	Comment
MultiLayerRoutingArea derived from CommonResourceInfo	MultiLayerSubnetwork_T	
Attributes		
routingAreaLevel	RoutingAreaLevel in additionalInfo of MultiLayerSubnetwork_T	
sharedRiskGroup	SrgNode in additionalInfo of MultiLayerSubnetwork_T	
layeredRoutingAreaList	LayeredRoutingAreaList in additionalInfo of MultiLayerSubnetwork_T	
Relationships		
to EMS	MSLN naming: 1."CompanyName/EMSname" 2."MultiLayerSubnetwork "	
<i>supportingMLSNs</i> to MultiLayerSubnetwork	MultiLayerSubnetworkMgr_I::getAllSubordinateMLSNs	
<i>SuperiorMLRA</i> to MultiLayerRoutingArea	superiorMLRA in additionalInfo of MultiLayerSubnetwork_T	
<i>MLRAIsSupportedBy</i> [other role: <i>supportingMEName</i>] to ManagedElement	SupportingMEName in additionalInfo of MultiLayerSubnetwork_T	
<i>MLRA_contains_LayeredRoutingArea</i> [other role: <i>layeredRoutingAreaList</i>] to LayeredRoutingArea	LayeredRoutingAreaList_T in additionalInfo of MultiLayerSubnetwork_T	

IA	SS	Comment
Operations		
getAllSubordinateMLRAs	MultiLayerSubnetworkMgr_I::getAllSubordinateMLSNs	
getAllEdgeMLSNPPLinks	MultiLayerSubnetworkMgr_I::getAllEdgeMLSNPPLinks	
getAllInternalMLSNPPLinks	MultiLayerSubnetworkMgr_I::getAllInternalMLSNPPLinks	
getAllMLSNPPs	MultiLayerSubnetworkMgr_I::getAllMLSNPPs	
getMLSNPPLink	MultiLayerSubnetworkMgr_I::getMLSNPPLink	
getCall	MultiLayerSubnetworkMgr_I::getCall	
establishCall	MultiLayerSubnetworkMgr_I::establishCall	
releaseCall	MultiLayerSubnetworkMgr_I::releaseCall	
modifyCall	MultiLayerSubnetworkMgr_I::modifyCall	
getAllCallsAndTopLevelConnections	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnections	
getAllCallsAndTopLevelConnectionsAndSNCs	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnectionsAndSNCs	
getCallAndTopLevelConnections	MultiLayerSubnetworkMgr_I::getCallAndTopLevelConnectionsAndSNCs	
getAllCallsAndTopLevelConnectionsWithME	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnectionsWithME	
getAllSubordinateRAIdsWithConnection	MultiLayerSubnetworkMgr_I::getAllSubordinateRAIdsWithConnection	
getAllCallIdsWithSNPPOrTNAName	MultiLayerSubnetworkMgr_I::getAllCallIdsWithSNPPOrTNAName	
getAllCallIdsWithTP	MultiLayerSubnetworkMgr_I::getAllCallIdsWithTP	
getAllCallsAndTopLevelConnectionsAndSNCs	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnectionsAndSNCs	
getAllCallsAndTopLevelConnectionsAndSNCsWithME	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnectionsAndSNCsWithME	
getAllCallsAndTopLevelConnectionsAndSNCsWithTP	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnectionsAndSNCsWithTP	
getCallAndTopLevelConnectionsAndSNCs	MultiLayerSubnetworkMgr_I::getCallAndTopLevelConnectionsAndSNCs	

5.60 NMSSession

IA	SS	Comment
NMSSession derived from Session	NmsSession_I	
Attributes		none
Relationships		none
Operations		
eventLossOccurred	NmsSession_I::eventLossOccurred	
alarmLossOccurred	NmsSession_I::alarmLossOccurred	
eventLossCleared	NmsSession_I::eventLossCleared	

5.61 ObjectInformation

IA	SS	Comment
ObjectInformation derived from EventInformation	"attributeList" in notification types "NT_ATTRIBUTE_VALUE_CHANGE" and "NT_STATE_CHANGE"	
Attributes		none
Relationships		
<i>attributes</i> to Attribute	"attributeList" in notification types "NT_ATTRIBUTE_VALUE_CHANGE" and "NT_STATE_CHANGE"	
Operations		none

5.62 PMCurrentData

IA	SS	Comment
PMCurrentData derived from PMData	retrievalTime of PMData_T	
Attributes		
retrievalTime	retrievalTime of PMData_T	
Relationships		
<i>retrieve current</i> to PerformanceManager	PerformanceManagementMgr_I::getAllCurrentPMData	

IA	SS	Comment
to PMMeasurement	pmMeasurementList of PMData_T	
Operations		none

5.63 PMData

IA	SS	Comment
PMData	PMData_T	
Attributes		
layerRate	layerRate of PMData_T	
granularity	granularity of PMData_T	
Relationships		
to TerminationPoint	tpName of PMData_T	
Operations		none

5.64 PMHistoricData

IA	SS	Comment
PMHistoricData derived from PMData	supportingDocumentation\PmFileFormat.html	
Attributes		
userLabel	"UserLabel" in PMDataRecords	
Relationships		
to HistoricalPMDataFile	Composition of PmFileFormat.html	
to PMHistoricMeasurement	Composition of PmFileFormat.html	
Operations		none

5.65 PMHistoricMeasurement

IA	SS	Comment
PMHistoricMeasurement derived from PMMeasurement	supportingDocumentation\PmFileFormat.html	

IA	SS	Comment
Attributes		
periodEndTime	"StartTime" + "MonitoredTime" in PMDataRecords	
monitoredTime	"MonitoredTime" in PMDataRecords	
numberOfPeriods	"NumberOfPeriods" in PMDataRecords	
Relationships		
to PMHistoricData	Composition of PmFileFormat.html	
Operations		none

5.66 PMMeasurement

IA	SS	Comment
PMMeasurement	pmMeasurementList_T	
Attributes		
pmParName	pmParameterName of pmMeasurementList_T	
value	value of pmMeasurementList_T	
status	intervalStatus of pmMeasurementList_T	
pmLocation	pmLocation of pmMeasurementList_T	
unit	unit of pmMeasurementList_T	
Relationships		
to PMCurrentData	pmMeasurementList of PMData_T	
Operations		none

5.67 PMPParameter

IA	SS	Comment
PMPParameter	pmParameterWithThresholdsList of PMP_T	
Attributes		

IA	SS	Comment
pmParameterName	pmParameterName of PMPParameterWithThresholds_T	
Relationships		
(pmParameter Role) to PerformanceMonitoringPoint	pmParameterWithThresholdsList of PMP_T	
<i>pmThreshold</i> to PMThreshold	pmThresholdList of PMPParameterWithThresholds_T	
Operations		none

5.68 PMThreshold

IA	SS	Comment
PMThreshold	PMThreshold_T	
Attributes		
thresholdType	thresholdType of PMThreshold_T	
triggerFlag	triggerFlag of PMThreshold_T	
value	value of PMThreshold_T	
unit	unit of PMThreshold_T	
Relationships		
(pmThreshold Role) to PMPParameter	pmThresholdList of PMPParameterWithThresholds_T	
Operations		none

5.69 PerformanceManager

IA	SS	Comment
PerformanceManager	PerformanceManagementMgr_I	
Attributes		none
Relationships		
<i>retrieve current</i> to PMCurrentData	PerformanceManagementMgr_I::getAllCurrentPMDData	
to EMS	EmsSession_I::getSupportedManagers	
Operations		

IA	SS	Comment
enablePMDData	PerformanceManagementMgr_I::enablePMDData	
disablePMDData	PerformanceManagementMgr_I::disablePMDData	
clearPMDData	PerformanceManagementMgr_I::clearPMDData	
getAllCurrentPMDData	PerformanceManagementMgr_I::getAllCurrentPMDData	
getHistoryPMDData	PerformanceManagementMgr_I::getHistoryPMDData	
getHoldingTime	PerformanceManagementMgr_I::getHoldingTime	
getMEPMCapabilities	PerformanceManagementMgr_I::getMEPMCapabilities	
enableTCA	PerformanceManagementMgr_I::enableTCA	
disableTCA	PerformanceManagementMgr_I::disableTCA	
createTCAPParameterProfile	PerformanceManagementMgr_I::createTCAPParameterProfile	
deleteTCAPParameterProfile	PerformanceManagementMgr_I::deleteTCAPParameterProfile	
getTCAPParameterProfile	PerformanceManagementMgr_I::getTCAPParameterProfile	
setTCAPParameterProfile	PerformanceManagementMgr_I::setTCAPParameterProfile	
getAllTCAPParameterProfiles	PerformanceManagementMgr_I::getAllTCAPParameterProfiles	
getAllTCAPParameterProfileNames	PerformanceManagementMgr_I::getAllTCAPParameterProfileNames	
getAllPMPs	PerformanceManagementMgr_I::getAllPMPs	
getAllPMPNames	PerformanceManagementMgr_I::getAllPMPNames	
getTPHistoryPMDData	PerformanceManagementMgr_I::getTPHistoryPMDData	

5.70 PerformanceMonitoringPoint

IA	SS	Comment
PerformanceMonitoringPoint derived from CommonResourceInfo	PMP_T	
Attributes		
layerRate	value of the PMP name is "layer rate-location-granularity" where <ul style="list-style-type: none"> layer rate are the digits as defined in LayerRate_T location is the string defined in PMLocation_T granularity is the string defined in Granularity_T Example: "15- PML_NEAR_END_Rx-15min".	
pmLocation		
granularity		

IA	SS	Comment
monitoringState	monitoringState of PMP_T	
supervisionState	supervisionState of PMP_T	
Relationships		
to TerminationPoint	PMP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "PTPName" [4. "CTPName"] 5. "PMPName"	
<i>pmParameter</i> to PMPParameter	pmParameterWithThresholdsList of PMP_T	
Operations		none

5.71 PhysicalTerminationPoint

IA	SS	Comment
PhysicalTerminationPoint derived from TerminationPoint	TerminationPoint_T with type = TPT_PTP	
Attributes		none
Relationships		
to ManagedElement	PTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "PTPName"	
to Equipment	EquipmentInventoryMgr_I::getAllSupportingEquipment EquipmentInventoryMgr_I::getAllSupportingEquipmentNames	
to ConnectionTerminationPoint	CTP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "PTPName" 4. "CTPName"	
(pgpPTPList Role) to ProtectionGroup	pgpTPLList of ProtectionGroup_T	
Operations		
getAllSupportingEquipment	EquipmentInventoryMgr_I::getAllSupportingEquipment	
getAllSupportingEquipmentNames	EquipmentInventoryMgr_I::getAllSupportingEquipmentNames	

5.72 PmpStateChangeInformation

IA	SS	Comment
PmpStateChangeInformation derived from Event	NT_PM_SC	
Attributes		
pmpNameList	"pmNameList"	
neTime	"neTime"	
emsTime	"emsTime"	
attributeList	"attributeList"	
Relationships		none
Operations		none

5.73 ProtectionGroup

IA	SS	Comment
ProtectionGroup derived from CommonResourceInfo	ProtectionGroup_T	
Attributes		
protectionGroupType	protectionGroupType of ProtectionGroup_T	
protectionSchemeState	protectionSchemeState of ProtectionGroup_T	
reversionMode	reversionMode of ProtectionGroup_T	
rate	rate of ProtectionGroup_T	
pgpParameters	pgpParameters of ProtectionGroup_T	
apsProtocolType	"G.774.3::APSfunction" in additionalInfo of ProtectionGroup_T	
asapPointer	"ASAPpointer" in additionalInfo of ProtectionGroup_T	
Relationships		
<i>performProtectionCommand()</i> <i>creates to SwitchData</i>	switchData of ProtectionMgr_I::performProtectionCommand	
to ManagedElement	ProtectionGroup naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "ProtectionGroupName"	

IA	SS	Comment
<i>pgpPTPList</i> to PhysicalTerminationPoint	pgpTPLList of ProtectionGroup_T	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of ProtectionGroup_T	
Operations		
performProtectionCommand	ProtectionMgr_I::performProtectionCommand	
retrieveSwitchData	ProtectionMgr_I::retrieveSwitchData	

5.74 ProtectionSwitch

IA	SS	Comment
ProtectionSwitch derived from Event	NT_PROTECTION_SWITCH	
Attributes		
neTime	"neTime"	
emsTime	"emsTime"	
protectionType	"protectionType"	
switchReason	"switchReason"	
layer	"layerRate"	
groupName	"groupName"	
protectedTP	"protectedTP"	
switchAwayFromTP	"switchAwayFromTP"	
switchToTP	"switchToTP"	
Relationships		none
Operations		none

5.75 Route

IA	SS	Comment
Route	RouteDescriptor_T	
Attributes		none

IA	SS	Comment
routeId	id of RouteDescriptor_T	
intended	intended of RouteDescriptor_T	
actualState	actualState of RouteDescriptor_T	
administrativeState	administrativeState of RouteDescriptor_T	
inUseBy	inUseBy of RouteDescriptor_T	
exclusive	exclusive of RouteDescriptor_T	
additionalInfo	additionalInfo of RouteDescriptor_T	
Relationships		
<i>is characterized by to</i> SubnetworkConnection	route of MultiLayerSubnetworkMgr_I::getRoute	
<i>partially ordered series of to</i> CrossConnect	routeXCs of RouteDescriptor_T	
(route Role) to SNCRouteChangeData	"route" in NT_ROUTE_CHANGE	
Operations		none

5.76 RouteCreateData

IA	SS	Comment
RouteCreateData	RouteCreateData_T	
Attributes		
intended	intended of RouteCreateData_T	
exclusive	exclusive of RouteCreateData_T	
fullRoute	fullRoute of RouteCreateData_T	
additionalCreationInfo	additionalCreationInfo of RouteCreateData_T	
Relationships		
ccInclusions to CrossConnect	ccInclusions of RouteCreateData_T	
tpInclusions TerminationPoint	neTpInclusions of RouteCreateData_T	
neInclusions to ManagedElement	neTpInclusions of	

IA	SS	Comment
	RouteCreateData_T	
tpExclusions to TerminationPoint	neTpSncExclusions of RouteCreateData_T	
neExclusion to ManagedElement	neTpSncExclusions of RouteCreateData_T	
sncExclusion to SubnetworkConnection	neTpSncExclusions of RouteCreateData_T	
tlExclusion to TopologicalLink	neTpSncExclusions of RouteCreateData_T	
tlInclusion to TopologicalLink	neTpInclusions of RouteCreateData_T	
gtpInclusions to GroupTerminationPoint	neTpInclusions of RouteCreateData_T	
gtpExclusions to GroupTerminationPoint	neTpSncExclusions of RouteCreateData_T	
Operations		none

5.77 SNCCreateData

IA	SS	Comment
SNCCreateData	SNCCreateData_T	
Attributes		
userLabel	userLabel of SNCCreateData_T	
forceUniqueness	forceUniqueness of SNCCreateData_T	
owner	owner of SNCCreateData_T	
direction	direction of SNCCreateData_T	
staticProtectionLevel	staticProtectionLevel of SNCCreateData_T	
protectionEffort	protectionEffort of SNCCreateData_T	
rerouteAllowed	rerouteAllowed of SNCCreateData_T	
networkRouted	networkRouted of SNCCreateData_T	
networkReroute	"NetworkReroute" in additionalInfo of SNCCreateData_T	
sncType	sncType of SNCCreateData_T	

IA	SS	Comment
layerRate	layerRate of SNCCreateData_T	
fullRoute	fullRoute of SNCCreateData_T	
additionalCreationInfo	additionalCreationInfo of SNCCreateData_T	
bundledSNCIndicator	"BundledSNCIndicator" in additionalInfo of SNCCreateData_T	
mustRemoveGTPs	"MustRemoveGTPs" in additionalInfo of SNCCreateData_T	
priority	"SNC_PRIORITY" in additionalInfo of SNCCreateData_T	
revertive	"SNC_REVERTIVE" in additionalInfo of SNCCreateData_T	
intendedRouteExclusive	"SNC_INTENDED_ROUTE_EXCLUSIVE" in additionalInfo of SNCCreateData_T	
alarmReportingIndication	"AlarmReporting" in additionalInfo of SNCCreateData_T	
aEndPointsRole	"A<n>Role" in additionalInfo of SNCCreateData_T	
zEndPointsRole	"Z<n>Role" in additionalInfo of SNCCreateData_T	
asapPointer	"ASAPpointer" in additionalInfo of SNCCreateData_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of in additionalInfo of SNCCreateData_T	
Relationships		
<i>ccInclusions</i> to CrossConnect	ccInclusions of SNCCreateData_T	
<i>tpInclusions</i> to TerminationPoint	neTpInclusions of SNCCreateData_T	
<i>neInclusions</i> to ManagedElement	neTpInclusions of SNCCreateData_T	
<i>sncExclusions</i> to SubnetworkConnection	neTpSncExclusions of SNCCreateData_T	
<i>tpExclusions</i> to TerminationPoint	neTpSncExclusions of SNCCreateData_T	
<i>neExclusions</i> to ManagedElement	neTpSncExclusions of SNCCreateData_T	
<i>aEnd</i> to ConnectionTerminationPoint	aEnd of SNCCreateData_T	
<i>zEnd</i> to ConnectionTerminationPoint	zEnd of SNCCreateData_T	

IA	SS	Comment
<i>tlInclusions</i> to TopologicalLink	neTpInclusions of SNCCreateData_T	
<i>tlExclusions</i> to TopologicalLink	neTpSncExclusions of SNCCreateData_T	
<i>zEnd</i> to GroupTerminationPoint	zEnd of SNCCreateData_T	
<i>aEnd</i> to GroupTerminationPoint	aEnd of SNCCreateData_T	
<i>gtpInclusions</i> to GroupTerminationPoint	neTpInclusions of SNCCreateData_T	
<i>gtpExclusions</i> to GroupTerminationPoint	neTpSncExclusions of SNCCreateData_T	
Operations		none

5.78 SNCModifyData

IA	SS	Comment
SNCModifyData derived from SNCCreateData	SNCModifyData_T	
Attributes		
modifyType	modifyType of SNCModifyData_T	
retainOldSNC	retainOldSNC of SNCModifyData_T	
modifyServersAllowed	modifyServersAllowed of SNCModifyData_T	
addedOrNewRoute	addedOrNewRoute of SNCModifyData_T	
removedRoute	removedRoute of SNCModifyData_T	
Relationships		none
Operations		none

5.79 SNCRouteChangeData

IA	SS	Comment
SNCRouteChangeData derived from EventInformation	NT_ROUTE_CHANGE	
Attributes		

IA	SS	Comment
routeChangeState	"routeChangeEvent" in NT_ROUTE_CHANGE	
Relationships		
<i>route</i> to Route	"route" in NT_ROUTE_CHANGE	
Operations		none

5.80 Session

IA	SS	Comment
Session	Session_I	
Attributes		none
Relationships		
(associatedSession Role) to Session	associatedSession attribute in Session_I	
Operations		
ping	Session_I::ping	
endSession	Session_I::endSession	

5.81 SessionFactory

IA	SS	Comment
SessionFactory	EmsSessionFactory_I	
Attributes		none
Relationships		none
Operations		
getSession	EmsSessionFactory_I::getEmsSession	

5.82 SoftwareBackupStatus

IA	SS	Comment
SoftwareBackupStatus derived from Event	NT_BACKUP_STATUS	

IA	SS	Comment
Attributes		
meName	"meName"	
neTime	"neTime"	
emsTime	"emsTime"	
backupStatus	"backupStatus"	
Relationships		none
Operations		none

5.83 SoftwareManager

IA	SS	Comment
SoftwareManager	SoftwareAndDataManager_I	
Attributes		none
Relationships		
to EMS	EmsSession_I::getSupportedManagers	
Operations		
backupME	SoftwareAndDataManager_I::backupME	
getMEBackupStatus	SoftwareAndDataManager_I::getMEBackupStatus	
abortMEBackup	SoftwareAndDataManager_I::abortMEBackup	
getBackupList	SoftwareAndDataManager_I::getBackupList	

5.84 MultiLayerSubnetwork

IA	SS	Comment
MultiLayerSubnetwork derived from CommonResourceInfo	MultiLayerSubnetwork_T	
Attributes		
subnetworkType	subnetworkType of MultiLayerSubnetwork_T	
connectionRates	supportedRates of MultiLayerSubnetwork_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of MultiLayerSubnetwork_T	

IA	SS	Comment
Relationships		
to EMS	Subnetwork naming: 1. "CompanyName/EMSname" 2. "SubnetworkName"	
to TopologicalLink	MultiLayerSubnetworkMgr_I::getAllTopologicalLinkNames MultiLayerSubnetworkMgr_I::getAllTopologicalLinks	
to TPPool	TPPool naming: 1. "CompanyName/EMSname" 2. "SubnetworkName" 3. "TPPoolName"	
<i>associated with</i> to ManagedElement	MultiLayerSubnetworkMgr_I::getAllManagedElementNames MultiLayerSubnetworkMgr_I::getAllManagedElements	
to SubnetworkConnection	SubnetworkConnection naming: 1. "CompanyName/EMSname" 2. "SubnetworkName" 3. "SubnetworkConnectionName"	
<i>bounded by</i> to TerminationPoint	MultiLayerSubnetworkMgr_I::getAllEdgePointNames MultiLayerSubnetworkMgr_I::getAllEdgePoints	
Operations		
createSNC	MultiLayerSubnetworkMgr_I::createSNC	
checkValidSNC	MultiLayerSubnetworkMgr_I::checkValidSNC	
activateSNC	MultiLayerSubnetworkMgr_I::activateSNC	
createAndActivateSNC	MultiLayerSubnetworkMgr_I::createAndActivateSNC	
deactivateSNC	MultiLayerSubnetworkMgr_I::deactivateSNC	
deleteSNC	MultiLayerSubnetworkMgr_I::deleteSNC	
deactivateAndDeleteSNC	MultiLayerSubnetworkMgr_I::deactivateAndDeleteSNC	
getAllManagedElements	MultiLayerSubnetworkMgr_I::getAllManagedElements	
getAllManagedElementNames	MultiLayerSubnetworkMgr_I::getAllManagedElementNames	
getAllTopologicalLinks	MultiLayerSubnetworkMgr_I::getAllTopologicalLinks	
getAllTopologicalLinkNames	MultiLayerSubnetworkMgr_I::getAllTopologicalLinkNames	
getTopologicalLink	MultiLayerSubnetworkMgr_I::getTopologicalLink	
getAllSubnetworkConnections	MultiLayerSubnetworkMgr_I::getAllSubnetworkConnections	

IA	SS	Comment
	ns	
getAllSubnetworkConnectionNames	MultiLayerSubnetworkMgr_I::getAllSubnetworkConnectionNames	
getAllSubnetworkConnectionsWithTP	MultiLayerSubnetworkMgr_I::getAllSubnetworkConnectionsWithTP	
getAllSubnetworkConnectionNamesWithTP	MultiLayerSubnetworkMgr_I::getAllSubnetworkConnectionNamesWithTP	
getSNC	MultiLayerSubnetworkMgr_I::getSNC	
getAllEdgePoints	MultiLayerSubnetworkMgr_I::getAllEdgePoints	
getAllEdgePointNames	MultiLayerSubnetworkMgr_I::getAllEdgePointNames	
getAssociatedTP	MultiLayerSubnetworkMgr_I::getAssociatedTP	
getAllTPPools	MultiLayerSubnetworkMgr_I::getAllTPPools	
getAllTPPoolNames	MultiLayerSubnetworkMgr_I::getAllTPPoolNames	
getTPPool	MultiLayerSubnetworkMgr_I::getTPPool	
createTPPool	MultiLayerSubnetworkMgr_I::createTPPool	
deleteTPPool	MultiLayerSubnetworkMgr_I::deleteTPPool	
modifyTPPool	MultiLayerSubnetworkMgr_I::modifyTPPool	
getSNCsByUserLabel	MultiLayerSubnetworkMgr_I::getSNCsByUserLabel	
getAllFixedSubnetworkConnections	MultiLayerSubnetworkMgr_I::getAllFixedSubnetworkConnections	
getAllFixedSubnetworkConnectionNames	MultiLayerSubnetworkMgr_I::getAllFixedSubnetworkConnectionNames	
getAllFixedSubnetworkConnectionsWithTP	MultiLayerSubnetworkMgr_I::getAllFixedSubnetworkConnectionsWithTP	
getAllFixedSubnetworkConnectionNamesWithTP	MultiLayerSubnetworkMgr_I::getAllFixedSubnetworkConnectionNamesWithTP	
createModifiedSNC	MultiLayerSubnetworkMgr_I::createModifiedSNC	
swapSNC	MultiLayerSubnetworkMgr_I::swapSNC	
modifySNC	MultiLayerSubnetworkMgr_I::modifySNC	
getAllCallsAndSNCs	MultiLayerSubnetworkMgr_I::getAllCallsAndSNCs	
getCallAndSNCs	MultiLayerSubnetworkMgr_I::getCallAndTopLevelConnectionsAndSNCs	

IA	SS	Comment
getAllCallsAndSNCsWithTP	MultiLayerSubnetworkMgr_I::getAllCallsAndTLConnectionsAndSNCsWithTP	
getCall	MultiLayerSubnetworkMgr_I::getCall	
getAllCallsAndSNCsWithME	MultiLayerSubnetworkMgr_I::getAllCallsAndTopLevelConnectionsWithME	
establishCall	MultiLayerSubnetworkMgr_I::establishCall	
releaseCall	MultiLayerSubnetworkMgr_I::releaseCall	
modifyCall	MultiLayerSubnetworkMgr_I::modifyCall	

5.85 SubnetworkConnection

IA	SS	Comment
SubnetworkConnection derived from CommonResourceInfo	SubnetworkConnection_T	
Attributes		
direction	direction of SubnetworkConnection_T	
connectionRate	rate of SubnetworkConnection_T	
staticProtectionLevel	staticProtectionLevel of SubnetworkConnection_T	
sncState	sncState of SubnetworkConnection_T	
rerouteAllowed	rerouteAllowed of SubnetworkConnection_T	
networkRouted	networkRouted of SubnetworkConnection_T	
networkReroute	"NetworkReroute" in additionalInfo of SubnetworkConnection_T	
sncType	sncType of SubnetworkConnection_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of SubnetworkConnection_T	
alarmReportingIndication	"AlarmReporting" in additionalInfo of SubnetworkConnection_T	
correlationId	"CorrelationId" in additionalInfo of SubnetworkConnection_T	
bundledSNCIndicator	"BundledSNCIndicator" in additionalInfo of SubnetworkConnection_T	
mustRemoveGTPs	"MustRemoveGTPs" in additionalInfo of	

IA	SS	Comment
	SubnetworkConnection_T	
fixed	"Fixed" in additionalInfo of SubnetworkConnection_T	
revertive	"SNC_REVERTIVE" in additionalInfo of SubnetworkConnection_T	
priority	"SNC_PRIORITY" in additionalInfo of SubnetworkConnection_T	
retainOldSNC	"retainOldSNC" in additionalInfo of SubnetworkConnection_T	
asapPointer	"ASAPpointer" in additionalInfo of SubnetworkConnection_T	
aEndPointsRole	"A<n>Role" in additionalInfo of SubnetworkConnection_T	
zEndPointsRole	"Z<n>Role" in additionalInfo of SubnetworkConnection_T	
Relationships		
to Subnetwork	SubnetworkConnection naming: 1. "CompanyName/EMSname" 2. "SubnetworkName" 3. "SubnetworkConnectionName"	
<i>is characterized by</i> to Route	route of MultiLayerSubnetworkMgr_I::getRoute	
(sncExclusions Role) to SNCCreateData	neTpSncExclusions of SNCCreateData_T	
<i>aEnd</i> to GroupTerminationPoint	aEnd of SubnetworkConnection_T	
<i>zEnd</i> to GroupTerminationPoint	zEnd of SubnetworkConnection_T	
(sncExclusion Role) to RouteCreateData	neTpSncExclusions of RouteCreateData_T	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of SubnetworkConnection_T	
<i>aEnd</i> to TerminationPoint	aEnd of SubnetworkConnection_T	
<i>zEnd</i> to TerminationPoint	zEnd of SubnetworkConnection_T	
Operations		
getRoute	MultiLayerSubnetworkMgr_I::getRoute	
setAlarmReportingOn	Common_I::setAdditionalInfo	
setAlarmReportingOff	Common_I::setAdditionalInfo	
getRouteAndTopologicalLinks	MultiLayerSubnetworkMgr_I::getRouteAndTopologicalLinks	
getBackupRoutes	MultiLayerSubnetworkMgr_I::getBackupRoutes	

IA	SS	Comment
switchRoute	MultiLayerSubnetworkMgr_I::switchRoute	
addRoute	MultiLayerSubnetworkMgr_I::addRoute	
removeRoute	MultiLayerSubnetworkMgr_I::removeRoute	
setIntendedRoute	MultiLayerSubnetworkMgr_I::setIntendedRoute	
getIntendedRoute	MultiLayerSubnetworkMgr_I:: getIntendedRoute	
setRoutesAdminState	MultiLayerSubnetworkMgr_I::setRoutesAdminState	

5.86 Supplier

IA	SS	Comment
Supplier	CORBA notification service	
Attributes		none
Relationships		
push events to Consumer	use of Push Model with StructuredEvent	
to EMSSession	EmsSession_I::getEventChannel	
Operations		none

5.87 SwitchData

IA	SS	Comment
SwitchData	SwitchData_T	
Attributes		
protectionType	protectionType of SwitchData_T	
switchReason	switchReason of SwitchData_T	
layerRate	layerRate of SwitchData_T	
additionalInfo	additionalInfo of SwitchData_T	
Relationships		
group to ProtectionGroup	groupName of SwitchData_T	
protectedTP to TerminationPoint	protectedTP of SwitchData_T	

IA	SS	Comment
switchToTP to TerminationPoint	switchToTP of SwitchData_T	
Operations		none

5.88 TCAPParameter

IA	SS	Comment
TCAPParameter	TCAPParameter_T	
Attributes		
pmParameterName	pmParameterName of TCAPParameter_T	
granularity	granularity of TCAPParameter_T	
pmLocation	pmLocation of TCAPParameter_T	
thresholdType	thresholdType of TCAPParameter_T	
triggerFlag	triggerFlag of TCAPParameter_T	
value	value of TCAPParameter_T	
unit	unit of TCAPParameter_T	
Relationships		
(tcaParameter Role) to TCAPParameterProfile	tcaParameterList of TCAPParameterProfile_T	
Operations		none

5.89 TCAPParameterProfile

IA	SS	Comment
TCAPParameterProfile	TCAPParameterProfile_T	
Attributes		
layerRate	layerRate of TCAPParameterProfile_T	
associatedTPs	PerformanceManagementMgr_I::getProfileAssociatedTPs	
Relationships		
to TerminationPoint	layered parameter "TCAPParameterProfilePointer" in supporting document LayeredParameters.pdf	

IA	SS	Comment
to ManagedElement	TCAPParameterProfile naming: 1. "CompanyName/EMSname" 2. "ManagedElementName" 3. "TCAPParameterProfileName"	
<i>tcaParameter</i> to TCAPParameter	tcaParameterList of TCAPParameterProfile_T	
Operations		
getAssociatedTPs	PerformanceManagementMgr_I::getProfileAssociatedTPs	

5.90 TCProfileCreateModifyData

IA	SS	Comment
TCProfileCreateModifyData	TCProfileCreateData_T	
Attributes		
userLabel	userLabel of TCProfileCreateData_T	
forceUniqueness	forceUniqueness of TCProfileCreateData_T	
owner	owner of TCProfileCreateData_T	
additionalCreationInfo	additionalInfo of TCProfileCreateData_T	
Relationships		none
<i>trafficConditioningParameters</i> to TransmissionParameters	transmissionParams of TCProfileCreateData_T	
Operations		none

5.91 TDCreateData

IA	SS	Comment
TDCreateData	TDCreateData_T	
Attributes		
userLabel	userLabel of TDCreateData_T	
forceUniqueness	forceUniqueness of TDCreateData_T	
owner	owner of TDCreateData_T	

IA	SS	Comment
serviceCategory	serviceCategory of TDCreateData_T	
trafficParameters	trafficParameters of TDCreateData_T	
conformanceDefinition	conformanceDefinition of TDCreateData_T	
additionalCreationInfo	additionalInfo of TDCreateData_T	
Relationships		none
Operations		none

5.92 TLCreateData

IA	SS	Comment
TLCreateData	TLCreateData_T	
Attributes		
userLabel	userLabel of TLCreateData_T	
forceUniqueness	forceUniqueness of TLCreateData_T	
owner	owner of TLCreateData_T	
direction	direction of TLCreateData_T	
layerRate	rate of TLCreateData_T	
alarmReportingIndication	"AlarmReporting" in additionalCreationInfo of TLCreateData_T	
asapPointer	"ASAPpointer" in additionalCreationInfo of TLCreateData_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of TLCreateData_T	
additionalCreationInfo	additionalCreationInfo of TLCreateData_T	
Relationships		
<i>aEndTP</i> to TerminationPoint	aEndTP of TLCreateData_T	
<i>zEndTP</i> to TerminationPoint	zEndTP of TLCreateData_T	
Operations		none

5.93 TPData

IA	SS	Comment
TPData	TPData_T	
Attributes		
tpMappingMode	tpMappingMode of TPData_T	
Relationships		
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of TPData_T	
<i>ingress</i> to TrafficDescriptor	ingressTrafficDescriptorName of TPData_T	
<i>egress</i> to TrafficDescriptor	egressTrafficDescriptorName of TPData_T	
<i>applied to</i> to ConnectionTerminationPoint	tpName of TPData_T	
Operations		none

5.94 TPPool

IA	SS	Comment
TPPool derived from CommonResourceInfo	TerminationPoint_T with type = TPT_TPPool	The attributes - ingressTrafficDescriptorName - egressTrafficDescriptorName - connectionState - tpMappingMode - direction - tpProtectionAssociation and - edgePoint of the TerminationPoint_T struct are not relevant for the TPPool Objekt.
Attributes		
numberOfMembers	Output parameter "numberOfMembers" in MultiLayerSubnetworkMgr_I::getTP Pool	
numberOfIdleMembers	Output parameter "numberOfIdleMembers" in MultiLayerSubnetworkMgr_I::getTP Pool	
descriptionOfUse	Output parameter "descriptionOfUse" in MultiLayerSubnetworkMgr_I::getTP	

IA	SS	Comment
	Pool	
Relationships		
to Subnetwork	TPPool naming: 1. "CompanyName/EMSname" 2. "SubnetworkName" 3. "TPPoolName"	
to CommonTransmissionParameters	transmissionParams of TerminationPoint_T	
<i>contained TP members to TerminationPoint</i>	MultiLayerSubnetworkMgr_I::getTPGroupingRelationships with tpName = TPPool name	
<i>contained GTP members to GroupTerminationPoint</i>	MultiLayerSubnetworkMgr_I::getTPGroupingRelationships with tpName = TPPool name	
Operations		
getTPGroupingRelationships	MultiLayerSubnetworkMgr_I::getTPGroupingRelationships with tpName = TPPool name	

5.95 TPPoolCreateData

IA	SS	Comment
TPPoolCreateData	TPPoolCreateData_T	
Attributes		
userLabel	userLabel of TPPoolCreateData_T	
forceUniqueness	forceUniqueness of TPPoolCreateData_T	
owner	owner of TPPoolCreateData_T	
containedMembers	containedMembers of TPPoolCreateData_T	
descriptionOfUse	descriptionOfUse of TPPoolCreateData_T	
additionalCreationInfo	additionalInfo of TPPoolCreateData_T	
Relationships		
to CommonTransmissionParameters	transmissionParams of TPPoolCreateData_T	
Operations		none

5.96 TerminationPoint

IA	SS	Comment
TerminationPoint derived from CommonResourceInfo	TerminationPoint_T	
Attributes		
direction	direction of TerminationPoint_T	
protectionAssociation	tpProtectionAssociation of TerminationPoint_T	
edgePoint	edgePoint of TerminationPoint_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of TerminationPoint_T	
equipmentProtected	"EquipmentProtected" in additionalInfo of TerminationPoint_T	
egressTMDState	"EgressTMDstate" in additionalInfo of TerminationPoint_T	
ingressTMDState	"IngressTMDstate" in additionalInfo of TerminationPoint_T	
Relationships		
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of TerminationPoint_T	
to PMData	tpName of PMData_T	
<i>associated with</i> to TerminationPoint	tpProtectionAssociation of TerminationPoint_T	
is terminated by (aEndTP Role) to TopologicalLink	aEndTP of TopologicalLink_T	
is terminated by (zEndTP Role) to TopologicalLink	zEndTP of TopologicalLink_T	
(tpInclusions Role) to SNCCreateData	neTpInclusions of SNCCreateData_T	
(tpExclusions Role) to SNCCreateData	neTpSncExclusions of SNCCreateData_T	
<i>bounded by</i> to Subnetwork	MultiLayerSubnetworkMgr_I::getAllEdgePointNames MultiLayerSubnetworkMgr_I::getAllEdgePoints	
performProtectionCommand() creates (protectedTP Role) to SwitchData	protectedTP of SwitchData_T	
performProtectionCommand() creates (switchToTP Role) to SwitchData	switchToTP of SwitchData_T	
to TCAPParameterProfile	layered parameter "TCAPParameterProfilePointer" in supporting document layeredParameters.html	
to PerformanceMonitoringPoint	PMP naming: 1. "CompanyName/EMSname" 2. "ManagedElementName"	

IA	SS	Comment
	3. "PTPName" [4. "CTPName"] 5. "PMPName"	
<i>contained TP members</i> to TPPool	MultiLayerSubnetworkMgr_I::getTPGroupingRelationships with tpName = PTP/CTP/FTP name	
(aEndTP Role) to TLCreateData	aEndTP of TLCreateData_T	
(zEndTP Role) to TLCreateData	zEndTP of TLCreateData_T	
<i>egressTransmissionDescriptor</i> to TransmissionDescriptor	egressTrafficDescriptorName of TerminationPoint_T	
<i>ingressTransmissionDescriptor</i> to TransmissionDescriptor	ingressTrafficDescriptorName of TerminationPoint_T	
(tpInclusions Role) to RouteCreateData	neTpInclusions of RouteCreateData_T	
(tpExclusions Role) to RouteCreateData	neTpSncExclusions of RouteCreateData_T	
to AlarmSeverityAssignmentProfile	layered parameter "ASAPPointer" in supporting document LayeredParameters.pdf	
(aEnd Role) to SubnetworkConnection	aEnd of SubnetworkConnection_T	
(zEnd Role) to SubnetworkConnection	zEnd of SubnetworkConnection_T	
Operations		
getContainedPotentialCTPs	ManagedElementMgr_I::getContainedPotentialTPs	
getContainedPotentialCTPNames	ManagedElementMgr_I::getContainedPotentialTPNames	
getContainedInUseCTPs	ManagedElementMgr_I::getContainedInUseTPs	
getContainedInUseCTPNames	ManagedElementMgr_I::getContainedInUseTPNames	
getContainedCurrentCTPs	ManagedElementMgr_I::getContainedCurrentTPs	
getContainedCurrentCTPNames	ManagedElementMgr_I::getContainedCurrentTPNames	
performMaintenanceOperation	MaintenanceMgr_I::performMaintenanceOperation	
getActiveMaintenanceOperations	MaintenanceMgr_I::getActiveMaintenanceOperations	
getTCAPParameter	PerformanceManagementMgr_I::getTCATPPParameter	
setTCAPParameter	PerformanceManagementMgr_I::setTCATPPParameter	
setTCAPParameterProfilePointer	PerformanceManagementMgr_I::setTCAPParameterProfilePointer	

IA	SS	Comment
getTPGroupingRelationships	MultiLayerSubnetworkMgr_I::getTPGroupingRelationships with tpName = PTP/CTP/FTP	
verifyTMDAssignment	ManagedElementMgr_I::verifyTMDAssignment	
setTransmissionDescriptorAssociation	through transmissionParams in TPData_T of: tpInfo in ManagedElementMgr_I::setTPData and tpsToModify in SNC related operations of MultiLayerSubnetworkMgr_I	
getPotentialFixedCCs	ManagedElementMgr_I::getPotentialFixedCCs	

5.97 ThresholdCrossingAlertInformation

IA	SS	Comment
ThresholdCrossingAlertInformation derived from EventInformation	NT_TCA	
Attributes		
nativeEMSName	"nativeEMSName"	
isClearable	"isClearable"	
perceivedSeverity	"perceivedSeverity"	
layerRate	"layerRate"	
granularity	"granularity"	
pmParameterName	"pmParameterName"	
pmLocation	"pmLocation"	
thresholdType	"thresholdType"	
value	"value"	
unit	"unit"	
acknowledgeIndication	"acknowledgeIndication"	
Relationships		none
Operations		none

5.98 TopologicalLink

IA	SS	Comment
TopologicalLink derived from CommonResourceInfo	TopologicalLink_T	
Attributes		
direction	direction of TopologicalLink_T	
layerRate	rate of TopologicalLink_T	
networkAccessDomain	"NetworkAccessDomain" in additionalInfo of TopologicalLink_T	
alarmReportingIndication	"AlarmReporting" in additionalInfo of TopologicalLink_T	
asapPointer	"ASAPpointer" in additionalInfo of TopologicalLink_T	
Relationships		
to EMS	TopologicalLink naming: 1."CompanyName/EMSname" 2."TopologicalLinkName"	
to Subnetwork	MultiLayerSubnetworkMgr_I::getAllTopologicalLinkNames MultiLayerSubnetworkMgr_I::getAllTopologicalLinks	
aEndTP : <i>is terminated by</i> to TerminationPoint	aEndTP of TopologicalLink_T	
zEndTP : <i>is terminated by</i> to TerminationPoint	zEndTP of TopologicalLink_T	
(tlInclusions Role) to SNCCreateData	neTpInclusions of SNCCreateData_T	
(tlExclusions Role) to SNCCreateData	neTpSncExclusions of SNCCreateData_T	
(tlInclusions Role) to RouteCreateData	neTpInclusions of RouteCreateData_T	
(tlExclusions Role) to RouteCreateData	neTpSncExclusions of RouteCreateData_T	
to AlarmSeverityAssignmentProfile	"ASAPpointer" in additionalInfo of TopologicalLink_T	
Operations		
setAlarmReportingOn	Common_I::setAdditionalInfo	
setAlarmReportingOff	Common_I::setAdditionalInfo	

5.99 TrafficConditioningProfile

IA	SS	Comment
TrafficConditioningProfile derived from CommonResourceInfo	TCProfile_T	
Attributes		
defaultProfile	defaultProfile of TCProfile_T	
Relationships		
to EMS	TrafficConditioningProfile naming: 1. "CompanyName/EMSname" 2. "TCProfileName"	
<i>layeredTrafficConditioningParameters</i> to TransmissionParameters	transmissionParams of TCProfile_T	
Operations		
getTCProfileAssociatedTPs	TCProfileMgr_I::getTCProfileAssociatedTPs	

5.100 TrafficDescriptor

IA	SS	Comment
TrafficDescriptor derived from CommonResourceInfo	TrafficDescriptor_T	
Attributes		
serviceCategory	serviceCategory of TrafficDescriptor_T	
conformanceDefn	conformanceDefinition of TrafficDescriptor_T	
trafficParameters	trafficParameters of TrafficDescriptor_T	
Relationships		
to EMS	TrafficDescriptor naming: 1. "CompanyName/EMSname" 2. "TrafficDescriptorName"	
(ingress Role) to TPData	ingressTrafficDescriptorName of TPData_T	
(egress Role) to TPData	egressTrafficDescriptorName of TPData_T	
egressTrafficDescriptor (egress Role) to ConnectionTerminationPoint	egressTrafficDescriptorName of SubnetworkConnection_T	

IA	SS	Comment
ingressTrafficDescriptor (ingress Role) to ConnectionTerminationPoint	ingressTrafficDescriptorName of SubnetworkConnection_T	
Operations		
getAssociatedCTPs	TrafficDescriptorMgr_I::getAssociatedCTPs	

5.101 TransmissionDescriptor

IA	SS	Comment
TransmissionDescriptor derived from CommonResourceInfo	TransmissionDescriptor_T	
Attributes		
additionalTPInfo	additionalTPInfo of TransmissionDescriptor_T	
externalRepresentationReference	externalRepresentationReference of TransmissionDescriptor_T	
Relationships		
egressTransmissionDescriptor (egress Role) to TerminationPoint	egressTrafficDescriptorName of TerminationPoint_T	
ingressTransmissionDescriptor (ingress Role) to TerminationPoint	ingressTrafficDescriptorName of TerminationPoint_T	
to EMS	TransmissionDescriptor naming: 1. "CompanyName/EMSname" 2. "TransmissionDescriptorName"	
containingTMD to TransmissionDescriptor	containingTMDName of TransmissionDescriptor_T	
transmissionParameters to TransmissionParameters	transmissionParams of TransmissionDescriptor_T	
Operations		
getAssociatedTPs	TransmissionDescriptorMgr_I::getAssociatedTPs	

5.102 TransmissionDescriptorCreateData

IA	SS	Comment
TransmissionDescriptorCreateData	TMDCreateData_T	
Attributes		

IA	SS	Comment
userLabel	userLabel of TMDCreateData_T	
forceUniqueness	forceUniqueness of TMDCreateData_T	
owner	owner of TMDCreateData_T	
additionalTPInfo	additionalTPInfo of TMDCreateData_T	
containingTMDName	containingTMDName of TMDCreateData_T	
externalRepresentationReference	externalRepresentationReference of TMDCreateData_T	
additionalCreationInfo	additionalCreationInfo of TMDCreateData_T	
Relationships		
<i>transmissionParameters</i> to TransmissionParameters	transmissionParams of TMDCreateData_T	
Operations		none

5.103 TransmissionParameters

IA	SS	Comment
TransmissionParameters	LayeredParameterList_T	
Attributes		
layerRate	layer of LayeredParameterList_T	
transmissionParameters	transmissionParams of LayeredParameterList_T	
Relationships		
(transmissionParameters Role) to TerminationPoint	transmissionParams of TerminationPoint_T	
(transmissionParameters Role) to TPData	transmissionParams of TPData_T	
(transmissionParameters Role) to TransmissionDescriptorCreateData	transmissionParams of TMDCreateData_T	
to TransmissionDescriptor	transmissionParams of TransmissionDescriptor_T	
Operations		

IA	SS	Comment
setTransmissionParameters	through transmissionParams in TPData_T of: tpInfo in ManagedElementMgr_I::setTPData and tpsToModify in SNC related operations of MultiLayerSubnetworkMgr_I	

5.104 Version

IA	SS	Comment
Version	Version_I	
Attributes		none
Relationships		none
Operations		
getVersion	Version_I::getVersion	

6 Enums

IA	SS	Comment
AcknowledgeIndication	"acknowledgeIndication" in notification types NT_ALARM and NT_TCA	
ActualState	actualState of RouteDescriptor_T	
AssignedSeverity	aSAP::AssignedSeverity_T	
CommunicationState	managedElement::CommunicationState_T	
ConnectionDirection	globaldefs::ConnectionDirection_T	
ControlState	performance::AdministrativeState_T and AdministrativeState of RouteDescriptor_T	
Directionality	terminationPoint::Directionality_T	
EProtectionGroupType	protection::EProtectionGroupType_T	
ESwitchReason	protection::ESwitchReason_T	
FileTransferStatusEnum	notifications::FileTransferStatus_T	
FreedomLevel	multiLayerSubnetwork::EMSFreedomLevel_T	

IA	SS	Comment
GradesOfImpact	subnetworkConnection::GradesOfImpact_T	
Granularity	performance::Granularity_T	
GTPEffort	terminationPoint::GTPEffort_T	
HolderState	equipment::HolderState_T	
LayerRate	transmissionParameters::LayerRate_T	
MaintenanceOperationMode	maintenanceOps::MaintenanceOperationMode_T	
ModifyType	modify_type of SNCModifyData_T	
NetworkRouted	subnetworkConnection::NetworkRouted_T	
ObjectType	notifications::ObjectType_T	
OperationStatus	softwareAndDataManager::Current_OperationStatus_T	
PerceivedSeverity	notifications::PerceivedSeverity_T	
PMLocation	performance::PMLocation_T	
PMThresholdType	performance::PMThresholdType_T	
ProtectionCommand	protection::ProtectionCommand_T	
ProtectionEffort	subnetworkConnection::ProtectionEffort_T	
ProtectionGroupType	protection::ProtectionGroupType_T	
ProtectionRole	"ProtectionRole" in additionalInfoUsage supporting document	
ProtectionSchemeState	protection::ProtectionSchemeState_T	
ProtectionType	protection::ProtectionType_T	
Reroute	subnetworkConnection::Reroute_T	
RerouteAllowed	subnetworkConnection::Reroute_T	
ReversionMode	protection::ReversionMode_T	
RouteChangeState	subnetworkConnection:: RerouteChangeEvent_T	
Note: "RouteAdded" is modelled via object creation notification of Route object "RouteRemoved" is modelled via object deletion notification of Route object "RouteSetToIntended" is modelled via AVC notification of attribute		

IA	SS	Comment
intended within Route object		
ServerLaunchCapability	guiCutThrough::ServerLaunchCapability_T	
ServiceAffecting	notifications::ServiceAffecting_T	
ServiceCategory	trafficDescriptor::ServiceCategory_T	
ServiceState	equipment::ServiceState_T	
SNCState	subnetworkConnection::SNCState_T	
SNCType	subnetworkConnection::SNCType_T	
StaticProtectionLevel	subnetworkConnection::StaticProtectionLevel_T	
SwitchReason	protection::SwitchReason_T	
TerminationMode	terminationPoint::TerminationMode_T	
TMDState	"EgressTMDstate" and "IngressTMDstate" in additionalInfoUsage supporting document	
Topology	multiLayerSubnetwork::Topology_T	
TPConnectionState	terminationPoint::TPConnectionState_T	
TPProtectionAssociation	terminationPoint::TPProtectionAssociation_T	
TPRole	"A<n> Role " and "Z<n> Role " in additionalInfoUsage supporting document	TPRole is mapped in IDL to values of "A<n> Role " and "Z<n> Role " parameters see also Structs::EndPointRole

7 Strings

IA	SS	Comment
PMPParameterName	performance::PMPParameterName_T	
ProbableCause	notifications::ProbableCauseList_T	

8 Structs

IA	SS	Comment
AlarmIdentifier	notifications::AlarmId_T	

IA	SS	Comment
AlarmSeverityAssignment	aSAP::AlarmSeverityAssignment_T	
AVP	globaldefs::NVSList_T	
BackupIdentifier	softwareAndDataManager::BackupId_T	
BackupStatus	softwareAndDataManager::BackupStatus_T	
CurrentMaintenanceOperation	maintenanceOperation, layerRate and additionalInfo of maintenanceOps::CurrentMaintenanceOperation_T	
CurrentMaintenanceOperation_TP	tpName and maintenanceOperation of maintenanceOps::CurrentMaintenanceOperation_T	
Duration	Log CORBA Telecom Service	
EndPointRole	"A<n>Role" and "Z<n>Role" in additionalInfoUsage supporting document	<i>tpIndex</i> of EndPointRole is mapped in IDL to <n> and <i>role</i> of EndPointRole is mapped in IDL to values of "A<n>Role" and "Z<n>Role" parameters see also Enums::TPRole
FiniteLogSize	Log CORBA Telecom Service	
GuiCutThroughData	guiCutThrough::GuiCutThroughData_T	
PMTPSelect	performance::PMTPSelect_T	
RouteNameAndAdminState	subnetworkConnection::RouteNameAndAdminState_T	
TCAIdentifier	notifications::TCAId_T	
Time24	Log CORBA Telecom Service	
Time24Interval	Log CORBA Telecom Service	
WeekMask	Log CORBA Telecom Service	

Revision History

Version	Date	Description of Change
3.0	April 2005	
3.1	March 2007	
3.2	Nov 2007	Corrected formatting errors Replaced operation FlowDomainMgr_I::validateTMDAssignmentToMFD with TransmissionDescriptorMgr_I::validateTMDAssignmentToObject

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Bernd	Zeuner	T-Systems
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How to comment on the 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.