



TAPI UML Model

Version 2.5.0

ONF Document Type: Technical Recommendation

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Open Networking Foundation
1000 El Camino Real, Suite 100, Menlo Park, CA 94025
www.opennetworking.org

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Document History

Version	Date	Description of Change
2.3	May 27, 2021	<p>Model Dump</p> <p><i>Gendoc generates documentation from Eclipse Modeling Framework (EMF) models using document templates in formats such as OpenOffice Writer (.odt), Microsoft Word (.docx), Microsoft Excel (.xlsx) and Microsoft Powerpoint (.pptx).</i></p>
2.4.0	December 2022	See high level diff document in Github
2.4.1	March 2023	See high level diff document in Github
2.5.0	October 2023	See high level diff document in Github

1 Ethernet Model

TapiEth: This module contains TAPI Ethernet Model definitions. Source: TapiEth.uml Copyright (c) 2023 Open Networking Foundation (ONF). All rights reserved. License: This module is distributed under the Apache License 2.0

[\$model_name]/

1.1 Diagrams

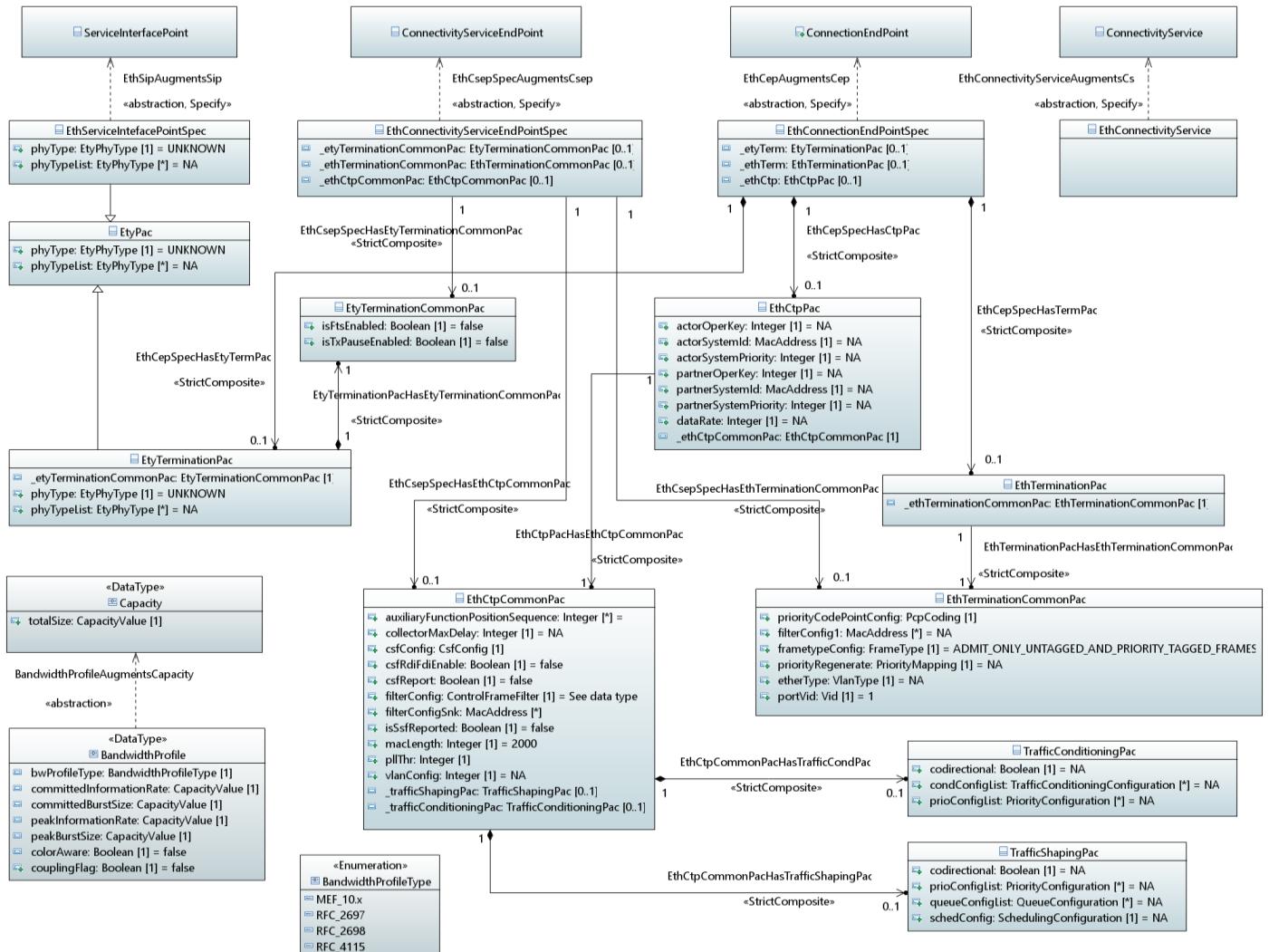
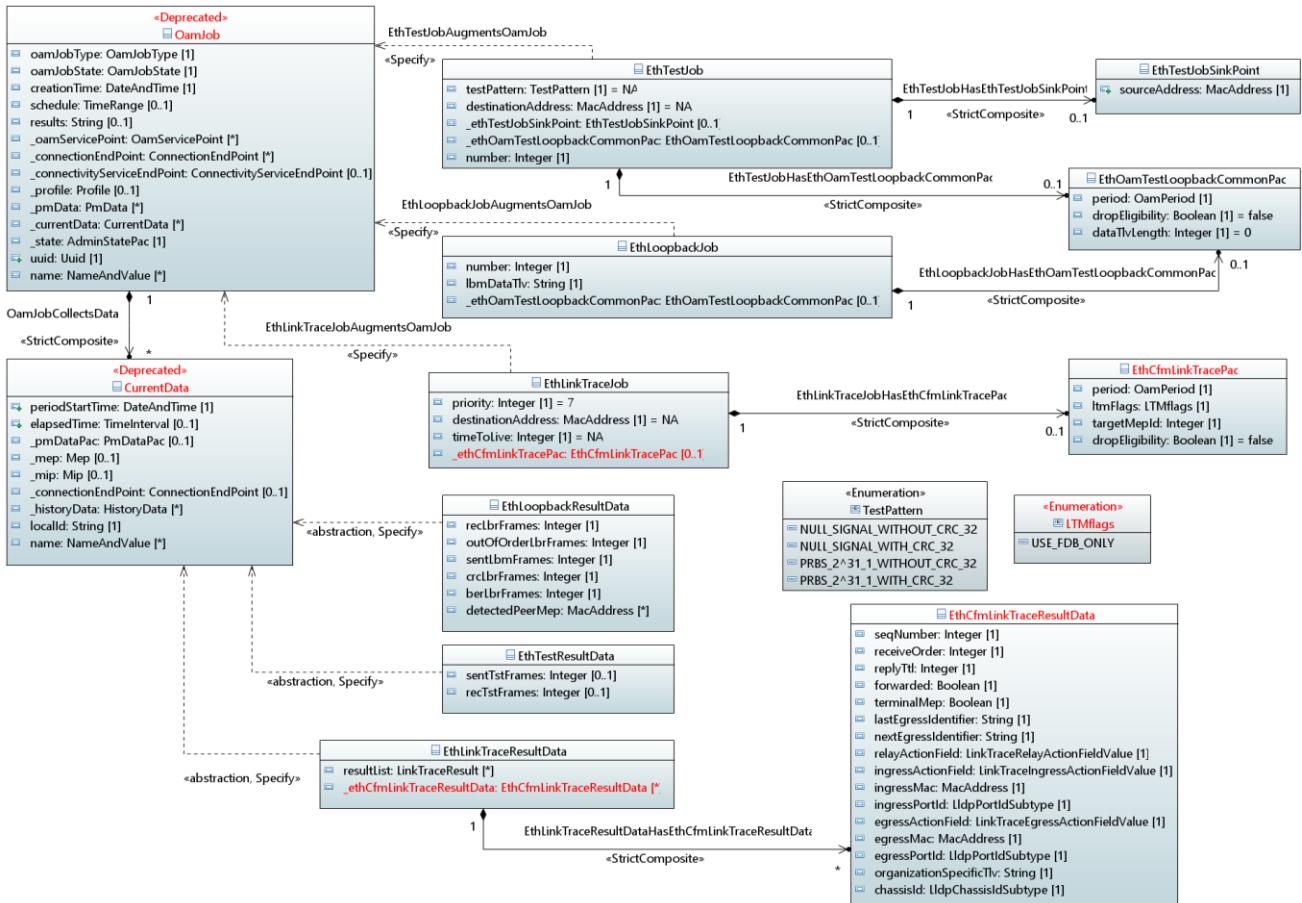


Figure 1 – Diagram *EthSpecConnectivity*

Figure 2 – Diagram *EthSpecJobsFm*

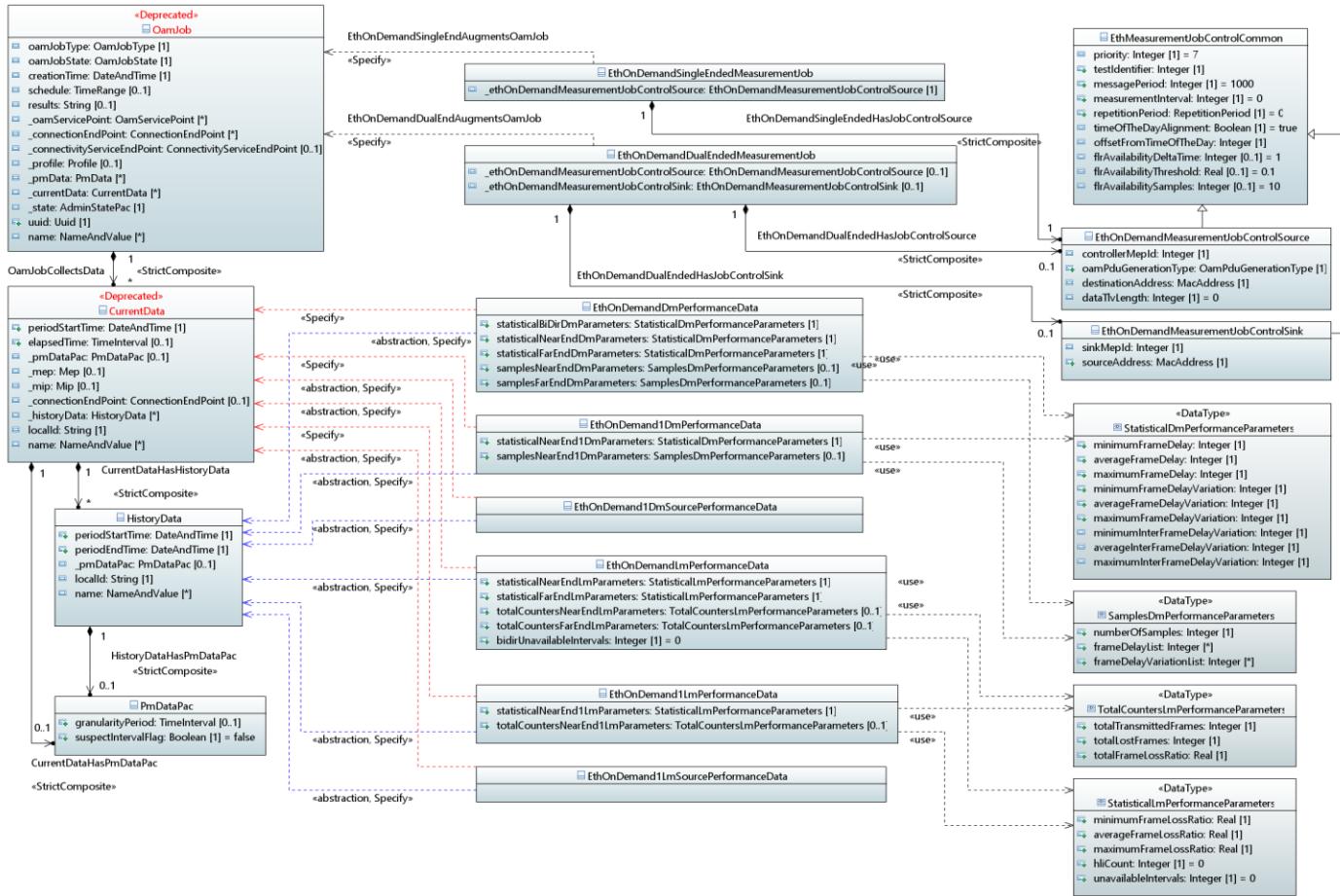


Figure 3 – Diagram *EthSpecJobsPmOnDemand*

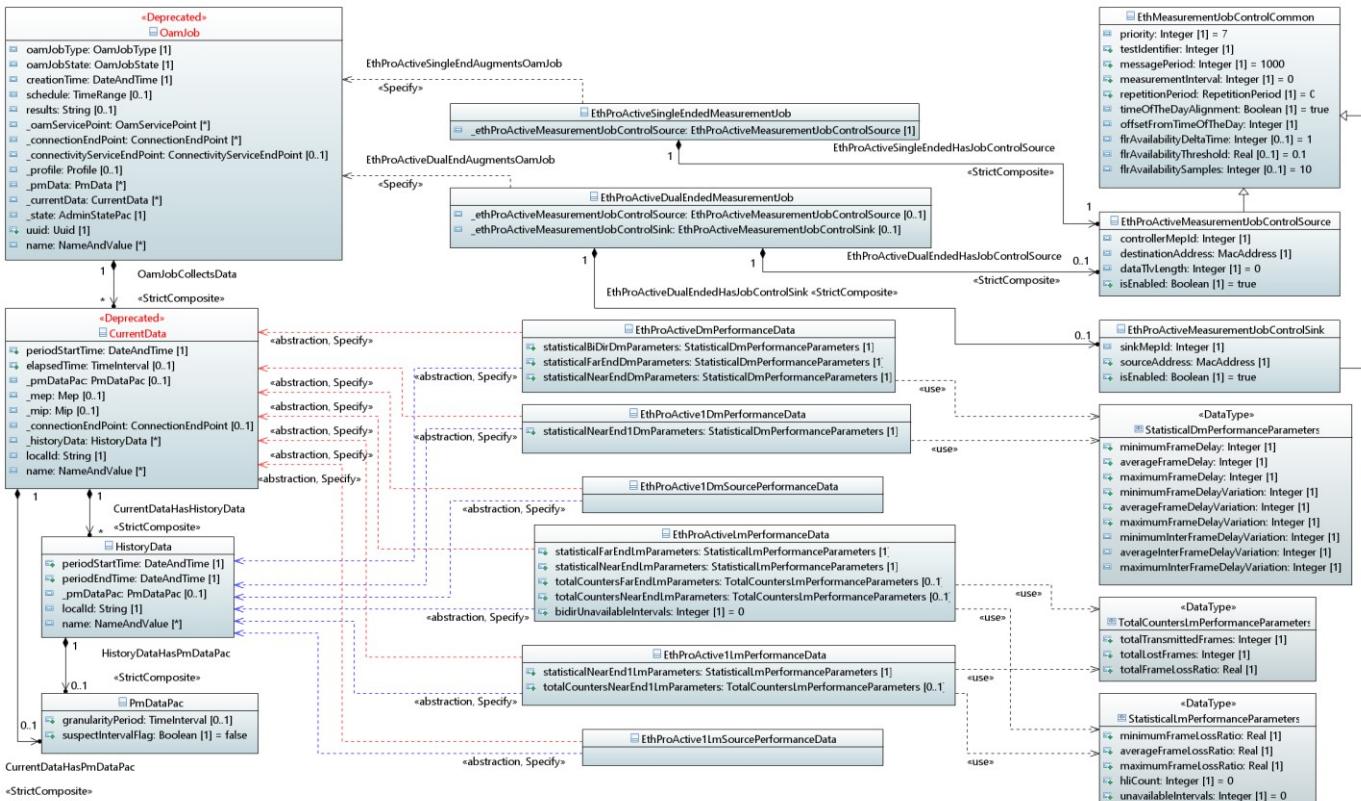
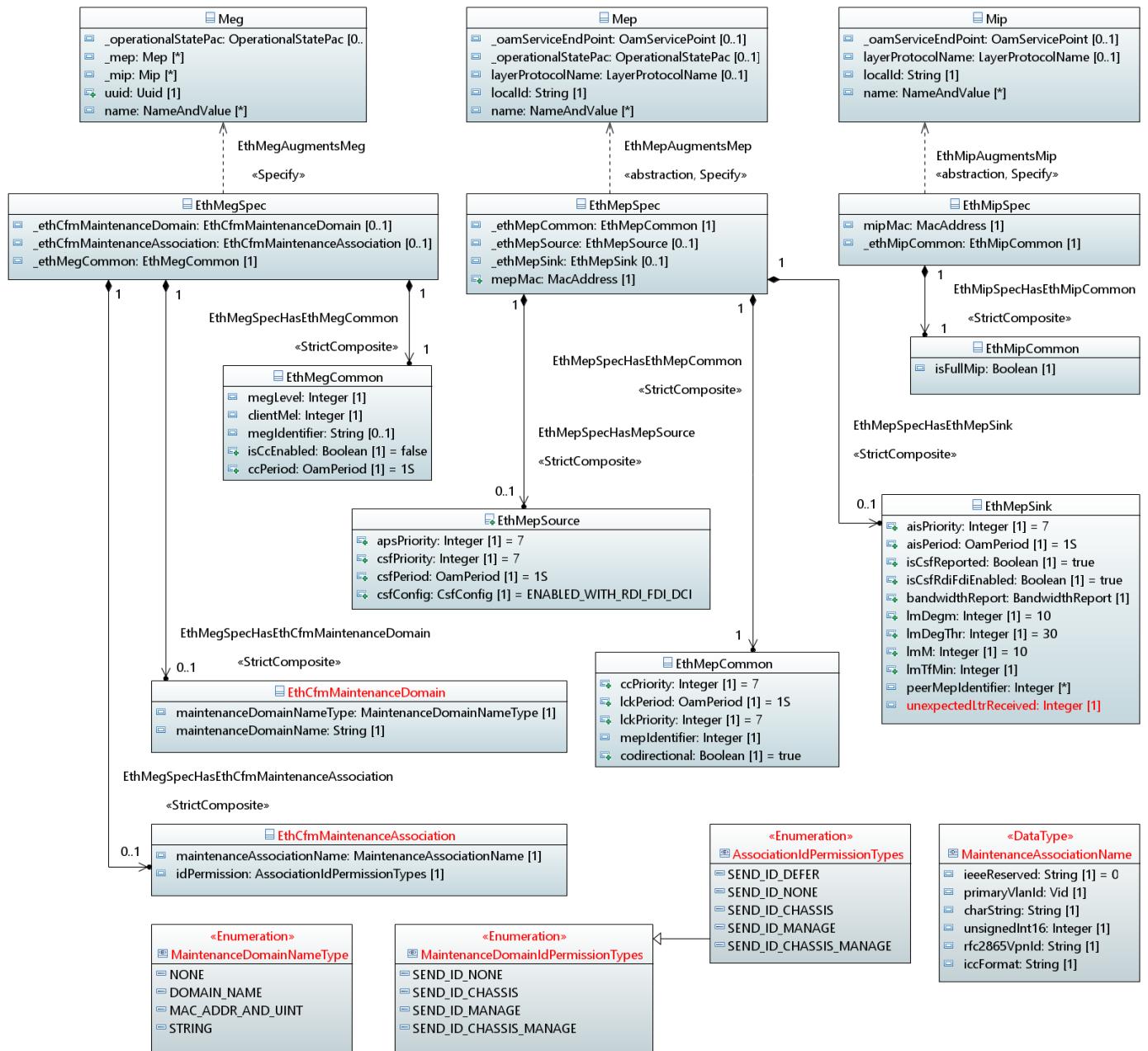
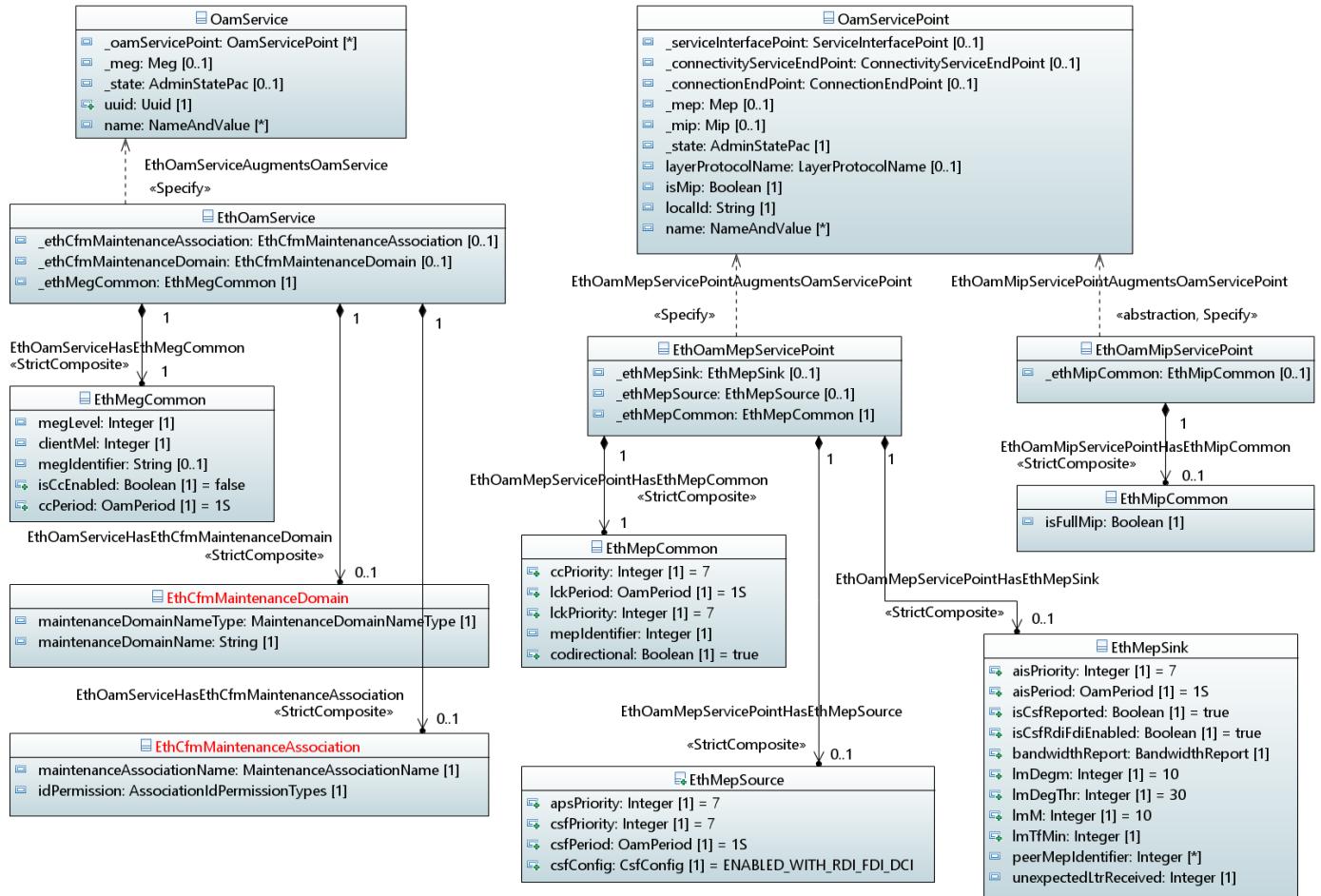
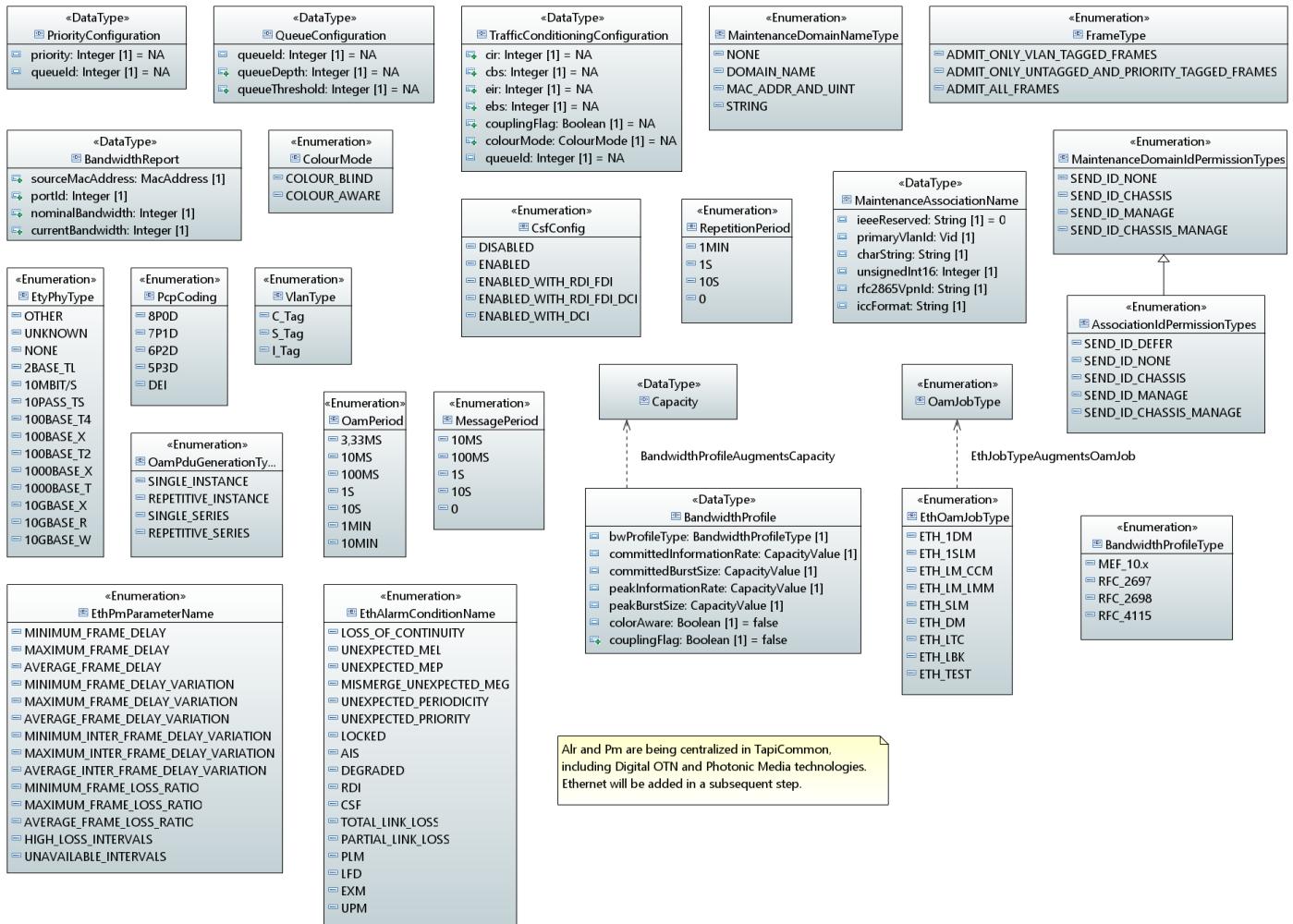


Figure 4 – Diagram *EthSpecJobsPmProActive*

Figure 5 – Diagram *EthSpecOamResource*

Figure 6 – Diagram *EthSpecOamService*

Figure 7 – Diagram *EthernetTypes*

1.2 Classes

1.2.1 EthCfmLinkTracePac

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
period	OamPeriod	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: IEEE P802.1Qcx/D0.3: The interval between LTM transmissions to be used by all MEPs in the Maintenance Association.			
ltmFlags	LTMflags	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: The flags field for the LTMs transmitted by the MEP.			
targetMepId	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: An indication of a destination MEP, the MEPID of a MEP. Alternative to destination MAC address.			
dropEligibility	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: Drop eligible bit value to be used in the VLAN tag, if present in the transmitted frame.			

Table 1 – Attributes for class *EthCfmLinkTracePac*

1.2.2 EthCfmLinkTraceResultData

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: An index to distinguish among multiple LTRs with the same LTR transaction-id field value. Assigned sequentially from 1, in the order that the Linktrace Initiator received the LTRs.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
seqNumber	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: type uint32 range "0..4294967295" Transaction identifier returned by a previous transmit linktrace message command, indicating which LTM's response is going to be returned. MEF 38: The LTM Transaction Identifier to which the LTR entries will be attached.			
receiveOrder	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: type uint32 range "1..4294967295" An index to distinguish among multiple LTRs with the same LTR Transaction Identifier field value. Assigned sequentially from 1, in the order that the Linktrace Initiator received the LTRs.			
replyTtl	PrimitiveTypes::Integer	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: TTL field value for a returned LTR. Range "0..255"			
forwarded	PrimitiveTypes::Boolean	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: Indicates if a LTM was forwarded by the responding MP, as returned in the FwdYes flag of the flags field.			
terminalMep	PrimitiveTypes::Boolean	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: A Boolean value stating whether the forwarded LTM reached a MEP enclosing its MA, as returned in the Terminal MEP flag of the Flags field.			

Attribute Name	Type	Mult.	Access	Stereotypes
lastEgressIdentifier	PrimitiveTypes::String	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: String length "8" An octet field holding the Last Egress Identifier returned in the LTR Egress Identifier TLV of the LTR. The Last Egress Identifier identifies the MEP Linktrace Initiator that originated, or the Linktrace Responder that forwarded, the LTM to which this LTR is the response. This is the same value as the Egress Identifier TLV of that LTM.			
nextEgressIdentifier	PrimitiveTypes::String	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: String length "8" An octet field holding the Next Egress Identifier returned in the LTR Egress Identifier TLV of the LTR. The Next Egress Identifier Identifies the Linktrace Responder that transmitted this LTR, and can forward the LTM to the next hop. This is the same value as the Egress Identifier TLV of the forwarded LTM, if any. If the FwdYes bit of the Flags field is false, the contents of this field are undefined, i.e., any value can be transmitted, and the field is ignored by the receiver.			
relayActionField	LinkTraceRelayActionFieldValue	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: An enumerated value indicating the value returned in the Relay Action field.			
ingressActionField	LinkTraceIngressActionFieldValue	1	R	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: OPTIONAL OpenInterfaceModelAttribute • AVC: NA
	Description:			
	IEEE P802.1Qcx/D0.3: MEF 38: The value returned in the Ingress Action Field of the LTM. IEEE P802.1Qcx/D0.3: The value INGRESS-NO-TLV indicates that no Reply Ingress TLV was returned in the LTM.			

Attribute Name	Type	Mult.	Access	Stereotypes
ingressMac	MacAddress	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: MAC address returned in the ingress MAC address field. IEEE P802.1Qcx/D0.3: If the ingressActionField attribute contains the value INGRESS-NO-TLV, then the contents of this attribute is meaningless.			
ingressPortId	LldpPortIdSubtype	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: Ingress Port ID. IEEE P802.1Qcx/D0.3: If the ingressActionField attribute contains the value INGRESS-NO-TLV, then the contents of this attribute are meaningless.			
egressActionField	LinkTraceEgressActionFieldValue	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: An enumerated value indicating the value returned in the Egress Action field. IEEE P802.1Qcx/D0.3: The value EGRESS-NO-TLV indicates that no Reply Egress TLV was returned in the LTM.			
egressMac	MacAddress	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: IEEE P802.1Qcx/D0.3: MEF 38: MAC address returned in the egress MAC address field. IEEE P802.1Qcx/D0.3: If the egressActionField contains the value EGRESS-NO-TLV, then the contents of this attribute are meaningless.			
egressPortId	LldpPortIdSubtype	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: MEF 38: IEEE P802.1Qcx/D0.3: Egress Port ID. IEEE P802.1Qcx/D0.3: If the egressActionField attribute contains the value EGRESS-NO-TLV, then the contents of this attribute are meaningless.			
organizationSpecificTlv	PrimitiveTypes::String	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: String length "0 4..1500"; All Organization specific TLVs returned in the LTR, if any. Includes all octets including and following the TLV Length field of each TLV, concatenated together.			
chassisId	LldpChassisIdSubtype	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: MEF 38: The chassis-id-subtype contains the chassis ID entity that is listed in the chassis ID field. This is a combination of the 'Chassis ID Subtype' and 'chassis ID' fields. IEEE P802.1Qcx/D0.3: The Chassis ID returned in the Sender ID TLV of the LTR, if any. The format of a chassis identifier string. Objects of this type are always used with an associated lldp-chassis-is-subtype object, which identifies the format of the particular lldp-chassis-id object instance. If the associated lldp-chassis-id-subtype object has a value of chassis-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a chassis component (i.e., an entPhysicalClass value of chassis(3)). If the associated lldp-chassis-id-subtype object has a value of interface-alias, then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863) for an interface on the containing chassis. If the particular ifAlias object does not contain any values, another chassis identifier type should be used.			

Table 2 – Attributes for class *EthCfmLinkTraceResultData*

1.2.3 EthCfmMaintenanceAssociation

Description:

- IEEE CFM parameters applicable to the composing class. IEEE P802.1Qcx/D0.3: Provides configuration and operational data for the Maintenance Associations. A Maintenance Association is a set of MEPs, each configured with the same MAID and MD level, established to verify the integrity of a single service instance. A Maintenance Association can be thought of as a full mesh of Maintenance Entities among a set of MEPs so configured.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
maintenanceAssociationName	MaintenanceAssociationName	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				IEEE P802.1Qcx/D0.3: MEF 38: The Maintenance Association name and name format choice.
idPermission	AssociationIdPermissionTypes	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				IEEE P802.1Qcx/D0.3: MEF 38: This parameter indicates what, if anything, is to be included in the Sender ID TLV transmitted by Maintenance Points configured in this MA. A value of 'defer' means that the contents of the Sender ID TLV are determined by the enclosing Maintenance Domain instance.

Table 3 – Attributes for class *EthCfmMaintenanceAssociation*

1.2.4 EthCfmMaintenanceDomain

Description:

- IEEE CFM parameters applicable to the composing class. IEEE P802.1Qcx/D0.3: MEF 38: A Maintenance Domain is the network or the part of the network for which faults in connectivity can be managed. A Maintenance Domain object is required in order to create an MA with a Maintenance Association Identifier (MAID) that includes that Maintenance Domains Name. From this Maintenance Domain managed object, all Maintenance Association managed objects associated with that Maintenance Domain managed object can be accessed, and thus controlled.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
maintenanceDomainNameType	MaintenanceDomainNameType	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				IEEE P802.1Qcx/D0.3: MEF 38: The Maintenance Domain name format choice.

Attribute Name	Type	Mult.	Access	Stereotypes
maintenanceDomainName	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				IEEE P802.1Qcx/D0.3: MEF 38: A reference to the maintenance domain that this maintenance group is associated with.

Table 4 – Attributes for class *EthCfmMaintenanceDomain***1.2.5 EthConnectionEndPointSpec**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_etyTerm <i>Navigable association end of: EthCepSpecHasEtyTermPac</i>	EtyTerminationPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
_ethTerm <i>Navigable association end of: EthCepSpecHasTermPac</i>	EthTerminationPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
_ethCtp <i>Navigable association end of: EthCepSpecHasCtpPac</i>	EthCtpPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				

Table 5 – Attributes for class *EthConnectionEndPointSpec***1.2.6 EthConnectivityService**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

1.2.7 EthConnectivityServiceEndPointSpec

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_etyTerminationCommonPac <i>Navigable association end of: EthCsepSpecHasEtyTerminationCommonPac</i>	EtyTerminationCommonPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description:			
_ethTerminationCommonPac <i>Navigable association end of: EthCsepSpecHasEthTerminationCommonPac</i>	EthTerminationCommonPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description:			
_ethCtpCommonPac <i>Navigable association end of: EthCsepSpecHasEthCtpCommonPac</i>	EthCtpCommonPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description:			

Table 6 – Attributes for class *EthConnectivityServiceEndPointSpec*

1.2.8 EthCtpCommonPac

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
auxiliaryFunctionPositionSequence	PrimitiveTypes::Integer Default value:	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute indicates the positions (i.e., the relative order) of all the MEP, MIP, and TCS objects which are associated with the CTP.			
collectorMaxDelay	PrimitiveTypes::Integer Default value: <i>NA</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: See 802.1AX: The value of this attribute defines the maximum delay, in tens of microseconds, that may be imposed by the Frame Collector between receiving a frame from an Aggregator Parser, and either delivering the frame to its MAC Client or discarding the frame (see IEEE 802.1AX clause 5.2.3.1.1).			
csfConfig	CsfConfig	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute models the combination of all CSF related MI signals (MI_CSF_Enable, MI_CSFrdifdi_Enable, MI_CSFdci_Enable) as defined in G.8021.			
csfRdiFdiEnable	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute models the MI_CSFrdifdiEnable information defined in G.8021.			

Attribute Name	Type	Mult.	Access	Stereotypes
csfReport	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
Description: This attribute models the MI_CSF_Reported information defined in G.8021.				
filterConfig	ControlFrameFilter Default value: <i>See data type</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
Description: This attribute models the FilterConfig MI defined in section 8.3/G.8021. It indicates the configured filter action for each of the 33 group MAC addresses for control frames. The 33 MAC addresses are: - All bridges address: 01-80-C2-00-00-10, - Reserved addresses: 01-80-C2-00-00-00 to 01-80-C2-00-00-0F, - GARP Application addresses: 01-80-C2-00-00-20 to 01-80-C2-00-00-2F. The filter action is Pass or Block. If the destination address of the incoming ETH_CI_D matches one of the above addresses, the filter process shall perform the corresponding configured filter action. If none of the above addresses match, the ETH_CI_D is passed.				
filterConfigSnk	MacAddress	0..*	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
Description: This attribute models the FilteConfig MI defined in 8.3/G.8021. It indicates the configured filter action for each of the 33 group MAC addresses for control frames. The 33 MAC addresses are: 01-80-C2-00-00-10, 01-80-C2-00-00-00 to 01-80-C2-00-00-0F, and 01-80-C2-00-00-20 to 01-80-C2-00-00-2F. The filter action is Pass or Block. If the destination address of the incoming ETH_CI_D matches one of the above addresses, the filter process shall perform the corresponding configured filter action. If none of the above addresses match, the ETH_CI_D is passed.				
isSsfReported	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
Description: This attribute provisions whether the SSF defect should be reported as fault cause or not. It models the ETH-LAG_FT_Sk_MI_SSF_Reported defined in G.8021.				

Attribute Name	Type	Mult.	Access	Stereotypes
macLength	PrimitiveTypes::Integer Default value: 2000	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute models the MAC_Lenght MI defined in 8.6/G.8021 for the MAC Length Check process. It indicates the allowed maximum frame length in bytes.			
pllThr	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute provisions the threshold for the number of active ports. If the number of active ports is more than zero but less than the provisioned threshold, a cPLL (Partial Link Loss) is raised. See section 9.7.1.2 of G.8021.			
vlanConfig	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute models the ETHx/ETH-m_A_So_MI_Vlan_Config information defined in G.8021.			
_trafficShapingPac Navigable association end of: EthCtpCommonPacHasTrafficShapingPac	TrafficShapingPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description:			
_trafficConditioningPac Navigable association end of: EthCtpCommonPacHasTrafficCondPac	TrafficConditioningPac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description:			

Table 7 – Attributes for class *EthCtpCommonPac*

1.2.9 EthCtpPac

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
actorOperKey	PrimitiveTypes::Integer Default value: <i>NA</i>	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: See 802.1AX: The current operational value of the Key for the Aggregator. The administrative Key value may differ from the operational Key value for the reasons discussed in 5.6.2. The meaning of particular Key values is of local significance.			
actorSystemId	MacAddress Default value: <i>NA</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: See 802.1AX: A MAC address used as a unique identifier for the System that contains this Aggregator.			
actorSystemPriority	PrimitiveTypes::Integer Default value: <i>NA</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: See 802.1AX: Indicating the priority associated with the Actors System ID.			
dataRate	PrimitiveTypes::Integer Default value: <i>NA</i>	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: See 802.1AX: The current data rate, in bits per second, of the aggregate link. The value is calculated as N times the data rate of a single link in the aggregation, where N is the number of active links.			

Attribute Name	Type	Mult.	Access	Stereotypes
partnerOperKey	PrimitiveTypes::Integer Default value: NA	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				See 802.1AX: The current operational value of the Key for the Aggregators current protocol Partner. If the aggregation is manually configured, this Key value will be a value assigned by the local System.
partnerSystemId	MacAddress Default value: NA	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				See 802.1AX: A MAC address consisting of the unique identifier for the current protocol Partner of this Aggregator. A value of zero indicates that there is no known Partner. If the aggregation is manually configured, this System ID value will be a value assigned by the local System.
partnerSystemPriority	PrimitiveTypes::Integer Default value: NA	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				See 802.1AX: Indicates the priority associated with the Partners System ID. If the aggregation is manually configured, this System Priority value will be a value assigned by the local System.
_ethCtpCommonPac <i>Navigable association end of: EthCtpPacHasEthCtpCommonPac</i>	EthCtpCommonPac	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				

Table 8 – Attributes for class *EthCtpPac*

1.2.10 EthLinkTraceJob

Description:

- This class represents the Link Trace (LT) process for fault localization or for discovering the intermediate MIPs along the link from the MEP Source to a target MEP or MIP. An LTM frame will be sent from the MEP source to the target MEP/MIP. The termination occurs at specified stop time (schedule attribute of OamJob).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
priority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter provides the priority to be used in the LBM frame. G.8052: This parameter provides the priority to be used in the TST frame.			
destinationAddress	MacAddress Default value: NA	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter provides the destination address, i.e., the MAC Address of the target MEP or MIP.			
timeToLive	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter provides the Time To Live (TTL) parameter of the Link Track protocol. The TTL parameter allows the receiver (MIP or MEP) of the LTM frame to determine if the frame can be terminated. TTL is decremented every time the LTM frame is relayed. LTM frame with TTL<=1 is terminated and not relayed. IEEE P802.1Qcx/D0.3: MEF 38: An initial value for the LTM TTL field.			
_ethCfmLinkTracePac Navigable association end of: EthLinkTraceJobHasEthCfmLinkTracePac	EthCfmLinkTracePac	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 9 – Attributes for class *EthLinkTraceJob*

1.2.11 EthLinkTraceResultData

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
resultList	LinkTraceResult	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
_ethCfmLinkTraceResultData <i>Navigable association end of: EthLinkTraceResultDataHasEthCfmLinkTraceResultData</i>	EthCfmLinkTraceResultData	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA

Table 10 – Attributes for class *EthLinkTraceResultData*

1.2.12 EthLoopbackJob

Description:

- This class represents the Loopback (LB) process (send a series of LB messages carrying a test pattern to a particular MEP). The termination occurs at specified stop time (schedule attribute of OamJob). This class models also the "loopback discover" process, when destinationAddress is multicast. When number is greater than 1, then the process is to perform a Loopback (LB) Series process (send a series of N LB messages to a particular MEP/MIP).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
number	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
G.8052: This parameter specifies how many LB messages to be sent for the LB_Series process.				
lbtmDataTlv	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
IEEE P802.1Qcx/D0.3: String length "1..1480" The loopback message Data TLV type. MEF 38: An arbitrary amount of data to be included in a Data TLV.				
_ethOamTestLoopbackCommonPac Navigable association end of: EthLoopbackJobHasEthOamTestLoopbackCommonPac	EthOamTestLoopbackCommonPac	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				

Table 11 – Attributes for class *EthLoopbackJob*

1.2.13 EthLoopbackResultData

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
recLbrFrames	PrimitiveTypes::Integer	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: G.8052: This parameter returns the total number of received LBR messages, including the out of order LBR frames.			
outOfOrderLbrFrames	PrimitiveTypes::Integer	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter returns the number of LBR traffic unites (messages) that were received out of order (OO).			
sentLbmFrames	PrimitiveTypes::Integer	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter returns the total number of sent LBM frames.			
crcLbrFrames	PrimitiveTypes::Integer	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter returns the number of LBR frames where the CRC in the pattern failed.			
berLbrFrames	PrimitiveTypes::Integer	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: G.8052: This parameter returns the number of LBR frames where there was a bit error in the pattern.			
detectedPeerMep	MacAddress	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes	
	Description: G.8052: This parameter returns the MAC addresses of the discovered peer MEPs of the subject MEP.				

Table 12 – Attributes for class *EthLoopbackResultData***1.2.14 EthMeasurementJobControlCommon****Description:**

- Time length over which each Availability Frame Loss Ratio value is calculated. This parameter allows to generalize SES and UAS. MEF 35.1: [R78]/[CR58] [O8] A SOAM PM Implementation MUST support a configurable parameter for the length of time over which each Availability flr value is calculated, with a range of 1s – 300s. This parameter is equivalent to delta-t as specified by MEF 10.3. [R79]/[CR59] [O8] The length of time over which each Availability flr value is calculated (delta-t) MUST be an integer multiple of the interval between each SLM/1SL frame transmission. [D31]/[CD16] [O8] The default length of time over which each Availability flr value is calculated SHOULD be 1s.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
priority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA Description: This attribute contains the priority value on which the MEP performs the measurement. When the measurement is enabled, the MEP should use this value to encode the priority of generated measurement frames (OAM PDU frames.). The EMF uses this value to assign the P parameter of the measurement operation.
testIdentifier	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA Description: This attribute is used to distinguish each measurement session if multiple measurement sessions are simultaneously activated towards a peer MEP including concurrent on-demand and proactive tests. It must be unique at least within the context of any measurement type for the MEG and initiating MEP. Note: The attribute is not used in case of 2-way loss measurement.

Attribute Name	Type	Mult.	Access	Stereotypes
messagePeriod	PrimitiveTypes::Integer Default value: <i>1000</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute indicates the period (frequency) of the measurement frame transmission. Note that the value 0 means that only one OAM message per measurement interval is generated. Unit is milliseconds.			
measurementInterval	PrimitiveTypes::Integer Default value: <i>0</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the discrete non overlapping periods of time (in seconds) during which measurements are performed (i.e., OAM messages are generated) and reports are gathered at the end of the measurement intervals. Note that the value 0 means a degenerated measurement interval with a single OAM message and the report is sent as immediately as possible.			
repetitionPeriod	RepetitionPeriod Default value: <i>0</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the time between the start of two measurement intervals. This IS applicable for the repetitive instance type and MAY be applicable for the repetitive series type. Note that a value of 0 means not applicable (NA), which is for the cases of single instance, single series, or repetitive series without extra gap in between the measurement intervals (i.e., also as known as continuous series).			
timeOfTheDayAlignment	PrimitiveTypes::Boolean Default value: <i>true</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: MEF 35.1: [D7] A SOAM PM Implementation SHOULD allow for no alignment to the time-of-day clock.			
offsetFromTimeOfDay	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: MEF 35.1: [D8] A SOAM PM Implementation SHOULD support a configurable (in minutes) offset from ToD time for alignment of the start of Measurement Intervals other than the first Measurement Interval.			
flrAvailabilityDeltaTime	PrimitiveTypes::Integer Default value: 1	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: Time length over which each Availability Frame Loss Ratio value is calculated. MEF 35.1: [R78]/[CR58] [O8] A SOAM PM Implementation MUST support a configurable parameter for the length of time over which each Availability flr value is calculated, with range of 1s – 300s. This parameter is equivalent to delta-t as specified by MEF 10.3. [R79]/[CR59] [O8] The length of time over which each Availability flr value is calculated (delta-t) MUST be an integer multiple of the interval between each SLM/1SL frame transmission. [D31]/[CD16] [O8] The default length of time over which each Availability flr value is calculated SHOULD be 1s.			
flrAvailabilityThreshold	PrimitiveTypes::Real Default value: 0.1	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: Frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each time interval (as specified by Availability Delta Time). MEF 35.1: [R81]/[CR61] A SOAM PM Implementation MUST support a configurable Availability frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each delta-t interval per MEF 10.3 [R82]/[CR62] The Availability frame loss ratio threshold range of 0.00 through 1.00 MUST be supported in increments of 0.01. [D33]/[CD18] [O8] The default Availability frame loss ratio threshold SHOULD be 0.1.			
flrAvailabilitySamples	PrimitiveTypes::Integer Default value: 10	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: Number of consecutive Availability Frame Loss Ratio measurements to be used to determine Available/Unavailable state transitions. MEF 35.1: [R80]/[CR60] [O8] The number range of 1 through 10 MUST be supported for the configurable number of consecutive Availability flr measurements to be used to determine Available/Unavailable state transitions. This parameter is equivalent to the Availability parameter of n as specified by MEF 10.3. [D32]/[CD17] [O8] The default number of n for Availability SHOULD be 10.			

Table 13 – Attributes for class *EthMeasurementJobControlCommon*

1.2.15 EthMegCommon

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
megLevel	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
clientMeli	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
megIdentifier	PrimitiveTypes::String	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
Optional in case 802.1Q maintenanceAssociationName is used.				
isCcEnabled	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
This attribute models the MI_CC_Enable signal defined in G.8021 and configured as specified in G8051. ITU-T G.8013/Y.1731 (2015)/Amd.1 (11/2018): When ETH-CC transmission is enabled in a MEG, all MEPs are enabled to periodically transmit frames with ETH-CC information to their peer MEPs in the MEG.				

Attribute Name	Type	Mult.	Access	Stereotypes
ccPeriod	<p>OamPeriod</p> <p>Default value: <i>IS</i></p>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA

Table 14 – Attributes for class *EthMegCommon*

1.2.16 EthMegSpec

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethCfmMaintenanceDomain <i>Navigable association end of: EthMegSpecHasEthCfmMaintenanceDomain</i>	<p>EthCfmMaintenanceDomain</p>	0..1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
_ethCfmMaintenanceAssociation <i>Navigable association end of: EthMegSpecHasEthCfmMaintenanceAssociation</i>	<p>EthCfmMaintenanceAssociation</p>	0..1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
_ethMegCommon <i>Navigable association end of: EthMegSpecHasEthMegCommon</i>	<p>EthMegCommon</p>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description:			

Table 15 – Attributes for class *EthMegSpec***1.2.17 EthMepCommon****Description:**

- Lock Process related attributes: lckPeriod, lckPriority

Description:

- Continuity Check Process related attributes: ccPeriod, ccPriority, isCcEnabled

Description:

- Basic attributes: adminState, clientMeli, megIdentifier, mepMac

Description:

- This object class models the MEP functions that are common to MEP Sink and MEP Source.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
ccPriority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
	This attribute models the MI_CC_Pri signal defined in G.8021 and configured as specified in G8051. It is the priority at which the CCM message should be sent.			
lckPeriod	<u>OamPeriod</u> Default value: IS	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
	This attribute models the MI_LCK_Period signal defined in G.8021 and configured as specified in G8051. It is the frequency at which the LCK messages should be sent.			

Attribute Name	Type	Mult.	Access	Stereotypes
lckPriority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: This attribute models the MI_LCK_Pri signal defined in G.8021 and configured as specified in G8051. It is the priority at which the LCK messages should be sent.				
mepIdentifier	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: IEEE P802.1Qcx/D0.3: MEF 38: Integer that is unique among all the MEPs in the same Maintenance Association (MEG). G.8052: This attribute contains the identifier of the MEP.				
codirectional	PrimitiveTypes::Boolean Default value: <i>true</i>	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: This attribute specifies the directionality of the Ethernet MEP with respect to the associated CEP. The value of TRUE means that the sink part of the MEP terminates the same signal direction as the sink part of the CEP. The Source part behaves similarly. This attribute is meaningful only when CEP is bidirectional.				

Table 16 – Attributes for class *EthMepCommon*

1.2.18 EthMepSink

Description:

- AIS Process related attributes: aisPeriod, aisPriority

Description:

- Defect correlation Process related attribute: currentProblemList

Description:

- This object class models the MEP sink function. Instance of this object class can be created and contained by ETH CTP or TTP objects. It also provides the management of the dual-ended maintenance job, such as test.

Description:

- Bandwidth notification Process related attribute: bandwidthReport

Description:

- This object contains the configuration parameters for detecting "degraded signal" (DEG).

Description:

- Basic attribute: peerMepRefList

Description:

- 1DM related attribute: 1DmPriority

Description:

- CSF Process related attributes: isCsfRdiFdiEnabled, isCsfReported

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
aisPriority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute models the MI_AIS_Pri signal defined in G.8021 and configured as specified in G8051. It is the priority at which the AIS messages should be sent.			
aisPeriod	OamPeriod Default value: IS	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute models the MI_AIS_Period signal defined in G.8021 and configured as specified in G8051. It is the frequency at which the AIS messages should be sent.			
isCsfReported	PrimitiveTypes::Boolean Default value: true	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute models the MI_CSF_Reported signal defined in G.8021 and configured as specified in G8051. It configures whether the secondary failure CSF should be reported or not.			

Attribute Name	Type	Mult.	Access	Stereotypes
isCsfRdiFdiEnabled	PrimitiveTypes::Boolean Default value: <i>true</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute models the MI_CSFrdifdiEnable signal defined in G.8021 and configured as specified in G8051. aSSFrdi ? dCSF-RDI and MI_CSFrdifdiEnable aSSFfdi ? dCSF-FDI and MI_CSFrdifdiEnable			
bandwidthReport	BandwidthReport	1	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute models the content of the bandwidth report received by the MEP Sink from the peer MEP Source.			
lmDegm	PrimitiveTypes::Integer Default value: <i>10</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute defines the number of consecutive bad seconds necessary for the "degraded" detection. See also section "Degraded signal defect (dDEG)" in G.8021.			
lmDegThr	PrimitiveTypes::Integer Default value: <i>30</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute defines the threshold for declaring a "bad second". See also section "Degraded signal defect (dDEG)" in G.8021.			
lmM	PrimitiveTypes::Integer Default value: <i>10</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: This attribute defines the number of consecutive good seconds necessary for the clearing of "degraded". See also section "Degraded signal defect (dDEG)" in G.8021.			

Attribute Name	Type	Mult.	Access	Stereotypes
lmTfMin	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				This attribute defines the necessary number of transmitted frames to enable the detection of "bad seconds". See also section "Degraded signal defect (dDEG)" in G.8021.
peerMepIdentifier	PrimitiveTypes::Integer	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				G.8052: This attribute models the MI_PeerMEP_ID[i] signal defined in G.8021 and configured as specified in G.8051. It provides the identifiers of the MEPs which are peer to the subject MEP.
unexpectedLtrReceived	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				IEEE P802.1Qcx/D0.3: MEF 38: The total number of unexpected LTRs received.

Table 17 – Attributes for class *EthMepSink*

1.2.19 EthMepSource

Description:

- Test related operations: testInitiatorStart, testInitiatorTerminate

Description:

- Link trace related operation: linkTrace

Description:

- On demand measurement job control related operation: establishOnDemandDualEndedMeasurementJobSource

Description:

- Proactive measurement job control related operation: establishProActiveDualEndedMeasurementJobSource

Description:

- Loopback related operations: loopbackDiscover, loopbackSeries, loopbackTest, loopbackTestTerminate

Description:

- APS Process related attribute: apsPriority

Description:

- CSF Process related attributes: csfConfig, csfPeriod, csfPriority

Description:

- This object class models the MEP source function. Instance of this object class can be created and contained by ETH CTP or TTP objects. It also provides the management of single-ended maintenance jobs, such as loopback test, loopback discover, loopback series, link trace, and dual-ended maintenance job, such as test.

Description:

- Basic attribute: mepIdentifier

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
apsPriority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute specifies the priority of the APS messages. See section 8.1.5 APS insert process in G.8021.			
csfPriority	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	Description: This attribute models the MI_CSF_Pri signal defined in G.8021 and configured as specified in G8051. It is the priority at which the CSF messages should be sent			

Attribute Name	Type	Mult.	Access	Stereotypes
csfPeriod	<p>OamPeriod</p> <p>Default value: <i>IS</i></p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute models the MI_CSF_Period signal defined in G.8021 and configured as specified in G8051. It is the period at which the CSF messages should be sent.				
csfConfig	<p>CsfConfig</p> <p>Default value: <i>ENABLED_WITH_RDI_FDI_DCI</i></p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute models the combination of all CSF related MI signals (MI_CSF_Enable, MI_CSFrdfdi_Enable, MI_CSFdci_Enable) as defined in G.8021.				

Table 18 – Attributes for class *EthMepSource*

1.2.20 EthMepSpec

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethMepCommon Navigable association end of: EthMepSpecHasEthMepCommon	EthMepCommon	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
_ethMepSource Navigable association end of: EthMepSpecHasMepSource	EthMepSource	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description:			
_ethMepSink Navigable association end of: EthMepSpecHasEthMepSink	EthMepSink	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
mepMac	MacAddress	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the MAC Address of the MEP.			

Table 19 – Attributes for class *EthMepSpec*

1.2.21 EthMipCommon

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
isFullMip	PrimitiveTypes::Boolean	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute indicates whether the MIP is a full MIP (true) or a down-half MIP (false). Up-half MIP is not foreseen by G.8052			

Table 20 – Attributes for class *EthMipCommon*

1.2.22 EthMipSpec

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
mipMac	MacAddress	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				
				This attribute contains the MAC address of the MIP instance.
_ethMipCommon <i>Navigable association end of: EthMipSpecHasEthMipCommon</i>	EthMipCommon	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				

Table 21 – Attributes for class *EthMipSpec*

1.2.23 EthOamMepServicePoint

Description:

- This class defines the common parameters for configuration of Sink and/or Source MEP.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethMepSink <i>Navigable association end of: EthOamMepServicePointHasEthMepSink</i>	EthMepSink	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				

Attribute Name	Type	Mult.	Access	Stereotypes
_ethMepSource <i>Navigable association end of: EthOamMepServicePointHasEthMepSource</i>	EthMepSource	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

_ethMepCommon <i>Navigable association end of: EthOamMepServicePointHasEthMepComm on</i>	EthMepCommon	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
				Description:

Table 22 – Attributes for class *EthOamMepServicePoint*

1.2.24 EthOamMipServicePoint

Description:

- This class defines the common parameters for configuration of MIP.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethMipCommon <i>Navigable association end of: EthOamMipServicePointHasEthMipComm on</i>	EthMipCommon	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 23 – Attributes for class *EthOamMipServicePoint*

1.2.25 EthOamService

Description:

- This class defines the parameters for configuration of MEG.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethCfmMaintenanceDomain Navigable association end of: EthOamServiceHasEthCfmMaintenanceDomain	EthCfmMaintenanceDomain	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			
_ethCfmMaintenanceAssociation Navigable association end of: EthOamServiceHasEthCfmMaintenanceAssociation	EthCfmMaintenanceAssociation	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			
_ethMegCommon Navigable association end of: EthOamServiceHasEthMegCommon	EthMegCommon	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 24 – Attributes for class *EthOamService*

1.2.26 EthOamTestLoopbackCommonPac

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
period	OamPeriod	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	G.8052: This parameter provides the periodicity of the TST OAM messages. G.8052: This parameter provides the periodicity of the LBM OAM messages used in the LB Series process.			
dropEligibility	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	G.8052: This parameter provides the eligibility of frames with unicast ETH-TST information to be discarded when congestion conditions are encountered. G.8052: This parameter provides the eligibility of frames with unicast ETH-LB information to be discarded when congestion conditions are encountered.			
dataTlvLength	PrimitiveTypes::Integer Default value: <i>0</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	G.8052: This parameter provides the length (in number of octet) of the optional Data TLV to be included in the TST frame.			

Table 25 – Attributes for class *EthOamTestLoopbackCommonPac***1.2.27 EthOnDemand1DmPerformanceData**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalNearEnd1DmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the statistical near end performnace parameters.				
samplesNearEnd1DmParameters	SamplesDmPerformanceParameters	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the results of an on-demand frame delay measurement job in the ingress direction.				

Table 26 – Attributes for class *EthOnDemand1DmPerformanceData*

1.2.28 EthOnDemand1DmSourcePerformanceData

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

1.2.29 EthOnDemand1LmPerformanceData

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalNearEnd1LmParameters	StatisticalLmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the statistical near end performance parameters.			
totalCountersNearEnd1LmParameters	TotalCountersLmPerformanceParameters	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the results of an on-demand synthetic loss measurement job in the ingress direction.			

Table 27 – Attributes for class *EthOnDemand1LmPerformanceData***1.2.30 EthOnDemand1LmSourcePerformanceData**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

1.2.31 EthOnDemandDmPerformanceData

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalBiDirDmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the statistical bidirectional performance parameters.			

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalNearEndDmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description:				
This attribute contains the statistical near end performance parameters.				
statisticalFarEndDmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description:				
This attribute contains the statistical far end performance parameters.				
samplesNearEndDmParameters	SamplesDmPerformanceParameters	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description:				
This attribute contains the results of an on-demand frame delay measurement job in the ingress direction.				
samplesFarEndDmParameters	SamplesDmPerformanceParameters	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description:				
This attribute contains the results of an on-demand frame delay measurement job in the ingress direction.				

Table 28 – Attributes for class *EthOnDemandDmPerformanceData***1.2.32 EthOnDemandDualEndedMeasurementJob**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethOnDemandMeasurementJobControlSource Navigable association end of: EthOnDemandDualEndedHasJobControlSource	EthOnDemandMeasurementJobControlSource	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_ethOnDemandMeasurementJobControlSink Navigable association end of: EthOnDemandDualEndedHasJobControlSink	EthOnDemandMeasurementJobControlSink	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 29 – Attributes for class *EthOnDemandDualEndedMeasurementJob*

1.2.33 EthOnDemandLmPerformanceData

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalNearEndLmParameters	StatisticalLmPerformanceParameters	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	This attribute contains the statistical near end performance parameters.			
statisticalFarEndLmParameters	StatisticalLmPerformanceParameters	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	This attribute contains the statistical far end performance parameters.			

Attribute Name	Type	Mult.	Access	Stereotypes
totalCountersNearEndLmParameters	TotalCountersLmPerformanceParameters	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	This attribute contains the results of an on-demand synthetic loss measurement job in the ingress direction.			
Description:				
totalCountersFarEndLmParameters	TotalCountersLmPerformanceParameters	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	This attribute contains the results of an on-demand synthetic loss measurement job in the egress direction.			
bidirUnavailableIntervals	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	A generalized (bidirectional) UAS. MEF 35.1: A 32-bit counter reflecting the number of delta-t intervals evaluated as Unavailable (i.e., for which $A<Controller, Responder>(\text{delta-t}) = 0$).			

Table 30 – Attributes for class *EthOnDemandLmPerformanceData***1.2.34 EthOnDemandMeasurementJobControlSink****Description:**

- This object class represents an on-demand measurement job controller sink for 1-way measurements. It is created as a result of an establishOnDemandDualEndedMeasurementJobSink() operation. It is deleted either automatically after the measurement job has completed (stop time reached) and the performance data AVC notification has been sent, or by an explicit abortOnDemandMeasurementJob() operation when the measurement job is running.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
sinkMepId	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
sourceAddress	MacAddress	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the MAC address of the peer MEP. See G.8013 for details.				
priority Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::priority</i>	PrimitiveTypes::Integer Default value: 7	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the priority value on which the MEP performs the measurement. When the measurement is enabled, the MEP should use this value to encode the priority of generated measurement frames (OAM PDU frames.). The EMF uses this value to assign the P parameter of the measurement operation.				
testIdentifier Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::testIdentifier</i>	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute is used to distinguish each measurement session if multiple measurement sessions are simultaneously activated towards a peer MEP including concurrent on-demand and proactive tests. It must be unique at least within the context of any measurement type for the MEG and initiating MEP. Note: The attribute is not used in case of 2-way loss measurement.				
messagePeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::messagePeriod</i>	PrimitiveTypes::Integer Default value: 1000	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute indicates the period (frequency) of the measurement frame transmission. Note that the value 0 means that only one OAM message per measurement interval is generated. Unit is milliseconds.			
measurementInterval Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::measurementInterval</i>	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the discrete non overlapping periods of time (in seconds) during which measurements are performed (i.e., OAM messages are generated) and reports are gathered at the end of the measurement intervals. Note that the value 0 means a degenerated measurement interval with a single OAM message and the report is sent as immediately as possible.			
repetitionPeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::repetitionPeriod</i>	<u>RepetitionPeriod</u> Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the time between the start of two measurement intervals. This IS applicable for the repetitive instance type and MAY be applicable for the repetitive series type. Note that a value of 0 means not applicable (NA), which is for the cases of single instance, single series, or repetitive series without extra gap in between the measurement intervals (i.e., also as known as continuous series).			
timeOfTheDayAlignment Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::timeOfTheDayAlignment</i>	PrimitiveTypes::Boolean Default value: true	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D7] A SOAM PM Implementation SHOULD allow for no alignment to the time-of-day clock.			
offsetFromTimeOfTheDay Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::offsetFromTimeOfTheDay</i>	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D8] A SOAM PM Implementation SHOULD support a configurable (in minutes) offset from ToD time for alignment of the start of Measurement Intervals other than the first Measurement Interval.			

Attribute Name	Type	Mult.	Access	Stereotypes
flrAvailabilityDeltaTime Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityDeltaTime</i>	PrimitiveTypes::Integer Default value: 1	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Time length over which each Availability Frame Loss Ratio value is calculated. MEF 35.1: [R78]/[CR58] [O8] A SOAM PM Implementation MUST support a configurable parameter for the length of time over which each Availability flr value is calculated, with a range of 1s – 300s. This parameter is equivalent to delta-t as specified by MEF 10.3. [R79]/[CR59] [O8] The length of time over which each Availability flr value is calculated (delta-t) MUST be an integer multiple of the interval between each SLM/1SL frame transmission. [D31]/[CD16] [O8] The default length of time over which each Availability flr value is calculated SHOULD be 1s.			
flrAvailabilityThreshold Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityThreshold</i>	PrimitiveTypes::Real Default value: 0.1	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each time interval (as specified by Availability Delta Time). MEF 35.1: [R81]/[CR61] A SOAM PM Implementation MUST support a configurable Availability frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each delta-t interval per MEF 10.3 [R82]/[CR62] The Availability frame loss ratio threshold range of 0.00 through 1.00 MUST be supported in increments of 0.01. [D33]/[CD18] [O8] The default Availability frame loss ratio threshold SHOULD be 0.1.			
flrAvailabilitySamples Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilitySamples</i>	PrimitiveTypes::Integer Default value: 10	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Number of consecutive Availability Frame Loss Ratio measurements to be used to determine Available/Unavailable state transitions. MEF 35.1: [R80]/[CR60] [O8] The number range of 1 through 10 MUST be supported for the configurable number of consecutive Availability flr measurements to be used to determine Available/Unavailable state transitions. This parameter is equivalent to the Availability parameter of n as specified by MEF 10.3. [D32]/[CD17] [O8] The default number of n for Availability SHOULD be 10.			

Table 31 – Attributes for class *EthOnDemandMeasurementJobControlSink*

1.2.35 EthOnDemandMeasurementJobControlSource

Description:

- Optional attributes: dataTlvLength, testIdentifier

Description:

- This object class represents an on-demand measurement job controller source for 1-way measurements. It is created as a result of an establishOnDemandDualEndedMeasurementJobSource()

operation. It is deleted either automatically after the measurement job has completed (stop time reached), or by an explicit abortOnDemandMeasurementJob() operation while the measurement job is running.

Description:

- Measurement configuration related attributes: oamPduGenerationType, startTime, stopTime, messagePeriod, repetitionPeriod, measurementInterval

Description:

- Basic attributes: destinationAddress, priority

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
controllerMepId	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description:				
oamPduGenerationType	OamPduGenerationType	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description: This attribute contains the pattern that is used for the generation of OAM PDUs.				
destinationAddress	MacAddress	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
Description: This attribute contains the MAC address of the peer MEP. See G.8013 for details.				

Attribute Name	Type	Mult.	Access	Stereotypes
dataTlvLength	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: This parameter provides the size of the optional data TLV. Non-negative integer represents the number of bytes for the length of the padding TLV. Notes: When configuring this parameter one should be aware of the maximum allowed total frame size limitation. The attribute is not used in case of 2-way loss measurement.			
priority Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::priority</i>	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the priority value on which the MEP performs the measurement. When the measurement is enabled, the MEP should use this value to encode the priority of generated measurement frames (OAM PDU frames.). The EMF uses this value to assign the P parameter of the measurement operation.			
testIdentifier Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::testIdentifier</i>	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute is used to distinguish each measurement session if multiple measurement sessions are simultaneously activated towards a peer MEP including concurrent on-demand and proactive tests. It must be unique at least within the context of any measurement type for the MEG and initiating MEP. Note: The attribute is not used in case of 2-way loss measurement.			
messagePeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::messagePeriod</i>	PrimitiveTypes::Integer Default value: 1000	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute indicates the period (frequency) of the measurement frame transmission. Note that the value 0 means that only one OAM message per measurement interval is generated. Unit is milliseconds.			

Attribute Name	Type	Mult.	Access	Stereotypes
measurementInterval Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::measurementInterval</i>	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the discrete non overlapping periods of time (in seconds) during which measurements are performed (i.e., OAM messages are generated) and reports are gathered at the end of the measurement intervals. Note that the value 0 means a degenerated measurement interval with a single OAM message and the report is sent as immediately as possible.			
repetitionPeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::repetitionPeriod</i>	<u>RepetitionPeriod</u> Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the time between the start of two measurement intervals. This IS applicable for the repetitive instance type and MAY be applicable for the repetitive series type. Note that a value of 0 means not applicable (NA), which is for the cases of single instance, single series, or repetitive series without extra gap in between the measurement intervals (i.e., also as known as continuous series).			
timeOfTheDayAlignment Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::timeOfTheDayAlignment</i>	PrimitiveTypes::Boolean Default value: true	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D7] A SOAM PM Implementation SHOULD allow for no alignment to the time-of-day clock.			
offsetFromTimeOfDay Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::offsetFromTimeOfDay</i>	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D8] A SOAM PM Implementation SHOULD support a configurable (in minutes) offset from ToD time for alignment of the start of Measurement Intervals other than the first Measurement Interval.			
flrAvailabilityDeltaTime Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityDeltaTime</i>	PrimitiveTypes::Integer Default value: 1	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: Time length over which each Availability Frame Loss Ratio value is calculated. MEF 35.1: [R78]/[CR58] [O8] A SOAM PM Implementation MUST support a configurable parameter for the length of time over which each Availability flr value is calculated, with a range of 1s – 300s. This parameter is equivalent to delta-t as specified by MEF 10.3. [R79]/[CR59] [O8] The length of time over which each Availability flr value is calculated (delta-t) MUST be an integer multiple of the interval between each SLM/1SL frame transmission. [D31]/[CD16] [O8] The default length of time over which each Availability flr value is calculated SHOULD be 1s.			
flrAvailabilityThreshold Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityThreshold</i>	PrimitiveTypes::Real Default value: 0.1	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: Frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each time interval (as specified by Availability Delta Time). MEF 35.1: [R81]/[CR61] A SOAM PM Implementation MUST support a configurable Availability frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each delta-t interval per MEF 10.3 [R82]/[CR62] The Availability frame loss ratio threshold range of 0.00 through 1.00 MUST be supported in increments of 0.01. [D33]/[CD18] [O8] The default Availability frame loss ratio threshold SHOULD be 0.1.				
flrAvailabilitySamples Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilitySamples</i>	PrimitiveTypes::Integer Default value: 10	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: Number of consecutive Availability Frame Loss Ratio measurements to be used to determine Available/Unavailable state transitions. MEF 35.1: [R80]/[CR60] [O8] The number range of 1 through 10 MUST be supported for the configurable number of consecutive Availability flr measurements to be used to determine Available/Unavailable state transitions. This parameter is equivalent to the Availability parameter of n as specified by MEF 10.3. [D32]/[CD17] [O8] The default number of n for Availability SHOULD be 10.				

Table 32 – Attributes for class *EthOnDemandMeasurementJobControlSource*

1.2.36 EthOnDemandSingleEndedMeasurementJob

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethOnDemandMeasurementJobContr olSource <i>Navigable association end of: EthOnDemandSingleEndedHasJobControls ource</i>	EthOnDemandMeasurementJobCont rolSource	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 33 – Attributes for class *EthOnDemandSingleEndedMeasurementJob***1.2.37 EthProActive1DmPerformanceData****Description:**

- This object class represents the PM current data collected in a pro-active delay measurement job (using 1DM).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalNearEnd1DmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 34 – Attributes for class *EthProActive1DmPerformanceData***1.2.38 EthProActive1DmSourcePerformanceData****Description:**

- This object class represents the PM current data collected in a pro-active delay measurement job (using 1DM), on the source or controller MEP.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

1.2.39 EthProActive1LmPerformanceData

Description:

- This object class represents the PM current data collected in a pro-active loss measurement job (using 1SL).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalNearEnd1LmParameters	StatisticalLmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
				This attribute contains the statistical near end performance parameters.
totalCountersNearEnd1LmParameters	TotalCountersLmPerformanceParameters	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
				This attribute contains the results of an on-demand synthetic loss measurement job in the ingress direction.

Table 35 – Attributes for class *EthProActive1LmPerformanceData*

1.2.40 EthProActive1LmSourcePerformanceData

Description:

- This object class represents the PM current data collected in a pro-active loss measurement job (using 1SL), on the source or controller MEP.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

1.2.41 EthProActiveDmPerformanceData

Description:

- This object class represents the PM current data collected in a pro-active delay measurement job (using DMM/DMR).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalBiDirDmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA Description: This attribute contains the statistical bidirectional performance parameters.
statisticalFarEndDmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA Description: This attribute contains the statistical far end performance parameters.
statisticalNearEndDmParameters	StatisticalDmPerformanceParameters	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA Description: This attribute contains the statistical near end performance parameters.

Table 36 – Attributes for class *EthProActiveDmPerformanceData*

1.2.42 EthProActiveDualEndedMeasurementJob

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethProActiveMeasurementJobControlSource Navigable association end of: EthProActiveDualEndedHasJobControlSource	EthProActiveMeasurementJobControlSource	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_ethProActiveMeasurementJobControlSink Navigable association end of: EthProActiveDualEndedHasJobControlSink	EthProActiveMeasurementJobControlSink	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 37 – Attributes for class EthProActiveDualEndedMeasurementJob**1.2.43 EthProActiveLmPerformanceData****Description:**

- This object class represents the PM current data collected in a pro-active loss measurement job (using LMM/LMR or SLM/SLR).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
statisticalFarEndLmParameters	StatisticalLmPerformanceParameters	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			This attribute contains the statistical far end performance parameters.
statisticalNearEndLmParameters	StatisticalLmPerformanceParameters	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the statistical near end performance parameters.			
totalCountersFarEndLmParameters	TotalCountersLmPerformanceParameters	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the results of an on-demand synthetic loss measurement job in the egress direction.			
totalCountersNearEndLmParameters	TotalCountersLmPerformanceParameters	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the results of an on-demand synthetic loss measurement job in the ingress direction.			
bidirUnavailableIntervals	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: A generalized (bidirectional) UAS. MEF 35.1: A 32-bit counter reflecting the number of delta-t intervals evaluated as Unavailable (i.e., for which $A<Controller, Responder>(\delta-t) = 0$).			

Table 38 – Attributes for class *EthProActiveLmPerformanceData***1.2.44 EthProActiveMeasurementJobControlSink****Description:**

- This object class allows the control of the proactive 1-way measurement. It is created as a part of an establishProActiveDualEndedMeasurementJobSink() operation. Lifecycle: A pre-condition of deleting the object is that the Enable attribute should have the value FALSE.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
sinkMepId	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
sourceAddress	<u>MacAddress</u>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the MAC address of the peer MEP. See G.8013 for details.				
isEnabled	<p>PrimitiveTypes::Boolean Default value: <i>true</i></p>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute identifies the state of the measurement job. If set to TRUE, the MEP performs proactive Performance Measurement.				
priority Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::priority</i>	<p>PrimitiveTypes::Integer Default value: 7</p>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the priority value on which the MEP performs the measurement. When the measurement is enabled, the MEP should use this value to encode the priority of generated measurement frames (OAM PDU frames.). The EMF uses this value to assign the P parameter of the measurement operation.				
testIdentifier Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::testIdentifier</i>	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute is used to distinguish each measurement session if multiple measurement sessions are simultaneously activated towards a peer MEP including concurrent on-demand and proactive tests. It must be unique at least within the context of any measurement type for the MEG and initiating MEP. Note: The attribute is not used in case of 2-way loss measurement.			
messagePeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::messagePeriod</i>	PrimitiveTypes::Integer Default value: 1000	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute indicates the period (frequency) of the measurement frame transmission. Note that the value 0 means that only one OAM message per measurement interval is generated. Unit is milliseconds.			
measurementInterval Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::measurementInterval</i>	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the discrete non overlapping periods of time (in seconds) during which measurements are performed (i.e., OAM messages are generated) and reports are gathered at the end of the measurement intervals. Note that the value 0 means a degenerated measurement interval with a single OAM message and the report is sent as immediately as possible.			
repetitionPeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::repetitionPeriod</i>	<u>RepetitionPeriod</u> Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the time between the start of two measurement intervals. This IS applicable for the repetitive instance type and MAY be applicable for the repetitive series type. Note that a value of 0 means not applicable (NA), which is for the cases of single instance, single series, or repetitive series without extra gap in between the measurement intervals (i.e., also as known as continuous series).			
timeOfDayAlignment Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::timeOfDayAlignment</i>	PrimitiveTypes::Boolean Default value: true	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D7] A SOAM PM Implementation SHOULD allow for no alignment to the time-of-day clock.			

Attribute Name	Type	Mult.	Access	Stereotypes
offsetFromTimeOfDay	PrimitiveTypes::Integer Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::offsetFromTimeOfDay</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D8] A SOAM PM Implementation SHOULD support a configurable (in minutes) offset from ToD time for alignment of the start of Measurement Intervals other than the first Measurement Interval.			
flrAvailabilityDeltaTime	PrimitiveTypes::Integer Default value: 1 Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityDeltaTime</i>	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: Time length over which each Availability Frame Loss Ratio value is calculated. MEF 35.1: [R78]/[CR58] [O8] A SOAM PM Implementation MUST support a configurable parameter for the length of time over which each Availability flr value is calculated, with a range of 1s – 300s. This parameter is equivalent to delta-t as specified by MEF 10.3. [R79]/[CR59] [O8] The length of time over which each Availability flr value is calculated (delta-t) MUST be an integer multiple of the interval between each SLM/1SL frame transmission. [D31]/[CD16] [O8] The default length of time over which each Availability flr value is calculated SHOULD be 1s.			
flrAvailabilityThreshold	PrimitiveTypes::Real Default value: 0.1 Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityThreshold</i>	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
	Description: Frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each time interval (as specified by Availability Delta Time). MEF 35.1: [R81]/[CR61] A SOAM PM Implementation MUST support a configurable Availability frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each delta-t interval per MEF 10.3 [R82]/[CR62] The Availability frame loss ratio threshold range of 0.00 through 1.00 MUST be supported in increments of 0.01. [D33]/[CD18] [O8] The default Availability frame loss ratio threshold SHOULD be 0.1.			
flrAvailabilitySamples	PrimitiveTypes::Integer Default value: 10 Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilitySamples</i>	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	<p>Description:</p> <p>Number of consecutive Availability Frame Loss Ratio measurements to be used to determine Available/Unavailable state transitions. MEF 35.1: [R80]/[CR60] [O8] The number range of 1 through 10 MUST be supported for the configurable number of consecutive Availability flr measurements to be used to determine Available/Unavailable state transitions. This parameter is equivalent to the Availability parameter of n as specified by MEF 10.3. [D32]/[CD17] [O8] The default number of n for Availability SHOULD be 10.</p>			

Table 39 – Attributes for class *EthProActiveMeasurementJobControlSink***1.2.45 EthProActiveMeasurementJobControlSource****Description:**

- This object class represents a proactive measurement job controller source for 1way measurements. It is created as a part of an establishProactiveDualEndedMeasurementJobSource() operation.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
controllerMepId	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				
destinationAddress	MacAddress	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
Description:				This attribute provides the Unicast MAC address of the intended destination.
dataTlvLength	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This parameter provides the size of the optional data TLV. Non-negative integer represents the number of bytes for the length of the padding TLV. Notes: When configuring this parameter one should be aware of the maximum allowed total frame size limitation. The attribute is not used in case of 2-way loss measurement.			
isEnabled	PrimitiveTypes::Boolean Default value: <i>true</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute identifies the state of the measurement job. If set to TRUE, the MEP performs proactive Performance Measurement.			
priority Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::priority</i>	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the priority value on which the MEP performs the measurement. When the measurement is enabled, the MEP should use this value to encode the priority of generated measurement frames (OAM PDU frames.). The EMF uses this value to assign the P parameter of the measurement operation.			
testIdentifier Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::testIdentifier</i>	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute is used to distinguish each measurement session if multiple measurement sessions are simultaneously activated towards a peer MEP including concurrent on-demand and proactive tests. It must be unique at least within the context of any measurement type for the MEG and initiating MEP. Note: The attribute is not used in case of 2-way loss measurement.			
messagePeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::messagePeriod</i>	PrimitiveTypes::Integer Default value: 1000	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute indicates the period (frequency) of the measurement frame transmission. Note that the value 0 means that only one OAM message per measurement interval is generated. Unit is milliseconds.			

Attribute Name	Type	Mult.	Access	Stereotypes
measurementInterval Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::measurementInterval</i>	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the discrete non overlapping periods of time (in seconds) during which measurements are performed (i.e., OAM messages are generated) and reports are gathered at the end of the measurement intervals. Note that the value 0 means a degenerated measurement interval with a single OAM message and the report is sent as immediately as possible.			
repetitionPeriod Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::repetitionPeriod</i>	<u>RepetitionPeriod</u> Default value: 0	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the time between the start of two measurement intervals. This IS applicable for the repetitive instance type and MAY be applicable for the repetitive series type. Note that a value of 0 means not applicable (NA), which is for the cases of single instance, single series, or repetitive series without extra gap in between the measurement intervals (i.e., also as known as continuous series).			
timeOfTheDayAlignment Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::timeOfTheDayAlignment</i>	PrimitiveTypes::Boolean Default value: true	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D7] A SOAM PM Implementation SHOULD allow for no alignment to the time-of-day clock.			
offsetFromTimeOfDay Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::offsetFromTimeOfDay</i>	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: MEF 35.1: [D8] A SOAM PM Implementation SHOULD support a configurable (in minutes) offset from ToD time for alignment of the start of Measurement Intervals other than the first Measurement Interval.			
flrAvailabilityDeltaTime Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityDeltaTime</i>	PrimitiveTypes::Integer Default value: 1	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: Time length over which each Availability Frame Loss Ratio value is calculated. MEF 35.1: [R78]/[CR58] [O8] A SOAM PM Implementation MUST support a configurable parameter for the length of time over which each Availability flr value is calculated, with a range of 1s – 300s. This parameter is equivalent to delta-t as specified by MEF 10.3. [R79]/[CR59] [O8] The length of time over which each Availability flr value is calculated (delta-t) MUST be an integer multiple of the interval between each SLM/1SL frame transmission. [D31]/[CD16] [O8] The default length of time over which each Availability flr value is calculated SHOULD be 1s.			
flrAvailabilityThreshold Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilityThreshold</i>	PrimitiveTypes::Real Default value: 0.1	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: Frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each time interval (as specified by Availability Delta Time). MEF 35.1: [R81]/[CR61] A SOAM PM Implementation MUST support a configurable Availability frame loss ratio threshold to be used in evaluating the Available/Unavailable state of each delta-t interval per MEF 10.3 [R82]/[CR62] The Availability frame loss ratio threshold range of 0.00 through 1.00 MUST be supported in increments of 0.01. [D33]/[CD18] [O8] The default Availability frame loss ratio threshold SHOULD be 0.1.				
flrAvailabilitySamples Inherited: <i>TapiEth::ObjectClasses::EthMeasurementJobControlCommon::flrAvailabilitySamples</i>	PrimitiveTypes::Integer Default value: 10	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: Number of consecutive Availability Frame Loss Ratio measurements to be used to determine Available/Unavailable state transitions. MEF 35.1: [R80]/[CR60] [O8] The number range of 1 through 10 MUST be supported for the configurable number of consecutive Availability flr measurements to be used to determine Available/Unavailable state transitions. This parameter is equivalent to the Availability parameter of n as specified by MEF 10.3. [D32]/[CD17] [O8] The default number of n for Availability SHOULD be 10.				

Table 40 – Attributes for class *EthProActiveMeasurementJobControlSource***1.2.46 EthProActiveSingleEndedMeasurementJob**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
<code>ethProActiveMeasurementJobControlSource</code> <i>Navigable association end of: EthProActiveSingleEndedHasJobControlSource</i>	EthProActiveMeasurementJobControlSource	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 41 – Attributes for class *EthProActiveSingleEndedMeasurementJob***1.2.47 EthServiceInterfacePointSpec**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
<code>phyType</code> Inherited: <i>TapiEth::ObjectClasses::EtyPac::phyType</i>	EtyPhyType Default value: UNKNOWN	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
<code>phyTypeList</code> Inherited: <i>TapiEth::ObjectClasses::EtyPac::phyTypeList</i>	EtyPhyType Default value: NA	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 42 – Attributes for class *EthServiceInterfacePointSpec***1.2.48 EthTerminationCommonPac**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY

- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
priorityRegenerate	<p>PriorityMapping</p> <p>Default value: NA</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	<p>Description:</p> <p>This attribute models the ETHx/ETH-m_A_Sk_MI_P_Regenerate information defined in G.8021.</p>			
priorityCodePointConfig	<p>PcpCoding</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	<p>Description:</p> <p>This attribute models the ETHx/ETH-m_A_Sk_MI_PCP_Config information defined in G.8021.</p>			
etherType	<p>VlanType</p> <p>Default value: NA</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	<p>Description:</p> <p>This attribute models the ETHx/ETH-m_A_Sk_MI_Etype information defined in G.8021.</p>			
frametypeConfig	<p>FrameType</p> <p>Default value: <i>ADMIT_ONLY_UNTAGGED_AND_PRIORITY_TAGGED_FRAMES</i></p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	<p>Description:</p> <p>This attribute models the ETHx/ETH-m_A_Sk_MI_Frametype_Config information defined in G.8021.</p>			
filterConfig1	<p>MacAddress</p> <p>Default value: NA</p>	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute models the ETHx/ETH-m_A_Sk_MI_Filter_Config information defined in G.8021. It indicates the configured filter action for each of the 33 group MAC addresses for control frames. The 33 MAC addresses are: 01-80-C2-00-00-10, 01-80-C2-00-00-00 to 01-80-C2-00-00-0F, and 01-80-C2-00-00-20 to 01-80-C2-00-00-2F. The filter action is Pass or Block. If the destination address of the incoming ETH_CI_D matches one of the above addresses, the filter process shall perform the corresponding configured filter action. If none of the above addresses match, the ETH_CI_D is passed.			
portVid	Vid Default value: 1	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute models the ETHx/ETH-m_A_Sk_MI_PVID information defined in G.8021.			

Table 43 – Attributes for class *EthTerminationCommonPac***1.2.49 EthTerminationPac****Description:**

- This object class models the Ethernet Flow Termination function located at a layer boundary.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_ethTerminationCommonPac <i>Navigable association end of: EthTerminationPacHasEthTerminationCom monPac</i>	EthTerminationCommonPac	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 44 – Attributes for class *EthTerminationPac***1.2.50 EthTestJob****Description:**

- This class represents the 1-way on-demand in-service or out-of-service diagnostic test. The diagnostic test includes verifying bandwidth throughput, frame loss, bit errors, etc. TST frames are transmitted. The termination occurs at specified stop time (schedule attribute of OamJob).

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
testPattern	<p>TestPattern</p> <p>Default value: NA</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	<p>Description:</p> <p>G.8052: This parameter provides the test pattern to be used in the optional Data TLV. Examples of test patterns include pseudo-random bit sequence (PRBS) 2^31-1 as specified in clause 5.8 of [ITU-T O.150], all '0' pattern, etc.</p>			
destinationAddress	<p>MacAddress</p> <p>Default value: NA</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	<p>Description:</p> <p>G.8052: This parameter provides the destination address, i.e., the MAC Address of the target MEP or MIP.</p>			
_ethTestJobSinkPoint <i>Navigable association end of: EthTestJobHasEthTestJobSinkPoint</i>	<p>EthTestJobSinkPoint</p>	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	<p>Description:</p>			
_ethOamTestLoopbackCommonPac <i>Navigable association end of: EthTestJobHasEthOamTestLoopbackComm onPac</i>	<p>EthOamTestLoopbackCommonPac</p>	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
	<p>Description:</p>			

Attribute Name	Type	Mult.	Access	Stereotypes
number	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This parameter specifies how many TST messages to be sent.

Table 45 – Attributes for class *EthTestJob***1.2.51 EthTestJobSinkPoint**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
sourceAddress	MacAddress	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute contains the MAC address of the peer MEP.

Table 46 – Attributes for class *EthTestJobSinkPoint***1.2.52 EthTestResultData**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
sentTstFrames	PrimitiveTypes::Integer	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	G.8052: This parameter returns the total number of sent TST frames. Optional in case of sink only MEP.			
recTstFrames	PrimitiveTypes::Integer	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	Received TST frames. Optional in case of source only MEP.			

Table 47 – Attributes for class *EthTestResultData*

1.2.53 EtyPac

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
phyType	EtyPhyType Default value: UNKNOWN	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	This attribute identifies the PHY type of the ETY trail termination. See IEEE 802.3 clause 30.3.2.1.2.			
phyTypeList	EtyPhyType Default value: NA	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes	
	<p>Description:</p> <p>This attribute identifies the possible PHY types that could be supported at the ETY trail termination. See IEEE 802.3 clause 30.3.2.1.3.</p>				

Table 48 – Attributes for class *EtyPac***1.2.54 EtyTerminationCommonPac**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
isFtsEnabled	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
<p>Description:</p> <p>This attribute indicates whether Forced Transmitter Shutdown (FTS) is enabled or not. It models the ETYn_TT_So_MI_FTSEnable information.</p>				
isTxPauseEnabled	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA
<p>Description:</p> <p>This attribute identifies whether the Transmit Pause process is enabled or not. It models the MI_TxPauseEnable defined in G.8021.</p>				

Table 49 – Attributes for class *EtyTerminationCommonPac***1.2.55 EtyTerminationPac**

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
_etyTerminationCommonPac <i>Navigable association end of: EtyTerminationPacHasEtyTerminationCommonPac</i>	EtyTerminationCommonPac	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: 			
phyType Inherited: <i>TapiEth::ObjectClasses::EtyPac::phyType</i>	EtyPhyType Default value: UNKNOWN	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute identifies the PHY type of the ETY trail termination. See IEEE 802.3 clause 30.3.2.1.2.			
phyTypeList Inherited: <i>TapiEth::ObjectClasses::EtyPac::phyTypeList</i>	EtyPhyType Default value: NA	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute identifies the possible PHY types that could be supported at the ETY trail termination. See IEEE 802.3 clause 30.3.2.1.3.			

Table 50 – Attributes for class *EtyTerminationPac*

1.2.56 TrafficConditioningPac

Description:

- Basic attributes: codirectional, condConfigList, prioConfigList

Description:

- This object class models the ETH traffic conditioning function as defined in G.8021.

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
prioConfigList	<p>PriorityConfiguration Default value: NA</p> <p>Description: This attribute indicates the Priority Splitter function for the mapping of the Ethernet frame priority (ETH_CI_P) values to the output queue.</p>	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
condConfigList	<p>TrafficConditioningConfiguration Default value: NA</p> <p>Description: This attribute indicates for the conditioner process the conditioning parameters: - Queue ID: Indicates the Queue ID - Committed Information Rate (CIR): number of bits per second - Committed Burst Size (CBS): number of bytes - Excess Information Rate (EIR): number of bits per second - Excess Burst Size (EBS): number of bytes - Coupling flag (CF): 0 or 1 - Color mode (CM): color-blind and color-aware.</p>	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
codirectional	<p>PrimitiveTypes::Boolean Default value: NA</p> <p>Description: This attribute indicates the direction of the conditioner. The value of true means that the conditioner (modeled as a TCS Sink according to G.8021) is associated with the sink part of the containing CTP. The value of false means that the conditioner (modeled as a TCS Sink according to G.8021) is associated with the source part of the containing CTP.</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 51 – Attributes for class *TrafficConditioningPac***1.2.57 TrafficShapingPac****Description:**

- This object class models the ETH traffic shaping function as defined in G.8021.

Description:

- Basic attribute: codirectional, prioConfigList, queueConfigList, schedConfig

Applied stereotypes:

- OpenModelClass
 - support: MANDATORY
- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

Attribute Name	Type	Mult.	Access	Stereotypes
prioConfigList	<p>PriorityConfiguration</p> <p>Default value: NA</p>	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>This attribute configures the Priority Splitter function for the mapping of the Ethernet frame priority (ETH_CI_P) values to the output queue.</p>			
queueConfigList	<p>QueueConfiguration</p> <p>Default value: NA</p>	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>This attribute configures the Queue depth and Dropping threshold parameters of the Queue process. The Queue depth sets the maximum size of the queue in bytes. An incoming ETH_CI traffic unit is dropped if there is insufficient space in the queue to hold the whole unit. The Dropping threshold sets the threshold of the queue. If the queue is filled beyond this threshold, incoming ETH_CI traffic units accompanied by the ETH_CI_DE signal set are dropped.</p>			
schedConfig	<p>SchedulingConfiguration</p> <p>Default value: NA</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>This attribute configures the scheduler process. The value of this attribute is for further study because it is for further study in G.8021. Scheduler is a pointer to a Scheduler object, which is to be defined in the future (because in G.8021, this is FFS). Note that the only significance of the GTCS function defined in G.8021 is the use of a common scheduler for shaping. Given that, G.8052 models the common scheduler feature by having a common value for this attribute.</p>			
codirectional	<p>PrimitiveTypes::Boolean</p> <p>Default value: NA</p>	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>This attribute indicates the direction of the shaping function. The value of true means that the shaping (modeled as a TCS Source according to G.8021) is associated with the source part of the containing CTP. The value of false means that the shaping (modeled as a TCS Source according to G.8021) is associated with the sink part of the containing CTP.</p>			

Table 52 – Attributes for class *TrafficShapingPac*

1.3 Signals

1.4 Associations

1.4.1 EthCepSpecHasCtpPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCtp	composite	Yes	EthCtpPac	0..1
_lpSpec	none	No	EthConnectionEndPointSpec	1

Table 53 – Member ends for association *EthCepSpecHasCtpPac*

1.4.2 EthCepSpecHasEtyTermPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_etyTerm	composite	Yes	EtyTerminationPac	0..1
_lpSpec	none	No	EthConnectionEndPointSpec	1

Table 54 – Member ends for association *EthCepSpecHasEtyTermPac*

1.4.3 EthCepSpecHasTermPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethTerm	composite	Yes	EthTerminationPac	0..1
_lpSpec	none	No	EthConnectionEndPointSpec	1

Table 55 – Member ends for association *EthCepSpecHasTermPac*

1.4.4 EthCsepSpecHasEthCtpCommonPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCtpCommonPac	none	Yes	EthCtpCommonPac	0..1
ethconnectivityserviceendpointspec	none	No	EthConnectivityServiceEndPointSpec	1

Table 56 – Member ends for association *EthCsepSpecHasEthCtpCommonPac***1.4.5 EthCsepSpecHasEthTerminationCommonPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethTerminationCommonPac	none	Yes	EthTerminationCommonPac	0..1
ethconnectivityserviceendpointspec	none	No	EthConnectivityServiceEndPointSpec	1

Table 57 – Member ends for association *EthCsepSpecHasEthTerminationCommonPac***1.4.6 EthCsepSpecHasEtyTerminationCommonPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_etyTerminationCommonPac	none	Yes	EtyTerminationCommonPac	0..1
ethconnectivityserviceendpointspec	none	No	EthConnectivityServiceEndPointSpec	1

Table 58 – Member ends for association *EthCsepSpecHasEtyTerminationCommonPac***1.4.7 EthCtpCommonPacHasTrafficCondPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_trafficConditioningPac	composite	Yes	TrafficConditioningPac	0..1
connectionpointandadapterspec_tapi_eth	none	No	EthCtpCommonPac	1

Table 59 – Member ends for association *EthCtpCommonPacHasTrafficCondPac***1.4.8 EthCtpCommonPacHasTrafficShapingPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_trafficShapingPac	composite	Yes	TrafficShapingPac	0..1
connectionpointandadapterspec_tapi_eth	none	No	EthCtpCommonPac	1

Table 60 – Member ends for association *EthCtpCommonPacHasTrafficShapingPac*

1.4.9 EthCtpPacHasEthCtpCommonPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCtpCommonPac	none	Yes	EthCtpCommonPac	1
ethctppac	none	No	EthCtpPac	1

Table 61 – Member ends for association *EthCtpPacHasEthCtpCommonPac*

1.4.10 EthLinkTraceJobHasEthCfmLinkTracePac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCfmLinkTracePac	composite	Yes	EthCfmLinkTracePac	0..1
ethlinktracejob	none	No	EthLinkTraceJob	1

Table 62 – Member ends for association *EthLinkTraceJobHasEthCfmLinkTracePac*

1.4.11 EthLinkTraceResultDataHasEthCfmLinkTraceResultData

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCfmLinkTraceResultData	composite	Yes	EthCfmLinkTraceResultData	0..*
ethlinktraceresultdata	none	No	EthLinkTraceResultData	1

Table 63 – Member ends for association *EthLinkTraceResultDataHasEthCfmLinkTraceResultData*

1.4.12 EthLoopbackJobHasEthOamTestLoopbackCommonPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethOamTestLoopbackCommonPac	composite	Yes	EthOamTestLoopbackCommonPac	0..1
ethloopbackjob	none	No	EthLoopbackJob	1

Table 64 – Member ends for association *EthLoopbackJobHasEthOamTestLoopbackCommonPac*

1.4.13 EthMegSpecHasEthCfmMaintenanceAssociation

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCfmMaintenanceAssociation	composite	Yes	EthCfmMaintenanceAssociation	0..1
ethmegspec	none	No	EthMegSpec	1

Table 65 – Member ends for association *EthMegSpecHasEthCfmMaintenanceAssociation*

1.4.14 EthMegSpecHasEthCfmMaintenanceDomain

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCfmMaintenanceDomain	composite	Yes	EthCfmMaintenanceDomain	0..1
ethmegspec	none	No	EthMegSpec	1

Table 66 – Member ends for association *EthMegSpecHasEthCfmMaintenanceDomain*

1.4.15 EthMegSpecHasEthMegCommon

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMegCommon	composite	Yes	EthMegCommon	1
ethmegspec	none	No	EthMegSpec	1

Table 67 – Member ends for association *EthMegSpecHasEthMegCommon*

1.4.16 EthMepSpecHasEthMepCommon

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMepCommon	composite	Yes	EthMepCommon	1
ethmepspec	none	No	EthMepSpec	1

Table 68 – Member ends for association *EthMepSpecHasEthMepCommon*

1.4.17 EthMepSpecHasEthMepSink

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMepSink	composite	Yes	EthMepSink	0..1
ethmepspec	none	No	EthMepSpec	1

Table 69 – Member ends for association *EthMepSpecHasEthMepSink***1.4.18 EthMepSpecHasMepSource**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMepSource	composite	Yes	EthMepSource	0..1
ethmepspec	none	No	EthMepSpec	1

Table 70 – Member ends for association *EthMepSpecHasMepSource***1.4.19 EthMipSpecHasEthMipCommon**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMipCommon	composite	Yes	EthMipCommon	1
ethmipspec	none	No	EthMipSpec	1

Table 71 – Member ends for association *EthMipSpecHasEthMipCommon***1.4.20 EthOamMepServicePointHasEthMepCommon**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMepCommon	composite	Yes	EthMepCommon	1
ethoammepservicepoint	none	No	EthOamMepServicePoint	1

Table 72 – Member ends for association *EthOamMepServicePointHasEthMepCommon***1.4.21 EthOamMepServicePointHasEthMepSink**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMepSink	composite	Yes	EthMepSink	0..1
ethoammepservicepoint	none	No	EthOamMepServicePoint	1

Table 73 – Member ends for association *EthOamMepServicePointHasEthMepSink***1.4.22 EthOamMepServicePointHasEthMepSource**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMepSource	composite	Yes	EthMepSource	0..1
ethoammepservicepoint	none	No	EthOamMepServicePoint	1

Table 74 – Member ends for association *EthOamMepServicePointHasEthMepSource***1.4.23 EthOamMipServicePointHasEthMipCommon**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMipCommon	composite	Yes	EthMipCommon	0..1
ethoammipservicepoint	none	No	EthOamMipServicePoint	1

Table 75 – Member ends for association *EthOamMipServicePointHasEthMipCommon***1.4.24 EthOamServiceHasEthCfmMaintenanceAssociation**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCfmMaintenanceAssociation	composite	Yes	EthCfmMaintenanceAssociation	0..1
ethoamservice	none	No	EthOamService	1

Table 76 – Member ends for association *EthOamServiceHasEthCfmMaintenanceAssociation***1.4.25 EthOamServiceHasEthCfmMaintenanceDomain**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethCfmMaintenanceDomain	composite	Yes	EthCfmMaintenanceDomain	0..1
ethoamservice	none	No	EthOamService	1

Table 77 – Member ends for association *EthOamServiceHasEthCfmMaintenanceDomain***1.4.26 EthOamServiceHasEthMegCommon**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethMegCommon	composite	Yes	EthMegCommon	1
ethoamservice	none	No	EthOamService	1

Table 78 – Member ends for association *EthOamServiceHasEthMegCommon***1.4.27 EthOnDemandDualEndedHasJobControlSink**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethOnDemandMeasurementJobControlSink	composite	Yes	EthOnDemandMeasurementJobControlSink	0..1
ethondemand1waymeasurementjob	none	No	EthOnDemandDualEndedMeasurementJob	1

Table 79 – Member ends for association *EthOnDemandDualEndedHasJobControlSink***1.4.28 EthOnDemandDualEndedHasJobControlSource**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethOnDemandMeasurementJobControlSource	composite	Yes	EthOnDemandMeasurementJobControlSource	0..1
ethondemand1waymeasurementjob	none	No	EthOnDemandDualEndedMeasurementJob	1

Table 80 – Member ends for association *EthOnDemandDualEndedHasJobControlSource***1.4.29 EthOnDemandSingleEndedHasJobControlSource**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethOnDemandMeasurementJobControlSource	composite	Yes	EthOnDemandMeasurementJobControlSource	1
ethondemand2waymeasurementjob	none	No	EthOnDemandSingleEndedMeasurementJob	1

Table 81 – Member ends for association *EthOnDemandSingleEndedHasJobControlSource***1.4.30 EthProActiveDualEndedHasJobControlSink**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethProActiveMeasurementJobControlSink	composite	Yes	EthProActiveMeasurementJobControlSink	0..1
eth1waydelaymeasurementproactivejob	none	No	EthProActiveDualEndedMeasurementJob	1

Table 82 – Member ends for association *EthProActiveDualEndedHasJobControlSink***1.4.31 EthProActiveDualEndedHasJobControlSource**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethProActiveMeasurementJobControlSource	composite	Yes	EthProActiveMeasurementJobControlSource	0..1
eth1waydelaymeasurementproactivejob	none	No	EthProActiveDualEndedMeasurementJob	1

Table 83 – Member ends for association *EthProActiveDualEndedHasJobControlSource***1.4.32 EthProActiveSingleEndedHasJobControlSource**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethProActiveMeasurementJobControlSource	composite	Yes	EthProActiveMeasurementJobControlSource	1
ethframedelay2wayproactivejob	none	No	EthProActiveSingleEndedMeasurementJob	1

Table 84 – Member ends for association *EthProActiveSingleEndedHasJobControlSource***1.4.33 EthTerminationPacHasEthTerminationCommonPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethTerminationCommonPac	none	Yes	EthTerminationCommonPac	1
ethterminationpac	none	No	EthTerminationPac	1

Table 85 – Member ends for association *EthTerminationPacHasEthTerminationCommonPac***1.4.34 EthTestJobHasEthOamTestLoopbackCommonPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethOamTestLoopbackCommonPac	composite	Yes	EthOamTestLoopbackCommonPac	0..1
ethtestspec	none	No	EthTestJob	1

Table 86 – Member ends for association *EthTestJobHasEthOamTestLoopbackCommonPac***1.4.35 EthTestJobHasEthTestJobSinkPoint**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_ethTestJobSinkPoint	composite	Yes	EthTestJobSinkPoint	0..1
ethtestjob	none	No	EthTestJob	1

Table 87 – Member ends for association *EthTestJobHasEthTestJobSinkPoint***1.4.36 EtyTerminationPacHasEtyTerminationCommonPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_etyTerminationCommonPac	composite	Yes	EtyTerminationCommonPac	1
etyterminationpac	none	No	EtyTerminationPac	1

Table 88 – Member ends for association *EtyTerminationPacHasEtyTerminationCommonPac***1.5 Abstractions****1.5.1 BandwidthProfileAugmentsCapacity**

Augmenting Enumeration	Augmented Enumeration
BandwidthProfile	Capacity
Comment	
Data Type Augment.	

Table 89 – Member ends for enum abstraction *BandwidthProfileAugmentsCapacity***1.5.2 EthCepAugmentsCep**

Augmenting Class	Augmented Class	Comment
EthConnectionEndPointSpec	TapiConnectivity::ObjectClasses::ConnectionEndPoint	Augments the base CEP with Ethernet specific information.
target: "/TapiCommon:TapiContext:_context/TapiTopology:TopologyContext:_topologyContext/TapiTopology:TopologyContext:_topology/TapiTopology:Topology:_node/TapiTopology:Node:_ownedNodeEdgePoint/TapiConnectivity:CepList:_cepList/TapiConnectivity:CepList:_connectionEndPoint"		

Table 90 – Member ends for class abstraction *EthCepAugmentsCep***1.5.3 EthConnectivityServiceAugmentsCs**

Augmenting Class	Augmented Class	Comment
EthConnectivityService	TapiConnectivity::ObjectClasses::ConnectivityService	
target: "/TapiCommon:Context:_context/TapiConnectivity:ConnectivityContext:_connectivityContext/TapiConnectivity:ConnectivityContext:_connectivityService"		

Table 91 – Member ends for class abstraction *EthConnectivityServiceAugmentsCs***1.5.4 EthCsepSpecAugmentsCsep**

Augmenting Class	Augmented Class	Comment
EthConnectivityServiceEndPointSpec	TapiConnectivity::ObjectClasses::ConnectivityServiceEndPoint	
target: "/TapiCommon:Context:_context/TapiConnectivity:ConnectivityContext:_connectivityContext/TapiConnectivity:ConnectivityContext:_connectivityService/TapiConnectivity:ConnectivityService:_endPoint"		

Table 92 – Member ends for class abstraction *EthCsepSpecAugmentsCsep***1.5.5 EthJobTypeAugmentsOamJob**

Augmenting Enumeration	Augmented Enumeration
<p>EthOamJobType</p> <ul style="list-style-type: none"> - ETH_1DM - ETH_1SLM - ETH_DM - ETH_LBK - ETH_LM_CCM - ETH_LM_LMM - ETH_LTC - ETH_SLM - ETH_TEST 	<p>OamJobType</p> <ul style="list-style-type: none"> - LOOPBACK_FACILITY - LOOPBACK_TERMINAL
Comment	
Enumeration Augment.	

Table 93 – Member ends for enum abstraction *EthJobTypeAugmentsOamJob***1.5.6 EthLbResultAugmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthLoopbackResultData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 94 – Member ends for class abstraction *EthLbResultAugmentsCurrentData***1.5.7 EthLinkTraceJobAugmentsOamJob**

Augmenting Class	Augmented Class	Comment
EthLinkTraceJob	TapiOam::ObjectClasses::OamJob	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 95 – Member ends for class abstraction *EthLinkTraceJobAugmentsOamJob***1.5.8 EthLoopbackJobAugmentsOamJob**

Augmenting Class	Augmented Class	Comment
EthLoopbackJob	TapiOam::ObjectClasses::OamJob	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 96 – Member ends for class abstraction *EthLoopbackJobAugmentsOamJob***1.5.9 EthLtResultAugmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthLinkTraceResultData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 97 – Member ends for class abstraction *EthLtResultAugmentsCurrentData*

1.5.10 EthMegAugmentsMeg

Augmenting Class	Augmented Class	Comment
EthMegSpec	TapiOam::ObjectClasses::Meg	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_meg"		

Table 98 – Member ends for class abstraction *EthMegAugmentsMeg*

1.5.11 EthMepAugmentsMep

Augmenting Class	Augmented Class	Comment
EthMepSpec	TapiOam::ObjectClasses::Mep	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_meg/TapiOam:Meg:_mep"		

Table 99 – Member ends for class abstraction *EthMepAugmentsMep*

1.5.12 EthMipAugmentsMip

Augmenting Class	Augmented Class	Comment
EthMipSpec	TapiOam::ObjectClasses::Mip	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_meg/TapiOam:Meg:_mip"		

Table 100 – Member ends for class abstraction *EthMipAugmentsMip*

1.5.13 EthOamMepServicePointAugmentsOamServicePoint

Augmenting Class	Augmented Class	Comment
EthOamMepServicePoint	TapiOam::ObjectClasses::OamServicePoint	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamService/TapiOam:OamService:_oamServicePoint"		

Table 101 – Member ends for class abstraction *EthOamMepServicePointAugmentsOamServicePoint*

1.5.14 EthOamMipServicePointAugmentsOamServicePoint

Augmenting Class	Augmented Class	Comment
EthOamMipServicePoint	TapiOam::ObjectClasses::OamServicePoint	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamService/TapiOam:OamService:_oamServicePoint"		

Table 102 – Member ends for class abstraction *EthOamMipServicePointAugmentsOamServicePoint*

1.5.15 EthOamServiceAugmentsOamService

Augmenting Class	Augmented Class	Comment
EthOamService	TapiOam::ObjectClasses::OamService	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamService"		

Table 103 – Member ends for class abstraction *EthOamServiceAugmentsOamService***1.5.16 EthOnDemand1DmAugsntsCurrentData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1DmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 104 – Member ends for class abstraction *EthOnDemand1DmAugsntsCurrentData***1.5.17 EthOnDemand1DmAugsntsHistoryData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1DmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 105 – Member ends for class abstraction *EthOnDemand1DmAugsntsHistoryData***1.5.18 EthOnDemand1DmSourceAugsntsCurrentData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1DmSourcePerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 106 – Member ends for class abstraction *EthOnDemand1DmSourceAugsntsCurrentData***1.5.19 EthOnDemand1DmSourceAugsntsHistoryData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1DmSourcePerformanceData	TapiEth::Diagrams	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 107 – Member ends for class abstraction *EthOnDemand1DmSourceAugsntsHistoryData***1.5.20 EthOnDemand1LmAugsntsCurrentData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1LmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 108 – Member ends for class abstraction *EthOnDemand1LmAugmentsCurrentData***1.5.21 EthOnDemand1LmAugsmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1LmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 109 – Member ends for class abstraction *EthOnDemand1LmAugmentsHistoryData***1.5.22 EthOnDemand1LmSourceAugsmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1LmSourcePerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 110 – Member ends for class abstraction *EthOnDemand1LmSourceAugsmentsCurrentData***1.5.23 EthOnDemand1LmSourceAugsmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthOnDemand1LmSourcePerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 111 – Member ends for class abstraction *EthOnDemand1LmSourceAugsmentsHistoryData***1.5.24 EthOnDemandDmAugsmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthOnDemandDmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 112 – Member ends for class abstraction *EthOnDemandDmAugsmentsCurrentData***1.5.25 EthOnDemandDmAugsmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthOnDemandDmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 113 – Member ends for class abstraction *EthOnDemandDmAugmentsHistoryData***1.5.26 EthOnDemandDualEndAugmentsOamJob**

Augmenting Class	Augmented Class	Comment
EthOnDemandDualEndedMeasurementJob	TapiOam::ObjectClasses::OamJob	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 114 – Member ends for class abstraction *EthOnDemandDualEndAugmentsOamJob***1.5.27 EthOnDemandLmAugsCurrentData**

Augmenting Class	Augmented Class	Comment
EthOnDemandLmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 115 – Member ends for class abstraction *EthOnDemandLmAugsCurrentData***1.5.28 EthOnDemandLmAugsHistoryData**

Augmenting Class	Augmented Class	Comment
EthOnDemandLmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 116 – Member ends for class abstraction *EthOnDemandLmAugsHistoryData***1.5.29 EthOnDemandSingleEndAugmentsOamJob**

Augmenting Class	Augmented Class	Comment
Diagrams	TapiOam::ObjectClasses::OamJob	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 117 – Member ends for class abstraction *EthOnDemandSingleEndAugmentsOamJob***1.5.30 EthProActive1DmAugsCurrentData**

Augmenting Class	Augmented Class	Comment
EthProActive1DmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 118 – Member ends for class abstraction *EthProActive1DmAugmentsCurrentData***1.5.31 EthProActive1DmAugsmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthProActive1DmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 119 – Member ends for class abstraction *EthProActive1DmAugsmentsHistoryData***1.5.32 EthProActive1DmSourceAugsmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthProActive1DmSourcePerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 120 – Member ends for class abstraction *EthProActive1DmSourceAugsmentsCurrentData***1.5.33 EthProActive1DmSourceAugsmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthProActive1DmSourcePerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 121 – Member ends for class abstraction *EthProActive1DmSourceAugsmentsHistoryData***1.5.34 EthProActive1LmAugsmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthProActive1LmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 122 – Member ends for class abstraction *EthProActive1LmAugsmentsCurrentData***1.5.35 EthProActive1LmAugsmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthProActive1LmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 123 – Member ends for class abstraction *EthProActive1LmAugsmentsHistoryData***1.5.36 EthProActive1LmSourceAugmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthProActive1LmSourcePerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 124 – Member ends for class abstraction *EthProActive1LmSourceAugmentsCurrentData***1.5.37 EthProActive1LmSourceAugmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthProActive1LmSourcePerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 125 – Member ends for class abstraction *EthProActive1LmSourceAugmentsHistoryData***1.5.38 EthProActiveDmAugmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthProActiveDmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 126 – Member ends for class abstraction *EthProActiveDmAugmentsCurrentData***1.5.39 EthProActiveDmAugmentsHistoryData**

Augmenting Class	Augmented Class	Comment
EthProActiveDmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 127 – Member ends for class abstraction *EthProActiveDmAugmentsHistoryData***1.5.40 EthProActiveDualEndAugmentsOamJob**

Augmenting Class	Augmented Class	Comment
EthProActiveDualEndedMeasurementJob	TapiOam::ObjectClasses::OamJob	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 128 – Member ends for class abstraction *EthProActiveDualEndAugmentsOamJob***1.5.41 EthProActiveLmAugsCurrentData**

Augmenting Class	Augmented Class	Comment
EthProActiveLmPerformanceData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 129 – Member ends for class abstraction *EthProActiveLmAugsCurrentData***1.5.42 EthProActiveLmAugsHistoryData**

Augmenting Class	Augmented Class	Comment
EthProActiveLmPerformanceData	TapiOam::ObjectClasses::HistoryData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData/TapiOam:PmCurrentData:_historyData"		

Table 130 – Member ends for class abstraction *EthProActiveLmAugsHistoryData***1.5.43 EthProActiveSingleEndAugmentsOamJob**

Augmenting Class	Augmented Class	Comment
EthProActiveSingleEndedMeasurementJob	TapiEth::Diagrams	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 131 – Member ends for class abstraction *EthProActiveSingleEndAugmentsOamJob***1.5.44 EthSipAugsSip**

Augmenting Class	Augmented Class	Comment
EthServiceInterfacePointSpec	TapiCommon::ObjectClasses::ServiceInterfacePoint	
target: "/TapiCommon:Context:_context/TapiCommon:Context:_serviceInterfacePoint"		

Table 132 – Member ends for class abstraction *EthSipAugsSip***1.5.45 EthTestJobAugsOamJob**

Augmenting Class	Augmented Class	Comment
EthTestJob	TapiOam::ObjectClasses::OamJob	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob"		

Table 133 – Member ends for class abstraction *EthTestJobAugmentsOamJob***1.5.46 EthTestResultAugmentsCurrentData**

Augmenting Class	Augmented Class	Comment
EthTestResultData	TapiOam::ObjectClasses::CurrentData	
target: "/TapiCommon:Context:_context/TapiOam:OamContext:_oamContext/TapiOam:OamContext:_oamJob/TapiOam:OamJob:_currentData"		

Table 134 – Member ends for class abstraction *EthTestResultAugmentsCurrentData***1.6 Data Types****1.6.1 AddressTuple****Description:**

- This data type contains an address tuple consisting of a MAC address and a corresponding port list.

Attribute Name	Type	Mult.	Access	Stereotypes
address	MacAddress	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the MAC address of the address tuple.				
portList	MacAddress	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the ports associated to the MAC address in the address tuple.				

Table 135 – Attributes for data type *AddressTuple***1.6.2 BandwidthProfile**

Attribute Name	Type	Mult.	Access	Stereotypes
bwProfileType	BandwidthProfileType	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description:			
committedInformationRate	TapiCommon::TypeDefinitions::CapacityValue	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
committedBurstSize	TapiCommon::TypeDefinitions::CapacityValue	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
peakInformationRate	TapiCommon::TypeDefinitions::CapacityValue	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
peakBurstSize	TapiCommon::TypeDefinitions::CapacityValue	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
colorAware	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Attribute Name	Type	Mult.	Access	Stereotypes
couplingFlag	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 136 – Attributes for data type *BandwidthProfile*

1.6.3 BandwidthReport

Description:

- Data type for the bandwidth report.

Attribute Name	Type	Mult.	Access	Stereotypes
sourceMacAddress	MacAddress	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The sourceMacAddress is the address from the far end.			
portId	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute returns the far end port identifier.			
nominalBandwidth	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute returns the configured bandwidth			

Attribute Name	Type	Mult.	Access	Stereotypes
currentBandwidth	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute returns the current bandwidth.

Table 137 – Attributes for data type *BandwidthReport*

1.6.4 ControlFrameFilter

Description:

- This data type identifies the filter action for each of the 33 group MAC addresses (control frames). Value "false" means block: The frame is discarded by the filter process. Value "true" means pass: The frame is passed unchanged through the filter process.

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-10	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute identifies the "All LANs Bridge Management Group Address".
01-80-C2-00-00-00	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute identifies the STP/RSTP/MSTP protocol address.
01-80-C2-00-00-01	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute identifies the IEEE MAC-specific Control Protocols group address (PAUSE protocol).

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-02	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
Description: This attribute identifies the IEEE 802.3 Slow_Protocols_Multicast address (LACP/LAMP or Link OAM protocols).				
01-80-C2-00-00-03	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
Description: This attribute identifies the Nearest non-TPMR Bridge group address (Port Authentication protocol).				
01-80-C2-00-00-04	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
Description: This attribute identifies the IEEE MAC-specific Control Protocols group address.				
01-80-C2-00-00-05	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
Description: Reserved for future standardization.				
01-80-C2-00-00-06	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORYOpenInterfaceModelAttribute• AVC: NA
Description: Reserved for future standardization.				

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-07	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description:				This attribute identifies the Metro Ethernet Forum E-LMI protocol group address.
01-80-C2-00-00-08	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description:				This attribute identifies the Provider Bridge Group address.
01-80-C2-00-00-09	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description:				Reserved for future standardization.
01-80-C2-00-00-0A	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description:				Reserved for future standardization.
01-80-C2-00-00-0B	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description:				Reserved for future standardization.

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-0C	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-0D	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute identifies the Provider Bridge MVRP address.			
01-80-C2-00-00-0E	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute identifies the Individual LAN Scope group address, Nearest Bridge group address (LLDP protocol).			
01-80-C2-00-00-0F	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-20	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute identifies the Customer and Provider Bridge MMRP address.			

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-21	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description: This attribute identifies the Customer Bridge MVRP address.				
01-80-C2-00-00-22	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description: Reserved for future standardization.				
01-80-C2-00-00-23	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description: Reserved for future standardization.				
01-80-C2-00-00-24	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description: Reserved for future standardization.				
01-80-C2-00-00-25	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
Description: Reserved for future standardization.				

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-26	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-27	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-28	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-29	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-2A	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Reserved for future standardization.			

Attribute Name	Type	Mult.	Access	Stereotypes
01-80-C2-00-00-2B	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-2C	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-2D	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-2E	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: Reserved for future standardization.			
01-80-C2-00-00-2F	PrimitiveTypes::Boolean Default value: <i>false</i>	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: Reserved for future standardization.			

Table 138 – Attributes for data type *ControlFrameFilter*

1.6.5 LinkTraceResult

Description:

- G.8052: This data type contains the result from an individual LTR frame.

Attribute Name	Type	Mult.	Access	Stereotypes
sourceAddress	MacAddress	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
G.8052: This attribute contains the source MAC Address of an individual LTR frame result.				
timeToLive	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
G.8052: This attribute contains the Time To Live (TTL) value of an individual LTR frame result.				
dataTlvLength	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
G.8052: This attribute contains the length (in number of octets) of the Data TLV of an individual LTR frame result.				

Table 139 – Attributes for data type *LinkTraceResult*

1.6.6 LldpChassisIdSubtype

Description:

- MEF 38: The chassis-id-subtype contains the chassis ID entity that is listed in the chassis ID field. This is a combination of the 'Chassis ID Subtype' and 'chassis ID' fields.

Attribute Name	Type	Mult.	Access	Stereotypes
chassisComponent	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	<p>Description:</p> <p>String length "0..32" Represents a chassis identifier based on the value of entPhysicalAlias object (defined in IETF RFC 2737) for a chassis component (i.e., an entPhysicalClass value of chassis(3)).</p>			
interfaceAlias	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>String length "0..64" Represents a chassis identifier based on the value of ifAlias object (defined in IETF RFC 2863) for an interface on the containing chassis.</p>			
portComponent	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>String length "0..32" Represents a chassis identifier based on the value of entPhysicalAlias object (defined in IETF RFC 2737) for a port or backplane component (i.e., entPhysicalClass value of port(10) or backplane(4)), within the containing chassis.</p>			
macAddress	MacAddress	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>Represents a chassis identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001.</p>			
networkAddress	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	<p>Description:</p> <p>Octet string that identifies a particular network address family and an associated network address that are encoded in network octet order. An IP address, for example, would be encoded with the first octet containing the IANA Address Family Numbers enumeration value for the specific address type and octets 2 through n containing the address value.</p>			

Attribute Name	Type	Mult.	Access	Stereotypes
interfaceName	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	Represents a chassis identifier based on the value of ifName object (defined in IETF RFC 2863) for an interface on the containing chassis.			
local	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	Represents a chassis identifier based on a locally defined value.			

Table 140 – Attributes for data type *LldpChassisIdSubtype*

1.6.7 LldpPortIdSubtype

Description:

- IEEE P802.1Qcx/D0.3: The source of a particular type of port identifier used in the LLDP YANG module. MEF 38: Data definitions associated with the Port ID TLV.

Attribute Name	Type	Mult.	Access	Stereotypes
interfaceAlias	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	String length "0..64" Represents a port identifier based on the ifAlias MIB object, defined in IETF RFC 2863.			
portComponent	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	String length "0..32" Represents a port identifier based on the value of entPhysicalAlias (defined in IETF RFC 2737) for a port component (i.e., entPhysicalClass value of port(10)), within the containing chassis.			

Attribute Name	Type	Mult.	Access	Stereotypes
macAddress	MacAddress	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Represents a port identifier based on a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), which has been detected by the agent and associated with a particular port (IEEE Std 802-2001).			
networkAddress	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Represents a port identifier based on a network address, detected by the agent and associated with a particular port. Octet string that identifies a particular network address family and an associated network address that are encoded in network octet order. An IP address, for example, would be encoded with the first octet containing the IANA Address Family Numbers enumeration value for the specific address type and octets 2 through n containing the address value.			
interfaceName	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: String length "0..64" Represents a port identifier based on the ifName MIB object, defined in IETF RFC 2863.			
agentCircuitId	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Represents a port identifier based on the agent-local identifier of the circuit (defined in RFC 3046), detected by the agent and associated with a particular port.			
local	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes	
	<p>Description:</p> <p>Represents a port identifier based on a value locally assigned.</p>				

Table 141 – Attributes for data type *LldpPortIdSubtype***1.6.8 MaintenanceAssociationName**

Attribute Name	Type	Mult.	Access	Stereotypes	
ieeeReserved	<p>PrimitiveTypes::String Default value: 0</p>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA 	
	<p>Description:</p> <p>IEEE P802.1Qcx/D0.3: Reserved for definition by IEEE 802.1. Recommend not to use zero unless absolutely needed. Length "1..45".</p>				
primaryVlanId	<u>Vid</u>	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA 	
	<p>Description:</p> <p>IEEE P802.1Qcx/D0.3: MEF 38: Primary VLAN ID. 12 bits represented in a 2-octet integer.</p>				
charString	PrimitiveTypes::String	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA 	
	<p>Description:</p> <p>IEEE P802.1Qcx/D0.3: MEF 38: RFC2579 DisplayString, except that the character codes 0-31 (decimal) are not used. Length "1..45"</p>				
unsignedInt16	PrimitiveTypes::Integer	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA 	
	<p>Description:</p> <p>IEEE P802.1Qcx/D0.3: MEF 38: 2-octet integer/big endian.</p>				

Attribute Name	Type	Mult.	Access	Stereotypes
rfc2865VpnId	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	IEEE P802.1Qcx/D0.3: MEF 38: RFC2685 VPN ID. 3 octet VPN authority Organizationally Unique Identifier followed by 4 octet VPN index identifying VPN according to the OUI. Length "1..45";			
iccFormat	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
	IEEE P802.1Qcx/D0.3: ICC-based format as specified in ITU-T Y.1731. Length "1..45"			

Table 142 – Attributes for data type *MaintenanceAssociationName***1.6.9 ModifyCrossConnectionData****1.6.10 PriorityConfiguration**

Attribute Name	Type	Mult.	Access	Stereotypes
priority	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
queueId	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				

Table 143 – Attributes for data type *PriorityConfiguration*

1.6.11 PriorityMapping

Description:

- This data type provides the priority mapping done in the "P Regenerate" process defined in G.8021.

Attribute Name	Type	Mult.	Access	Stereotypes
Priority0	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute defines the new priority value for the old priority value 0.			
Priority1	PrimitiveTypes::Integer Default value: 1	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute defines the new priority value for the old priority value 1.			
Priority2	PrimitiveTypes::Integer Default value: 2	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute defines the new priority value for the old priority value 2.			
Priority3	PrimitiveTypes::Integer Default value: 3	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute defines the new priority value for the old priority value 3.			
Priority4	PrimitiveTypes::Integer Default value: 4	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute defines the new priority value for the old priority value 4.			

Attribute Name	Type	Mult.	Access	Stereotypes
Priority5	PrimitiveTypes::Integer Default value: 5	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute defines the new priority value for the old priority value 5.
Priority6	PrimitiveTypes::Integer Default value: 6	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute defines the new priority value for the old priority value 6.
Priority7	PrimitiveTypes::Integer Default value: 7	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute defines the new priority value for the old priority value 7.

Table 144 – Attributes for data type *PriorityMapping*

1.6.12 QueueConfiguration

Attribute Name	Type	Mult.	Access	Stereotypes
queueId	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				This attribute indicates the queue id.
queueDepth	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute defines the depth of the queue in bytes.			
queueThreshold	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute defines the threshold of the queue in bytes.			

Table 145 – Attributes for data type *QueueConfiguration*

1.6.13 SamplesDmPerformanceParameters

Description:

- This data type contains the results of an on-demand delay measurement job.

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the number of received DM frames (successful samples) used for this frame delay measurement.			
numberOfSamples	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the frame delays measured in ns (nano second, 1x10e-9 seconds). The multiplicity is defined by the numberOfSamples attribute.			
frameDelayList	PrimitiveTypes::Integer	0..*	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the frame delay variations measured in ns (nano second). The multiplicity is defined by (numberOfSamples - 1, for numberOfSamples > 0).			
frameDelayVariationList	PrimitiveTypes::Integer	0..*	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the frame delay variations measured in ns (nano second). The multiplicity is defined by (numberOfSamples - 1, for numberOfSamples > 0).			

Table 146 – Attributes for data type *SamplesDmPerformanceParameters***1.6.14 SchedulingConfiguration****Description:**

- The syntax of this dataType is pending on the specification in G.8021, which is for further study.

1.6.15 StatisticalDmPerformanceParameters**Description:**

- This data type contains the statistical delay measurement performance parameters.

Attribute Name	Type	Mult.	Access	Stereotypes
minimumFrameDelay	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the minimum frame delay observed over the monitored period. It is measured in units of ns (nano second, 1x10e-9 seconds).				
averageFrameDelay	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the average frame delay observed over the monitored period. It is measured in units of ns (nano second, 1x10e-9 seconds).				
maximumFrameDelay	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
This attribute contains the maximum frame delay observed over the monitored period. It is measured in units of ns (nano second, 1x10e-9 seconds).				
minimumFrameDelayVariation	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the minimum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). Y.1563: The 2-point frame delay variation (vk) for an Ethernet frame k between SRC and DST is the difference between the absolute Ethernet frame transfer delay (xk) of frame k and a defined reference Ethernet frame transfer delay, d1,2, between those same MPs: $vk = xk - d1,2$.			
averageFrameDelayVariation	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the average frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). Y.1563: The 2-point frame delay variation (vk) for an Ethernet frame k between SRC and DST is the difference between the absolute Ethernet frame transfer delay (xk) of frame k and a defined reference Ethernet frame transfer delay, d1,2, between those same MPs: $vk = xk - d1,2$.			
maximumFrameDelayVariation	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the maximum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). Y.1563: The 2-point frame delay variation (vk) for an Ethernet frame k between SRC and DST is the difference between the absolute Ethernet frame transfer delay (xk) of frame k and a defined reference Ethernet frame transfer delay, d1,2, between those same MPs: $vk = xk - d1,2$.			
minimumInterFrameDelayVariation	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: This attribute contains the minimum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). G.8013/Y.1731: Frame delay variation is a measure of the variations in the frame delay between a pair of service frames			
averageInterFrameDelayVariation	PrimitiveTypes::Integer	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey:No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the average frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). G.8013/Y.1731: Frame delay variation is a measure of the variations in the frame delay between a pair of service frames			
maximumInterFrameDelayVariation	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the maximum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). G.8013/Y.1731: Frame delay variation is a measure of the variations in the frame delay between a pair of service frames			

Table 147 – Attributes for data type *StatisticalDmPerformanceParameters***1.6.16 StatisticalLmPerformanceParameters****Description:**

- This data type contains the statistical loss measurement performance parameters.

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the minimum frame loss ratio calculated over a period of time.			
minimumFrameLossRatio	PrimitiveTypes::Real	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the average frame loss ratio calculated over a period of time.			
averageFrameLossRatio	PrimitiveTypes::Real	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the maximum frame loss ratio calculated over a period of time.			
maximumFrameLossRatio	PrimitiveTypes::Real	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the maximum frame loss ratio calculated over a period of time.			
hliCount	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: A generalized SES. MEF 10.3: The Resiliency attributes are similar to the definitions of Severely Errored Seconds (SES) and Consecutive SES in section 9 and Annex B (respectively) of Y.1563 [6], when delta-t = 1 second. MEF 35.1: Count of High Loss Intervals during the Measurement Interval.			
unavailableIntervals	PrimitiveTypes::Integer Default value: 0	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: A generalized UAS. MEF 35.1: A 32-bit counter reflecting the number of delta-t intervals evaluated as Unavailable (i.e., for which A<Controller, Responder>(delta-t) = 0).			

Table 148 – Attributes for data type *StatisticalLmPerformanceParameters*

1.6.17 TotalCountersLmPerformanceParameters

Description:

- This data type contains the results of an on-demand loss measurement job.

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the total number of frames transmitted.			
totalTransmittedFrames	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the total number of frames transmitted.			
totalLostFrames	PrimitiveTypes::Integer	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: This attribute contains the total number of frames lost.			
totalFrameLossRatio	PrimitiveTypes::Real	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute contains the frame loss ratio (number of lost frames divided by the number of total frames (N_LF / N_TF)). The accuracy of the value is for further study.			

Table 149 – Attributes for data type *TotalCountersLmPerformanceParameters***1.6.18 TrafficConditioningConfiguration**

Attribute Name	Type	Mult.	Access	Stereotypes
cir	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute indicates the Committed Information Rate in bits/s.			
cbs	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute indicates the Committed Burst Size in bytes.			
eir	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: This attribute indicates the Excess Information Rate in bits/s.			

Attribute Name	Type	Mult.	Access	Stereotypes
ebs	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: This attribute indicates the Excess Burst Size in bytes.				
couplingFlag	PrimitiveTypes::Boolean Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: This attribute indicates the coupling flag.				
colourMode	ColourMode Default value: NA	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: This attribute indicates the colour mode.				
queueId	PrimitiveTypes::Integer Default value: NA	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: This attribute indicates the queue id.				

Table 150 – Attributes for data type *TrafficConditioningConfiguration*

1.7 Enumerations

1.7.1 A_ChildEnum

Contains Enumeration Literals:

- CHILD_1
- CHILD_2
- (Inherited from *A_ParentEnum*) PARENT_1
- (Inherited from *A_ParentEnum*) PARENT_2
- (Inherited from *A_GrandParentEnum*) GRAND_PARENT_1
- (Inherited from *A_GrandParentEnum*) GRAND_PARENT_2

1.7.2 A_GrandParentEnum

Contains Enumeration Literals:

- GRAND_PARENT_1
- GRAND_PARENT_2

1.7.3 A_ParentEnum

Contains Enumeration Literals:

- PARENT_1
- PARENT_2
- (Inherited from *A_GrandParentEnum*) GRAND_PARENT_1
- (Inherited from *A_GrandParentEnum*) GRAND_PARENT_2

1.7.4 AdminState

Contains Enumeration Literals:

- LOCK
- NORMAL

1.7.5 AssociationIdPermissionTypes

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: Indicates what, if anything, is to be included in the Sender ID TLV transmitted in CCMs, LBMs, LTMs, and LTRs.

Contains Enumeration Literals:

- SEND_ID_DEFER
 - IEEE P802.1Qcx/D0.3: MEF 38: The content of the Sender ID TLV are determined by the corresponding Maintenance Domain variable.
- (Inherited from *MaintenanceDomainIdPermissionTypes*) SEND_ID_CHASSIS
- (Inherited from *MaintenanceDomainIdPermissionTypes*) SEND_ID_MANAGE
- (Inherited from *MaintenanceDomainIdPermissionTypes*) SEND_ID_NONE
- (Inherited from *MaintenanceDomainIdPermissionTypes*) SEND_ID_CHASSIS_MANAGE

1.7.6 B_ChildEnum

Contains Enumeration Literals:

- B_CHILD_1
- B_CHILD_2
- (Inherited from *B_ParentEnum*) B_PARENT_1
- (Inherited from *B_ParentEnum*) B_PARENT_2
- (Inherited from *B_GrandParentEnum*) B_GRAND_PARENT_1
- (Inherited from *B_GrandParentEnum*) B_GRAND_PARENT_2

1.7.7 B_GrandParentEnum

Contains Enumeration Literals:

- B_GRAND_PARENT_1
- B_GRAND_PARENT_2

1.7.8 B_ParentEnum

Contains Enumeration Literals:

- B_PARENT_1
- B_PARENT_2
- (Inherited from *B_GrandParentEnum*) B_GRAND_PARENT_1
- (Inherited from *B_GrandParentEnum*) B_GRAND_PARENT_2

1.7.9 BandwidthProfileType

Contains Enumeration Literals:

- MEF_10.x
- RFC_2697
- RFC_2698
- RFC_4115

1.7.10 ColourMode

Contains Enumeration Literals:

- COLOUR_BLIND
- COLOUR_AWARE

1.7.11 CsfConfig

Contains Enumeration Literals:

- DISABLED
 - This literal covers the following states of the CSF related MI informations: - MI_CSF_Enable is false - MI_CSFrdifdi_Enable is false - MI_CSFdci_Enable is false.
- ENABLED
 - This literal covers the following states of the CSF related MI informations: - MI_CSF_Enable is true - MI_CSFrdifdi_Enable is false - MI_CSFdci_Enable is false.
- ENABLED_WITH_RDI_FDI
 - This literal covers the following states of the CSF related MI informations: - MI_CSF_Enable is true - MI_CSFrdifdi_Enable is true - MI_CSFdci_Enable is false.
- ENABLED_WITH_RDI_FDI_DCI
 - This literal covers the following states of the CSF related MI informations: - MI_CSF_Enable is true - MI_CSFrdifdi_Enable is true - MI_CSFdci_Enable is true.
- ENABLED_WITH_DCI
 - This literal covers the following states of the CSF related MI informations: - MI_CSF_Enable is true - MI_CSFrdifdi_Enable is false - MI_CSFdci_Enable is true.

1.7.12 EthAlarmConditionName

Contains Enumeration Literals:

- LOSS_OF_CONTINUITY
 - G.8021: The loss of continuity defect is calculated at the ETH layer. It monitors the presence of continuity in ETH trails.
- UNEXPECTED_MEL
 - G.8021: Reception of a CCM frame with an invalid MEL value. Monitoring of the connectivity in a maintenance entity group.
- UNEXPECTED_MEPE
 - G.8021: Reception of a CCM frame with an invalid MEP value, but with valid MEL and MEG values. Monitoring of the connectivity in a maintenance entity group.
- MISMERGE_UNEXPECTED_MEG
 - G.8021: Reception of a CCM frame with an invalid MEG value, but with a valid MEL value. Monitoring of the connectivity in a maintenance entity group.
- UNEXPECTED_PERIODICITY
 - G.8021: Reception of a CCM frame with an invalid periodicity value, but with valid MEL, MEG and MEP values. It detects the configuration of different periodicities at different MEPs belonging to the same MEG.
- UNEXPECTED_PRIORITY
 - G.8021: Reception of a CCM frame with an invalid priority value, but with valid MEL, MEG, MEP and periodicity values. It detects the configuration of different priorities for CCM at different MEPs belonging to the same MEG.
- LOCKED
 - G.8021: Reception of a LCK frame.
- AIS
 - G.8021: Reception of an AIS frame.
- DEGRADED
 - G.8021: The defect is detected if there are MI_LM_DEGM (lmDegm of EthMepSink) consecutive bad seconds and cleared if there are MI_LM_M (lmM of EthMepSink) consecutive good seconds. In order to declare a bad second the number of transmitted frames must exceed a threshold (MI_LM_TFMIN, lmTfMin of EthMepSink). Furthermore, if the frame loss ratio (lost frames/transmitted frames) is greater than MI_LM_DEGTHR (lmDegThr of EthMepSink), a bad second is declared. This defect is only defined for point-to-point ETH connections. It monitors the connectivity of an ETH trail.
- RDI
 - G.8021: Remote defect indicator defect, reception by an MEP (indexed by "i", this index not included in the "cause" cRDI) of a CCM frame with valid MEL, MEG, MEP and periodicity values and the RDI flag set to x; where x=0 (remote defect clear) and x=1 (remote defect set).
- CSF
 - G.8021 - ETH layer: Reception of a CSF frame that indicates a client loss of signal (dCSF-LOS) or a client forward defect indication (dCSF-FDI) or a client reverse defect indication (dCSF-RDI). The CSF (CSF-LOS, CSF-FDI, and CSF-RDI) defect is calculated at the ETH layer. It monitors the presence of a CSF maintenance signal. G.8021 - GFP: dCSF is Client-specific GFP-F and GFP-T (resp. Frame and Transparent) sink processes. dCSF-RDI: GFP client signal fail-remote defect indication is raised when a GFP client management frame with the RDI UPI (as defined in Table 6-4 of [ITU-T G.7041]) is received. dCSF-RDI is cleared when no such GFP client management frame is received in N x 1000 ms (a value of 3 is suggested for N), a valid GFP client data frame is received, or a GFP client management frame with the DCI UPI is received. dCSF-FDI: GFP client signal fail-forward defect

indication is raised when a GFP client management frame with the FDI UPI (as defined in Table 6-4 of [ITU-T G.7041]) is received. dCSF-FDI is cleared when no such GFP client management frame is received in N x 1000 ms (a value of 3 is suggested for N), a valid GFP client data frame is received, or a GFP client management frame with the DCI UPI is received. dCSF-LOS: GFP client signal fail-loss of signal is raised when a GFP client management frame with the LOS UPI (as defined in Table 6-4 of [ITU-T G.7041]) is received. dCSF-LOS is cleared when no such GFP client management frame is received in N x 1000 ms (a value of 3 is suggested for N), a valid GFP client data frame is received, or a GFP client management frame with the DCI UPI is received.

- TOTAL_LINK_LOSS
 - G.8021: LAG - fault cause will be raised if no ports are active for an aggregator.
- PARTIAL_LINK_LOSS
 - G.8021: LAG - fault cause shall be raised if the number of active ports is less than the provisioned threshold.
- PLM
 - G.806: The payload label mismatch defect (dPLM) shall be detected if the "accepted TSL" code does not match the "expected TSL" code. If the "accepted TSL" is "equipped non-specific", the mismatch is not detected (TSL: Trail Signal Label). Payload type supervision checks that compatible adaptation functions are used at the source and the sink. This is normally done by adding a signal type identifier at the source adaptation function and comparing it with the expected identifier at the sink. If they do not match, a payload mismatch is detected.
- LFD
 - G.806 - Server layer-specific GFP sink processes: GFP loss of frame delineation (dLFD) is raised when the frame delineation process (clause 6.3.1 of [ITU-T G.7041]) is not in the "SYNC" state. dLFD is cleared when the frame delineation process is in the "SYNC" state.
- EXM
 - G.806 - Common GFP sink processes: GFP extension header mismatch (dEXM) is raised when the accepted EXI (AcEXI) is different from the expected EXI. dEXM is cleared when AcEXI matches the expected EXI or GFP_SF is active.
- UPM
 - G.806 - Client-specific GFP-F (Frame) and GFP-T (Transparent) sink processes: GFP user payload mismatch (dUPM) is raised when the accepted UPI (AcUPI) is different from the expected UPI. dUPM is cleared when AcUPI matches the expected UPI or GFP_SF is active.

1.7.13 EthOamJobType

Contains Enumeration Literals:

- ETH_1DM
- ETH_1SLM
- ETH_LM_CCM
- ETH_LM_LMM
- ETH_SLM
- ETH_DM
- ETH_LTC
- ETH_LBK
- ETH_TEST

1.7.14 EthPmParameterName

Contains Enumeration Literals:

- MINIMUM_FRAME_DELAY
- MAXIMUM_FRAME_DELAY
- AVERAGE_FRAME_DELAY
- MINIMUM_FRAME_DELAY_VARIATION
 - This attribute contains the minimum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). Y.1563: The 2-point frame delay variation (vk) for an Ethernet frame k between SRC and DST is the difference between the absolute Ethernet frame transfer delay (xk) of frame k and a defined reference Ethernet frame transfer delay, d1,2, between those same MPs: $vk = xk - d1,2$.
- MAXIMUM_FRAME_DELAY_VARIATION
 - This attribute contains the maximum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). Y.1563: The 2-point frame delay variation (vk) for an Ethernet frame k between SRC and DST is the difference between the absolute Ethernet frame transfer delay (xk) of frame k and a defined reference Ethernet frame transfer delay, d1,2, between those same MPs: $vk = xk - d1,2$.
- AVERAGE_FRAME_DELAY_VARIATION
 - This attribute contains the average frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). Y.1563: The 2-point frame delay variation (vk) for an Ethernet frame k between SRC and DST is the difference between the absolute Ethernet frame transfer delay (xk) of frame k and a defined reference Ethernet frame transfer delay, d1,2, between those same MPs: $vk = xk - d1,2$.
- MINIMUM_INTER_FRAME_DELAY_VARIATION
 - This attribute contains the minimum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). G.8013/Y.1731: Frame delay variation is a measure of the variations in the frame delay between a pair of service frames
- MAXIMUM_INTER_FRAME_DELAY_VARIATION
 - This attribute contains the maximum frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). G.8013/Y.1731: Frame delay variation is a measure of the variations in the frame delay between a pair of service frames
- AVERAGE_INTER_FRAME_DELAY_VARIATION
 - This attribute contains the average frame delay variation measured in units of ns (nano second, 1x10e-9 seconds). G.8013/Y.1731: Frame delay variation is a measure of the variations in the frame delay between a pair of service frames
- MINIMUM_FRAME_LOSS_RATIO
- MAXIMUM_FRAME_LOSS_RATIO
- AVERAGE_FRAME_LOSS_RATIO
- HIGH_LOSS_INTERVALS
- UNAVAILABLE_INTERVALS

1.7.15 EtyPhyType

Contains Enumeration Literals:

- OTHER
- UNKNOWN
- NONE
- 2BASE_TL

- 10MBIT/S
- 10PASS_TS
- 100BASE_T4
- 100BASE_X
- 100BASE_T2
- 1000BASE_X
- 1000BASE_T
- 10GBASE_X
- 10GBASE_R
- 10GBASE_W

1.7.16 FrameType

Contains Enumeration Literals:

- ADMIT_ONLY_VLAN_TAGGED_FRAMES
- ADMIT_ONLY_UNTAGGED_AND_PRIORITY_TAGGED_FRAMES
- ADMIT_ALL_FRAMES

1.7.17 LTMflags

Description:

- IEEE 802.1Q 2018: In the LTM, the Flags field of the Common CFM Header specifies certain options.

Contains Enumeration Literals:

- USE_FDB_ONLY
 - IEEE 802.1Q 2018: If set, indicates that only MAC addresses learned in a Bridge's FDB, and not information saved in the MIP CCM Database, is to be used to determine the Egress Port. Bit 8 (MSB).

1.7.18 LinkTraceEgressActionFieldValue

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: Possible values returned in the Egress Action field.

Contains Enumeration Literals:

- EGRESS_NO_TLV
 - Indicates that no Reply Egress TLV was returned in the LTM.
- EGRESS_OK
 - The targeted data frame would be forwarded.
- EGRESS_DOWN
 - The Egress Port can be identified, but that Bridge Port MAC_Operational parameter is false.
- EGRESS_BLOCKED
 - The Egress Port can be identified, but the data frame would not pass through the Egress Port due to active topology management (i.e., the Bridge Port is not in the Forwarding state).
- EGRESS_VID
 - The Egress Port can be identified, but the Bridge Port is not in the LTMs VIDs member set, so would be filtered by egress filtering.

1.7.19 LinkTraceIngressActionFieldValue

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: Possible values returned in the ingress action field.

Contains Enumeration Literals:

- INGRESS_NO_TLV
 - Indicates that no Reply Ingress TLV was returned in the LTM.
- INGRESS_OK
 - The target data frame would be passed through to the MAC Relay Entity.
- INGRESS_DOWN
 - The Bridge Ports MAC_Operational parameter is false.
- INGRESS_BLOCKED
 - The target data frame would not be forwarded if received on this Port due to active topology enforcement.
- INGRESS_VID
 - The ingress port is not in the member set of the LTMs VID, and ingress filtering is enabled, so the target data frame would be filtered by ingress filtering.

1.7.20 LinkTraceRelayActionFieldValue

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: Possible values the Relay action field can take.

Contains Enumeration Literals:

- RELAY_HIT
 - The LTM reached a Maintenance Point whose MAC address matches the target address.
- RELAY_FDB
 - The Egress Port was determined by consulting the Filtering Database.
- RELAY_MPDB
 - The Egress Port was determined by consulting the MIP CCM Database.

1.7.21 MaintenanceDomainIdPermissionTypes

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: Indicates what, if anything, is to be included in the Sender ID TLV transmitted in CCMs, LBMs, LTMs, and LTRs.

Contains Enumeration Literals:

- SEND_ID_NONE
 - The Sender ID TLV is not to be sent.
- SEND_ID_CHASSIS
 - The Chassis ID Length, Chassis ID Subtype, and Chassis ID fields of te Sender ID TLV are to be sent.
- SEND_ID_MANAGE
 - The Management Address Length and Management Address of the Sender ID TLV are to be sent.

- SEND_ID_CHASSIS_MANAGE
 - The Chassis ID Length, Chassis ID Subtype, Chassis ID, Management Address Length and Management Address fields are all to be sent.

1.7.22 MaintenanceDomainNameType

Description:

- IEEE P802.1Qcx/D0.3: MEF 38: The Maintenance Domain format choice.

Contains Enumeration Literals:

- NONE
 - IEEE P802.1Qcx/D0.3: No format specified, usually because there is not a Maintenance Domain Name. In this case, a zero length OCTET string for the Domain name field is acceptable. MEF 38: No format specified.
- DOMAIN_NAME
 - IEEE P802.1Qcx/D0.3: MEF 38: Domain Name like string, globally unique text string derived from a DNS name.
- MAC_ADDR_AND_UINT
 - IEEE P802.1Qcx/D0.3: MEF 38: MAC address + 2-octet (unsigned) integer.
- STRING
 - IEEE P802.1Qcx/D0.3: MEF 38: RFC2579 DisplayString, except that the character codes 0-31 (decimal) are not used.

1.7.23 MessagePeriod

Description:

- This enumeration defines the allowed values for the message period in on-demand measurements.
Notes: The value 10ms is only used in synthetic loss measurements. The value 0 means that the value is not relevant.

Contains Enumeration Literals:

- 10MS
- 100MS
- 1S
- 10S
- 0

1.7.24 OamPduGenerationType

Description:

- This enumeration defines the generation pattern of the on-demand OAM PDUs (messages).

Contains Enumeration Literals:

- SINGLE_INSTANCE
- REPETITIVE_INSTANCE
- SINGLE_SERIES
- REPETITIVE_SERIES

1.7.25 OamPeriod

Description:

- Provides the frequency for the OAM PDU insertion.

Contains Enumeration Literals:

- 3,33MS
 - Default for protection.
- 10MS
- 100MS
- 1S
- 10S
- 1MIN
- 10MIN

1.7.26 PcpCoding

Description:

- This enum models the coding of the Priority Code Point as defined in section "Priority Code Point encoding" of IEEE 802.1Q.

Contains Enumeration Literals:

- 8P0D
- 7P1D
- 6P2D
- 5P3D
- DEI
 - This enumeration value means that all priorities should be drop eligible. DEI = Drop Eligibility Indicator

1.7.27 RepetitionPeriod

Description:

- This enumeration defines the allowed values for the repetition period in on-demand measurements.
Note: The value 0 means that the value is not relevant.

Contains Enumeration Literals:

- 1MIN
- 1S
- 10S
- 0

1.7.28 TestPattern

Description:

- The following values of pattern types are defined: "Null signal without CRC-32" "Null signal with CRC-32" "PRBS 2^31-1 without CRC-32" "PRBS 2^31-1 with CRC-32".

Contains Enumeration Literals:

- NULL_SIGNAL_WITHOUT_CRC_32
- NULL_SIGNAL_WITH_CRC_32
- PRBS_2³¹_1_WITHOUT_CRC_32
- PRBS_2³¹_1_WITH_CRC_32

1.7.29 VlanType

Description:

- This enumeration contains the Ethertypes defined in IEEE 802.1Q.

Contains Enumeration Literals:

- C_Tag
 - 0x8100
- S_Tag
 - 0x88a8
- I_Tag
 - 88-e7

1.8 Primitives

1.8.1 MacAddress

Description:

- This primitive data type contains an Ethernet MAC address defined by IEEE 802a. The format of the address consists of 12 hexadecimal characters, grouped in pairs and separated by "-" (e.g., 03-27-AC-75-3E-1D).

1.8.2 Vid

Description:

- This primitive type models the 12 Bit VLAN identifier of a VLAN tag.