



TAPI UML Model

Version 2.5.0

ONF Document Type: Technical Recommendation

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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 OAM Model

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

1.1 Diagrams

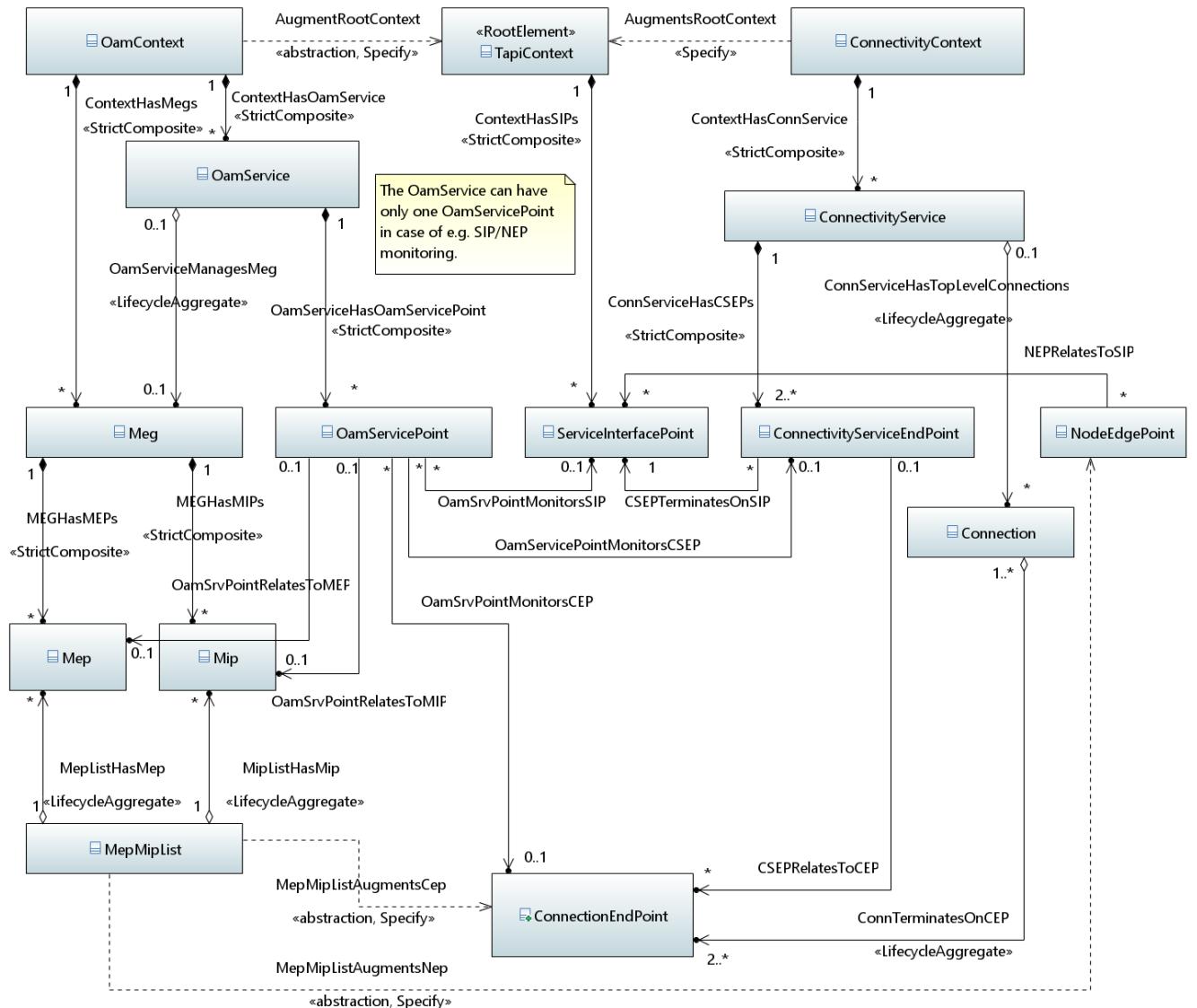
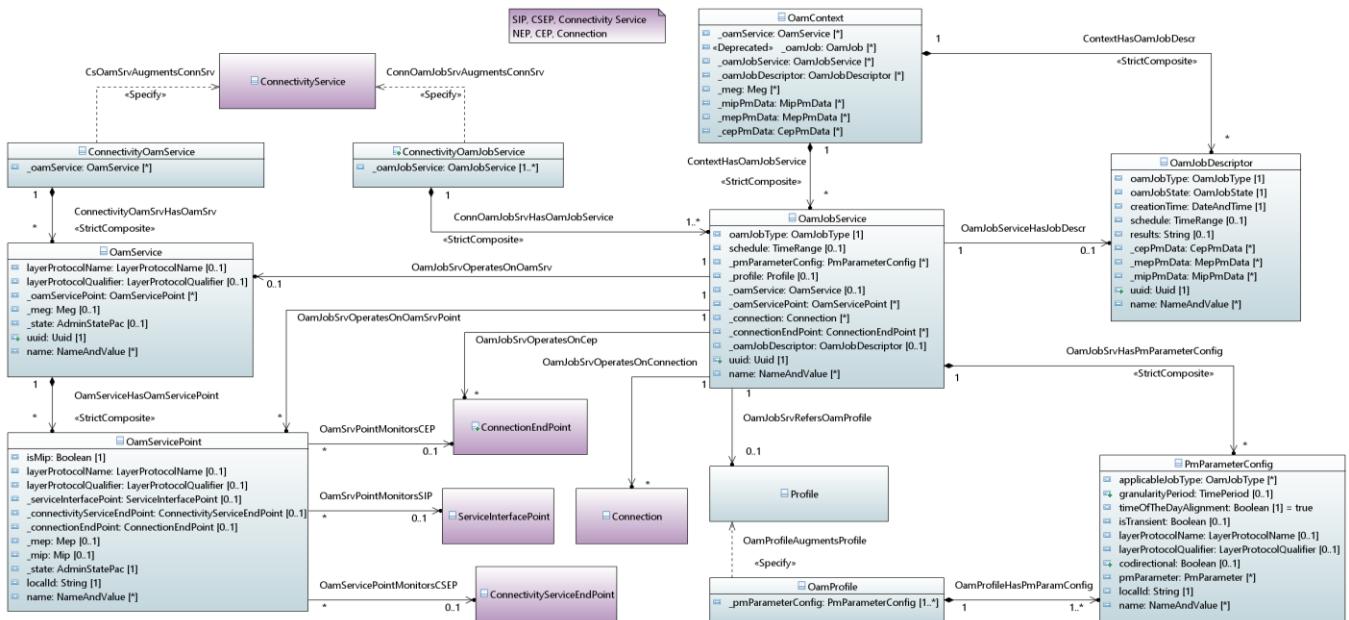
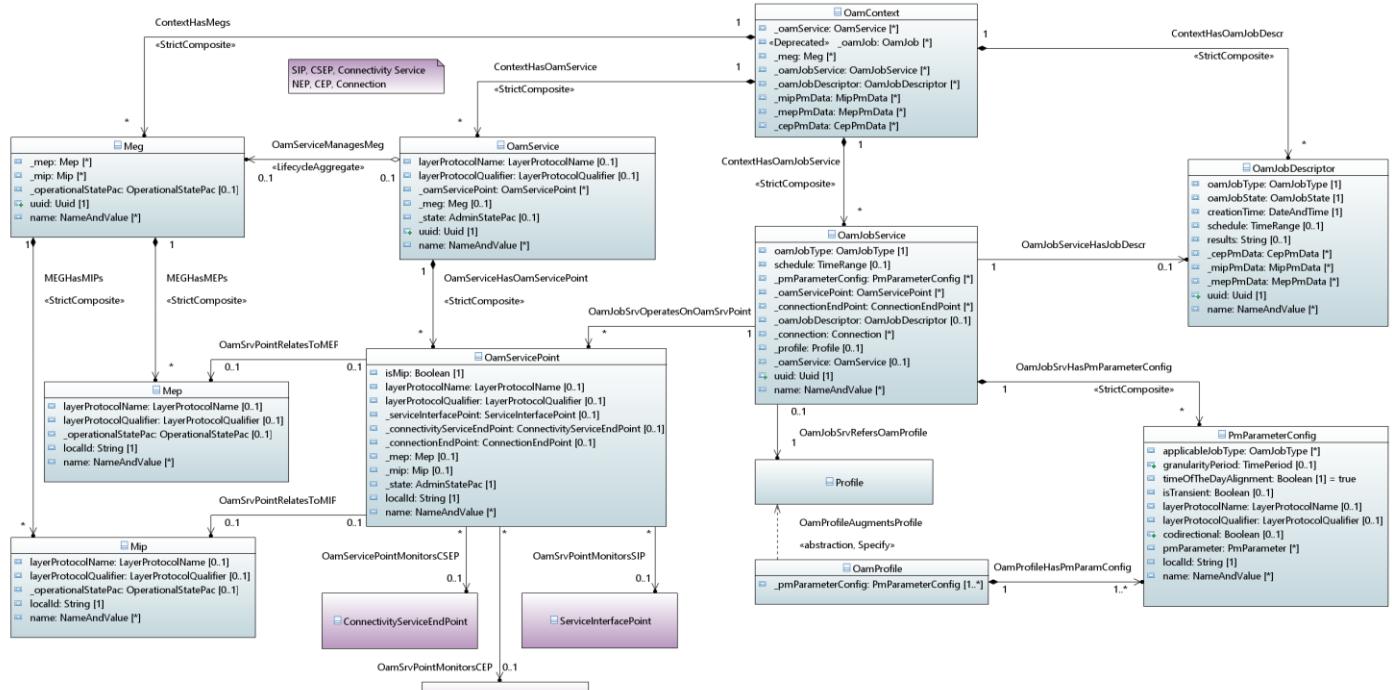


Figure 1 – Diagram *OamConnSkeleton_Deprecated*

Figure 2 – Diagram *OamDetailsEmbeddedMode*

From MEF W132: In the case of Stateless TCA reporting a Damping Factor is used to suppress new TCAs. The Damping Factor value defines a number of consecutive PM Metric Value definitions where the PM Metric Value is equal to or greater than the TCA Performance Threshold Value and the new TCAs are suppressed for that number of PM Metric Calculation Intervals. PM Metric Calculation Interval = TAPI granularityPeriod

Consider to add the "sampling rate" (MEF 133 Granularity)

Allow default/delegation to Server, e.g. config only
- oamJobType
- granularityPeriod
- isTransient

The NEP can reference by name (Oam)Profile instances, to describe OAM capabilities.
E.g. the TotalPower parameters of Otsi NEP/SIP.

Data Type
ThresholdConfig
thresholdLocation: ThresholdCrossingQualifier [1]
thresholdType: ThresholdType [1]
pmParameterValue: PmParameterValue [1]
clearThreshold: Boolean [1]
thrsAdditionalQualifier: ThrsAddQualif [0..1]

Data Type
PmParameter
pmParameterName: Pm [1]
thresholdConfig: ThresholdConfig [1]

Figure 3 – Diagram *OamDetailsIndependentMode*

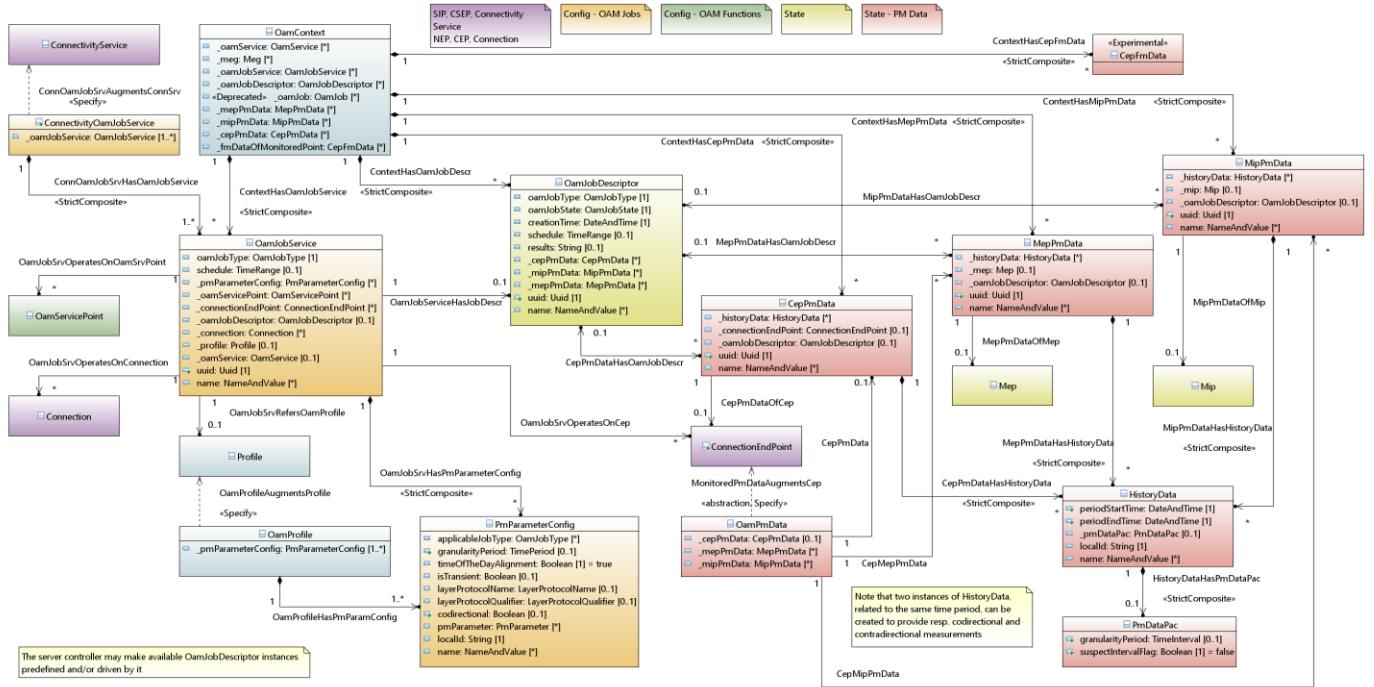
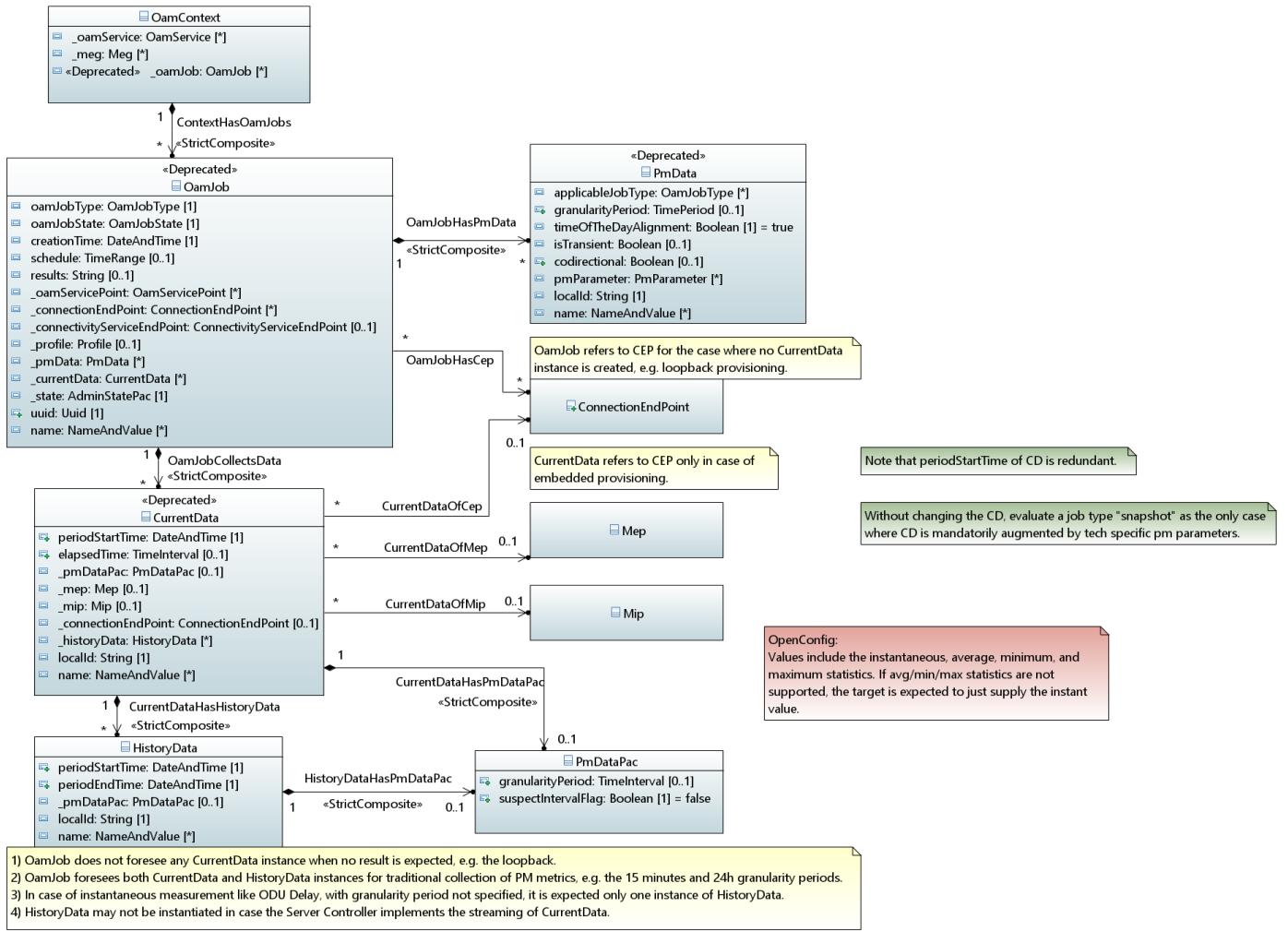
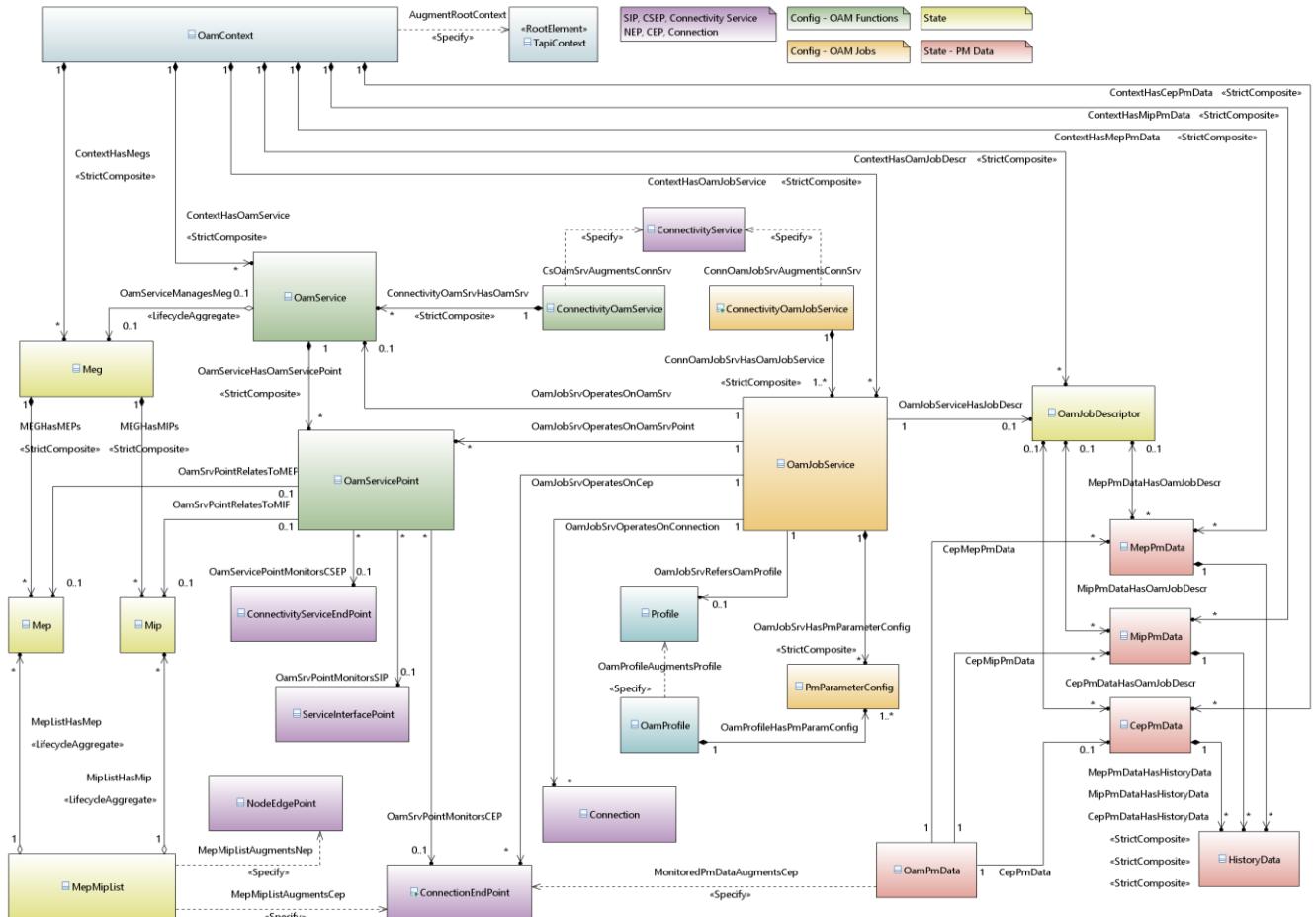
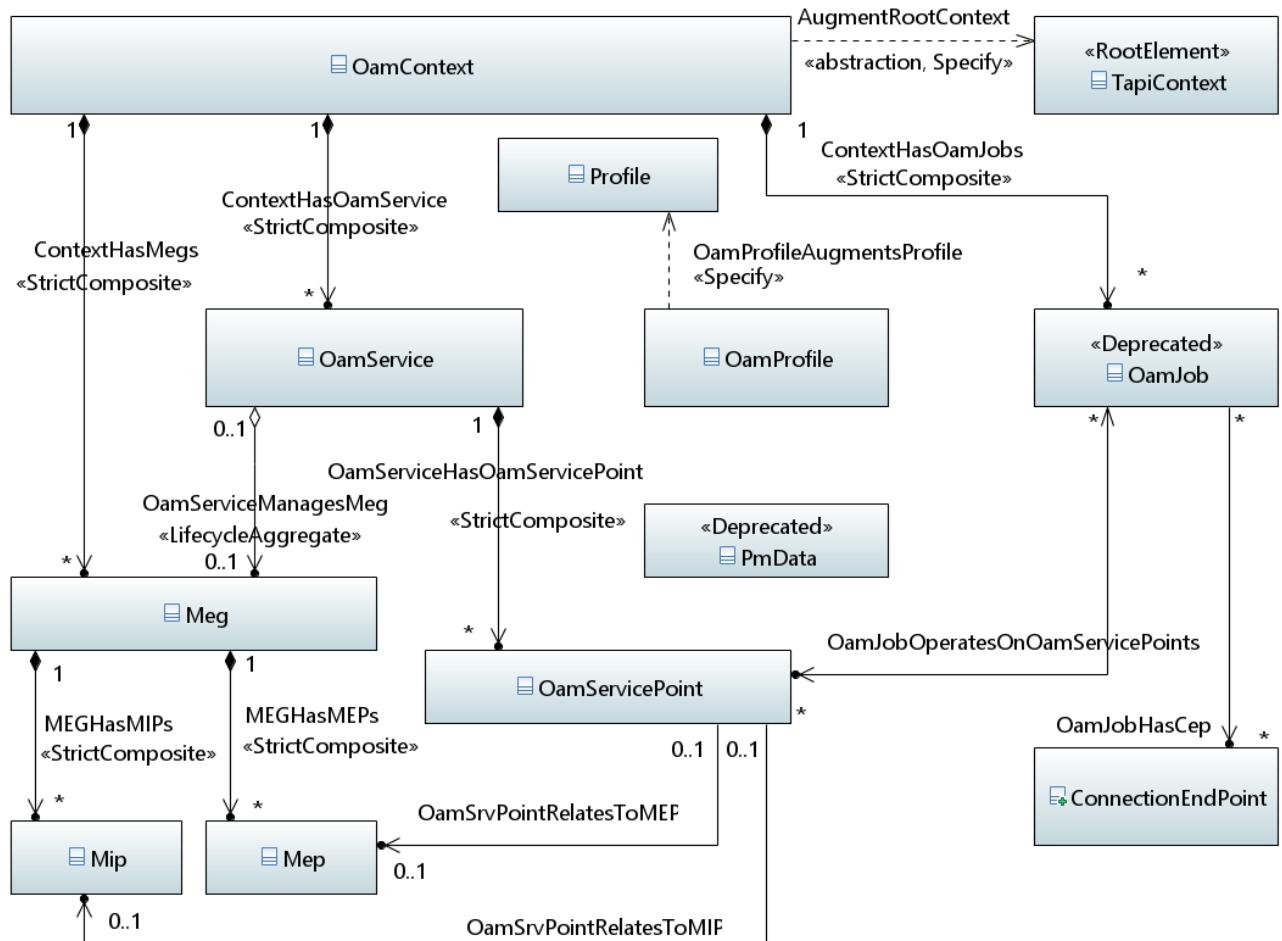
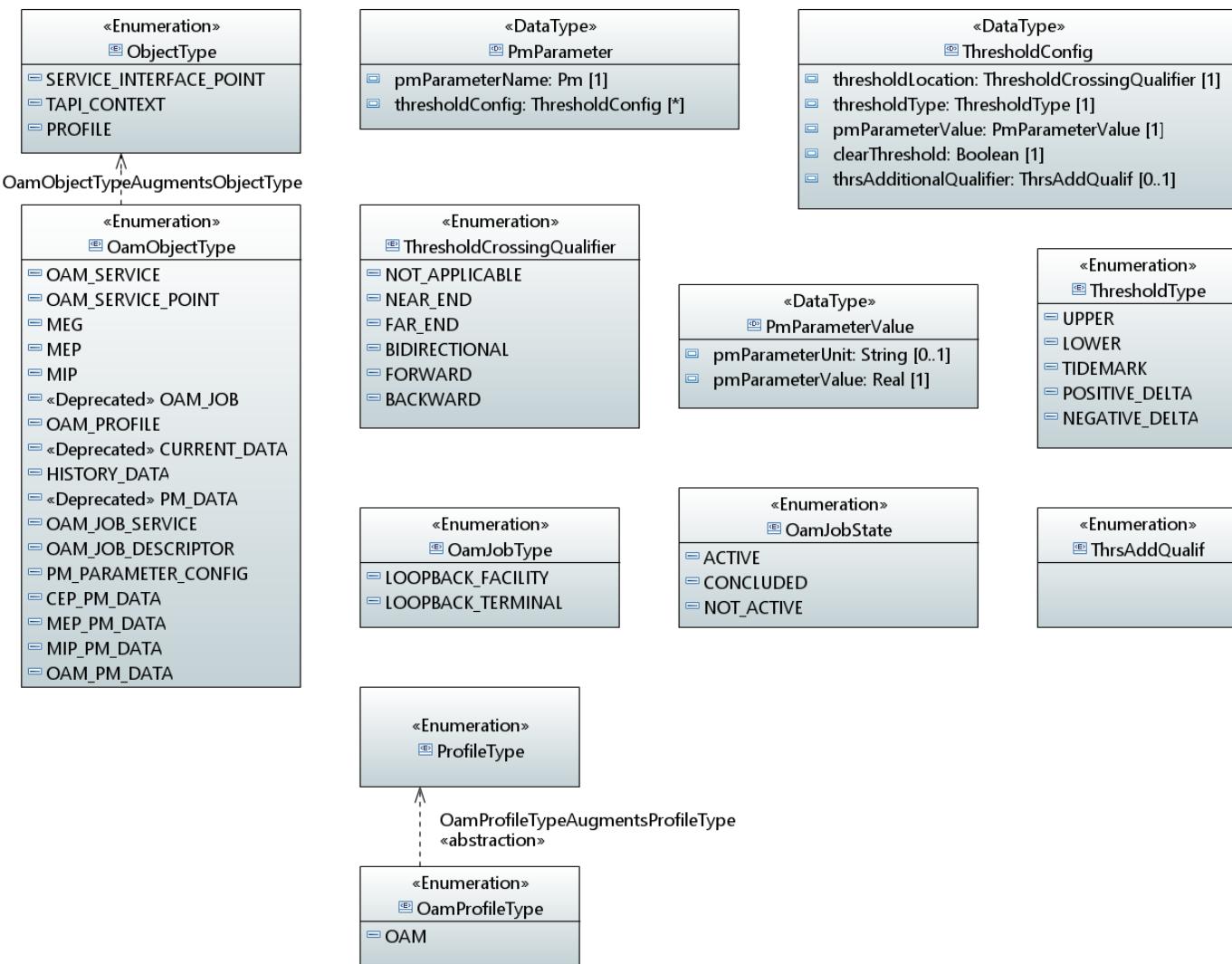


Figure 4 – Diagram *OamJobDetails*

Figure 5 – Diagram *OamJobDetails_Deprecated*Figure 6 – Diagram *OamNotifAndStream*

Figure 7 – Diagram *OamSkeleton*

Figure 8 – Diagram *OamSkeleton_Deprecated*

Figure 9 – Diagram *OamTypes*

1.2 Classes

1.2.1 CepFmData

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 1 – Attributes for class *CepFmData*

1.2.2 CepPmData

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_connectionEndPoint Navigable association end of: <i>CepPmDataOfCep</i>	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..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:			

Attribute Name	Type	Mult.	Access	Stereotypes
_historyData <i>Navigable association end of: CepPmDataHasHistoryData</i>	HistoryData	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_oamJobDescriptor <i>Navigable association end of: CepPmDataHasOamJobDescr</i>	OamJobDescriptor	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4} + [0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 2 – Attributes for class *CepPmData*

1.2.3 ConnectivityOamJobService

Description:

- This class augments the ConnectivityService class to associate OAM job provisioning to ConnectivityService provisioning.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_oamJobService <i>Navigable association end of: ConnOamJobSrvHasOamJobService</i>	OamJobService	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 3 – Attributes for class *ConnectivityOamJobService*

1.2.4 ConnectivityOamService

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_oamService <i>Navigable association end of: ConnectivityOamSrvHasOamSrv</i>	OamService	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:				

Table 4 – Attributes for class *ConnectivityOamService*

1.2.5 CurrentData

Description:

- The CurrentData class. The PM metrics/types can be specified in technology specific augmentations of this class. ITU-T Q.822: This object contains the measurements for the resource being monitored for a specified time interval (measurement interval time / granularity period).

Applied stereotypes:

- OpenInterfaceModelClass
 - objectCreationNotification: NA

- objectDeletionNotification: NA
- Deprecated
- OpenModelClass
 - support: MANDATORY

Attribute Name	Type	Mult.	Access	Stereotypes
periodStartTime	TapiCommon::TypeDefinitions::DateAndTime	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 indicates the start time of the current monitoring interval / granularity period. The value is bound to the quarter of an hour in case of a 15 minute interval and bound to the hour in case of a 24 hour interval.				
elapsedTime	TapiCommon::TypeDefinitions::TimeInterval	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> ● isKey: No ● isInvariant: false ● valueRange: no range constraint ● support: MANDATORY ● OpenInterfaceModelAttribute ● AVC: NA
Description:				
Q822: This attribute represents the difference between the current time and the start of the present interval.				
_pmDataPac <i>Navigable association end of: CurrentDataHasPmDataPac</i>	PmDataPac	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> ● isKey: No ● isInvariant: false ● valueRange: no range constraint ● support: MANDATORY ● OpenInterfaceModelAttribute ● AVC: NA
Description:				
Parameters specific to Performance Monitoring functions.				
_mep <i>Navigable association end of: CurrentDataOfMep</i>	Mep	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> ● isKey: No ● isInvariant: false ● valueRange: no range constraint ● support: MANDATORY ● OpenInterfaceModelAttribute ● AVC: NA
Description:				
The MEP to which the measurements refer to. At least and exclusively one of CurrentDataOfCep, CurrentDataOfMep, CurrentDataOfMip must be referred by the CurrentData instance.				

Attribute Name	Type	Mult.	Access	Stereotypes
_mip <i>Navigable association end of: CurrentDataOfMip</i>	Mip	0..1	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: The MIP to which the measurements refer to. At least and exclusively one of CurrentDataOfCep, CurrentDataOfMep, CurrentDataOfMip must be referred by the CurrentData instance.			
_connectionEndPoint <i>Navigable association end of: CurrentDataOfCep</i>	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..1	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: The CEP to which the measurements refer to. At least and exclusively one of CurrentDataOfCep, CurrentDataOfMep, CurrentDataOfMip must be referred by the CurrentData instance.			
_historyData <i>Navigable association end of: CurrentDataHasHistoryData</i>	HistoryData	0..*	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: The associated HistoryData instances. In case of 24hr CurrentData, at least 1 HistoryData instance shall be maintained. In case of 15min CurrentData, at least 16 HistoryData instances shall be maintained. In case of <15min, the number of HistoryData instances shall be able to cover a span of 4 hours.			
localId <i>Inherited: TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: yes – part: 1• isInvariant: true• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: An identifier that is unique in the context of the GlobalClass from which it is inseparable.			
name <i>Inherited: TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	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: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.				

Table 5 – Attributes for class *CurrentData*

1.2.6 HistoryData

Description:

- The HistoryData class. The PM metrics/types can be specified in technology specific augmentations of this class. ITU-T Q.822: This object will contain a copy of the performance management and other selected attributes that are present in the CurrentData object at the end of the current interval (measurement interval time / granularity period). A new instance of this object class is created at the end of each interval.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
periodStartTime	TapiCommon::TypeDefinitions::DateAndTime	1	R	OpenModelAttribute <ul style="list-style-type: none"> isKey: No isInvariant: false valueRange: no range constraint support: MANDATORY OpenInterfaceModelAttribute AVC: NA
periodEndTime	TapiCommon::TypeDefinitions::DateAndTime	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
_pmDataPac Navigable association end of: <i>HistoryDataHasPmDataPac</i>	PmDataPac	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: Parameters specific to Performance Monitoring functions.				
localId Inherited: <i>TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: An identifier that is unique in the context of the GlobalClass from which it is inseparable.				
name Inherited: <i>TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.				

Table 6 – Attributes for class *HistoryData*

1.2.7 Meg

Description:

- The Maintenance Entity Group. ITU-T G.8001: A group defined, for the purpose of fragment or connection monitoring, between a set of flow or connection points within a fragment/connection. This set of flow or connection points may be located at the boundary of one administrative domain or a protection domain, or at the boundaries of two adjacent administrative domains. The maintenance entity group consists of one or more maintenance entities (the entity between two of the flow/connection points in a maintenance entity group).

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_mep Navigable association end of: MEGHasMEPs	Mep	0..*	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA
	Description: The maintenance entity group consists of one or more maintenance entities. There are the following cases: 1. A maintenance entity may have 0 MEPs (case of transit domains where at least 1 MIP is present). 2. A maintenance entity may have 1 MEP (case of edge domains, where the peer MEP is outside the managed domain). 3. A maintenance entity may have 2 MEPs.			
_mip Navigable association end of: MEGHasMIPs	Mip	0..*	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: The maintenance entity group may have 0, 1, or more MIPs.			
_operationalStatePac Navigable association end of: MEGHasStatePac	TapiCommon::ObjectClasses::OperationalStatePac	0..1	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: The Meg status information.			
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: yes – part: 1• isInvariant: true• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description: UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	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: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.				

Table 7 – Attributes for class *Meg*

1.2.8 Mep

Description:

- The Maintenance Entity group end Point. ITU-T G.8001: maintenance entity group end point compound sink function: A compound transport processing function that accepts the characteristic information of the layer network at its input, extracts and processes the OAM information related to the monitoring of the maintenance entity group, filters the OAM information from within to the maintenance entity group, adapts the information and presents it as the characteristic information of the layer or a client layer at its output, potentially as a (client) layer maintenance signal (e.g., AIS). ITU-T G.8001: maintenance entity group end point compound source function: A compound transport processing function that accepts the characteristic information of the layer or a client layer network at its input, adapts that information, filters it for OAM information interfering with its own OAM information, adds OAM information to allow the maintenance entity group to be monitored and presents the resulting information at its output.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
layerProtocolName	TapiCommon::TypeDefinitions::LayerProtocolName	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> isKey: No isInvariant: false valueRange: no range constraint support: MANDATORY OpenInterfaceModelAttribute AVC: NA
Description: The Mep layer protocol.				
layerProtocolQualifier	TapiCommon::TypeDefinitions::LayerProtocolQualifier	0..1	R	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
_operationalStatePac <i>Navigable association end of: MEPHasStatePac</i>	TapiCommon::ObjectClasses::OperationalStatePac	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	Description: The Mep status information.			
localId <i>Inherited: TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY • AVC: NA
	Description: An identifier that is unique in the context of the GlobalClass from which it is inseparable.			
name <i>Inherited: TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 8 – Attributes for class *Mep*

1.2.9 MepMipList

Description:

- This augment allows CEP and NEP to refer to their MEPs/MIPs despite TapiOam model does not import resp. TapiConnectivity and TapiTopology models.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_mep <i>Navigable association end of: MepListHasMep</i>	Mep	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: The list of associated Mep instances.				
_mip <i>Navigable association end of: MipListHasMip</i>	Mip	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description: The list of associated Mip instances.				

Table 9 – Attributes for class *MepMipList*

1.2.10 MepPmData

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_mep <i>Navigable association end of: MepPmDataOfMep</i>	Mep	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
_historyData <i>Navigable association end of: MepPmDataHasHistoryData</i>	HistoryData	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				

Attribute Name	Type	Mult.	Access	Stereotypes
_oamJobDescriptor Navigable association end of: <i>MepPmDataHasOamJobDescr</i>	OamJobDescriptor	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.

Table 10 – Attributes for class *MepPmData*

1.2.11 Mip

Description:

- The Maintenance entity group Intermediate Point. ITU-T G.8001: maintenance entity group intermediate point compound function: A compound transport processing function that accepts the characteristic information of the layer network at its input, reacts to OAM information related to on-demand monitoring of a maintenance entity group and presents the characteristic information without the OAM to which it reacted at its output.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
layerProtocolName	TapiCommon::TypeDefinitions::LayerProtocolName	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The Mip layer protocol.			
layerProtocolQualifier	TapiCommon::TypeDefinitions::LayerProtocolQualifier	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_operationalStatePac <i>Navigable association end of: MIPHasStatePac</i>	TapiCommon::ObjectClasses::OperationalStatePac	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
localId <i>Inherited: TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: An identifier that is unique in the context of the GlobalClass from which it is inseparable.			
name <i>Inherited: TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 11 – Attributes for class *Mip*

1.2.12 MipPmData

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_historyData Navigable association end of: MipPmDataHasHistoryData	HistoryData	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			
_mip Navigable association end of: MipPmDataOfMip	Mip	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			
_oamJobDescriptor Navigable association end of: MipPmDataHasOamJobDescr	OamJobDescriptor	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description:			
	UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			

Attribute Name	Type	Mult.	Access	Stereotypes
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass</i> ::name	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 12 – Attributes for class *MipPmData*

1.2.13 OamContext

Description:

- This object class represents the scope of control that a particular SDN controller has with respect to a particular network, specifically regarding the OAM description. An instance of this class includes its OamService, OamJob and Meg object instances.

Applied stereotypes:

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

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

Description:

The included OamService instances.

_meg <i>Navigable association end of: ContextHasMegs</i>	Meg	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
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Description:

The included Meg instances.

Attribute Name	Type	Mult.	Access	Stereotypes
_oamJobService <i>Navigable association end of: ContextHasOamJobService</i>	OamJobService	0..*	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA OpenInterfaceModelAttribute
	Description:			
_oamJobDescriptor <i>Navigable association end of: ContextHasOamJobDescr</i>	OamJobDescriptor	0..*	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA OpenInterfaceModelAttribute
	Description:			
_oamJob <i>Navigable association end of: ContextHasOamJobs</i>	OamJob	0..*	RW	Deprecated OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA OpenInterfaceModelAttribute
	Description:	The included OamJob instances.		
_mepPmData <i>Navigable association end of: ContextHasMepPmData</i>	MepPmData	0..*	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA OpenInterfaceModelAttribute
	Description:			
_mipPmData <i>Navigable association end of: ContextHasMipPmData</i>	MipPmData	0..*	R	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• AVC: NA OpenInterfaceModelAttribute
	Description:			

Attribute Name	Type	Mult.	Access	Stereotypes
_cepPmData <i>Navigable association end of: ContextHasCepPmData</i>	CepPmData	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_fmDataOfMonitoredPoint <i>Navigable association end of: ContextHasCepFmData</i>	CepFmData	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 13 – Attributes for class *OamContext*

1.2.14 OamJob

Description:

- This class allows the provisioning of performance monitoring functions on specified resources.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
oamJobType	OamJobType	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	The OamJob type.			
oamJobState	OamJobState	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes
	Description:			
creationTime	TapiCommon::TypeDefinitions::DateAndTime	1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	The OamJob creation time.			
schedule	TapiCommon::TypeDefinitions::TimeRange	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	The OamJob schedule.			
results	PrimitiveTypes::String	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	Information allowing to retrieve the OAM job results by other means., e.g. file name.			
_oamServicePoint <i>Navigable association end of: OamJobOperatesOnOamServicePoints</i>	OamServicePoint	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	The OamServicePoint (OSP) instances involved in the OamJob.			
_connectionEndPoint <i>Navigable association end of: OamJobHasCep</i>	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	The ConnectionEndPoint (CEP) instances involved in the OamJob.			

Attribute Name	Type	Mult.	Access	Stereotypes
_connectivityServiceEndPoint Navigable association end of: OamJobRelatedToCSEP	TapiConnectivity::ObjectClasses::ConnectivityServiceEndPoint	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				In case the OamJob instance is not related to any OamService/Point but created together with ConnectivityService through ConnectivityOamJob augment.
_profile Navigable association end of: OamJobRefersOamProfile	TapiCommon::ObjectClasses::Profile	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				The (Oam)Profile instance referred by the OamJob.
_pmData Navigable association end of: OamJobHasPmData	PmData	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
_currentData Navigable association end of: OamJobCollectsData	CurrentData	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				The CurrentData instances in the scope of the OamJob.
_state Navigable association end of: OamJobHasAdminStatePac	TapiCommon::ObjectClasses::AdminStatePac	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
				The OamJob status information.

Attribute Name	Type	Mult.	Access	Stereotypes
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4} + [0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 14 – Attributes for class *OamJob*

1.2.15 OamJobDescriptor

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
oamJobType	OamJobType	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
	Description: The OamJob type.			

Attribute Name	Type	Mult.	Access	Stereotypes
oamJobState	OamJobState	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
creationTime	TapiCommon::TypeDefinitions::DateAndTime	1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
The OamJob creation time.				
schedule	TapiCommon::TypeDefinitions::TimeRange	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
The OamJob schedule.				
results	PrimitiveTypes::String	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
Description:				
Information allowing to retrieve the OAM job results by other means., e.g. file name.				
_cepPmData <i>Navigable association end of: CepPmDataHasOamJobDescr</i>	CepPmData	0..*	R	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
_mepPmData <i>Navigable association end of: MepPmDataHasOamJobDescr</i>	MepPmData	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_mipPmData <i>Navigable association end of: MipPmDataHasOamJobDescr</i>	MipPmData	0..*	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4} + [0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
	List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 15 – Attributes for class *OamJobDescriptor*

1.2.16 OamJobService

Applied stereotypes:

- OpenInterfaceModelClass
 - objectCreationNotification: NA
 - objectDeletionNotification: NA

- OpenModelClass
 - support: MANDATORY

Attribute Name	Type	Mult.	Access	Stereotypes
oamJobType	OamJobType	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				
	The OamJob type.			
schedule	TapiCommon::TypeDefinitions::TimeRange	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				
	The OamJob schedule.			
_pmParameterConfig <i>Navigable association end of: OamJobSrvHasPmParameterConfig</i>	PmParameterConfig	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				
_profile <i>Navigable association end of: OamJobSrvRefersOamProfile</i>	TapiCommon::ObjectClasses::Profile	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				
	The (Oam)Profile instance referred by the OamJobService.			
_oamService <i>Navigable association end of: OamJobSrvOperatesOnOamSrv</i>	OamService	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
_oamServicePoint <i>Navigable association end of: OamJobSrvOperatesOnOamSrvPoint</i>	OamServicePoint	0..*	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description:			
_connection <i>Navigable association end of: OamJobSrvOperatesOnConnection</i>	TapiConnectivity::ObjectClasses::Connection	0..*	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description:			
_connectionEndPoint <i>Navigable association end of: OamJobSrvOperatesOnCep</i>	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..*	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description:			
_oamJobDescriptor <i>Navigable association end of: OamJobServiceHasJobDescr</i>	OamJobDescriptor	0..1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: No• isInvariant: false• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description:			
uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute <ul style="list-style-type: none">• isKey: yes – part: 1• isInvariant: true• valueRange: no range constraint• support: MANDATORY• OpenInterfaceModelAttribute• AVC: NA
	Description:			
	UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}.' + '[0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6			

Attribute Name	Type	Mult.	Access	Stereotypes
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass</i> ::name	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 16 – Attributes for class *OamJobService*

1.2.17 OamPmData

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
_cepPmData Navigable association end of: CepPmData	CepPmData	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
_mepPmData Navigable association end of: CepMepPmData	MepPmData	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
_mipPmData Navigable association end of: CepMipPmData	MipPmData	0..*	R	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 17 – Attributes for class *OamPmData***1.2.18 OamProfile****Description:**

- The OamProfile allows centralization of OAM provisioning aspects, e.g. the PM parameters and their threshold values.

Applied stereotypes:

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

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

Table 18 – Attributes for class *OamProfile***1.2.19 OamService****Description:**

- An OamService represents an "intent-like" request for OAM functions between two or more OamServicePoint (OSP) instances. The OamService is a container for OAM request details and is distinct from the Meg that realize the request.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
layerProtocolName	TapiCommon::TypeDefinitions::LayerProtocolName	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:			
layerProtocolQualifier	TapiCommon::TypeDefinitions::LayerProtocolQualifier	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
_oamServicePoint <i>Navigable association end of: OamServiceHasOamServicePoint</i>	OamServicePoint	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The OamServicePoint (OSP) instances of the OamService.			
_meg <i>Navigable association end of: OamServiceManagesMeg</i>	Meg	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The Meg instance tracking the state of the allocated resources for the support of the OamService.			
_state <i>Navigable association end of: OamServiceHasAdminStatePac</i>	TapiCommon::ObjectClasses::AdminStatePac	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The OamService status information.			
uuid <i>Inherited: TapiCommon::ObjectClasses::GlobalClass ::uuid</i>	TapiCommon::TypeDefinitions::Uuid	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Attribute Name	Type	Mult.	Access	Stereotypes	
	Description: UUID: An identifier that is universally unique within an identifier space, where the identifier space is itself globally unique, and immutable. An UUID carries no semantics with respect to the purpose or state of the entity. UUID here uses string representation as defined in RFC 4122. The canonical representation uses lowercase characters. Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6				
name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass ::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA	
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.				

Table 19 – Attributes for class *OamService*

1.2.20 OamServicePoint

Description:

- The OamServicePoint (OSP) is a container for OAM request details and is distinct from the Mep and/or Mip instances that realize the request.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes	
isMip	PrimitiveTypes::Boolean	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA	
	Description: If true, the object is related to a MIP. If false, the object is related to a MEP.				
layerProtocolName	TapiCommon::TypeDefinitions::LayerProtocolName	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA	

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: The OamServicePoint (OSP) layer protocol.			
layerProtocolQualifier	TapiCommon::TypeDefinitions::LayerProtocolQualifier	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:			
_serviceInterfacePoint <i>Navigable association end of: OamSrvPointMonitorsSIP</i>	TapiCommon::ObjectClasses::ServiceInterfacePoint	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: The supporting ServiceInterfacePoint (SIP) instance. If neither ConnectivityServiceEndPoint (CSEP) nor ConnectionEndPoint (CEP) are specified, the OamServicePoint (OSP) is intended for SIP monitoring.			
_connectivityServiceEndPoint <i>Navigable association end of: OamServicePointMonitorsCSEP</i>	TapiConnectivity::ObjectClasses::ConnectivityServiceEndPoint	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: The ConnectivityServiceEndPoint (CSEP) instance monitored by the OamServicePoint (OSP). If not specified (and neither CEP is specified), the OamServicePoint (OSP) is intended for SIP monitoring.			
_connectionEndPoint <i>Navigable association end of: OamSrvPointMonitorsCEP</i>	TapiConnectivity::ObjectClasses::ConnectionEndPoint	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: The ConnectionEndPoint (CEP) instance monitored by the OamServicePoint (OSP). If not specified (and neither CSEP is specified), the OamServicePoint (OSP) is intended for SIP monitoring.			
_mep <i>Navigable association end of: OamSrvPointRelatesToMEP</i>	Mep	0..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

Attribute Name	Type	Mult.	Access	Stereotypes
	Description: The associated Mep instance, mutually exclusive wrt Mip instance.			
_mip <i>Navigable association end of: OamSrvPointRelatesToMIP</i>	Mip	0..1	R	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The associated Mip instance, mutually exclusive wrt Mep instance.			
_state <i>Navigable association end of: OSPHasStatePac</i>	TapiCommon::ObjectClasses::AdminStatePac	1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The OamServicePoint (OSP) status information.			
localId <i>Inherited: TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: An identifier that is unique in the context of the GlobalClass from which it is inseparable.			
name <i>Inherited: TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 20 – Attributes for class *OamServicePoint*

1.2.21 PmData

Description:

- The PM threshold information associated to an OamProfile instance. It defines a set of PM metrics, their threshold values, the granularity period or measurement interval time for these PM metrics, the stateful or stateless types of related threshold crossing alert (TCA) reporting.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
applicableJobType	OamJobType	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	Description:			
	<p>This attribute allows an PmThresholdData instance to be constrained to specific job types. If a PmThresholdData instance is so configured to be applicable to more than one job type (worst case ALL), only the parameters relevant for the job instance will be used (non-applicable profile parameters will be ignored).</p>			
granularityPeriod	TapiCommon::TypeDefinitions::TimePeriod	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • AVC: NA
	Description:			
	<p>The granularity period or measurement interval time. In case of instantaneous measurement this parameter is omitted (e.g. ODU Delay measurement).</p>			
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 • AVC: NA
	Description:			
isTransient	PrimitiveTypes::Boolean	0..1	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: A threshold crossing alert (TCA) is transient when stateless, i.e. an explicit alarm clear notification is not foreseen. MEF 35.1: Thresholds and associated TCAs are specific to a particular performance metric in a given PM Session (or OAM job). There are two types of TCA reporting: stateless and stateful. With stateless reporting, a TCA is generated in each Measurement Interval in which the threshold is crossed. With stateful reporting, a SET TCA is generated in the first Measurement Interval in which the threshold is crossed, and a CLEAR TCA is subsequently generated at the end of the first Measurement Interval in which the threshold is not crossed. Note: In ITU-T G.7710 terminology, stateless TCA reporting corresponds to a transient condition, and stateful TCA reporting corresponds to a standing condition. Note that threshold management for gauges may be more complex (e.g. out of range function for gauge overflow/underflow detection).			
codirectional	PrimitiveTypes::Boolean	0..1	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: Applicable in case of embedded provisioning through ConnectivityOamJob. In this case two MIPs on the same CEP can be involved in the same OamJob, hence may be necessary to set different thresholds for codirectional and contradirectional PM Parameters.			
pmParameter	PmParameter	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The PM metrics and their threshold values.			
localId Inherited: <i>TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: An identifier that is unique in the context of the GlobalClass from which it is inseparable.			
name Inherited: <i>TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: List of names. This value is unique in some namespace but may change during the life of the entity. A name carries no semantics with respect to the purpose of the entity.			

Table 21 – Attributes for class *PmData*

1.2.22 PmDataPac

Description:

- Parameters specific to Performance Monitoring functions.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
granularityPeriod	TapiCommon::TypeDefinitions::TimeInterval	0..1	R	OpenModelAttribute <ul style="list-style-type: none"> isKey: No isInvariant: false valueRange: no range constraint support: MANDATORY OpenInterfaceModelAttribute AVC: NA
Description:				The granularity period or measurement interval time.
suspectIntervalFlag	PrimitiveTypes::Boolean Default value: <i>false</i>	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 is used to indicate that the performance data for the current period may not be reliable. Some reasons for this to occur are: - Suspect data were detected by the actual resource doing data collection. - Transition of the administrativeState attribute to/from the 'lock' state. - Transition of the operationalState to/from the 'disabled' state. - Scheduler setting that inhibits the collection function. - The performance counters were reset during the interval. - The currentData (or subclass) object instance was created during the monitoring period.

Table 22 – Attributes for class *PmDataPac*

1.2.23 PmParameterConfig

Description:

- Two PmParameterConfig instances with same granularityPeriod and isTransient and codirectional attribute values must not list the same pmParameter-name more than once.

Applied stereotypes:

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

Attribute Name	Type	Mult.	Access	Stereotypes
applicableJobType	OamJobType	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 allows an PmThresholdData instance to be constrained to specific job types. If a PmThresholdData instance is so configured to be applicable to more than one job type (worst case ALL), only the parameters relevant for the job instance will be used (non-applicable profile parameters will be ignored).			
granularityPeriod	TapiCommon::TypeDefinitions::TimePeriod	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: The granularity period or measurement interval time. In case of instantaneous measurement this parameter is omitted (e.g. ODU Delay measurement).			
timeOfDayAlignment	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:			
isTransient	PrimitiveTypes::Boolean	0..1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description: A threshold crossing alert (TCA) is transient when stateless, i.e. an explicit alarm clear notification is not foreseen. MEF 35.1: Thresholds and associated TCAs are specific to a particular performance metric in a given PM Session (or OAM job). There are two types of TCA reporting: stateless and stateful. With stateless reporting, a TCA is generated in each Measurement Interval in which the threshold is crossed. With stateful reporting, a SET TCA is generated in the first Measurement Interval in which the threshold is crossed, and a CLEAR TCA is subsequently generated at the end of the first Measurement Interval in which the threshold is not crossed. Note: In ITU-T G.7710 terminology, stateless TCA reporting corresponds to a transient condition, and stateful TCA reporting corresponds to a standing condition. Note that threshold management for gauges may be more complex (e.g. out of range function for gauge overflow/underflow detection).			

Attribute Name	Type	Mult.	Access	Stereotypes	
layerProtocolName	TapiCommon::TypeDefinitions::LayerProtocolName	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 	
	Description:				
layerProtocolQualifier	TapiCommon::TypeDefinitions::LayerProtocolQualifier	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 	
	Description:				
codirectional	PrimitiveTypes::Boolean	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 	
	Description:	<p>In case two MIPs (or TCM MEPs, or TCM MIPs) on the same CEP can be involved in the same OamJob, hence may be necessary to set different thresholds for codirectional and contradirectional PM Parameters.</p>			
pmParameter	<u>PmParameter</u>	0..*	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA 	
	Description:	<p>The PM metrics and their threshold values.</p>			
localId Inherited: <i>TapiCommon::ObjectClasses::LocalClass::localId</i>	PrimitiveTypes::String	1	RW	<p>OpenModelAttribute</p> <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA 	
	Description:	<p>An identifier that is unique in the context of the GlobalClass from which it is inseparable.</p>			

Attribute Name	Type	Mult.	Access	Stereotypes
name Inherited: <i>TapiCommon::ObjectClasses::LocalClass::name</i>	TapiCommon::TypeDefinitions::NameAndValue	0..*	RW	OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA

Table 23 – Attributes for class *PmParameterConfig*

1.3 Signals

1.4 Associations

1.4.1 CepMepPmData

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mepPmData	none	Yes	MepPmData	0..*
oampmdata	none	No	OamPmData	1

Table 24 – Member ends for association *CepMepPmData*

1.4.2 CepMipPmData

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mipPmData	none	Yes	MipPmData	0..*
oampmdata	none	No	OamPmData	1

Table 25 – Member ends for association *CepMipPmData*

1.4.3 CepPmData

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_cepPmData	none	Yes	CepPmData	0..1
monitoredpmdata	none	No	OamPmData	1

Table 26 – Member ends for association *CepPmData*

1.4.4 CepPmDataHasHistoryData

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_historyData	composite	Yes	HistoryData	0..*
ceppmdata	none	No	CepPmData	1

Table 27 – Member ends for association *CepPmDataHasHistoryData***1.4.5 CepPmDataHasOamJobDescr**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobDescriptor	none	Yes	OamJobDescriptor	0..1
_cepPmData	none	Yes	CepPmData	0..*

Table 28 – Member ends for association *CepPmDataHasOamJobDescr***1.4.6 CepPmDataOfCep**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectionEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..1
ceppmdata	none	No	CepPmData	1

Table 29 – Member ends for association *CepPmDataOfCep***1.4.7 ConnOamJobSrvHasOamJobService**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobService	composite	Yes	OamJobService	1..*
connectivityoamjobservice	none	No	ConnectivityOamJobService	1

Table 30 – Member ends for association *ConnOamJobSrvHasOamJobService***1.4.8 ConnectivityOamSrvHasOamSrv**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
oamService	composite	Yes	OamService	0..*
csoamservice	none	No	ConnectivityOamService	1

Table 31 – Member ends for association *ConnectivityOamSrvHasOamSrv*

1.4.9 ContextHasCepFmData

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_fmDataOfMonitoredPoint	composite	Yes	CepFmData	0..*
oamcontext	none	No	OamContext	1

Table 32 – Member ends for association *ContextHasCepFmData*

1.4.10 ContextHasCepPmData

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_cepPmData	composite	Yes	CepPmData	0..*
oamcontext	none	No	OamContext	1

Table 33 – Member ends for association *ContextHasCepPmData*

1.4.11 ContextHasMegs

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_meg	composite	Yes	Meg	0..*
_fc	none	No	OamContext	1

Table 34 – Member ends for association *ContextHasMegs*

1.4.12 ContextHasMepPmData

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mepPmData	composite	Yes	MepPmData	0..*
oamcontext	none	No	OamContext	1

Table 35 – Member ends for association *ContextHasMepPmData*

1.4.13 ContextHasMipPmData

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mipPmData	composite	Yes	MipPmData	0..*
oamcontext	none	No	OamContext	1

Table 36 – Member ends for association *ContextHasMipPmData*

1.4.14 ContextHasOamJobDescr

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobDescriptor	composite	Yes	OamJobDescriptor	0..*
oamcontext	none	No	OamContext	1

Table 37 – Member ends for association *ContextHasOamJobDescr*

1.4.15 ContextHasOamJobService

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobService	composite	Yes	OamJobService	0..*
oamcontext	none	No	OamContext	1

Table 38 – Member ends for association *ContextHasOamJobService*

1.4.16 ContextHasOamJobs

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJob	composite	Yes	OamJob	0..*
oamcontext	none	No	OamContext	1

Table 39 – Member ends for association *ContextHasOamJobs*

1.4.17 ContextHasOamService

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamService	composite	Yes	OamService	0..*
oamcontext	none	No	OamContext	1

Table 40 – Member ends for association *ContextHasOamService***1.4.18 CurrentDataHasHistoryData**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_historyData	composite	Yes	HistoryData	0..*
_currentData	none	No	CurrentData	1

Table 41 – Member ends for association *CurrentDataHasHistoryData***1.4.19 CurrentDataHasPmDataPac**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_pmDataPac	composite	Yes	PmDataPac	0..1
currentdata	none	No	CurrentData	1

Table 42 – Member ends for association *CurrentDataHasPmDataPac***1.4.20 CurrentDataOfCep**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectionEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..1
currentdata	none	No	CurrentData	0..*

Table 43 – Member ends for association *CurrentDataOfCep***1.4.21 CurrentDataOfMep**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
mep	none	Yes	Mep	0..1
currentdata	none	No	CurrentData	0..*

Table 44 – Member ends for association *CurrentDataOfMep*

1.4.22 CurrentDataOfMip

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mip	none	Yes	Mip	0..1
currentdata	none	No	CurrentData	0..*

Table 45 – Member ends for association *CurrentDataOfMip*

1.4.23 HistoryDataHasPmDataPac

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_pmDataPac	composite	Yes	PmDataPac	0..1
historydata	none	No	HistoryData	1

Table 46 – Member ends for association *HistoryDataHasPmDataPac*

1.4.24 MEGHasMEPs

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mep	composite	Yes	Mep	0..*
me	none	No	Meg	1

Table 47 – Member ends for association *MEGHasMEPs*

1.4.25 MEGHasMIPs

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mip	composite	Yes	Mip	0..*
_me	none	No	Meg	1

Table 48 – Member ends for association *MEGHasMIPs*

1.4.26 MEGHasStatePac

Applied stereotype:

- ExtendedComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_operationalStatePac	composite	Yes	TapiCommon::ObjectClasses::OperationalStatePac	0..1
meg	none	No	Meg	1

Table 49 – Member ends for association *MEGHasStatePac***1.4.27 MEPHasStatePac**

Applied stereotype:

- ExtendedComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_operationalStatePac	composite	Yes	TapiCommon::ObjectClasses::OperationalStatePac	0..1
mep	none	No	Mep	1

Table 50 – Member ends for association *MEPHasStatePac***1.4.28 MIPHasStatePac**

Applied stereotype:

- ExtendedComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_operationalStatePac	composite	Yes	TapiCommon::ObjectClasses::OperationalStatePac	0..1
mip	none	No	Mip	1

Table 51 – Member ends for association *MIPHasStatePac***1.4.29 MepListHasMep**

Applied stereotype:

- LifecyleAggregate

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mep	shared	Yes	Mep	0..*
oamctppacspe	none	No	MepMipList	1

Table 52 – Member ends for association *MepListHasMep***1.4.30 MepPmDataHasHistoryData**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_historyData	composite	Yes	HistoryData	0..*
meppmdata	none	No	MepPmData	1

Table 53 – Member ends for association *MepPmDataHasHistoryData***1.4.31 MepPmDataHasOamJobDescr**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobDescriptor	none	Yes	OamJobDescriptor	0..1
_mepPmData	none	Yes	MepPmData	0..*

Table 54 – Member ends for association *MepPmDataHasOamJobDescr***1.4.32 MepPmDataOfMep**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mep	none	Yes	Mep	0..1
meppmdata	none	No	MepPmData	1

Table 55 – Member ends for association *MepPmDataOfMep***1.4.33 MipListHasMip**

Applied stereotype:

- LifecycleAggregate

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mip	shared	Yes	Mip	0..*
oamctppacspe	none	No	MepMipList	1

Table 56 – Member ends for association *MipListHasMip***1.4.34 MipPmDataHasHistoryData**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_historyData	composite	Yes	HistoryData	0..*
mippmdata	none	No	MipPmData	1

Table 57 – Member ends for association *MipPmDataHasHistoryData***1.4.35 MipPmDataHasOamJobDescr**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobDescriptor	none	Yes	OamJobDescriptor	0..1
_mipPmData	none	Yes	MipPmData	0..*

Table 58 – Member ends for association *MipPmDataHasOamJobDescr***1.4.36 MipPmDataOfMip**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mip	none	Yes	Mip	0..1
mippmdata	none	No	MipPmData	1

Table 59 – Member ends for association *MipPmDataOfMip***1.4.37 OSPHasStatePac**

Applied stereotype:

- ExtendedComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
state	composite	Yes	TapiCommon::ObjectClasses::AdminStatePac	1
oamservicepoint	none	No	OamServicePoint	1

Table 60 – Member ends for association *OSPHasStatePac***1.4.38 OamJobCollectsData**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_currentData	composite	Yes	CurrentData	0..*
oamjob	none	No	OamJob	1

Table 61 – Member ends for association *OamJobCollectsData***1.4.39 OamJobHasAdminStatePac**

Applied stereotype:

- ExtendedComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_state	composite	Yes	TapiCommon::ObjectClasses::AdminStatePac	1
measurementjob	none	No	OamJob	1

Table 62 – Member ends for association *OamJobHasAdminStatePac***1.4.40 OamJobHasCep**

Description:

- Direct reference to CEP for simple OAM jobs like loopback.

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectionEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..*
oamjob	none	No	OamJob	0..*

Table 63 – Member ends for association *OamJobHasCep***1.4.41 OamJobHasPmData**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_pmData	composite	Yes	PmData	0..*
oamjob	none	No	OamJob	1

Table 64 – Member ends for association *OamJobHasPmData***1.4.42 OamJobOperatesOnOamServicePoints**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamServicePoint	none	Yes	OamServicePoint	0..*
oamJob	none	Yes	OamJob	0..*

Table 65 – Member ends for association *OamJobOperatesOnOamServicePoints***1.4.43 OamJobRefersOamProfile**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_profile	none	Yes	TapiCommon::ObjectClasses::Profile	0..1
oamjob	none	No	OamJob	0..*

Table 66 – Member ends for association *OamJobRefersOamProfile***1.4.44 OamJobRelatedToCSEP**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectivityServiceEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectivityServiceEndPoint	0..1
oamjob	none	No	OamJob	0..*

Table 67 – Member ends for association *OamJobRelatedToCSEP***1.4.45 OamJobServiceHasJobDescr**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamJobDescriptor	none	Yes	OamJobDescriptor	0..1
oamjobservice	none	No	OamJobService	1

Table 68 – Member ends for association *OamJobServiceHasJobDescr***1.4.46 OamJobSrvHasPmParameterConfig**

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
pmParameterConfig	composite	Yes	PmParameterConfig	0..*
oamjobservice	none	No	OamJobService	1

Table 69 – Member ends for association *OamJobSrvHasPmParameterConfig***1.4.47 OamJobSrvOperatesOnCep**

Description:

- The direct reference to the CEP may apply in case an OAM Job is provisioned without any existing OAM Service.

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectionEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..*
oamjobservice	none	No	OamJobService	1

Table 70 – Member ends for association *OamJobSrvOperatesOnCep***1.4.48 OamJobSrvOperatesOnConnection**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connection	none	Yes	TapiConnectivity::ObjectClasses::Connection	0..*
oamjobservice	none	No	OamJobService	1

Table 71 – Member ends for association *OamJobSrvOperatesOnConnection*

1.4.49 OamJobSrvOperatesOnOamSrv

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamService	none	Yes	OamService	0..1
oamjobservice	none	No	OamJobService	1

Table 72 – Member ends for association *OamJobSrvOperatesOnOamSrv*

1.4.50 OamJobSrvOperatesOnOamSrvPoint

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamServicePoint	none	Yes	OamServicePoint	0..*
oamjobservice	none	No	OamJobService	1

Table 73 – Member ends for association *OamJobSrvOperatesOnOamSrvPoint*

1.4.51 OamJobSrvRefersOamProfile

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
profile	none	Yes	TapiCommon::ObjectClasses::Profile	0..1
oamjobservice	none	No	OamJobService	1

Table 74 – Member ends for association *OamJobSrvRefersOamProfile*

1.4.52 OamProfileHasPmParamConfig

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_pmParameterConfig	composite	Yes	PmParameterConfig	1..*
oamprofile	none	No	OamProfile	1

Table 75 – Member ends for association *OamProfileHasPmParamConfig*

1.4.53 OamServiceHasAdminStatePac

Applied stereotype:

- ExtendedComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_state	composite	Yes	TapiCommon::ObjectClasses::AdminStatePac	0..1
oamservice	none	No	OamService	1

Table 76 – Member ends for association *OamServiceHasAdminStatePac*

1.4.54 OamServiceHasOamServicePoint

Applied stereotype:

- StrictComposite

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_oamServicePoint	composite	Yes	OamServicePoint	0..*
oamservice	none	No	OamService	1

Table 77 – Member ends for association *OamServiceHasOamServicePoint*

1.4.55 OamServiceManagesMeg

Applied stereotype:

- LifecycleAggregate

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_meg	shared	Yes	Meg	0..1
fc	none	No	OamService	0..1

Table 78 – Member ends for association *OamServiceManagesMeg*

1.4.56 OamServicePointMonitorsCSEP

Description:

- This relationship is useful to provide abstraction, i.e. to address the CSEP rather than the CEP, e.g. in case the CEP instance referenced by CSEP will change for some reason in the network.

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectivityServiceEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectivityServiceEndPoint	0..1
oamserviceendpoint	none	No	OamServicePoint	0..*

Table 79 – Member ends for association *OamServicePointMonitorsCSEP*

1.4.57 OamSrvPointMonitorsCEP

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_connectionEndPoint	none	Yes	TapiConnectivity::ObjectClasses::ConnectionEndPoint	0..1
oamservicepoint	none	No	OamServicePoint	0..*

Table 80 – Member ends for association *OamSrvPointMonitorsCEP*

1.4.58 OamSrvPointMonitorsSIP

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_serviceInterfacePoint	none	Yes	TapiCommon::ObjectClasses::ServiceInterfacePoint	0..1
oamserviceendpoint	none	No	OamServicePoint	0..*

Table 81 – Member ends for association *OamSrvPointMonitorsSIP***1.4.59 OamSrvPointRelatesToMEP**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mep	none	Yes	Mep	0..1
_oamServiceEndPoint	none	No	OamServicePoint	0..1

Table 82 – Member ends for association *OamSrvPointRelatesToMEP***1.4.60 OamSrvPointRelatesToMIP**

Association end role name	Aggreg. type	Navigable	Target Class	Mult.
_mip	none	Yes	Mip	0..1
_oamServiceEndPoint	none	No	OamServicePoint	0..1

Table 83 – Member ends for association *OamSrvPointRelatesToMIP***1.5 Abstractions****1.5.1 AugmentRootContext**

Augmenting Class	Augmented Class	Comment
OamContext	TapiCommon::ObjectClasses::TapiContext	Augments the base TAPI Context with OamContext model.
target: "/TapiCommon:Context:_context"		

Table 84 – Member ends for class abstraction *AugmentRootContext***1.5.2 CepPmDataAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
CepPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context: context/TapiNotification:NotificationContext: notificationContext/TapiNotification:NotificationContext: eventNotification"		

Table 85 – Member ends for class abstraction *CepPmDataAugmentsEventNotif***1.5.3 CepPmDataAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
CepPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 86 – Member ends for class abstraction *CepPmDataAugmentsEventNotifSignal***1.5.4 CepPmDataAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
CepPmData	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 87 – Member ends for class abstraction *CepPmDataAugmentsLogRecordBody***1.5.5 ConnOamJobSrvAugmentsConnSrv**

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

Table 88 – Member ends for class abstraction *ConnOamJobSrvAugmentsConnSrv***1.5.6 CsOamSrvAugmentsConnSrv**

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

Table 89 – Member ends for class abstraction *CsOamSrvAugmentsConnSrv***1.5.7 CurrentDataAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
CurrentData	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 90 – Member ends for class abstraction *CurrentDataAugmentsEventNotif***1.5.8 CurrentDataAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
CurrentData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 91 – Member ends for class abstraction *CurrentDataAugmentsEventNotifSignal***1.5.9 CurrentDataAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
CurrentData	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 92 – Member ends for class abstraction *CurrentDataAugmentsLogRecordBody***1.5.10 HistoryDataAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
HistoryData	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 93 – Member ends for class abstraction *HistoryDataAugmentsEventNotif***1.5.11 HistoryDataAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
HistoryData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 94 – Member ends for class abstraction *HistoryDataAugmentsEventNotifSignal***1.5.12 HistoryDataAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
HistoryData	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 95 – Member ends for class abstraction *HistoryDataAugmentsLogRecordBody***1.5.13 MegAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
Meg	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 96 – Member ends for class abstraction *MegAugmentsEventNotif***1.5.14 MegAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
Meg	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 97 – Member ends for class abstraction *MegAugmentsEventNotifSignal***1.5.15 MegAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
Meg	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord: streamRecord/TapiStreaming:StreamRecord: logRecord/TapiStreaming:LogRecord: logRecordBody"		

Table 98 – Member ends for class abstraction *MegAugmentsLogRecordBody***1.5.16 MepAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
Mep	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 99 – Member ends for class abstraction *MepAugmentsEventNotif***1.5.17 MepAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
Mep	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 100 – Member ends for class abstraction *MepAugmentsEventNotifSignal***1.5.18 MepAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
Mep	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 101 – Member ends for class abstraction *MepAugmentsLogRecordBody***1.5.19 MepMipListAugmentsCep**

Augmenting Class	Augmented Class	Comment
MepMipList	TapiConnectivity::ObjectClasses::ConnectionEndPoint	This augment allows CEP to refer to its MEPs/MIPs despite TapiOam model does not import TapiConnectivity model.
target: "/TapiCommon:Context:_context/TapiTopology:TopologyContext:_topologyContext/TapiTopology:TopologyContext:_topology/TapiTopology:Topology:_node/TapiTopology:Node:_ownedNodeEdgePoint/TapiConnectivity:CepList:_cepList/TapiConnectivity:Connection:_connectionEndPoint"		

Table 102 – Member ends for class abstraction *MepMipListAugmentsCep***1.5.20 MepMipListAugmentsNep**

Augmenting Class	Augmented Class	Comment
MepMipList	TapiTopology::ObjectClasses::NodeEdgePoint	This augment allows NEP to refer to its MEPs/MIPs despite TapiOam model does not import TapiTopology model.
target: "/TapiCommon:Context:_context/TapiTopology:TopologyContext:_topologyContext/TapiTopology:TopologyContext:_topology/TapiTopology:Topology:_node/TapiTopology:Node:_ownedNodeEdgePoint"		

Table 103 – Member ends for class abstraction *MepMipListAugmentsNep***1.5.21 MepPmDataAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
MepPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 104 – Member ends for class abstraction *MepPmDataAugmentsEventNotif***1.5.22 MepPmDataAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
MepPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 105 – Member ends for class abstraction *MepPmDataAugmentsEventNotifSignal*

1.5.23 MepPmDataAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
MepPmData	TapiStreaming::ObjectClasses::LogReco rdBody	target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"

Table 106 – Member ends for class abstraction *MepPmDataAugmentsLogRecordBody*

1.5.24 MipAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
Mip	TapiNotification::Notifications::EventN otification	target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventN otification"

Table 107 – Member ends for class abstraction *MipAugmentsEventNotif*

1.5.25 MipAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
Mip	TapiNotification::Notifications::EventN otification	target: "/TapiNotification:Notifications:EventNotification"

Table 108 – Member ends for class abstraction *MipAugmentsEventNotifSignal*

1.5.26 MipAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
Mip	TapiStreaming::ObjectClasses::LogReco rdBody	target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"

Table 109 – Member ends for class abstraction *MipAugmentsLogRecordBody*

1.5.27 MipPmDataAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
MipPmData	TapiNotification::Notifications::EventN otification	target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventN otification"

Table 110 – Member ends for class abstraction *MipPmDataAugmentsEventNotif*

1.5.28 MipPmDataAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
MipPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 111 – Member ends for class abstraction *MipPmDataAugmentsEventNotifSignal*

1.5.29 MipPmDataAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
MipPmData	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 112 – Member ends for class abstraction *MipPmDataAugmentsLogRecordBody*

1.5.30 MonitoredPmDataAugmentsCep

Augmenting Class	Augmented Class	Comment
OamPmData	TapiConnectivity::ObjectClasses::ConnectionEndPoint	
target: "/TapiCommon:Context:_context/TapiTopology:TopologyContext:_topologyContext/TapiTopology:TopologyContext:_topology/TapiTopology:Topology:_node/TapiTopology:Node:_ownedNodeEdgePoint/TapiConnectivity:CepList:_cepList/TapiConnectivity:CepList:_connectionEndPoint"		

Table 113 – Member ends for class abstraction *MonitoredPmDataAugmentsCep*

1.5.31 OamJobAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
OamJob	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 114 – Member ends for class abstraction *OamJobAugmentsEventNotif*

1.5.32 OamJobAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
OamJob	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 115 – Member ends for class abstraction *OamJobAugmentsEventNotifSignal*

1.5.33 OamJobAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
OamJob	TapiStreaming::ObjectClasses::LogRecordBody	<p>target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"</p>

Table 116 – Member ends for class abstraction *OamJobAugmentsLogRecordBody*

1.5.34 OamJobDescrAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
OamJobDescriptor	TapiNotification::Notifications::EventNotification	<p>target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"</p>

Table 117 – Member ends for class abstraction *OamJobDescrAugmentsEventNotif*

1.5.35 OamJobDescrAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
OamJobDescriptor	TapiNotification::Notifications::EventNotification	

target: "/TapiNotification:Notifications:EventNotification"

Table 118 – Member ends for class abstraction *OamJobDescrAugmentsEventNotifSignal*

1.5.36 OamJobDescrAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
OamJobDescriptor	TapiStreaming::ObjectClasses::LogRecordBody	

target:
"/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"

Table 119 – Member ends for class abstraction *OamJobDescrAugmentsLogRecordBody*

1.5.37 OamJobSrvAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
OamJobService	TapiNotification::Notifications::EventNotification	

target:
"/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"

Table 120 – Member ends for class abstraction *OamJobSrvAugmentsEventNotif*

1.5.38 OamJobSrvAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
OamJobService	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 121 – Member ends for class abstraction *OamJobSrvAugmentsEventNotifSignal*

1.5.39 OamJobSrvAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
OamJobService	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 122 – Member ends for class abstraction *OamJobSrvAugmentsLogRecordBody*

1.5.40 OamObjectTypeAugmentsObjectType

Augmenting Enumeration	Augmented Enumeration
OamObjectType	ObjectType
<ul style="list-style-type: none"> - CEP_PM_DATA - CURRENT_DATA - HISTORY_DATA - MEG - MEP - MEP_PM_DATA - MIP - MIP_PM_DATA - OAM_JOB - OAM_JOB_DESCRIPTOR - OAM_JOB_SERVICE - OAM_PM_DATA - OAM_PROFILE - OAM_SERVICE - OAM_SERVICE_POINT - PM_DATA - PM_PARAMETER_CONFIG 	
Comment Enumeration Augment.	

Table 123 – Member ends for enum abstraction *OamObjectTypeAugmentsObjectType*

1.5.41 OamPmDataAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
OamPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 124 – Member ends for class abstraction *OamPmDataAugmentsEventNotif***1.5.42 OamPmDataAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
OamPmData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 125 – Member ends for class abstraction *OamPmDataAugmentsEventNotifSignal***1.5.43 OamPmDataAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
OamPmData	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 126 – Member ends for class abstraction *OamPmDataAugmentsLogRecordBody***1.5.44 OamProfileAugmentsProfile**

Augmenting Class	Augmented Class	Comment
OamProfile	TapiOam::Diagrams	
target: "/TapiCommon:Context:_context/TapiCommon:Context:_profile"		

Table 127 – Member ends for class abstraction *OamProfileAugmentsProfile***1.5.45 OamProfileTypeAugmentsProfileType**

Augmenting Enumeration	Augmented Enumeration
OamProfileType - OAM	ProfileType
Comment	
Enumeration Augment.	

Table 128 – Member ends for enum abstraction *OamProfileTypeAugmentsProfileType***1.5.46 OamServiceAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
OamService	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 129 – Member ends for class abstraction *OamServiceAugmentsEventNotif*

1.5.47 OamServiceAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
OamService	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 130 – Member ends for class abstraction *OamServiceAugmentsEventNotifSignal*

1.5.48 OamServiceAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
OamService	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 131 – Member ends for class abstraction *OamServiceAugmentsLogRecordBody*

1.5.49 OamServicePointAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
OamServicePoint	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 132 – Member ends for class abstraction *OamServicePointAugmentsEventNotif*

1.5.50 OamServicePointAugmentsEventNotifSignal

Augmenting Class	Augmented Class	Comment
OamServicePoint	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 133 – Member ends for class abstraction *OamServicePointAugmentsEventNotifSignal*

1.5.51 OamServicePointAugmentsLogRecordBody

Augmenting Class	Augmented Class	Comment
OamServicePoint	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 134 – Member ends for class abstraction *OamServicePointAugmentsLogRecordBody*

1.5.52 PmParamConfigAugmentsEventNotif

Augmenting Class	Augmented Class	Comment
PmParameterConfig	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 135 – Member ends for class abstraction *PmParamConfigAugmentsEventNotif***1.5.53 PmParamConfigAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
PmParameterConfig	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 136 – Member ends for class abstraction *PmParamConfigAugmentsEventNotifSignal***1.5.54 PmParamConfigAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
PmParameterConfig	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord: streamRecord/TapiStreaming:StreamRecord: logRecord/TapiStreaming:LogRecord: logRecordBody"		

Table 137 – Member ends for class abstraction *PmParamConfigAugmentsLogRecordBody***1.5.55 PmThresholdDataAugmentsEventNotif**

Augmenting Class	Augmented Class	Comment
PmData	TapiNotification::Notifications::EventNotification	
target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification"		

Table 138 – Member ends for class abstraction *PmThresholdDataAugmentsEventNotif***1.5.56 PmThresholdDataAugmentsEventNotifSignal**

Augmenting Class	Augmented Class	Comment
PmData	TapiNotification::Notifications::EventNotification	
target: "/TapiNotification:Notifications:EventNotification"		

Table 139 – Member ends for class abstraction *PmThresholdDataAugmentsEventNotifSignal***1.5.57 PmThresholdDataAugmentsLogRecordBody**

Augmenting Class	Augmented Class	Comment
PmData	TapiStreaming::ObjectClasses::LogRecordBody	
target: "/TapiStreaming:StreamRecord:_streamRecord/TapiStreaming:StreamRecord:_logRecord/TapiStreaming:LogRecord:_logRecordBody"		

Table 140 – Member ends for class abstraction *PmThresholdDataAugmentsLogRecordBody*

1.6 Data Types

1.6.1 PmParameter

Description:

- PM metrics, their locations and threshold values.

Attribute Name	Type	Mult.	Access	Stereotypes
pmParameterName	TapiCommon::TypeDefinitions::Pm	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description: PM metric name.				
thresholdConfig	ThresholdConfig	0..*	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description: PM metric location.				

Table 141 – Attributes for data type *PmParameter*

1.6.2 ThresholdConfig

Attribute Name	Type	Mult.	Access	Stereotypes
thresholdLocation	ThresholdCrossingQualifier	1	RW	OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY • OpenInterfaceModelAttribute • AVC: NA
Description:				

Attribute Name	Type	Mult.	Access	Stereotypes
thresholdType	ThresholdType	1	RW	OpenModelAttribute • isKey: yes – part: 2 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
pmParameterValue	TapiCommon::TypeDefinitions::Pm ParameterValue	1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
clearThreshold	PrimitiveTypes::Boolean	1	RW	OpenModelAttribute • isKey: yes – part: 3 • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			
thrsAdditionalQualifier	ThrsAddQualif	0..1	RW	OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY OpenInterfaceModelAttribute • AVC: NA
	Description:			

Table 142 – Attributes for data type *ThresholdConfig*

1.7 Enumerations

1.7.1 OamJobState

Contains Enumeration Literals:

- ACTIVE
- CONCLUDED
- NOT_ACTIVE

1.7.2 OamJobType

Description:

- The OAM job types. This extensible enumeration can be augmented with specific OAM job types in the other modules.

Contains Enumeration Literals:

- LOOPBACK_FACILITY
 - External / Line Loopback.
- LOOPBACK_TERMINAL
 - Internal / Device Loopback.

1.7.3 OamObjectType

Description:

- The list of TAPI OAM Global Object Class types on which Notification signals can be raised.

Contains Enumeration Literals:

- OAM_SERVICE
 - The OamService class.
- OAM_SERVICE_POINT
 - The OamServicePoint (OSP) class.
- MEG
 - The Meg class.
- MEP
 - The Mep class.
- MIP
 - The Mip class.
- OAM_JOB
 - The OamJob class.

➤ Applied stereotype:
 ▪ Deprecated

- OAM_PROFILE
 - The OamProfile class.
- CURRENT_DATA
 - The CurrentData class.

➤ Applied stereotype:
 ▪ Deprecated

- HISTORY_DATA
 - The HistoryData class.
- PM_DATA
 - The PmThresholdData class.

➤ Applied stereotype:
 ▪ Deprecated

- OAM_JOB_SERVICE
- OAM_JOB_DESCRIPTOR
- PM_PARAMETER_CONFIG

- CEP_PM_DATA
- MEP_PM_DATA
- MIP_PM_DATA
- OAM_PM_DATA

1.7.4 OamProfileType

Contains Enumeration Literals:

- OAM

1.7.5 ThresholdCrossingQualifier

Description:

- Threshold crossing location or qualifier.

Contains Enumeration Literals:

- NOT_APPLICABLE
 - Location or qualifier not applicable.
- NEAR-END
 - Near End detection.
- FAR-END
 - Far end detection.
- BIDIRECTIONAL
 - Composition of near and far end detections.
- FORWARD
 - MEF 35.1: The direction of performance measurements from the Controller MEP towards the Responder or Sink MEP, when One-way measurements are taken using a Single-Ended or Dual-Ended PM Function. MEF 83: In Single-Ended measurements, it is assumed that the FORWARD and FAR-END qualifiers are equivalent. In Dual-Ended measurements (and in case of TX counters), it is assumed that the FORWARD and NEAR-END qualifiers are equivalent.
- BACKWARD
 - MEF 35.1: The direction of performance measurements from the Responder MEP towards the Controller MEP, when One-way measurements are taken using a Single-Ended PM Function. Note: this term is not applicable when Dual-Ended PM Functions are used. MEF 83: In Single-Ended measurements, it is assumed that the BACKWARD and NEAR-END qualifiers are equivalent. In Dual-Ended measurements (and in case of TX counters), it is assumed that the BACKWARD and FAR-END qualifiers are equivalent.

1.7.6 ThresholdType

Contains Enumeration Literals:

- UPPER
- LOWER
- TIDEMARK
- POSITIVE_DELTA
- NEGATIVE_DELTA

1.7.7 ThrsAddQualif

Description:

- Useful in case the monitored entity encapsulates more monitoring functions (e.g. OMS and Amplification).

Contains Enumeration Literals:

1.8 Primitives