



TAPI UML Model

Version 2.5.0

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Document History

| Version | Date | Description of Change |
|---------|---------------|--|
| 2.3 | May 27, 2021 | Model Dump <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> |
| 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 Notification Model

TapiNotification: This module contains TAPI Notification Model definitions. Source: TapiNotification.uml
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1.1 Diagrams

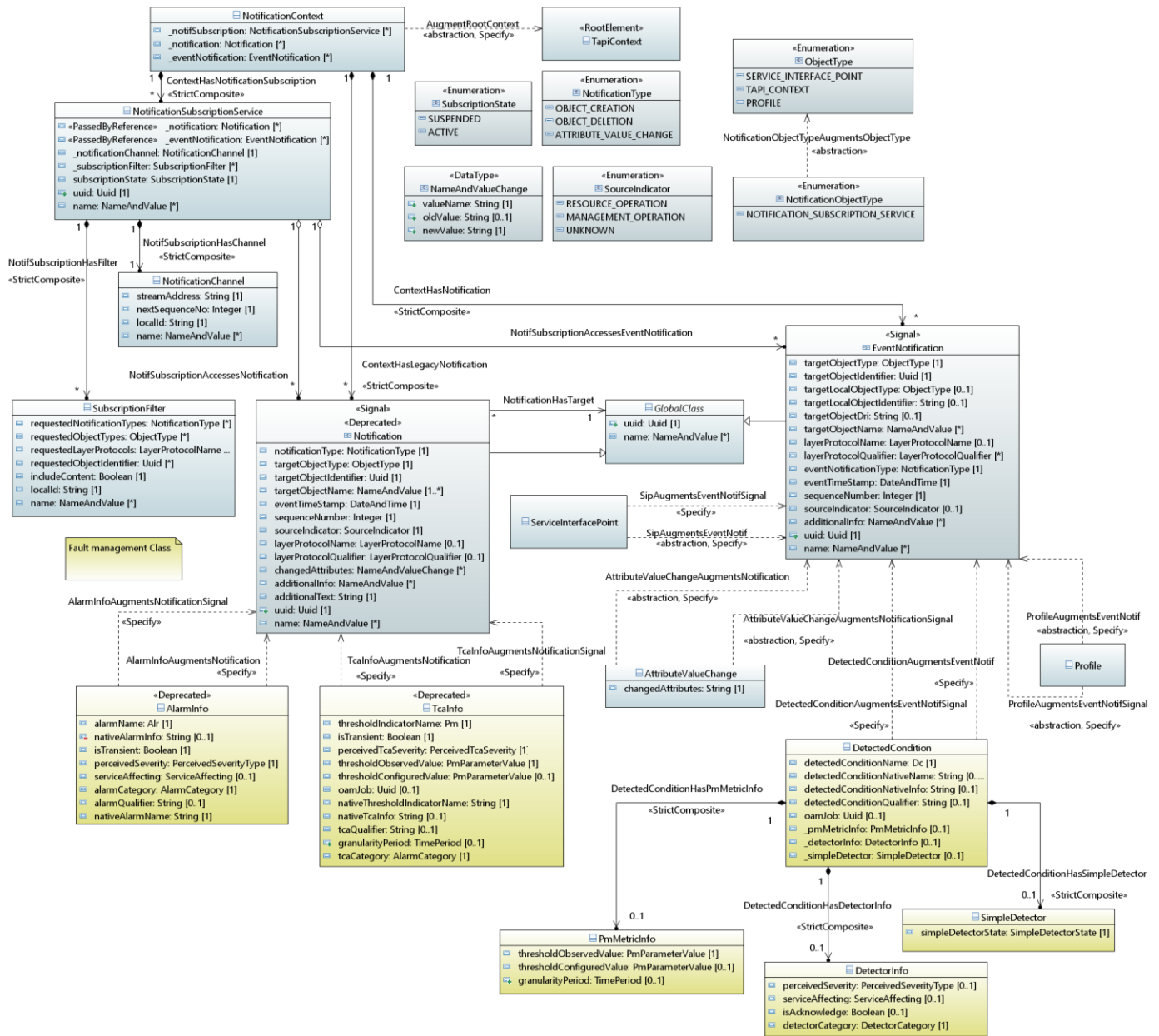


Figure 1 – Diagram *NotificationServiceDetails*

1.2 Classes

1.2.1 AttributeValueChange

Description:

- Object notification related information.

Applied stereotypes:

- OpenInterfaceModelClass

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

| Attribute Name | Type | Mult. | Access | Stereotypes |
|-------------------|--|-------|--------|--|
| changedAttributes | PrimitiveTypes::String | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The list of relevant changed attributes and their values. | | | |

Table 1 – Attributes for class *AttributeValueChange*

1.2.2 NotificationChannel

Description:

- The channel/stream to which the subscribed notifications are published.

Applied stereotypes:

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

| Attribute Name | Type | Mult. | Access | Stereotypes |
|----------------|---|-------|--------|--|
| streamAddress | PrimitiveTypes::String | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The address/location/URI of the channel/stream to which the subscribed notifications are published. The format is typically dependent on the implementation protocol & mechanism and hence is typed as a string. | | | |
| nextSequenceNo | PrimitiveTypes::Integer | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The sequence number of the next notification that will be published on the channel. | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|---|---|-------|--------|--|
| localId Inherited: <i>TapiCommon::ObjectClasses::LocalClass::localId</i> | PrimitiveTypes::String | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY |
| | 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 | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | 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 *NotificationChannel*

1.2.3 NotificationContext

Description:

- This object class represents the scope of control that a particular SDN controller has with respect to a particular network, specifically regarding the notification description. An instance of this class includes its NotificationSubscriptionService, (legacy) Notification and EventNotification instances.

Applied stereotypes:

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

| Attribute Name | Type | Mult. | Access | Stereotypes |
|--|--|-------|--------|--|
| _notifSubscription Navigable association end of: ContextHasNotificationSubscription | NotificationSubscriptionService | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The included NotificationSubscriptionService instances. | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|---|---|-------|--------|--|
| _notification <i>Navigable association end of:</i> ContextHasLegacyNotification | | 0..* | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The included Notification instances. | | | |
| _eventNotification <i>Navigable association end of:</i> ContextHasNotification | | 0..* | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The included Event Notification instances. | | | |

Table 3 – Attributes for class *NotificationContext*

1.2.4 NotificationSubscriptionService

Description:

- A NotificationSubscriptionService represents an "intent-like" request for the notification subscription. The NotificationSubscriptionService is a container for subscription request details.

Applied stereotypes:

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

| Attribute Name | Type | Mult. | Access | Stereotypes |
|--|--|-------|--------|---|
| _notification <i>Navigable association end of:</i> NotifSubscriptionAccessesNotification | | 0..* | R | OpenInterfaceModelAttribute • AVC: NA PassedByReference OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instances associated to this NotificationSubscriptionService instance. | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|--|---|-------|--------|---|
| _eventNotification <i>Navigable association end of:</i> NotifSubscriptionAccessesEventNotification | | 0..* | R | OpenInterfaceModelAttribute • AVC: NA PassedByReference OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The EventNotification instances associated to this NotificationSubscriptionService instance. | | | |
| _notificationChannel <i>Navigable association end of:</i> NotifSubscriptionHasChannel | NotificationChannel | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The NotificationChannel instance of this NotificationSubscriptionService instance. | | | |
| _subscriptionFilter <i>Navigable association end of:</i> NotifSubscriptionHasFilter | SubscriptionFilter | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The SubscriptionFilter instance of this NotificationSubscriptionService instance. | | | |
| subscriptionState | SubscriptionState | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The SubscriptionState value. | | | |
| uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass::uuid</i> | TapiCommon::TypeDefinitions::Uuid | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY |
| | 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 | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|---|---|-------|--------|--|
| name Inherited: <i>TapiCommon::ObjectClasses::GlobalClass::name</i> | TapiCommon::TypeDefinitions::NameAndValue | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | 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 4 – Attributes for class *NotificationSubscriptionService*

1.2.5 SubscriptionFilter

Description:

- A SubscriptionFilter represents an "intent-like" request for the filters of the related notification subscription. The SubscriptionFilter is a container for filter request details.

Applied stereotypes:

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

| Attribute Name | Type | Mult. | Access | Stereotypes |
|----------------------------|---|-------|--------|--|
| requestedNotificationTypes | NotificationType | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The requested NotificationType value(s). | | | |
| requestedObjectTypes | TapiCommon::TypeDefinitions::ObjectType | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The requested ObjectType value(s). | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|--|---|-------|--------|--|
| requestedLayerProtocols | TapiCommon::TypeDefinitions::LayerProtocolName | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The requested layer protocol value(s). | | | |
| requestedObjectIdentifier | TapiCommon::TypeDefinitions::Uuid | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The requested object identifier (UUID) value(s). | | | |
| includeContent | PrimitiveTypes::Boolean | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: Indicates whether the published Notification includes content or just the Notification Id (which enables retrieval of the notification at the later stage). | | | |
| localId Inherited: <i>TapiCommon::ObjectClasses::LocalClass::localId</i> | PrimitiveTypes::String | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY |
| | 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 | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | 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 *SubscriptionFilter*

1.3 Signals

1.3.1 EventNotification

Description:

- The Notification signal. OMG UML(R) Version 2.5.1: "A Signal is a specification of a kind of communication between objects in which a reaction is asynchronously triggered in the receiver without a reply. The data carried by the communication are represented as attributes of the Signal."

Applied stereotypes:

- OpenModelNotification
 - triggerConditionList: invalid
 - support: MANDATORY

| Attribute Name | Type | Mult. | Access | Stereotypes |
|-----------------------------|---|-------|--------|--|
| targetObjectType | TapiCommon::TypeDefinitions::ObjectType | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance (of a global class - with UUID) with this ObjectType value. Alternatively, the Notification is related to the object instance of a local class, whose global object has this ObjectType value. | | | |
| targetObjectIdentifier | TapiCommon::TypeDefinitions::Uuid | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance (of a global class) with this UUID value. Alternatively, the Notification is related to the object instance of a local class, whose global object has this UUID value. | | | |
| targetLocalObjectType | TapiCommon::TypeDefinitions::ObjectType | 0..1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance of a local class, whose global object has targetObjectType value. | | | |
| targetLocalObjectIdentifier | PrimitiveTypes::String | 0..1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance of a local class, whose global object has targetObjectIdentifier value. | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|------------------------|---|-------|--------|---|
| targetObjectDri | PrimitiveTypes::String | 0..1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: Data Resource Identifier of the target object as per RFC 8040. | | | |
| targetObjectName | TapiCommon::TypeDefinitions::NameAndValue | 0..* | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance with this list of names. | | | |
| layerProtocolName | TapiCommon::TypeDefinitions::LayerProtocolName | 0..1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to a resource with this layer protocol value. | | | |
| layerProtocolQualifier | TapiCommon::TypeDefinitions::LayerProtocolQualifier | 0..* | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to a resource with these layer protocol qualifier values. | | | |
| eventNotificationType | NotificationType | 1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The best knowledge of the time of the event which originated this Notification instance. | | | |
| eventTimeStamp | TapiCommon::TypeDefinitions::DateAndTime | 1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The best knowledge of the time of the event which originated this Notification instance. | | | |
| sequenceNumber | PrimitiveTypes::Integer | 1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|---|---|-------|--------|--|
| | Description: A monotonous increasing sequence number associated with the Notification instances. The exact semantics of how this sequence number is assigned (per channel or subscription or source or system) is left undefined. | | | |
| sourceIndicator | SourceIndicator | 0..1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The possible source of this Notification instance. | | | |
| additionalInfo | TapiCommon::TypeDefinitions::NameAndValue | 0..* | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: | | | |
| uuid | TapiCommon::TypeDefinitions::Uuid | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY |
| Inherited: <i>TapiCommon::ObjectClasses::GlobalClass::uuid</i> | 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]{12} Example of a UUID in string representation: f81d4fae-7dec-11d0-a765-00a0c91e6bf6 | | | |
| name | TapiCommon::TypeDefinitions::NameAndValue | 0..* | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| Inherited: <i>TapiCommon::ObjectClasses::GlobalClass::name</i> | 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. | | | |

1.3.2 Notification

Description:

- The Notification signal. OMG UML(R) Version 2.5.1: "A Signal is a specification of a kind of communication between objects in which a reaction is asynchronously triggered in the receiver without a reply. The data carried by the communication are represented as attributes of the Signal."

Applied stereotypes:

- Deprecated
- OpenModelNotification
 - triggerConditionList: invalid

○ support: MANDATORY

| Attribute Name | Type | Mult. | Access | Stereotypes |
|------------------------|---|-------|--------|--|
| notificationType | NotificationType | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification type. | | | |
| targetObjectType | TapiCommon::TypeDefinitions::ObjectType | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance with this ObjectType value. | | | |
| targetObjectIdentifier | TapiCommon::TypeDefinitions::Uuid | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance with this UUID value. | | | |
| targetObjectName | TapiCommon::TypeDefinitions::NameAndValue | 1..* | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to the object instance with this list of names. | | | |
| eventTimeStamp | TapiCommon::TypeDefinitions::DateAndTime | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The best knowledge of the time of the event which originated this Notification instance. | | | |
| sequenceNumber | PrimitiveTypes::Integer | 1 | R | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: A monotonous increasing sequence number associated with the Notification instances. The exact semantics of how this sequence number is assigned (per channel or subscription or source or system) is left undefined. | | | |

| Attribute Name | Type | Mult. | Access | Stereotypes |
|---|---|-------|--------|---|
| sourceIndicator | SourceIndicator | 1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The possible source of this Notification instance. | | | |
| layerProtocolName | TapiCommon::TypeDefinitions::LayerProtocolName | 0..1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to a resource with this layer protocol value. | | | |
| layerProtocolQualifier | TapiCommon::TypeDefinitions::LayerProtocolQualifier | 0..1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The Notification instance is related to a resource with this layer protocol qualifier value. | | | |
| changedAttributes | NameAndValueChange | 0..* | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The list of relevant changed attributes and their values. | | | |
| additionalInfo | TapiCommon::TypeDefinitions::NameAndValue | 0..* | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: Name and value list available for unspecified content. | | | |
| additionalText | PrimitiveTypes::String | 1 | R | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: Text available for unspecified content. | | | |
| uuid Inherited: <i>TapiCommon::ObjectClasses::GlobalClass::uuid</i> | TapiCommon::TypeDefinitions::Uuid | 1 | RW | OpenInterfaceModelAttribute <ul style="list-style-type: none"> • AVC: NA OpenModelAttribute <ul style="list-style-type: none"> • isKey: yes – part: 1 • isInvariant: true • valueRange: no range constraint • support: MANDATORY |

| 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]{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 | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | 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. | | | |

1.4 Associations

1.4.1 ContextHasLegacyNotification

Applied stereotype:

- StrictComposite

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|-------------------------------------|-------|
| _notification | composite | Yes | Notification | 0..* |
| notificationcontext | none | No | NotificationContext | 1 |

Table 6 – Member ends for association *ContextHasLegacyNotification*

1.4.2 ContextHasNotification

Applied stereotype:

- StrictComposite

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|-------------------------------------|-------|
| _eventNotification | composite | Yes | EventNotification | 0..* |
| notificationcontext | none | No | NotificationContext | 1 |

Table 7 – Member ends for association *ContextHasNotification*

1.4.3 ContextHasNotificationSubscription

Applied stereotype:

- StrictComposite

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|---|-------|
| _notifSubscription | composite | Yes | NotificationSubscriptionService | 0..* |
| notificationcontext | none | No | NotificationContext | 1 |

Table 8 – Member ends for association *ContextHasNotificationSubscription*

1.4.4 NotifSubscriptionAccessesEventNotification

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------------|--------------|-----------|---|-------|
| _eventNotification | shared | Yes | EventNotification | 0..* |
| notificationsubscriptionservice | none | No | NotificationSubscriptionService | 1 |

Table 9 – Member ends for association *NotifSubscriptionAccessesEventNotification*

1.4.5 NotifSubscriptionAccessesNotification

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|---|-------|
| _notification | shared | Yes | Notification | 0..* |
| _notifSubscription | none | No | NotificationSubscriptionService | 1 |

Table 10 – Member ends for association *NotifSubscriptionAccessesNotification*

1.4.6 NotifSubscriptionHasChannel

Applied stereotype:

- StrictComposite

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|---|-------|
| _notificationChannel | composite | Yes | NotificationChannel | 1 |
| _notifSubscription | none | No | NotificationSubscriptionService | 1 |

Table 11 – Member ends for association *NotifSubscriptionHasChannel*

1.4.7 NotifSubscriptionHasFilter

Applied stereotype:

- StrictComposite

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|---|-------|
| _subscriptionFilter | composite | Yes | SubscriptionFilter | 0..* |
| _notifSubscription | none | No | NotificationSubscriptionService | 1 |

Table 12 – Member ends for association *NotifSubscriptionHasFilter*

1.4.8 NotificationHasTarget

| Association end role name | Aggreg. type | Navigable | Target Class | Mult. |
|---------------------------|--------------|-----------|--|-------|
| _targetObject | none | Yes | TapiCommon::ObjectClasses::GlobalClass | 1 |
| _notification | none | No | Notification | 0..* |

Table 13 – Member ends for association *NotificationHasTarget*

1.5 Abstractions

1.5.1 AttributeValueChangeAugmentsNotification

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

Table 14 – Member ends for class abstraction *AttributeValueChangeAugmentsNotification*

1.5.2 AttributeValueChangeAugmentsNotificationSignal

| Augmenting Class | Augmented Class | Comment |
|---|--|---------|
| AttributeValueChange | TapiNotification::Notifications::EventNotification | |
| target: "/TapiNotification:Notifications:EventNotification" | | |

Table 15 – Member ends for class abstraction *AttributeValueChangeAugmentsNotificationSignal*

1.5.3 AugmentRootContext

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

Table 16 – Member ends for class abstraction *AugmentRootContext*

1.5.4 NotificationObjectTypeAugmentsObjectType

| Augmenting Enumeration | Augmented Enumeration |
|---|--|
| NotificationObjectType - NOTIFICATION_SUBSCRIPTION_SERVICE | ObjectType - PROFILE - SERVICE_INTERFACE_POINT - TAPI_CONTEXT |
| Comment Enumeration Augment. | |

Table 17 – Member ends for enum abstraction *NotificationObjectTypeAugmentsObjectType*

1.5.5 ProfileAugmentsEventNotif

| Augmenting Class | Augmented Class | Comment |
|---|--|---------|
| TapiCommon::ObjectClasses::Profile | TapiNotification::Notifications::EventNotification | |
| target: "/TapiCommon:Context:_context/TapiNotification:NotificationContext:_notificationContext/TapiNotification:NotificationContext:_eventNotification" | | |

Table 18 – Member ends for class abstraction *ProfileAugmentsEventNotif*

1.5.6 ProfileAugmentsEventNotifSignal

| Augmenting Class | Augmented Class | Comment |
|---|--|---------|
| TapiCommon::ObjectClasses::Profile | TapiNotification::Notifications::EventNotification | |
| target: "/TapiNotification:Notifications:EventNotification" | | |

Table 19 – Member ends for class abstraction *ProfileAugmentsEventNotifSignal*

1.5.7 SipAugmentsEventNotif

| Augmenting Class | Augmented Class | Comment |
|---|--|---------|
| TapiCommon::ObjectClasses::ServiceInterfacePoint | TapiNotification::Notifications::EventNotification | |
| target: "/TapiCommon:Context: context/TapiNotification:NotificationContext: notificationContext/TapiNotification:NotificationContext: eventNotification" | | |

Table 20 – Member ends for class abstraction *SipAugmentsEventNotif*

1.5.8 SipAugmentsEventNotifSignal

| Augmenting Class | Augmented Class | Comment |
|---|--|---------|
| TapiCommon::ObjectClasses::ServiceInterfacePoint | TapiNotification::Notifications::EventNotification | |
| target: "/TapiNotification:Notifications:EventNotification" | | |

Table 21 – Member ends for class abstraction *SipAugmentsEventNotifSignal*

1.6 Data Types

1.6.1 NameAndValueChange

Description:

- A scoped name-value triple, including old value and new value.

| Attribute Name | Type | Mult. | Access | Stereotypes |
|----------------|---|-------|--------|---|
| valueName | PrimitiveTypes::String | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey: yes – part: 1 • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The name of the value. The value need not have a name. | | | |
| oldValue | PrimitiveTypes::String | 0..1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The old value. | | | |
| newValue | PrimitiveTypes::String | 1 | RW | OpenInterfaceModelAttribute • AVC: NA OpenModelAttribute • isKey:No • isInvariant: false • valueRange: no range constraint • support: MANDATORY |
| | Description: The new value. | | | |

Table 22 – Attributes for data type *NameAndValueChange*

1.7 Enumerations

1.7.1 NotificationObjectType

Description:

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

Contains Enumeration Literals:

- NOTIFICATION_SUBSCRIPTION_SERVICE
 - The NotificationSubscriptionService class.

1.7.2 NotificationType

Description:

- List of supported notification types.

Contains Enumeration Literals:

- OBJECT_CREATION
 - The notification of an object instance creation event.

- OBJECT_DELETION
 - The notification of an object instance deletion event.
- ATTRIBUTE_VALUE_CHANGE
 - The notification of an attribute value change event.

1.7.3 SourceIndicator

Description:

- The possible source of the notification.

Contains Enumeration Literals:

- RESOURCE_OPERATION
 - The notification has been raised as a consequence of a generic state change of resource(s) in the managed network.
- MANAGEMENT_OPERATION
 - The notification has been raised as a consequence of a management operation.
- UNKNOWN
 - Unknown source of the notification.

1.7.4 SubscriptionState

Description:

- The SubscriptionState types.

Contains Enumeration Literals:

- SUSPENDED
 - The subscription is suspended.
- ACTIVE
 - The subscription is active.

1.8 Primitives