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# Classes

## CoChannelProfileCapability

Applied stereotypes:

* OpenModelClass
* support: MANDATORY
* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO

Attributes for CoChannelProfileCapability

Table 1: Attributes for CoChannelProfileCapability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| xpicIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | In case this device is in general capable of XPIC, this field shall contain a 'true'. This information shall purely relate to capabilities of the equipment type, but not to the operational capability of a specific hardware composition on site. Means for example that this attribute might contain a 'true' statement, even if an additional cable would have been required to actually operate XPIC in a specific case. |
| mimoIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | In case the device is capable of MIMO, this field shall contain a 'true'. |
| numberOfMimoChannelsMax | Integer  1 | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: channels  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_8\_BIT | Maximum number (n) of spatial multiplexing streams that can be conveyed by an n x n MIMO configuration. |
| alicIsAvail | Boolean  false | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | In case the device is capable of Adjacent Link Interference Cancelation (canceling of interference cause by transmitters located at the same site), this field shall contain a 'true'. |

## CoChannelProfileConfiguration

Applied stereotypes:

* OpenModelClass
* support: MANDATORY
* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO

Attributes for CoChannelProfileConfiguration

Table 2: Attributes for CoChannelProfileConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| externalLabel | String  External label not yet defined. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | Identifier of the instance of CoChannelProfile. Could be a name, could be a number. Free text field to be filled by the operator. |
| kindOfCoChannelProfile | kindOfCoChannelProfileType  NOT\_YET\_DEFINED | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | Type of group (XPIC, MIMO, ALIC) of air interfaces with the same transmit and receive frequency. |
| \_logicalTerminationPointList | LogicalTerminationPoint  ./. | 0..\* | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  PassedByReference  OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA | List of AirInterfaces, which are part of the co-channel group. Referenced LTP must associate a LayerProtocol class with layerProtocolName attribute having LAYER\_PROTOCOL\_NAME\_TYPE\_AIR\_LAYER as value. |

## CoChannelProfileSpec

Applied stereotypes:

* OpenModelClass
* support: MANDATORY
* OpenInterfaceModelClass
* objectCreationNotification: YES
* objectDeletionNotification: YES

Attributes for CoChannelProfileSpec

Table 3: Attributes for CoChannelProfileSpec

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_coChannelProfile\_Pac | CoChannelProfile\_Pac  ./. | 1 | RW | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

## CoChannelProfile\_Pac

Applied stereotypes:

* OpenModelClass
* support: MANDATORY
* OpenInterfaceModelClass
* objectCreationNotification: NO
* objectDeletionNotification: NO

Attributes for CoChannelProfile\_Pac

Table 4: Attributes for CoChannelProfile\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_coChannelProfileCapability | CoChannelProfileCapability  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |
| \_coChannelProfileConfiguration | CoChannelProfileConfiguration  ./. | 1 | R | OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA | See referenced class |

# Data Types

# Enumeration Types

## ProfileNameType

A controlled list of Profile names.

Contains Enumeration Literals:

* PROFILE\_NAME\_TYPE\_CO\_CHANNEL\_PROFILE:

## kindOfCoChannelProfileType

Contains Enumeration Literals:

* XPIC:
  + Cross Polarization Interference Cancellation
* MIMO:
  + Multiple Input Multiple Output
* ALIC:
  + Adjacent Link Interference Cancellation
* NOT\_YET\_DEFINED: