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# Classes

## LldpProtocolSpec

Applied stereotypes:

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

Attributes for LldpProtocolSpec

Table 1: Attributes for LldpProtocolSpec

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

## Lldp\_Pac

Link Layer Discovery Protocol configuration and operational information.

Applied stereotypes:

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

Attributes for Lldp\_Pac

Table 1: Attributes for Lldp\_Pac

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_remoteStatistics | RemoteStatistics  ./. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | LLDP remote operational statistics data. |
| \_localSystemData | LocalSystemData  ./. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY | LLDP local system operational data. |
| messageFastTx | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_16\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: ticks  • support: MANDATORY  Reference | Reasonable values: 1..3600. Time interval in timer ticks between transmissions during fast transmission periods (i.e., txFast is non-zero). |
| messageTxHoldMultiplier | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_8\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Reasonable values: 2..10. Multiplier of msg-tx-interval. |
| messageTxInterval | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_16\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: ticks  • support: MANDATORY  Reference | Reasonable values 1..3600. Time interval in timer ticks between transmissions during normal transmission periods (i.e., txFast is zero). |
| reinitDelay | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_8\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: second  • support: MANDATORY  Reference | Reasonable values 1..10. Amount of delay (in units of seconds) from when admin-status becomes 'disabled' until re-initialization is attempted. |
| txCreditMax | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_8\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Reasonable values 1..10. The maximum number of consecutive LLDPDUs that can be transmitted at any time. |
| txFastInit | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_8\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Reasonable values 1..8. Initial value for the fast transmitting LLDPPDU. |
| notificationInterval | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: LENGTH\_16\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: second  • support: MANDATORY  Reference | Reasonable values 1..3600. Controls the transmission of LLDP notifications. |
| portList | PortType  ./. | 0..\* | RW | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit:  • support: MANDATORY | LLDP configuration information for a particular port. |

## LocalSystemData

LLDP local system operational data.

Applied stereotypes:

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

Attributes for LocalSystemData

Table 1: Attributes for LocalSystemData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| chassisIdSubtype | ChassisIdSubtypeType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | The type of encoding used to identify the chassis associated with the local system. |
| chassisId | String  Chassis ID not yet defined. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Reasonable length: 1 .. 255. Chassis component associated with the local system. The format of a chassis identifier string. Objects of this type are always used with an associated lldp-chassis-is-subtype object, which identifies the format of the particular lldp-chassis-id object instance. If the associated lldp-chassis-id-subtype object has a value of chassis-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a chassis component (i.e., an entPhysicalClass value of chassis(3)). If the associated lldp-chassis-id-subtype object has a value of interface-alias, then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863) for an interface on the containing chassis. If the particular ifAlias object does not contain any values, another chassis identifier type should be used.If the associated lldp-chassis-id-subtype object has a value of port-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a port or backplane component within the containing chassis. If the associated lldp-chassis-id-subtype object has a value of mac-address, then this string identifies a particular unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001. If the associated lldp-chassis-id-subtype object has a value of network-address, then this string identifies a particular network address, encoded in network byte order, associated with one or more ports on the containing chassis. The first octet contains the IANA Address Family Numbers enumeration value for the specific address type, and octets 2 through N contain the network address value in network byte order. If the associated lldp-chassis-id-subtype object has a value of interface-name, then the octet string identifies a particular instance of the ifName object (defined in IETF RFC 2863) for an interface on the containing chassis. If the particular ifName object does not contain any values, another chassis identifier type should be used. If the associated lldp-chassis-id-subtype object has a value of local, then this string identifies a locally assigned Chassis ID. |
| systemName | String  System name not yet defined. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Reasonable length: 0 .. 255. System name of the local system. |
| systemDescription | String  System description not yet defined. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Reasonable length: 0 .. 255. System description of the local system. |
| systemCapabilitiesSupported | SystemCapabilitiesMapType  ./. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: true  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | System capabilities are supported on the local system. |
| systemCapabilitiesEnabled | SystemCapabilitiesMapType  ./. | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | System capabilities that are enabled on the local system. |

## RemoteStatistics

Applied stereotypes:

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

Attributes for RemoteStatistics

Table 1: Attributes for RemoteStatistics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| lastChangeTime | DateTime  2010-11-20T14:00:00+01:00 | 1 | R | OpenInterfaceModelAttribute  • AVC: YES  • bitLength: NA  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | Date and time of the latest change. Name in ieee802-dot1ab-lldp: last-change-time |
| remoteInserts | Integer  -1 | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_32\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: table entries  • support: MANDATORY  Reference | The number of times the complete set of information advertised by a particular MSAP has been inserted into tables contained in remote-systems-data and lldpExtensions objects. |
| remoteDeletes | Integer  -1 | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_32\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: table entries  • support: MANDATORY  Reference | The number of times the complete set of information advertised by a particular MSAP has been deleted from tables contained in remote-systems-data and lldpExtensions objects. |
| remoteDrops | Integer  -1 | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_32\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: table entries  • support: MANDATORY  Reference | The number of times the complete set of information advertised by a particular MSAP could not be entered into tables contained in remote-systems-data and lldpExtensions objects because of insufficient resources. |
| remoteAgeouts | Integer  -1 | 1 | R | OpenInterfaceModelAttribute  • AVC: NO  • bitLength: LENGTH\_32\_BIT  OpenModelAttribute  • partOfObjectKey: 0  • isInvariant: false  • valueRange: no range constraint  • unit: no unit defined  • support: MANDATORY  Reference | The number of times the complete set of information advertised by a particular MSAP has been deleted from tables contained in remote-systems-data and lldpExtensions objects because the information timeliness interval has expired. |

# Data Types

## ManagementAddressTxPortType

controls selection of LLDP management address TLV instances to be transmitted on individual port/destination address pairs.

Applied Stereotypes:

Attributes for ManagementAddressTxPortType

Table 1: Attributes for ManagementAddressTxPortType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| addressSubtype | AddressFamilyType  ./. | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | "Type of address. |
| manAddress | IpAddress  ./. | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 2 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Management address associated with this TLV. |
| txEnable | Boolean  false | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Transmission enabled status. |
| addrLen | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Length of the management address subtype and the management address fields in LLDPDUs transmitted by the local LLDP agent. |
| ifSubtype | ManAddrIfSubtypeType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Interface numbering method used for defining the interface number, associated with the local system. |
| ifId | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Interface number for the management address component associated with the local system. |

## ManagementAddressType

Applied Stereotypes:

Attributes for ManagementAddressType

Table 1: Attributes for ManagementAddressType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| addressSubtype | AddressFamilyType  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Management address identifier encoding. |
| address | IpAddress  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 2 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Management address component associated with the remote system. |
| ifSubtype | ManAddrIfSubtypeType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Interface numbering method used for defining the interface number, associated with the remote system. |
| ifId | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Interface number regarding the management address component associated with the remote system. |

## PortType

Link Layer Discovery Protocol configuration and operational information.

Applied Stereotypes:

Attributes for PortType

Table 1: Attributes for PortType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| \_name | LogicalTerminationPoint  ./. | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   PassedByReference  OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | The port name used to identify the port component (contained in the local chassis with the LLDP agent) associated with this entry. |
| destMacAddress | MacAddress  ./. | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 2 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Destination MAC address. The ieee:mac-address type has a pattern that allows upper and lower case letters. To avoid issues with string comparison, it is suggested to only use upper case for the letters in the hexadecimal numbers. Implementers using code comparing MAC addresses should note that there is still an issue with a difference between the IETF mac-address definition and the IEEE mac-address definition. |
| adminStatus | AdminStatusType  NOT\_YET\_DEFINED | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Administrative status of the local LLDP agent. |
| notificationEnable | Boolean  false | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Notification status. |
| tlvsTxEnable | TlvsTxEnableBitsType  ./. | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | LLDP TLVs whose transmission is allowed on the local LLDP agent by the network management. |
| messageFastTx | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_16\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: ticks * support: MANDATORY   Reference | Reasonable values: 1..3600. Time interval in timer ticks between transmissions during fast transmission periods (i.e., txFast is non-zero). |
| messageTxHoldMultiplier | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_8\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values: 2..10. Multiplier of msg-tx-interval. |
| messageTxInterval | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_16\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: ticks * support: MANDATORY   Reference | Reasonable values 1..3600. Time interval in timer ticks between transmissions during normal transmission periods (i.e., txFast is zero). |
| reinitDelay | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_8\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: second * support: MANDATORY   Reference | Reasonable values 1..10. Amount of delay (in units of seconds) from when admin-status becomes 'disabled' until re-initialization is attempted. |
| txCreditMax | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_8\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values 1..10. The maximum number of consecutive LLDPDUs that can be transmitted at any time. |
| txFastInit | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_8\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values 1..8. Initial value for the fast transmitting LLDPPDU. |
| notificationInterval | Integer  -1 | 1 | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: LENGTH\_16\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: second * support: MANDATORY   Reference | Reasonable values 1..3600. Controls the transmission of LLDP notifications. |
| managementAddressTxPortList | ManagementAddressTxPortType  ./. | 0..\* | RW | OpenInterfaceModelAttribute   * AVC: YES * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Set of ports (represented as a PortList) on which the local system management address instance will be transmitted. |
| portIdSubtype | PortIdSubtypeType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Port identifier encoding used in the associated 'port-id' object. |
| portId | String  Port ID not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable length: 1 .. 255. Port component associated with a given port in the local system. The format of a port identifier string. Objects of this type are always used with an associated port-id-subtype object, which identifies the format of the particular lldp-port-id object instance. If the associated port-id-subtype object has a value of interface-alias, then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863). If the particular ifAlias object does not contain any values, another port identifier type should be used. If the associated port-id-subtype object has a value of port-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a port or backplane component. If the associated port-id-subtype object has a value of mac-address, then this string identifies a particular unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order) associated with the port (IEEE Std 802-2001). If the associated port-id-subtype object has a value of network-address, then this string identifies a network address associated with the port. The first octet contains the IANA AddressFamilyNumbers enumeration value for the specific address type, and octets 2 through N contain the networkAddress address value in network byte order. If the associated port-id-subtype object has a value of interface-name, then the octet string identifies a particular instance of the ifName object (defined in IETF RFC 2863). If the particular ifName object does not contain any values, another port identifier type should be used. If the associated port-id-subtype object has a value of agent-circuit-id, then this string identifies a agent-local identifier of the circuit (defined in RFC 3046). If the associated port-id-subtype object has a value of local, then this string identifies a locally assigned port ID. |
| portDesc | String  Port description not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable length: 0 .. 255. 802 LAN station's port description associated with the local system. |
| txStatistics | TxStatisticsContainerType  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | LLDP frame transmission statistics for a particular port. |
| rxStatistics | RxStatisticsContainerType  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | LLDP frame reception statistics for a particular port. |
| remoteSystemsDataList | RemoteSystemsDataType  ./. | 0..\* | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Information about a particular physical network connection. |

## RemoteOrgDefinedInfoType

Applied Stereotypes:

Attributes for RemoteOrgDefinedInfoType

Table 1: Attributes for RemoteOrgDefinedInfoType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| infoIdentifier | Integer  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values: 0 .. 16777215. The Organizationally Unique Identifier (OUI) or Company ID (CID). |
| infoSubtype | Integer  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_16\_BIT   OpenModelAttribute   * partOfObjectKey: 2 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values: 1 .. 255. The subtype of the organizationally defined information received from the remote system. |
| infoIndex | Integer  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 3 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Reasonable values: 1..2147483647. Arbitrary local integer value. |
| remoteInfo | String  Remote info not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Representation of 0 .. 507 bits. The organizationally defined information of the remote system. |

## RemoteSystemsDataType

Applied Stereotypes:

Attributes for RemoteSystemsDataType

Table 1: Attributes for RemoteSystemsDataType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| timeMark | Integer  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | A TimeFilter for this entry. Non-negative integer that represents the time, modulo 2^32 (4294967296 decimal), in hundredths of a second between two epochs. In the value set and its semantics, this integer is equivalent to the TimeTicks type of the SMIv2. |
| remoteIndex | Integer  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 2 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values: 1 .. 2147483647. Represents an arbitrary local integer value used to identify a remote system. |
| remoteTooManyNeighbors | Boolean  false | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Indicates that there are too many neighbors as determined by the variable tooManyNeighbors. |
| remoteChanges | Boolean  false | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Indicates that there are changes in the remote system's data, as determined by the variable remoteChanges. |
| chassisIdSubtype | ChassisIdSubtypeType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Identify the chassis associated with the remote system. |
| chassisId | String  Chassis ID not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Identify the chassis component associated with the remote system. The format of a chassis identifier string. Objects of this type are always used with an associated lldp-chassis-is-subtype object, which identifies the format of the particular lldp-chassis-id object instance. If the associated lldp-chassis-id-subtype object has a value of chassis-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a chassis component (i.e., an entPhysicalClass value of chassis(3)). If the associated lldp-chassis-id-subtype object has a value of interface-alias, then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863) for an interface on the containing chassis. If the particular ifAlias object does not contain any values, another chassis identifier type should be used.If the associated lldp-chassis-id-subtype object has a value of port-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a port or backplane component within the containing chassis. If the associated lldp-chassis-id-subtype object has a value of mac-address, then this string identifies a particular unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001. If the associated lldp-chassis-id-subtype object has a value of network-address, then this string identifies a particular network address, encoded in network byte order, associated with one or more ports on the containing chassis. The first octet contains the IANA Address Family Numbers enumeration value for the specific address type, and octets 2 through N contain the network address value in network byte order. If the associated lldp-chassis-id-subtype object has a value of interface-name, then the octet string identifies a particular instance of the ifName object (defined in IETF RFC 2863) for an interface on the containing chassis. If the particular ifName object does not contain any values, another chassis identifier type should be used. If the associated lldp-chassis-id-subtype object has a value of local, then this string identifies a locally assigned Chassis ID. |
| portIdSubtype | PortIdSubtypeType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | The type of port identifier encoding used in the associated 'port-id' object. |
| portDesc | String  Port description not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable length: 0 .. 255. Description of the given port associated with the remote system. |
| portId | String  Port ID not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Port component associated with the remote system. The format of a port identifier string. Objects of this type are always used with an associated port-id-subtype object, which identifies the format of the particular lldp-port-id object instance. If the associated port-id-subtype object has a value of interface-alias, then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863). If the particular ifAlias object does not contain any values, another port identifier type should be used. If the associated port-id-subtype object has a value of port-component, then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a port or backplane component. If the associated port-id-subtype object has a value of mac-address, then this string identifies a particular unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order) associated with the port (IEEE Std 802-2001). If the associated port-id-subtype object has a value of network-address, then this string identifies a network address associated with the port. The first octet contains the IANA AddressFamilyNumbers enumeration value for the specific address type, and octets 2 through N contain the networkAddress address value in network byte order. If the associated port-id-subtype object has a value of interface-name, then the octet string identifies a particular instance of the ifName object (defined in IETF RFC 2863). If the particular ifName object does not contain any values, another port identifier type should be used. If the associated port-id-subtype object has a value of agent-circuit-id, then this string identifies a agent-local identifier of the circuit (defined in RFC 3046). If the associated port-id-subtype object has a value of local, then this string identifies a locally assigned port ID. |
| systemName | String  System name not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable length: 0 .. 255. System name of the remote system. |
| systemDescription | String  System description not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable length: 0 .. 255. System description of the remote system. |
| systemCapabilitiesSupported | SystemCapabilitiesMapType  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Capabilities that are supported on the remote system. |
| systemCapabilitiesEnabled | SystemCapabilitiesMapType  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | System capabilities that are enabled on the remote system. |
| managementAddressList | ManagementAddressType  ./. | 0..\* | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Management address information about a particular chassis component. |
| remoteUnknownTlvList | RemoteUnknownTlvType  ./. | 0..\* | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Information about an unrecognized TLV received from a physical network connection. Entries may be created and deleted in this table by the agent, if a physical topology discovery process is active. |
| remoteOrgDefinedInfoList | RemoteOrgDefinedInfoType  ./. | 0..\* | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Information about the unrecognized organizationally defined information advertised by the remote system. |

## RemoteUnknownTlvType

Applied Stereotypes:

Attributes for RemoteUnknownTlvType

Table 1: Attributes for RemoteUnknownTlvType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| tlvType | Integer  ./. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_8\_BIT   OpenModelAttribute   * partOfObjectKey: 1 * isInvariant: true * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Reasonable values: 9..126. Type of TLV. |
| tlvInfo | String  TLV info not yet defined. | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY   Reference | Representation of 0 .. 511 bits. Value extracted from TLV. |

## RxStatisticsContainerType

Applied Stereotypes:

Attributes for RxStatisticsContainerType

Table 1: Attributes for RxStatisticsContainerType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| totalAgeouts | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: ageout * support: MANDATORY   Reference | A count of the times that a neighbor's information is deleted because of rxInfoTTL timer expiration. |
| totalDiscardedFrames | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: frame * support: MANDATORY   Reference | A count of all LLDPDUs received and then discarded. |
| errorFrames | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: frame * support: MANDATORY   Reference | A count of all LLDPDUs received at the port with one or more detectable errors. |
| totalFrames | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: frame * support: MANDATORY   Reference | A count of all LLDP frames received at the port. |
| totalDiscardedTlvs | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: tlvs * support: MANDATORY   Reference | A count of all TLVs received at the port and discarded for any reason. |
| totalUnrecognizedTlvs | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: tlvs * support: MANDATORY   Reference | A count of all TLVs not recognized by the receiving LLDP local agent. |

## SystemCapabilitiesMapType

This describes system capabilities.

Applied Stereotypes:

* Reference

Attributes for SystemCapabilitiesMapType

Table 1: Attributes for SystemCapabilitiesMapType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| other | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 0. System has capabilities other than those listed below. |
| repeater | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 1. System has repeater capability. |
| bridge | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 2. System has bridge capability. |
| wlanAccessPoint | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 3. System has WLAN access point capability. |
| router | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 4. System has router capability. |
| telephone | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 5. System has telephone capability. |
| docsisCableDevice | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 6. System has DOCSIS Cable Device capability (IETF RFC 4639). |
| stationOnly | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 7. System has only station capability. |
| cvlanComponent | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 8. System has C-VLAN component functionality. |
| svlanComponent | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 9. System has S-VLAN component functionality. |
| twoPortMacRelay | CapabilityValueType  NOT\_YET\_DEFINED | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 10. System has Two-port MAC Relay (TPMR) functionality. |

## TlvsTxEnableBitsType

Applied Stereotypes:

Attributes for TlvsTxEnableBitsType

Table 1: Attributes for TlvsTxEnableBitsType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| portDesc | Boolean  false | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 0. Transmit 'Port Description TLV'. |
| sysName | Boolean  false | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 1. Transmit 'System Name TLV'. |
| sysDesc | Boolean  false | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 2. Transmit 'System Description TLV'. |
| sysCap | Boolean  false | 1 | RW | OpenInterfaceModelAttribute   * AVC: NO * bitLength: NA   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: no unit defined * support: MANDATORY | Position 3. Transmit 'System Capabilities TLV'. |

## TxStatisticsContainerType

Applied Stereotypes:

Attributes for TxStatisticsContainerType

Table 1: Attributes for TxStatisticsContainerType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Multiplicity** | **Access** | **Stereotypes** | **Description** |
| totalFrames | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: frame * support: MANDATORY   Reference | A count of all LLDP frames transmitted through the port. |
| totalLengthErrors | Integer  -1 | 1 | R | OpenInterfaceModelAttribute   * AVC: NO * bitLength: LENGTH\_32\_BIT   OpenModelAttribute   * partOfObjectKey: 0 * isInvariant: false * valueRange: no range constraint * unit: error * support: MANDATORY   Reference | A count of all LLDP length errors detected when constructing LLPDU frames for transmission through the port. |

# Enumeration Types

## AddressFamilyType

Base identity from which identities describing address families are derived.

Contains Enumeration Literals:

* IPV4:
  + This identity represents IPv4 address family.
* IPV6:
  + This identity represents IPv6 address family.
* NOT\_YET\_DEFINED:

## AdminStatusType

Contains Enumeration Literals:

* TX\_ONLY:
  + Value 1. Transmit LLDP frames only.
* RX\_ONLY:
  + Value 2. Receive LLDP frames only.
* TX\_AND\_RX:
  + Value 3. Transmit and Receive LLDP frames.
* DISABLED:
  + Value 4. Do Not Transmit or Receive LLDP frames.
* NOT\_YET\_DEFINED:

## CapabilityValueType

Contains Enumeration Literals:

* TRUE:
* FALSE:
* NOT\_YET\_DEFINED:

## ChassisIdSubtypeType

The source of a chassis identifier.

Contains Enumeration Literals:

* CHASSIS\_COMPONENT:
  + Represents a chassis identifier based on the value of entPhysicalAlias object (defined in IETF RFC 2737) for a chassis component (i.e., an entPhysicalClass value of chassis(3))
* INTERFACE\_ALIAS:
  + Represents a chassis identifier based on the value of ifAlias object (defined in IETF RFC 2863) for an interface on the containing chassis.
* PORT\_COMPONENT:
  + Represents a chassis identifier based on the value of entPhysicalAlias object (defined in IETF RFC 2737) for a port or backplane component (i.e., entPhysicalClass value of port(10) or backplane(4)), within the containing chassis.
* MAC\_ADDRESS:
  + Represents a chassis identifier based on the value of a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std 802-2001.
* NETWORK\_ADDRESS:
  + Represents a chassis identifier based on a network address, associated with a particular chassis. The encoded address is actually composed of two fields. The first field is a single octet, representing the IANA AddressFamilyNumbers value for the specific address type, and the second field is the network address value.
* INTERFACE\_NAME:
  + Represents a chassis identifier based on the value of ifName object (defined in IETF RFC 2863) for an interface on the containing chassis.
* LOCAL:
  + Represents a chassis identifier based on a locally defined value.
* NOT\_YET\_DEFINED:

## ManAddrIfSubtypeType

Management address interface subtype.

Contains Enumeration Literals:

* UNKNOWN:
  + Value 1. Interface is not known.
* PORT\_REF:
  + Value 2. Interface based on the port-ref MIB object.
* SYSTEM\_PORT\_NUMBER:
  + Value 3. Interface based on the system port number.
* NOT\_YET\_DEFINED:

## PortIdSubtypeType

The source of a particular type of port identifier used in the LLDP YANG module.

Contains Enumeration Literals:

* INTERFACE\_ALIAS:
  + Value 1. Represents a port identifier based on the ifAlias MIB object, defined in IETF RFC 2863.
* PORT\_COMPONENT:
  + Value 2. Represents a port identifier based on the value of entPhysicalAlias (defined in IETF RFC 2737) for a port component (i.e., entPhysicalClass value of port(10)), within the containing chassis.
* MAC\_ADDRESS:
  + Value 3. Represents a port identifier based on a unicast source address (encoded in network byte order and IEEE 802.3 canonical bit order), which has been detected by the agent and associated with a particular port (IEEE Std 802-2001).
* NETWORK\_ADDRESS:
  + Value 4. Represents a port identifier based on a network address, detected by the agent and associated with a particular port.
* INTERFACE\_NAME:
  + Value 5. Represents a port identifier based on the ifName MIB object, defined in IETF RFC 2863.
* AGENT\_CIRCUIT\_ID:
  + Value 6. Represents a port identifier based on the agent-local identifier of the circuit (defined in RFC 3046), detected by the agent and associated with a particular port.
* LOCAL:
  + Value 7. Represents a port identifier based on a value locally assigned.
* NOT\_YET\_DEFINED:

## ProtocolNameType

A controlled list of Protocol names.

Contains Enumeration Literals:

* LLDP: