

	<p>chassis identifier based on the value of entPhysicalAlias object (defined in IETF RFC 2737) for a for backplane component (i.e., entPhysicalClass value of 'backplane(4)'), within the containing chassis.</p>	<p>chassis identifier based on the value of entPhysicalAlias for backplane component (i.e., entPhysicalClass value of 'backplane(4)'), within the containing chassis.</p>
85		
90	<p>The enumeration 'macAddress(5)' represents a chassis identifier based on the value of a unicast source MAC address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std. 802-2001.</p>	<p>The enumeration 'macAddress(5)' represents a chassis identifier based on the value of a unicast source MAC address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis.</p>
95		
100	<p>The enumeration 'networkAddress(6)' 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.</p>	<p>The enumeration 'networkAddress(6)' 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.</p>
105		
110	<p>The enumeration 'ifName(7)' represents a chassis identifier based on the value of ifName object (defined in IETF RFC 2863) for an interface on the containing chassis.</p>	<p>The enumeration 'local(7)' represents a chassis identifier based on a locally defined value.</p>
115	<p>The enumeration 'local(8)' represents a chassis identifier based on a locally defined value.</p>	<p>SYNTAX INTEGER { entPhysicalAlias(1), ifAlias(2), portEntPhysicalAlias(3), backplaneEntPhysicalAlias(4), macAddress(5), networkAddress(6), ifName(7), local(8) }</p>
120	<p>LldpChassisId ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "This TC describes the format of a chassis identifier string. Objects of this type are always used with an associated LldpChassisIdType object, which identifies the format of the particular LldpChassisId object instance."</p>	<p>SYNTAX INTEGER { entPhysicalAlias(1), ifAlias(2), portEntPhysicalAlias(3), backplaneEntPhysicalAlias(4), macAddress(5), networkAddress(6), local(7) }</p>
125		
130	<p>If the associated ChassisIdType object has a value of 'entPhysicalAlias(1)', 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)').</p>	<p>LldpChassisId ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "This TC describes the format of a chassis identifier string. Objects of this type are always used with an associated LldpChassisIdType object, which identifies the format of the particular LldpChassisId object instance."</p>
135	<p>If the associated LldpChassisIdType object has a value of 'ifAlias(2)', then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863) for an interface on the containing chassis.</p>	<p>If the associated ChassisIdType object has a value of 'entPhysicalAlias(1)', then the octet string identifies a particular instance of the entPhysicalAlias object for a chassis component (i.e., an entPhysicalClass value of 'chassis(3)').</p>
140	<p>If the associated LldpChassisIdType object has a value of 'portEntPhysicalAlias(3)', then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a port component within the containing chassis.</p>	<p>If the associated LldpChassisIdType object has a value of 'ifAlias(2)', then the octet string identifies a particular instance of the ifAlias object for an interface on the containing chassis.</p>
145	<p>If the associated LldpChassisIdType object has a value of 'backplaneEntPhysicalAlias(4)', then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for the backplane component within the containing chassis.</p>	<p>If the associated ChassisIdType object has a value of 'portEntPhysicalAlias(3)', then the octet string identifies a particular instance of the entPhysicalAlias object for a port component within the containing chassis.</p>
150	<p>If the associated ChassisIdType object has a value of 'macAddress(5)', then this string identifies a particular unicast source MAC address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis as defined in IEEE Std. 802-2001.</p>	<p>If the associated LldpChassisIdType object has a value of 'backplaneEntPhysicalAlias(4)', then the octet string identifies a particular instance of the entPhysicalAlias object for the backplane component within the containing chassis.</p>
155	<p>If the associated ChassisIdType object has a value of 'networkAddress(6)', 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.</p>	<p>If the associated ChassisIdType object has a value of 'macAddress(5)', then this string identifies a particular unicast source MAC address (encoded in network byte order and IEEE 802.3 canonical bit order), of a port on the containing chassis.</p>
160	<p>If the associated LldpChassisIdType object has a value of 'networkAddress(6)', 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.</p>	<p>If the associated ChassisIdType object has a value of 'networkAddress(6)', 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.</p>
	<p>If the associated LldpChassisIdType object has a value of</p>	<p><</p>

<p>165 'ifName(7)', then the octet string identifies a particular instance of the ifName object (defined in IETF RFC 2863) for an interface on the containing chassis.</p> <p>170 If the associated ChassisIdType object has a value of 'local(8)', then this string identifies a locally assigned Chassis ID."</p> <p>SYNTAX OCTET STRING (SIZE (1..255))</p> <p>LldpPortIdType ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "This TC describes the source of a particular type of port identifier used in the LLDP MIB.</p> <p>180 The enumeration 'ifAlias(1)' represents a port identifier based on the ifAlias MIB object, defined in IETF RFC 2863.</p> <p>185 The enumeration 'portEntPhysicalAlias(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.</p> <p>190 The enumeration 'backplaneEntPhysicalAlias(3)' represents a port identifier based on the value of entPhysicalAlias object (defined in IETF RFC 2737) for a backplane component (i.e., entPhysicalClass value of 'backplane(4)'), within the containing chassis.</p> <p>195 The enumeration 'macAddress(4)' represents a port identifier based on a unicast source MAC 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).</p> <p>200 The enumeration 'networkAddress(5)' represents a port identifier based on a network address, detected by the agent and associated with a particular port.</p> <p>205 The enumeration 'agentCircuitId(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.</p> <p>210 The enumeration 'ifName(7)' represents a port identifier based on the ifName MIB object, defined in IETF RFC 2863.</p> <p>215 The enumeration 'local(8)' represents a port identifier based on a value locally assigned."</p> <p>SYNTAX INTEGER { ifAlias(1), portEntPhysicalAlias(2), backplaneEntPhysicalAlias(3), macAddress(4), networkAddress(5), agentCircuitId(6), ifName(7), local(8) }</p> <p>225 LldpPortId ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "This TC describes the format of a port identifier string. Objects of this type are always used with an associated LldpPortIdType object, which identifies the format of the particular LldpPortId object instance.</p> <p>230 If the associated LldpPortIdType object has a value of 'ifAlias(1)', then the octet string identifies a particular instance of the ifAlias object (defined in IETF RFC 2863).</p> <p>235 If the associated LldpPortIdType object has a value of 'portEntPhysicalAlias(2)', then the octet string identifies a particular instance of the entPhysicalAlias object (defined in IETF RFC 2737) for a port component (i.e., entPhysicalClass value of 'port(10)').</p> <p>240 If the associated LldpPortIdType object has a value of 'backplaneEntPhysicalAlias(3)', then the octet string identifies a particular instance of the entPhysicalAlias</p>	<p>< < < <</p> <p>If the associated ChassisIdType object has a value of 'local(7)', then this string identifies a locally assigned Chassis ID."</p> <p>SYNTAX OCTET STRING (SIZE (1..255))</p> <p>LldpPortIdType ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "This TC describes the source of a particular type of port identifier used in the LLDP MIB.</p> <p>The enumeration 'ifAlias(1)' represents a port identifier based on the ifAlias MIB object.</p> <p>The enumeration 'portEntPhysicalAlias(2)' represents a port identifier based on the value of entPhysicalAlias for a port component (i.e., entPhysicalClass value of 'port(10)'), within the containing chassis.</p> <p>The enumeration 'backplaneEntPhysicalAlias(3)' represents a port identifier based on the value of entPhysicalAlias for a backplane component (i.e., entPhysicalClass value of 'backplane(4)'), within the containing chassis.</p> <p>The enumeration 'macAddress(4)' represents a port identifier based on a unicast source MAC address, which has been detected by the agent and associated with a particular port.</p> <p>The enumeration 'networkAddress(5)' represents a port identifier based on a network address, detected by the agent and associated with a particular port.</p> <p>The enumeration 'local(6)' represents a port identifier based on a value locally assigned."</p> <p>SYNTAX INTEGER { ifAlias(1), portEntPhysicalAlias(2), backplaneEntPhysicalAlias(3), macAddress(4), networkAddress(5), local(6) }</p> <p>LldpPortId ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "This TC describes the format of a port identifier string. Objects of this type are always used with an associated LldpPortIdType object, which identifies the format of the particular LldpPortId object instance.</p> <p>If the associated LldpPortIdType object has a value of 'ifAlias(1)', then the octet string identifies a particular instance of the ifAlias object.</p> <p>If the associated LldpPortIdType object has a value of 'portEntPhysicalAlias(2)', then the octet string identifies a particular instance of the entPhysicalAlias object for a port component (i.e., entPhysicalClass value of 'port(10)').</p> <p>If the associated LldpPortIdType object has a value of 'backplaneEntPhysicalAlias(3)', then the octet string identifies a particular instance of the entPhysicalAlias</p>
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	<p>object (defined in IETF RFC 2737) for a backplane component (i.e., entPhysicalClass value of 'port(4)').</p> <p>If the associated LldpPortIdType object has a value of 'macAddr(4)', then this string identifies a particular unicast source MAC address (encoded in network byte order and IEEE 802.3 canonical bit order) associated with the port (IEEE Std. 802-2001).</p> <p>If the associated LldpPortIdType object has a value of 'networkAddress(5)', 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.</p> <p>If the associated LldpPortIdType object has a value of 'agentCircuitId(6)', then this string identifies a agent-local identifier of the circuit (defined in RFC 3046).</p> <p>If the associated LldpPortIdType object has a value of 'ifName(7)', then the octet string identifies a particular instance of the ifName object (defined in IETF RFC 2863).</p> <p>If the associated LldpPortIdType object has a value of 'local(8)', then this string identifies a locally assigned port ID."</p>	<p>entPhysicalAlias object for a backplane component (i.e., entPhysicalClass value of 'port(4)').</p> <p>If the associated LldpPortIdType object has a value of 'macAddr(4)', then this string identifies a particular unicast source MAC address associated with the port.</p> <p>If the associated LldpPortIdType object has a value of 'networkAddress(5)', 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.</p> <p>If the associated LldpPortIdType object has a value of 'local(6)', then this string identifies a locally assigned port ID."</p>
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275	<p>SYNTAX OCTET STRING (SIZE (1..255))</p> <p>LldpManAddrIfSubtype ::= TEXTUAL-CONVENTION</p> <p>STATUS current</p> <p>DESCRIPTION "This TC describes the basis of a particular type of interface associated with the management address.</p> <p>The enumeration 'unknown(1)' represents the case where the interface is not known.</p> <p>The enumeration 'ifIndex(2)' represents interface identifier based on the ifIndex MIB object.</p> <p>The enumeration 'systemPortNumber(3)' represents interface identifier based on the system port numbering convention."</p> <p>REFERENCE "IEEE 802.1AB/D8 section 9.4.9.5"</p> <p>SYNTAX INTEGER { unknown(1), ifIndex(2), systemPortNumber(3) }</p>	<p>SYNTAX OCTET STRING (SIZE (1..255))</p> <p>LldpManAddrIfSubtype ::= TEXTUAL-CONVENTION</p> <p>STATUS current</p> <p>DESCRIPTION "This TC describes the basis of a particular type of management address interface used in the LLDP MIB.</p> <p>The enumeration 'unknown(1)' represents the case where the interface is not known.</p> <p>The enumeration 'ifIndex(2)' represents interface identifier based on the ifIndex MIB object.</p> <p>The enumeration 'systemPortNumber(3)' represents interface identifier based on the system port numbering convention."</p> <p>SYNTAX INTEGER { unknown(1), ifIndex(2), systemPortNumber(3) }</p>
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300	<p>LldpManAddress ::= TEXTUAL-CONVENTION</p> <p>STATUS current</p> <p>DESCRIPTION "The value of a management address associated with the LLDP agent that may be used to reach higher layer entities to assist discovery by network management.</p> <p>It should be noted that appropriate security credentials, such as SNMP engineID, may be required to access the LLDP agent using a management address. These necessary credentials should be known by the network management and the objects associated with the credentials are not included in the LLDP agent."</p> <p>SYNTAX OCTET STRING (SIZE (1..31))</p>	<p>LldpManAddress ::= TEXTUAL-CONVENTION</p> <p>STATUS current</p> <p>DESCRIPTION "The value of a management address."</p> <p>SYNTAX OCTET STRING (SIZE (1..31))</p>
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315	<p>LldpSystemCapabilitiesMap ::= TEXTUAL-CONVENTION</p> <p>STATUS current</p> <p>DESCRIPTION "This TC describes the system capabilities.</p> <p>The bit 'other(0)' indicates that the system has capabilities other than those listed below.</p> <p>The bit 'repeater(1)' indicates that the system has repeater capability.</p> <p>The bit 'bridge(2)' indicates that the system has bridge capability.</p>	<p>LldpSystemCapabilitiesMap ::= TEXTUAL-CONVENTION</p> <p>STATUS current</p> <p>DESCRIPTION "This TC describes the system capabilities.</p> <p>The bit 'repeater(0)' indicates that the system has repeater capability.</p> <p>The bit 'bridge(1)' indicates that the system has bridge capability.</p>
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<p>330 The bit 'accessPoint(3)' indicates that the system has access point capability.</p> <p>335 The bit 'router(4)' indicates that the system has router capability.</p> <p>340 The bit 'telephone(5)' indicates that the system has telephone capability.</p> <p>345 The bit 'wirelessStation(6)' indicates that the system has wireless Station capability.</p> <p>350 The bit 'stationOnly(7)' indicates that the system has only station capability and nothing else."</p> <p>SYNTAX BITS { other(0), repeater(1), bridge(2), accessPoint(3), router(4), telephone(5), wirelessStation(6), stationOnly(7) }</p> <p>355 LldpPortNumber ::= TEXTUAL-CONVENTION DISPLAY-HINT "d" STATUS current DESCRIPTION "Each port contained in the chassis (that is known to the LLDP agent) is uniquely identified by a port number.</p> <p>360 A port number has no mandatory relationship to an InterfaceIndex object (of the interfaces MIB, IETF RFC 2683). However, if interfaces MIB is present, a port number has the same value as the corresponding interface's InterfaceIndex object.</p> <p>365 Port numbers should be in the range of 1 and 4096 since a particular port is also represented by the corresponding port number bit in LldpPortList."</p> <p>370 SYNTAX Integer32(1..4096)</p> <p>375 LldpPortList ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8, the second octet specifying ports 9 through 16, etc. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Thus, each port of the system is represented by a single bit within the value of this object. If that bit has a value of '1' then that port is included in the set of ports; the port is not included if its bit has a value of '0'."</p> <p>380 REFERENCE "RFC 2674, Section 5" SYNTAX OCTET STRING(SIZE(0..512))</p> <p>-- -- ***** -- L L D P C O N F I G -- ***** -- 390 lldpMessageTxInterval OBJECT-TYPE SYNTAX Integer32(5..32768) UNITS "seconds" 400 MAX-ACCESS read-write STATUS current DESCRIPTION "The interval at which LLDP frames are transmitted on behalf of this LLDP agent.</p> <p>405 The default value for lldpMessageTxInterval object is 30 seconds.</p> <p>410 The value of this object must be restored from non-volatile storage after a re-initialization of the management system."</p>	<p>330 The bit 'accessPoint(2)' indicates that the system has access point capability.</p> <p>335 The bit 'router(3)' indicates that the system has router capability.</p> <p>340 The bit 'telephone(4)' indicates that the system has telephone capability.</p> <p>345 The bit 'wirelessStation(5)' indicates that the system has wireless Station capability.</p> <p>350 The bit 'stationOnly(6)' indicates that the system has only station capability and nothing else."</p> <p>SYNTAX BITS { repeater(0), bridge(1), accessPoint(2), router(3), telephone(4), wirelessStation(5), stationOnly(6) }</p> <p>355 LldpPortNumber ::= TEXTUAL-CONVENTION DISPLAY-HINT "d" STATUS current DESCRIPTION "Each port contained in the chassis (that is known to the LLDP agent) is uniquely identified by a port number.</p> <p>360 A port number has no mandatory relationship to an interface number (of the interfaces MIB.) However, if interfaces MIB is present, it is strongly recommended that a port number has the same value as the corresponding interface's interface number.</p> <p>365 Port numbers are in the range (1..1024) since a particular port is also represented by the corresponding port number bit in LldpPortList. For more information about the LldpPortList, please refer to 'LldpPortList' TC description." SYNTAX Integer32(1..1024)</p> <p>370 LldpPortList ::= TEXTUAL-CONVENTION STATUS current DESCRIPTION "Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8, the second octet specifying ports 9 through 16, etc. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Thus, each port of the system is represented by a single bit within the value of this object. If that bit has a value of '1' then that port is included in the set of ports; the port is not included if its bit has a value of '0'." REFERENCE "description is taken from RFC 2674, Section 5" SYNTAX OCTET STRING</p> <p>-- -- ***** -- L L D P C O N F I G -- ***** -- 390 lldpMessageTxInterval OBJECT-TYPE SYNTAX Integer32(5..32768) UNITS "seconds" 400 MAX-ACCESS read-write STATUS current DESCRIPTION "The interval at which LLDP frames are transmitted on behalf of this LLDP agent.</p> <p>405 The default value for lldpMessageTxInterval object is 30 seconds.</p> <p>410 If the agent is capable of storing non-volatile configuration, then the value of this object must be restored</p>
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REFERENCE
  "IEEE 802.1AB/D8 section 10.5.5.3"
DEFVAL { 30 }
 ::= { lldpConfiguration 1 }

415 lldpMessageTxHoldMultiplier OBJECT-TYPE
SYNTAX Integer32(2..10)
MAX-ACCESS read-write
420 STATUS current
DESCRIPTION
  "The time-to-live value expressed as a multiple of the
  lldpMessageTxInterval object. The actual time-to-live value
  used in LLDP frames, transmitted on behalf of this LLDP agent,
  can be expressed by the following formula: TTL = min(65535,
  (lldpMessageTxInterval * lldpMessageTxHoldMultiplier)) For
  example, if the value of lldpMessageTxInterval is '30', and
  the value of lldpMessageTxHoldMultiplier is '4', then the
  value '120' is encoded in the TTL field in the LLDP header.

430 The default value for lldpMessageTxHoldMultiplier object is 4.

435 The value of this object must be restored from non-volatile
storage after a re-initialization of the management system."
440 REFERENCE
  "IEEE 802.1AB/D8 section 10.5.5.3"
DEFVAL { 4 }
 ::= { lldpConfiguration 2 }

445 lldpReinitDelay OBJECT-TYPE
SYNTAX Integer32(1..10)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "The lldpReinitDelay indicates the delay (in units
  of seconds) from when adminStatus becomes 'disable' until
  re-initialization will be attempted.

450 The default value for lldpReinitDelay object is one second.

455 The value of this object must be restored from non-volatile
storage after a re-initialization of the management system."
460 REFERENCE
  "IEEE 802.1AB/D8 section 10.5.3.3"
DEFVAL { 1 }
 ::= { lldpConfiguration 3 }

465 lldpTxDelay OBJECT-TYPE
SYNTAX Integer32(1..8192)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "The lldpTxDelay indicates the delay (in units
  of seconds) between successive LLDP frame transmissions
  initiated by value/status changes in the LLDP local systems
  MIB. The recommended value for the lldpTxDelay is set by the
  following formula:

  1 <= lldpTxDelay <= (0.25 * lldpMessageTxInterval)

470 The default value for lldpTxDelay object is 2 seconds.

475 The value of this object must be restored from non-volatile
storage after a re-initialization of the management system."
480 REFERENCE
  "IEEE 802.1AB/D8 section 10.5.3.3"
DEFVAL { 2 }
 ::= { lldpConfiguration 4 }

485 lldpNotificationInterval OBJECT-TYPE
SYNTAX Integer32(5..3600)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "This object controls the transmission of LLDP notifications.

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> after a re-initialization of the management system."

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REFERENCE
  "IEEE 802.1AB/D8 section 10.5.5.3"
DEFVAL { 30 }
 ::= { lldpConfiguration 1 }

495 lldpMessageTxHoldMultiplier OBJECT-TYPE
SYNTAX Integer32(2..10)
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "The time-to-live value expressed as a multiple of the
  lldpMessageTxInterval object. The actual time-to-live value
  used in LLDP frames, transmitted on behalf of this LLDP agent,
  can be expressed by the following formula: TTL = min(65535,
  (lldpMessageTxInterval * lldpMessageTxHoldMultiplier)) For
  example, if the value of lldpMessageTxInterval is '30', and
  the value of lldpMessageTxHoldMultiplier is '4', then the
  value '120' is encoded in the TTL field in the LLDP header.

500 The default value for lldpMessageTxHoldMultiplier object is 4.

505 If the agent is capable of storing non-volatile configuration,
then the value of this object must be restored after a
re-initialization of the management system."
510 REFERENCE
  "IEEE 802.1AB/D8 section 10.5.5.3"
DEFVAL { 4 }
 ::= { lldpConfiguration 2 }

515 lldpReinitDelay OBJECT-TYPE
SYNTAX Integer32(1..10)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "The lldpReinitDelay indicates the delay (in units
  of seconds) from when adminStatus becomes 'disable' until
  re-initialization will be attempted.

520 The default value for lldpReinitDelay object is one second.

525 If the agent is capable of storing non-volatile configuration,
then the value of this object must be restored after a
re-initialization of the management system."
530 REFERENCE
  "IEEE 802.1AB/D8 section 10.5.3.3"
DEFVAL { 1 }
 ::= { lldpConfiguration 3 }

535 lldpTxDelay OBJECT-TYPE
SYNTAX Integer32(1..8192)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "The lldpTxDelay indicates the delay (in units
  of seconds) between successive LLDP frame transmissions
  initiated by value/status changes in the LLDP local systems
  MIB. The recommended value for the lldpTxDelay is set by the
  following formula:

  1 <= lldpTxDelay <= (0.25 * lldpMessageTxInterval)

540 The default value for lldpTxDelay object is 2 seconds.

545 If the agent is capable of storing non-volatile configuration,
then the value of this object must be restored after a
re-initialization of the management system."
550 REFERENCE
  "IEEE 802.1AB/D8 section 10.5.3.3"
DEFVAL { 2 }
 ::= { lldpConfiguration 4 }

555 lldpNotificationInterval OBJECT-TYPE
SYNTAX Integer32(0 .. 5..3600)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "This object controls the transmission of LLDP notifications.

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495      the agent must not generate more than one lldpRemTablesChange
        notification-event in the indicated period, where a
        'notification-event' is the transmission of a single
        notification PDU type to a list of notification destinations.
        If additional changes in lldpRemoteSystemsData object
        groups occur within the indicated throttling period,
        then these trap- events must be suppressed by the
        agent. An NMS should periodically check the value of
        lldpStatsRemTableLastChangeTime to detect any missed
        lldpRemTablesChange notification-events, e.g. due to
500
505      throttling or transmission loss.
510      If notification transmission is enabled for particular ports,
        the suggested default throttling period is 5 seconds.
515      The value of this object must be restored from non-volatile
        storage after a re-initialization of the management system."
        DEFVAL { 5 }
520      ::= { lldpConfiguration 5 }

-- lldpPortConfigTable: LLDP configuration on a per port basis
-- lldpPortConfigTable OBJECT-TYPE
525      SYNTAX   SEQUENCE OF LldpPortConfigEntry
      MAX-ACCESS not-accessible
      STATUS    current
      DESCRIPTION
        "The table that controls LLDP frame transmission on individual
        ports."
        ::= { lldpConfiguration 6 }

lldpPortConfigEntry OBJECT-TYPE
535      SYNTAX   LldpPortConfigEntry
      MAX-ACCESS not-accessible
      STATUS    current
      DESCRIPTION
        "LLDP configuration information for a particular port.
        The port must be contained in the same chassis as the LLDP
        agent. This configuration parameter controls the transmission
        and the reception of LLDP frames on those ports whose rows
        are created in this table."
        INDEX { lldpPortConfigPortNum }
        ::= { lldpPortConfigTable 1 }

540      LldpPortConfigEntry ::= SEQUENCE {
        lldpPortConfigPortNum      LldpPortNumber,
        lldpPortConfigAdminStatus  INTEGER,
        lldpPortConfigNotificationEnable TruthValue,
        lldpPortConfigTLVsTxEnable  BITS }

545      lldpPortConfigPortNum OBJECT-TYPE
        SYNTAX   LldpPortNumber
        MAX-ACCESS not-accessible
        STATUS    current
        DESCRIPTION
          "The index value used to identify the port component
          (contained in the local chassis with the LLDP agent)
          associated with this entry.

550          The value of this object is used as a port index to the
          lldpPortConfigTable."
          ::= { lldpPortConfigEntry 1 }

555      lldpPortConfigAdminStatus OBJECT-TYPE
        SYNTAX  INTEGER {
          txOnly(1),
          rxOnly(2),
          txAndRx(3),
          disabled(4)
        }
        MAX-ACCESS read-write
        STATUS   current
        DESCRIPTION

```

If this object has a value of zero, then no lldpRemTablesChange notifications will be transmitted by the agent.

If this object has a non-zero value, then the agent must not generate more than one lldpRemTablesChange notification-event in the indicated period, where a 'notification-event' is the transmission of a single notification PDU type to a list of notification destinations. If additional changes in lldpRemoteSystemsData object groups occur within the indicated throttling period, then these trap- events must be suppressed by the agent. An NMS should periodically check the value of lldpStatsRemTableLastChangeTime to detect any missed lldpRemTablesChange notification-events, e.g. due to throttling or transmission loss.

If notification transmission is enabled, the suggested default throttling period is 5 seconds, but transmission should be disabled by default.

If the agent is capable of storing non-volatile configuration, then the value of this object must be restored after a re-initialization of the management system."

DEFVAL { 0 }
 ::= { lldpConfiguration 5 }

-- lldpPortConfigTable: lldp configuration on a per port basis
-- lldpPortConfigTable OBJECT-TYPE
 SYNTAX SEQUENCE OF LldpPortConfigEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The table that controls LLDP frame transmission on individual
 ports."
 ::= { lldpConfiguration 6 }

lldpPortConfigEntry OBJECT-TYPE
 SYNTAX LldpPortConfigEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "LLDP configuration information for a particular port.
 The port must be contained in the same chassis as the LLDP
 agent. This configuration parameter controls the transmission
 and the reception of LLDP frames on those ports whose rows
 are created in this table."
 INDEX { lldpPortConfigPortNum }
 ::= { lldpPortConfigTable 1 }

 LldpPortConfigEntry ::= SEQUENCE {
 lldpPortConfigPortNum LldpPortNumber,
 lldpPortConfigAdminStatus INTEGER,
 lldpPortConfigTLVsTxEnable BITS }

560 lldpPortConfigPortNum OBJECT-TYPE
 SYNTAX LldpPortNumber
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The index value used to identify the port component
 (contained in the local chassis with the LLDP agent)
 associated with this entry.

 The value of this object is used as a port index to the
 lldpPortConfigTable."
 ::= { lldpPortConfigEntry 1 }

565 lldpPortConfigAdminStatus OBJECT-TYPE
 SYNTAX INTEGER {
 txOnly(1),
 rxOnly(2),
 txAndRx(3),
 disabled(4)
 }
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION

<p>575 "The administratively desired status of the local LLDP agent.</p> <p>580 If the associated lldpPortConfigAdminStatus object has a value of 'txOnly(1)', then LLDP agent will transmit LLDP frames on this port and it will not store any information about the remote systems connected.</p> <p>585 If the associated lldpPortConfigAdminStatus object has a value of 'rxOnly(2)', then the LLDP agent will receive, but it will not transmit LLDP frames on this port.</p> <p>590 If the associated lldpPortConfigAdminStatus object has a value of 'txAndRx(3)', then the LLDP agent will transmit and receive LLDP frames on this port.</p> <p>595 If the associated lldpPortConfigAdminStatus object has a value of 'disabled(4)', then LLDP agent will not transmit or receive LLDP frames on this port. If there is remote systems information which is received on this port and stored in other tables, before the port's lldpPortConfigAdminStatus becomes disabled, then the information will naturally age out."</p> <p>REFERENCE "IEEE 802.1AB/D8 section 9.5.1" DEFVAL { 3 } ::= { lldpPortConfigEntry 2 }</p> <p>600 lldpPortConfigNotificationEnable OBJECT-TYPE SYNTAX TruthValue MAX-ACCESS read-write STATUS current DESCRIPTION "The lldpPortConfigNotificationEnable controls, on a per port basis, whether or not notifications from the agent are enabled. The value true(1) means that notifications are enabled; the value false(2) means that they are not." REFERENCE "IEEE 802.1AB/D8 section 9.5.1" DEFVAL { 2 } ::= { lldpPortConfigEntry 3 }</p> <p>615 lldpPortConfigTLVsTxEnable OBJECT-TYPE SYNTAX BITS { portDesc(0), sysName(1), sysDesc(2), sysCap(3) } MAX-ACCESS read-write STATUS current DESCRIPTION "The lldpPortConfigTLVsTxEnable, defined as a bitmap, includes the basic set of LLDP TLVs whose transmission is allowed on the local LLDP agent by the network management. Each bit in the bitmap corresponds to a TLV type associated with a specific optional TLV. 630 It should be noted that the organizationally defined TLVs are excluded from the lldpTLVsTxEnable bitmap. 635 LLDP Organization Specific Information Extension MIBs should have similar configuration object to control transmission of their organizationally defined TLVs. 640 The bit 'portDesc(0)' indicates that LLDP agent should transmit 'Port Description TLV'. 645 The bit 'sysName(1)' indicates that LLDP agent should transmit 'System Name TLV'. 650 The bit 'sysDesc(2)' indicates that LLDP agent should transmit 'System Description TLV'. 655 The bit 'sysCap(3)' indicates that LLDP agent should transmit 'System Capabilities TLV'. There is no bit reserved for the management address TLV type since transmission of management address TLVs are controlled by another object, lldpConfigManAddrTable. 655 The default value for lldpPortConfigTLVsTxEnable object is empty set, which means no enumerated values are set.</p>	<p>575 "The administratively desired status of the local LLDP agent.</p> <p>580 If the associated lldpPortConfigAdminStatus object has a value of 'txOnly(1)', then this port will transmit LLDP frames only and it will not store any information about the remote systems connected.</p> <p>585 If the associated lldpPortConfigAdminStatus object has a value of 'rxOnly(2)', then this port will receive LLDP frames only.</p> <p>590 If the associated lldpPortConfigAdminStatus object has a value of 'txAndRx(3)', then this port will transmit and receive LLDP frames.</p> <p>595 If the associated lldpPortConfigAdminStatus object has a value of 'disabled(4)', then this port will not transmit or receive LLDP frames."</p> <p>REFERENCE "IEEE 802.1AB/D8 section 9.5.1" DEFVAL { 3 } ::= { lldpPortConfigEntry 2 }</p> <p>600 lldpPortConfigTLVsTxEnable OBJECT-TYPE SYNTAX BITS { portDesc(0), sysName(1), sysDesc(2), sysCap(3) } MAX-ACCESS read-write STATUS current DESCRIPTION "The lldpTLVsTxEnable, defined as a bitmap, includes the basic set of LLDP TLVs whose transmission is allowed on the local LLDP agent by the network management. Each bit in the bitmap corresponds to a TLV type associated with a specific optional TLV. 630 It should be noted that the organizationally defined TLVs are excluded from the lldpTLVsTxEnable bitmap. 635 LLDP Organization Specific Information Extension MIBs should have similar configuration object to control transmission of their organizationally defined TLVs. 640 The bit 'portDesc(0)' indicates that LLDP agent should transmit 'Port Description TLV'. 645 The bit 'sysName(1)' indicates that LLDP agent should transmit 'System Name TLV'. 650 The bit 'sysDesc(2)' indicates that LLDP agent should transmit 'System Description TLV'. 655 The bit 'sysCap(3)' indicates that LLDP agent should transmit 'System Capabilities TLV'. There is no bit reserved for the management address TLV type since transmission of management address TLVs are controlled by another object, lldpConfigManAddrTable. 655 If the agent is capable of storing non-volatile configuration, then the value of this object must be restored after a re-initialization of the management system."</p>
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The value of this object must be restored from non-volatile
storage after a re-initialization of the management system."

  "IEEE 802.1AB/D8 section 10.2.1.1"

  { {} }
  ::= { lldpPortConfigEntry 4 }

665 -- lldpManAddrConfigTxPortsTable : selection of management addresses
-- to be transmitted on a specified set
-- of ports.
--
670 lldpConfigManAddrTable OBJECT-TYPE
  SYNTAX SEQUENCE OF LldpConfigManAddrEntry
  MAX-ACCESS not-accessible
  STATUS current

  "The table that controls selection of LLDP management address
  TLV instances to be transmitted on individual ports."
  ::= { lldpConfiguration 7 }

680 lldpConfigManAddrEntry OBJECT-TYPE
  SYNTAX LldpConfigManAddrEntry
  MAX-ACCESS not-accessible
  STATUS current

  "LLDP configuration information that specifies the set
  of ports (represented as a PortList) on which the local
  system management address instance will be transmitted.

685 This configuration object augments the lldpLocManAddrEntry,
therefore it is only present along with the management
address instance contained in the associated
lldpLocManAddrEntry entry.

690 Each active lldpConfigManAddrEntry must be restored from
non-volatile and re-created (along with the corresponding
lldpLocManAddrEntry) after a re-initialization of the
management system."
AUGMENTS { lldpLocManAddrEntry }
  ::= { lldpConfigManAddrTable 1 }

700 LldpConfigManAddrEntry ::= SEQUENCE {
  lldpConfigManAddrPortsTxEnable LldpPortList
}

705 lldpConfigManAddrPortsTxEnable OBJECT-TYPE
  SYNTAX LldpPortList
  MAX-ACCESS read-write
  STATUS current

  "A set of ports that are identified by a PortList, in which
  each port is represented as a bit. The corresponding local
  system management address instance will be transmitted on
  the member ports of the lldpManAddrPortsTxEnable."

  "IEEE 802.1AB/D8 section 10.2.1.1"
  ::= { lldpConfigManAddrEntry 1 }

720 ****
721 --          L L D P      S T A T S
722 ****
723 -- LLDP Stats Group

724 lldpStatsRemTablesLastChangeTime OBJECT-TYPE
  SYNTAX TimeStamp
  MAX-ACCESS read-only
  STATUS current

  "The value of sysUpTime object (defined in IETF RFC 3418)
  at the time an entry is created, modified, or deleted in the
  in tables associated with the lldpRemoteSystemsData objects
  and all LLDP extension objects associated with remote systems.

735 An NMS can use this object to reduce polling of the

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REFERENCE
 "IEEE 802.1AB/D8 section 10.2.1.1"

 { { portDesc, sysName, sysDesc, sysCap } }
 ::= { lldpPortConfigEntry 3 }

-- lldpManAddrConfigTxPortsTable : selection of management addresses
-- to be transmitted on a specified set
-- of ports.

-- lldpConfigManAddrTable OBJECT-TYPE
 SYNTAX SEQUENCE OF LldpConfigManAddrEntry
 MAX-ACCESS not-accessible
 STATUS current
 "The table that controls selection of LLDP management address
 TLV instances to be transmitted on individual ports."
 ::= { lldpConfiguration 7 }

lldpConfigManAddrEntry OBJECT-TYPE
 SYNTAX LldpConfigManAddrEntry
 MAX-ACCESS not-accessible
 STATUS current
 "LLDP configuration information that specifies the set
 of ports (represented as a PortList) on which the local
 system management address instance will be transmitted.

This configuration object augments the lldpLocManAddrEntry,
therefore it is only present along with the management
address instance contained in the associated
lldpLocManAddrEntry entry.

If the agent is capable of storing non-volatile configuration,
then each active lldpManAddrConfigTxPortsEntry must be
re-created (along with the corresponding lldpLocManAddrEntry)
after a re-initialization of the management system."
AUGMENTS { lldpLocManAddrEntry }
 ::= { lldpConfigManAddrTable 1 }

LldpConfigManAddrEntry ::= SEQUENCE {
 lldpConfigManAddrPortsTxEnable LldpPortList
}

lldpConfigManAddrPortsTxEnable OBJECT-TYPE
 SYNTAX LldpPortList
 MAX-ACCESS read-write
 STATUS current
 "A set of ports that are identified by a PortList, in which
 each port is represented as a bit. The corresponding local
 system management address instance will be transmitted on
 the member ports of the lldpManAddrPortsTxEnable."
 "IEEE 802.1AB/D8 section 10.2.1.1"
 ::= { lldpConfigManAddrEntry 1 }

-- ****
-- L L D P S T A T S
-- ****
-- LLDP Stats Group

lldpStatsRemTablesLastChangeTime OBJECT-TYPE
 SYNTAX TimeStamp
 MAX-ACCESS read-only
 STATUS current
 "The value of sysUpTime at the time an entry is created,
 modified, or deleted in the in tables associated with the
 lldpRemoteSystemsData objects and all LLDP extension objects
 associated with remote systems.

An NMS can use this object to reduce polling of the

```

    lldpRemoteSystemsData objects."
740 ::= { lldpStatistics 1 }

    lldpStatsRemTablesInserts OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "table entries"
745 MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times an entry has been inserted into tables
         associated with the lldpRemoteSystemsData objects and all
         LLDP extension objects associated with remote systems."
750 ::= { lldpStatistics 2 }

    lldpStatsRemTablesDeletes   OBJECT-TYPE
    SYNTAX      Counter32
755 UNITS       "table entries"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times an entry has been deleted from tables
         associated with the lldpRemoteSystemsData objects and all
         LLDP extension objects associated with remote systems."
760 ::= { lldpStatistics 3 }

765 lldpStatsRemTablesDrops   OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "table entries"
    MAX-ACCESS  read-only
770 STATUS      current
    DESCRIPTION
        "The number of times a new entry could not be created in the
         tables associated with the lldpRemoteSystemsData objects
         and all LLDP extension objects associated with the remote
         systems because of insufficient resources."
775 ::= { lldpStatistics 4 }

    lldpStatsRemTablesAgeouts   OBJECT-TYPE
    SYNTAX      Counter32
780 MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times an entry has been deleted from tables
         associated with the lldpRemoteSystemsData objects and all
         LLDP extension objects associated with remote systems because
         the information timeliness interval for those entries have
         expired."
785 ::= { lldpStatistics 5 }

790 lldpStatsPortTable   OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpStatsPortEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table containing LLDP statistics for individual ports.
         Entries are not required to exist in this table while the
         lldpPortConfigEntry object is equal to 'disabled(4)'."
795 ::= { lldpStatistics 6 }

800 lldpStatsPortEntry   OBJECT-TYPE
    SYNTAX      LldpStatsPortEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "LLDP frame statistics for a particular port. The port
         must be contained in the same chassis as the LLDP agent.
805

        All counter values in a particular entry shall be
        maintained on a continuing basis and shall not be deleted
        upon expiration of rxInfoTTL timing counters in the LLDP
        remote systems MIB of the receipt of a shutdown frame from
        a remote LLDP agent.
810

        All statistical counters associated with a particular
        port on the local LLDP agent become frozen whenever the
        adminStatus is disabled for the same port."
815 INDEX { lldpStatsPortNum }
        ::= { lldpStatsPortTable 1 }

820 LldpStatsPortEntry ::= SEQUENCE {

```

```

    lldpRemoteSystemsData objects."
    ::= { lldpStatistics 1 }

    lldpStatsRemTablesNumInserts OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "table entries"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times an entry has been inserted into tables
         associated with the lldpRemoteSystemsData objects and all
         LLDP extension objects associated with remote systems."
    ::= { lldpStatistics 2 }

    lldpStatsRemTablesNumDeletes   OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "table entries"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times an entry has been deleted from tables
         associated with the lldpRemoteSystemsData objects and all
         LLDP extension objects associated with remote systems."
    ::= { lldpStatistics 3 }

765 lldpStatsRemTablesNumDrops   OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "table entries"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times a new entry could not be created in the
         tables associated with the lldpRemoteSystemsData objects
         and all LLDP extension objects associated with the remote
         systems because of insufficient resources."
    ::= { lldpStatistics 4 }

    lldpStatsRemTablesNumAgeouts   OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times an entry has been deleted from tables
         associated with the lldpRemoteSystemsData objects and all
         LLDP extension objects associated with remote systems because
         the information timeliness interval for those entries have
         expired."
    ::= { lldpStatistics 5 }

790 lldpStatsPortTable   OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpStatsPortEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table containing LLDP statistics for individual ports.
         Entries are not required to exist in this table while the
         lldpPortConfigEntry object is equal to 'disabled(4)'."
795 ::= { lldpStatistics 6 }

800 lldpStatsPortEntry   OBJECT-TYPE
    SYNTAX      LldpStatsPortEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "LLDP frame statistics for a particular port. The port
         must be contained in the same chassis as the LLDP agent.
805

        All statistical counter values in a particular entry shall be
        maintained on a continuing basis and shall not be deleted
        upon expiration of rxInfoTTL timing counters in the LLDP
        remote systems MIB of the receipt of a shutdown frame from
        a remote LLDP agent.
810

        All statistical counters associated with a particular
        port on the local LLDP agent become frozen whenever the
        adminStatus is disabled for the same port."
815 INDEX { lldpStatsPortNum }
        ::= { lldpStatsPortTable 1 }

820 LldpStatsPortEntry ::= SEQUENCE {

```

<pre> 825 lldpStatsPortNum LldpPortNumber, 826 lldpStatsPortFramesDiscardedTotal Counter32, 827 lldpStatsPortFramesInErrors Counter32, 828 lldpStatsPortFramesInTotal Counter32, 829 lldpStatsPortFramesOutTotal Counter32, 830 lldpStatsPortTLVsInErrors Counter32, 831 lldpStatsPortTLVsDiscardedTotal Counter32, 832 lldpStatsPortTLVsUnrecognizedTotal Counter32, 833 lldpStatsPortCounterDisconTime TimeStamp, 834 lldpStatsPortNumAgeouts Counter32 835 } 836 lldpStatsPortNum OBJECT-TYPE 837 SYNTAX LldpPortNumber 838 MAX-ACCESS not-accessible 839 STATUS current 840 DESCRIPTION 841 "The index value used to identify the port component 842 (contained in the local chassis with the LLDP agent) 843 associated with this entry. 844 The value of this object is used as a port index to the 845 lldpStatsTable." 846 ::= { lldpStatsPortEntry 1 } 847 lldpStatsPortFramesDiscardedTotal OBJECT-TYPE 848 SYNTAX Counter32 849 MAX-ACCESS read-only 850 STATUS current 851 DESCRIPTION 852 "The number of LLDP frames received by this LLDP agent on 853 the indicated port, and then discarded for any reason. 854 This counter can provide an indication that LLDP header 855 formating problems may exist with the local LLDP agent in 856 the sending system or that LLDPDU validation problems may 857 exist with the local LLDP agent in the receiving system. 858 Discontinuities in the value of this counter can occur at 859 re-initialization of the management system, and at other times 860 as indicated by the value of lldpCounterDiscontinuityTime." 861 REFERENCE 862 "IEEE 802.1AB/D8 section 11.4.2" 863 ::= { lldpStatsPortEntry 2 } 864 lldpStatsPortFramesInErrors OBJECT-TYPE 865 SYNTAX Counter32 866 MAX-ACCESS read-only 867 STATUS current 868 DESCRIPTION 869 "The number of invalid LLDP frames received by this LLDP 870 agent on the indicated port, while this LLDP agent is enabled. 871 Discontinuities in the value of this counter can occur at 872 re-initialization of the management system, and at other times 873 as indicated by the value of lldpCounterDiscontinuityTime." 874 REFERENCE 875 "IEEE 802.1AB/D8 section 11.4.2" 876 ::= { lldpStatsPortEntry 3 } 877 lldpStatsPortFramesInTotal OBJECT-TYPE 878 SYNTAX Counter32 879 MAX-ACCESS read-only 880 STATUS current 881 DESCRIPTION 882 "The number of valid LLDP frames received by this LLDP agent 883 on the indicated port, while this LLDP agent is enabled. 884 Discontinuities in the value of this counter can occur at 885 re-initialization of the management system, and at other times 886 as indicated by the value of lldpCounterDiscontinuityTime." 887 REFERENCE 888 "IEEE 802.1AB/D8 section 11.4.2" 889 ::= { lldpStatsPortEntry 4 } 890 lldpStatsPortFramesOutTotal OBJECT-TYPE 891 SYNTAX Counter32 892 MAX-ACCESS read-only 893 STATUS current 894 DESCRIPTION 895 "The number of LLDP frames transmitted by this LLDP agent 896 on the indicated port. </pre>	<pre> 825 lldpStatsPortNum LldpPortNumber, 826 lldpStatsPortFramesDiscardedTotal Counter32, 827 lldpStatsPortFramesInErrors Counter32, 828 lldpStatsPortFramesInTotal Counter32, 829 lldpStatsPortFramesOutTotal Counter32, 830 lldpStatsPortTLVsInErrors Counter32, 831 lldpStatsPortTLVsDiscardedTotal Counter32, 832 lldpStatsPortTLVsUnrecognizedTotal Counter32, 833 lldpStatsPortCounterDisconTime TimeStamp, 834 lldpStatsPortNumAgeouts Counter32 835 } 836 lldpStatsPortNum OBJECT-TYPE 837 SYNTAX LldpPortNumber 838 MAX-ACCESS not-accessible 839 STATUS current 840 DESCRIPTION 841 "The index value used to identify the port component 842 (contained in the local chassis with the LLDP agent) 843 associated with this entry. 844 The value of this object is used as a port index to the 845 lldpStatsTable." 846 ::= { lldpStatsPortEntry 1 } 847 lldpStatsPortFramesDiscardedTotal OBJECT-TYPE 848 SYNTAX Counter32 849 MAX-ACCESS read-only 850 STATUS current 851 DESCRIPTION 852 "The number of LLDP frames received by this LLDP agent on 853 the indicated port, and then discarded for any reason. 854 This counter can provide an indication that LLDP header 855 formating problems may exist with the local LLDP agent in 856 the sending system or that LLDPDU validation problems may 857 exist with the local LLDP agent in the receiving system. 858 Discontinuities in the value of this counter can occur at 859 re-initialization of the management system, and at other times 860 as indicated by the value of lldpCounterDiscontinuityTime." 861 REFERENCE 862 "IEEE 802.1AB/D8 section 11.4.2" 863 ::= { lldpStatsPortEntry 2 } 864 lldpStatsPortFramesInErrors OBJECT-TYPE 865 SYNTAX Counter32 866 MAX-ACCESS read-only 867 STATUS current 868 DESCRIPTION 869 "The number of invalid LLDP frames received by this LLDP 870 agent on the indicated port, while this LLDP agent is enabled. 871 Discontinuities in the value of this counter can occur at 872 re-initialization of the management system, and at other times 873 as indicated by the value of lldpCounterDiscontinuityTime." 874 REFERENCE 875 "IEEE 802.1AB/D8 section 11.4.2" 876 ::= { lldpStatsPortEntry 3 } 877 lldpStatsPortFramesInTotal OBJECT-TYPE 878 SYNTAX Counter32 879 MAX-ACCESS read-only 880 STATUS current 881 DESCRIPTION 882 "The number of valid LLDP frames received by this LLDP agent 883 on the indicated port, while this LLDP agent is enabled. 884 Discontinuities in the value of this counter can occur at 885 re-initialization of the management system, and at other times 886 as indicated by the value of lldpCounterDiscontinuityTime." 887 REFERENCE 888 "IEEE 802.1AB/D8 section 11.4.2" 889 ::= { lldpStatsPortEntry 4 } 890 lldpStatsPortFramesOutTotal OBJECT-TYPE 891 SYNTAX Counter32 892 MAX-ACCESS read-only 893 STATUS current 894 DESCRIPTION 895 "The number of LLDP frames transmitted by this LLDP agent 896 on the indicated port. </pre>
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905      Discontinuities in the value of this counter can occur at
         re-initialization of the management system, and at other times
         as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 5 }

910  lldpStatsPortTLVsInErrors OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The number of erroneous LLDP TLVs received by this LLDP
agent on the indicated port.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 6 }

915  lldpStatsPortTLVsDiscardedTotal OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The number of LLDP TLVs discarded for any reason by this LLDP
agent on the indicated port.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 7 }

920  lldpStatsPortTLVsUnrecognizedTotal OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The number of LLDP TLVs received on the given port that
are not recognized by this LLDP agent on the indicated port.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 8 }

925  lldpStatsPortCounterDisconTime OBJECT-TYPE
SYNTAX   TimeStamp
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "This object is defined to record the time of the last
discontinuity in statistics counters of the indicated port.
The relevant counters are the specific instances associated
with this port of any Counter32 objects contained in the
lldpStatsTable.

At the time a discontinuity occurs in one of the statistics
objects, lldpStatsPortCounterDisconTime contains the
value of the sysUpTime object (defined in IETF RFC 3418).
If no such discontinuities have occurred since the last
re-initialization of the local management subsystem, then
this object contains a zero value."
 ::= { lldpStatsPortEntry 9 }

930  lldpStatsPortNumAgeouts OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The counter that represents the number of age-outs occurred
on a given port. An age-out is referred to as the number
of times an entry has been deleted from tables associated
with the lldpRemoteSystemsData objects and all LLDP extension
objects associated with remote systems because the information
timeliness interval for those entries have expired.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 5 }

935  lldpStatsPortTLVsInErrors OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The number of erroneous LLDP TLVs received by this LLDP
agent on the indicated port.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 6 }

940  lldpStatsPortTLVsDiscardedTotal OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The number of LLDP TLVs discarded for any reason by this LLDP
agent on the indicated port.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 7 }

945  lldpStatsPortTLVsUnrecognizedTotal OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The number of LLDP TLVs received on the given port that
are not recognized by this LLDP agent on the indicated port.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 8 }

950  lldpStatsPortCounterDisconTime OBJECT-TYPE
SYNTAX   TimeStamp
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "This object is defined to record the time of the last
discontinuity in statistics counters of the indicated port.
The relevant counters are the specific instances associated
with this port of any Counter32 objects contained in the
lldpStatsTable. If no such discontinuities have occurred
since the last re-initialization of the local management
subsystem, then this object contains a zero value."
 ::= { lldpStatsPortEntry 9 }

955  lldpStatsPortNumAgeouts OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The counter that represents the number of age-outs occurred
on a given port. An age-out is referred to as the number
of times an entry has been deleted from tables associated
with the lldpRemoteSystemsData objects and all LLDP extension
objects associated with remote systems because the information
timeliness interval for those entries have expired.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 5 }

960  lldpStatsPortCounterDisconTime OBJECT-TYPE
SYNTAX   TimeStamp
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "This object is defined to record the time of the last
discontinuity in statistics counters of the indicated port.
The relevant counters are the specific instances associated
with this port of any Counter32 objects contained in the
lldpStatsTable. If no such discontinuities have occurred
since the last re-initialization of the local management
subsystem, then this object contains a zero value."
 ::= { lldpStatsPortEntry 9 }

965  lldpStatsPortNumAgeouts OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The counter that represents the number of age-outs occurred
on a given port. An age-out is referred to as the number
of times an entry has been deleted from tables associated
with the lldpRemoteSystemsData objects and all LLDP extension
objects associated with remote systems because the information
timeliness interval for those entries have expired.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 6 }

970  lldpStatsPortCounterDisconTime OBJECT-TYPE
SYNTAX   TimeStamp
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "This object is defined to record the time of the last
discontinuity in statistics counters of the indicated port.
The relevant counters are the specific instances associated
with this port of any Counter32 objects contained in the
lldpStatsTable. If no such discontinuities have occurred
since the last re-initialization of the local management
subsystem, then this object contains a zero value."
 ::= { lldpStatsPortEntry 7 }

975  lldpStatsPortNumAgeouts OBJECT-TYPE
SYNTAX   Counter32
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "The counter that represents the number of age-outs occurred
on a given port. An age-out is referred to as the number
of times an entry has been deleted from tables associated
with the lldpRemoteSystemsData objects and all LLDP extension
objects associated with remote systems because the information
timeliness interval for those entries have expired.

Discontinuities in the value of this counter can occur at
re-initialization of the management system, and at other times
as indicated by the value of lldpCounterDiscontinuityTime."
REFERENCE
  "IEEE 802.1AB/D8 section 11.4.2"
 ::= { lldpStatsPortEntry 5 }

980  lldpStatsPortCounterDisconTime OBJECT-TYPE
SYNTAX   TimeStamp
MAX-ACCESS  read-only
STATUS    current
DESCRIPTION
  "This object is defined to record the time of the last
discontinuity in statistics counters of the indicated port.
The relevant counters are the specific instances associated
with this port of any Counter32 objects contained in the
lldpStatsTable. If no such discontinuities have occurred
since the last re-initialization of the local management
subsystem, then this object contains a zero value."
 ::= { lldpStatsPortEntry 9 }

```

```

985      This counter is similar to lldpStatsRemTablesNumAgeouts,
986      except that the counter is on a per port basis. This enables
987      NMS to poll tables associated with the lldpRemoteSystemsData
988      objects and all LLDP extension objects associated with remote
989      systems on the indicated port only."
990      ::= { lldpStatsPortEntry 10 }

995      -----
996      L O C A L      S Y S T E M      D A T A
997      -----
998      *****

1000     lldpLocChassisType OBJECT-TYPE
1001       SYNTAX      LldpChassisIdType
1002       MAX-ACCESS  read-only
1003       STATUS      current
1004       DESCRIPTION
1005         "The type of encoding used to identify the chassis
1006         associated with the local system."
1007       REFERENCE
1008         "IEEE 802.1AB/D8 section 9.4.2.2"
1009       ::= { lldpLocalSystemData 1 }

1010     lldpLocChassisId OBJECT-TYPE
1011       SYNTAX      LldpChassisId
1012       MAX-ACCESS  read-only
1013       STATUS      current
1014       DESCRIPTION
1015         "The string value used to identify the chassis component
1016         associated with the local system."
1017       REFERENCE
1018         "IEEE 802.1AB/D8 section 9.4.2.3"
1019       ::= { lldpLocalSystemData 2 }

1020     lldpLocSysName  OBJECT-TYPE
1021       SYNTAX      SnmpAdminString (SIZE(0..255))
1022       MAX-ACCESS  read-only
1023       STATUS      current
1024       DESCRIPTION
1025         "The string value used to identify the system name of the
1026         local system. If the local agent supports IETF RFC 3418,
1027         lldpLocSysName object should have the same value of sysName
1028         object."
1029       REFERENCE
1030         "IEEE 802.1AB/D8 section 9.4.6.2"
1031       ::= { lldpLocalSystemData 3 }

1035     lldpLocSysDesc  OBJECT-TYPE
1036       SYNTAX      SnmpAdminString (SIZE(0..255))
1037       MAX-ACCESS  read-only
1038       STATUS      current
1039       DESCRIPTION
1040         "The string value used to identify the system description
1041         of the local system. If the local agent supports IETF RFC 3418,
1042         lldpLocSysDesc object should have the same value of sysDesc
1043         object."
1044       REFERENCE
1045         "IEEE 802.1AB/D8 section 9.4.7.2"
1046       ::= { lldpLocalSystemData 4 }

1050     lldpLocSysCapSupported OBJECT-TYPE
1051       SYNTAX      LldpSystemCapabilitiesMap
1052       MAX-ACCESS  read-only
1053       STATUS      current
1054       DESCRIPTION
1055         "The bitmap value used to identify which system capabilities
1056         are supported on the local system."
1057       REFERENCE
1058         "IEEE 802.1AB/D8 section 9.4.8.2"
1059       ::= { lldpLocalSystemData 5 }

1060     lldpLocSysCapEnabled  OBJECT-TYPE
1061       SYNTAX      LldpSystemCapabilitiesMap
1062       MAX-ACCESS  read-only
1063       STATUS      current
1064       DESCRIPTION
1065         "The bitmap value used to identify which system capabilities
1066         are enabled on the local system."
1067       REFERENCE
1068         "IEEE 802.1AB/D8 section 9.4.8.2"
1069       ::= { lldpLocalSystemData 6 }

This counter is similar to lldpStatsRemTablesNumAgeouts,
except that the counter is on a per port basis. This enables
NMS to poll tables associated with the lldpRemoteSystemsData
objects and all LLDP extension objects associated with remote
systems on the indicated port only."
::= { lldpStatsPortEntry 10 }

-----
L O C A L      S Y S T E M      D A T A
-----
*****
```

```

"IEEE 802.1AB/D8 section 9.4.8.3"
 ::= { lldpLocalSystemData 6 }

1070
-- lldpLocPortTable : Port specific Local system data
--

1075 lldpLocPortTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF LldpLocPortEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "This table contains one or more rows per port information
     associated with the local system known to this agent."
    ::= { lldpLocalSystemData 7 }

  lldpLocPortEntry OBJECT-TYPE
  SYNTAX   LldpLocPortEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "Information about a particular port component.

1090      Entries may be created and deleted in this table by the
           agent."
  INDEX   { lldpLocPortNum }
  ::= { lldpLocPortTable 1 }

1095 LldpLocPortEntry ::= SEQUENCE {
  lldpLocPortNum          LldpPortNumber,
  lldpLocPortType         LldpPortIdType,
  lldpLocPortId           LldpPortId,
  lldpLocPortDesc          SnmpAdminString
}

1100
lldpLocPortNum  OBJECT-TYPE
  SYNTAX   LldpPortNumber
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "The index value used to identify the port component
     (contained in the local chassis with the LLDP agent)
     associated with this entry.

1110      The value of this object is used as a port index to the
           lldpLocPortTable."
  ::= { lldpLocPortEntry 1 }

1115 lldpLocPortType  OBJECT-TYPE
  SYNTAX   LldpPortIdType
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The type of port identifier encoding used in the associated
     'lldpLocPortId' object."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.3.2"
  ::= { lldpLocPortEntry 2 }

  lldpLocPortId  OBJECT-TYPE
  SYNTAX   LldpPortId
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The string value used to identify the port component
     associated with a given port in the local system."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.3.3"
  ::= { lldpLocPortEntry 3 }

  lldpLocPortDesc  OBJECT-TYPE
  SYNTAX   SnmpAdminString (SIZE(0..255))
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The string value used to identify the 802 LAN station's port
     description associated with the local system. If the local
     agent supports IETF RFC 2863, lldpLocPortDesc object should
     have the same value of ifDescr object."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.5.2"

"IEEE 802.1AB/D8 section 9.4.8.3"
 ::= { lldpLocalSystemData 6 }

-- lldpLocPortTable : Port specific Local system data
--

1145
lldpLocPortTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF LldpLocPortEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "This table contains one or more rows per port information
     associated with the local system known to this agent."
    ::= { lldpLocalSystemData 7 }

  lldpLocPortEntry OBJECT-TYPE
  SYNTAX   LldpLocPortEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "Information about a particular port component.

      Entries may be created and deleted in this table by the
           agent."
  INDEX   { lldpLocPortNum }
  ::= { lldpLocPortTable 1 }

  LldpLocPortEntry ::= SEQUENCE {
    lldpLocPortNum          LldpPortNumber,
    lldpLocPortType         LldpPortIdType,
    lldpLocPortId           LldpPortId,
    lldpLocPortDesc          SnmpAdminString
  }

  lldpLocPortNum  OBJECT-TYPE
  SYNTAX   LldpPortNumber
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "The index value used to identify the port component
     (contained in the local chassis with the LLDP agent)
     associated with this entry.

      The value of this object is used as a port index to the
           lldpLocPortTable."
  ::= { lldpLocPortEntry 1 }

  lldpLocPortType  OBJECT-TYPE
  SYNTAX   LldpPortIdType
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The type of port identifier encoding used in the associated
     'lldpLocPortId' object."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.3.2"
  ::= { lldpLocPortEntry 2 }

  lldpLocPortId  OBJECT-TYPE
  SYNTAX   LldpPortId
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The string value used to identify the port component
     associated with a given port in the local system."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.3.3"
  ::= { lldpLocPortEntry 3 }

  lldpLocPortDesc  OBJECT-TYPE
  SYNTAX   SnmpAdminString (SIZE(0..255))
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The string value used to identify the 802 LAN station's port
     description associated with the local system."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.5.2"

```

```

1150 ::= { lldpLocPortEntry 4 }

-- lldpLocManAddrTable : Management addresses of the local system
--

1155 lldpLocManAddrTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF LldpLocManAddrEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "This table contains management address information on the
     local system known to this agent."
 ::= { lldpLocalSystemData 8 }

1160 lldpLocManAddrEntry OBJECT-TYPE
  SYNTAX   LldpLocManAddrEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "Management address information about a particular chassis
     component. There may be multiple management addresses
     configured on the system identified by a particular
     lldpLocChassisId. Each management address should have
     distinct 'management address type' (lldpLocManAddrSubtype) and
     'management address' (lldpLocManAddr.)."

1170
  Entries may be created and deleted in this table by the
  agent."
  INDEX   { lldpLocManAddrSubtype,
            lldpLocManAddr }
 ::= { lldpLocManAddrTable 1 }

1175 LldpLocManAddrEntry ::= SEQUENCE {
  lldpLocManAddrSubtype   AddressFamilyNumbers,
  lldpLocManAddr          LldpManAddress,
  lldpLocManAddrLen        Integer32,
  lldpLocManAddrIfSubtype LldpManAddrIfSubtype,
  lldpLocManAddrIfId       Integer32,
  lldpLocManAddrOID        OBJECT IDENTIFIER
}

1180 lldpLocManAddrSubtype OBJECT-TYPE
  SYNTAX   AddressFamilyNumbers
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "The type of management address identifier encoding used in
     the associated 'lldpLocManagmentAddr' object."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.9.3"
 ::= { lldpLocManAddrEntry 1 }

1185 lldpLocManAddr OBJECT-TYPE
  SYNTAX   LldpManAddress
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "The string value used to identify the management address
     component associated with the local system. The purpose of
     this address is to contact the management entity."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.9.4"
 ::= { lldpLocManAddrEntry 2 }

1190 lldpLocManAddrLen OBJECT-TYPE
  SYNTAX   Integer32
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The total length of the management address subtype and the
     management address fields in LLDPDUs transmitted by the
     local LLDP agent.

1195
  The management address length field is needed so that the
  receiving systems that do not implement SNMP will not be
  required to implement an iana family numbers/address length
  equivalency table in order to decode the management address."
  REFERENCE
    "IEEE 802.1AB/D8 section 9.4.9.2"
 ::= { lldpLocManAddrEntry 3 }

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1235 lldpLocManAddrIfSubtype OBJECT-TYPE
    SYNTAX LldpManAddrIfSubtype
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The enumeration value used to identify the interface numbering
         subtype from which the interface number is derived associated with
         the local system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.9.5"
    ::= { lldpLocManAddrEntry 4 }

1240 lldpLocManAddrIfId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The integer value used to identify the interface number
         regarding the management address component associated with
         the local system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.9.6"
    ::= { lldpLocManAddrEntry 5 }

1245 lldpLocManAddrOID OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The OID value used to identify the type of hardware component
         or protocol entity associated with the management address
         advertised by the local system agent."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.9.8"
    ::= { lldpLocManAddrEntry 6 }

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-- *****
-- R E M O T E   S Y S T E M S   D A T A
-- *****

lldpRemTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LldpRemEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table contains one or more rows per physical network
         connection known to this agent. The agent may wish to ensure
         that only one lldpRemEntry is present for each local port,
         or it may choose to maintain multiple lldpRemEntries for
         the same local port."
    ::= { lldpRemoteSystemsData 1 }

lldpRemEntry OBJECT-TYPE
    SYNTAX LldpRemEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Information about a particular physical network connection.
         Entries may be created and deleted in this table by the agent,
         if a physical topology discovery process is active."
    INDEX
        {
            lldpRemTimeMark,
            lldpRemLocalPortNum,
            lldpRemIndex
        }
    ::= { lldpRemTable 1 }

LldpRemEntry ::= SEQUENCE {
    lldpRemTimeMark      TimeFilter,
    lldpRemLocalPortNum  LldpPortNumber,
    lldpRemIndex          Integer32,
    lldpRemRemoteChassisType LldpChassisIdType,
    lldpRemRemoteChassis  LldpChassisId,
    lldpRemRemotePortType LldpPortIdType,
    lldpRemRemotePort     LldpPortId,
    lldpRemPortDesc       SnmpAdminString,
    lldpRemSysName        SnmpAdminString,
    lldpRemSysDesc         SnmpAdminString,
}

lldpLocManAddrIfSubtype OBJECT-TYPE
    SYNTAX LldpManAddrIfSubtype
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The enumeration value used to identify the interface numbering
         subtype from which the interface number is derived associated with
         the local system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.9.5"
    ::= { lldpLocManAddrEntry 4 }

lldpLocManAddrIfId OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The integer value used to identify the interface number
         regarding the management address component associated with
         the local system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.9.6"
    ::= { lldpLocManAddrEntry 5 }

lldpLocManAddrOID OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The OID value used to identify the type of hardware component
         or protocol entity associated with the management address
         advertised by the local system agent."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.9.8"
    ::= { lldpLocManAddrEntry 6 }

-- *****
-- R E M O T E   S Y S T E M S   D A T A
-- *****

lldpRemTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LldpRemEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table contains one or more rows per physical network
         connection known to this agent. The agent may wish to ensure
         that only one lldpRemEntry is present for each local port,
         or it may choose to maintain multiple lldpRemEntries for
         the same local port."
    ::= { lldpRemoteSystemsData 1 }

lldpRemEntry OBJECT-TYPE
    SYNTAX LldpRemEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Information about a particular physical network connection.
         Entries may be created and deleted in this table by the agent,
         if a physical topology discovery process is active."
    INDEX
        {
            lldpRemTimeMark,
            lldpRemLocalPortNum,
            lldpRemIndex
        }
    ::= { lldpRemTable 1 }

LldpRemEntry ::= SEQUENCE {
    lldpRemTimeMark      TimeFilter,
    lldpRemLocalPortNum  LldpPortNumber,
    lldpRemIndex          Integer32,
    lldpRemRemoteChassisType LldpChassisIdType,
    lldpRemRemoteChassis  LldpChassisId,
    lldpRemRemotePortType LldpPortIdType,
    lldpRemRemotePort     LldpPortId,
    lldpRemPortDesc       SnmpAdminString,
    lldpRemSysName        SnmpAdminString,
    lldpRemSysDesc         SnmpAdminString,
}

```

```

1315 }                                         LldpSystemCapabilitiesMap,
1316   lldpRemSysCapSupported    LldpSystemCapabilitiesMap
1317   lldpRemSysCapEnabled
1318 }

1320   lldpRemTimeMark  OBJECT-TYPE
1321     SYNTAX        TimeFilter
1322     MAX-ACCESS    not-accessible
1323     STATUS        current
1324     DESCRIPTION   "A TimeFilter for this entry. See the TimeFilter textual
1325           convention in RFC 2021 to see how this works."
1326     REFERENCE    "RFC 2021 section 6"
1327     ::= { lldpRemEntry 1 }

1328   lldpRemLocalPortNum OBJECT-TYPE
1329     SYNTAX        LldpPortNumber
1330     MAX-ACCESS    not-accessible
1331     STATUS        current
1332     DESCRIPTION   "The index value used to identify the port component
1333           (contained in the local chassis with the LLDP agent)
1334           associated with this entry. The lldpRemLocalPortNum
1335           identifies the port on which the remote system information
1336           is received.
1337
1338           The value of this object is used as a port index to the
1339           lldpRemTable."
1340     ::= { lldpRemEntry 2 }

1341   lldpRemIndex   OBJECT-TYPE
1342     SYNTAX        Integer32(1..2147483647)
1343     MAX-ACCESS    not-accessible
1344     STATUS        current
1345     DESCRIPTION   "This object represents an arbitrary local integer value used
1346           by this agent to identify a particular connection instance,
1347           unique only for the indicated remote system.

1348
1349           An agent is encouraged to assign monotonically increasing
1350           index values to new entries, starting with one, after each
1351           reboot. It is considered unlikely that the lldpRemIndex
1352           will wrap between reboots."
1353     ::= { lldpRemEntry 3 }

1354   lldpRemRemoteChassisType OBJECT-TYPE
1355     SYNTAX        LldpChassisIdType
1356     MAX-ACCESS    read-only
1357     STATUS        current
1358     DESCRIPTION   "The type of encoding used to identify the chassis associated
1359           with the remote system."
1360     REFERENCE    "IEEE 802.1AB/D8 section 9.4.2.2"
1361     ::= { lldpRemEntry 4 }

1362   lldpRemRemoteChassis OBJECT-TYPE
1363     SYNTAX        LldpChassisId
1364     MAX-ACCESS    read-only
1365     STATUS        current
1366     DESCRIPTION   "The string value used to identify the chassis component
1367           associated with the remote system."
1368     REFERENCE    "IEEE 802.1AB/D8 section 9.4.2.3"
1369     ::= { lldpRemEntry 5 }

1370   lldpRemRemotePortType OBJECT-TYPE
1371     SYNTAX        LldpPortIdType
1372     MAX-ACCESS    read-only
1373     STATUS        current
1374     DESCRIPTION   "The type of port identifier encoding used in the associated
1375           'lldpRemRemotePort' object."
1376     REFERENCE    "IEEE 802.1AB/D8 section 9.4.3.2"
1377     ::= { lldpRemEntry 6 }

1378 }                                         LldpSystemCapabilitiesMap,
1379   lldpRemSysCapSupported    LldpSystemCapabilitiesMap
1380   lldpRemSysCapEnabled
1381 }

1382   lldpRemTimeMark  OBJECT-TYPE
1383     SYNTAX        TimeFilter
1384     MAX-ACCESS    not-accessible
1385     STATUS        current
1386     DESCRIPTION   "A TimeFilter for this entry. See the TimeFilter textual
1387           convention in RFC 2021 to see how this works."
1388     REFERENCE    "RFC 2021 section 6"
1389     ::= { lldpRemEntry 1 }

1390   lldpRemLocalPortNum OBJECT-TYPE
1391     SYNTAX        LldpPortNumber
1392     MAX-ACCESS    not-accessible
1393     STATUS        current
1394     DESCRIPTION   "The index value used to identify the port component
1395           (contained in the local chassis with the LLDP agent)
1396           associated with this entry. The lldpRemLocalPortNum
1397           identifies the port on which the remote system information
1398           is received.
1399
1400           The value of this object is used as a port index to the
1401           lldpRemTable."
1402     ::= { lldpRemEntry 2 }

1403   lldpRemIndex   OBJECT-TYPE
1404     SYNTAX        Integer32(1..2147483647)
1405     MAX-ACCESS    not-accessible
1406     STATUS        current
1407     DESCRIPTION   "This object represents an arbitrary local integer value used
1408           by this agent to identify a particular connection instance,
1409           unique only for the indicated remote system.

1410
1411           A particular lldpRemIndex value may be reused in the event
1412           an entry is aged out and later re-learned with the same
1413           (or different) remote chassis and port identifiers.
1414
1415           An agent is encouraged to assign monotonically increasing
1416           index values to new entries, starting with one, after each
1417           reboot. It is considered unlikely that the lldpRemIndex
1418           will wrap between reboots."
1419     ::= { lldpRemEntry 3 }

1420   lldpRemRemoteChassisType OBJECT-TYPE
1421     SYNTAX        LldpChassisIdType
1422     MAX-ACCESS    read-only
1423     STATUS        current
1424     DESCRIPTION   "The type of encoding used to identify the chassis associated
1425           with the remote system."
1426     REFERENCE    "IEEE 802.1AB/D8 section 9.4.2.2"
1427     ::= { lldpRemEntry 4 }

1428   lldpRemRemoteChassis OBJECT-TYPE
1429     SYNTAX        LldpChassisId
1430     MAX-ACCESS    read-only
1431     STATUS        current
1432     DESCRIPTION   "The string value used to identify the chassis component
1433           associated with the remote system."
1434     REFERENCE    "IEEE 802.1AB/D8 section 9.4.2.3"
1435     ::= { lldpRemEntry 5 }

1436   lldpRemRemotePortType OBJECT-TYPE
1437     SYNTAX        LldpPortIdType
1438     MAX-ACCESS    read-only
1439     STATUS        current
1440     DESCRIPTION   "The type of port identifier encoding used in the associated
1441           'lldpRemRemotePort' object."
1442     REFERENCE    "IEEE 802.1AB/D8 section 9.4.3.2"
1443     ::= { lldpRemEntry 6 }

```

```

1395 lldpRemRemotePort OBJECT-TYPE
    SYNTAX     LldpPortId
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The string value used to identify the port component
         associated with the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.3.3"
    ::= { lldpRemEntry 7 }

1405 lldpRemPortDesc OBJECT-TYPE
    SYNTAX     SnmpAdminString (SIZE(0..255))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The string value used to identify the description of
         the given port associated with the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.5.2"
    ::= { lldpRemEntry 8 }

1415 lldpRemSysName OBJECT-TYPE
    SYNTAX     SnmpAdminString (SIZE(0..255))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The string value used to identify the system name of the
         remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.6.2"
    ::= { lldpRemEntry 9 }

1425 lldpRemSysDesc OBJECT-TYPE
    SYNTAX     SnmpAdminString (SIZE(0..255))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The string value used to identify the system description
         of the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.7.2"
    ::= { lldpRemEntry 10 }

1435 lldpRemSysCapSupported OBJECT-TYPE
    SYNTAX     LldpSystemCapabilitiesMap
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The bitmap value used to identify which system capabilities
         are supported on the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.8.2"
    ::= { lldpRemEntry 11 }

1445 lldpRemSysCapEnabled OBJECT-TYPE
    SYNTAX     LldpSystemCapabilitiesMap
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The bitmap value used to identify which system capabilities
         are enabled on the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section 9.4.8.3"
    ::= { lldpRemEntry 12 }

1455 --
-- lldpRemManAddrTable : Management addresses of the remote system
--

1465 lldpRemManAddrTable OBJECT-TYPE
    SYNTAX     SEQUENCE OF LldpRemManAddrEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "This table contains one or more rows per management address
         information on the remote system learned on a particular port
         contained in the local chassis known to this agent."
    ::= { lldpRemoteSystemsData 2 }

1475 lldpRemManAddrEntry OBJECT-TYPE
    SYNTAX     LldpRemManAddrEntry

```

```

    lldpRemRemotePort OBJECT-TYPE
        SYNTAX     LldpPortId
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The string value used to identify the port component
             associated with the remote system."
        REFERENCE
            "IEEE 802.1AB/D8 section 9.4.3.3"
        ::= { lldpRemEntry 7 }

    lldpRemPortDesc OBJECT-TYPE
        SYNTAX     SnmpAdminString (SIZE(0..255))
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The string value used to identify the description of
             the given port associated with the remote system."
        REFERENCE
            "IEEE 802.1AB/D8 section 9.4.5.2"
        ::= { lldpRemEntry 8 }

    lldpRemSysName OBJECT-TYPE
        SYNTAX     SnmpAdminString (SIZE(0..255))
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The string value used to identify the system name of the
             remote system."
        REFERENCE
            "IEEE 802.1AB/D8 section 9.4.6.2"
        ::= { lldpRemEntry 9 }

    lldpRemSysDesc OBJECT-TYPE
        SYNTAX     SnmpAdminString (SIZE(0..255))
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The string value used to identify the system description
             of the remote system."
        REFERENCE
            "IEEE 802.1AB/D8 section 9.4.7.2"
        ::= { lldpRemEntry 10 }

    lldpRemSysCapSupported OBJECT-TYPE
        SYNTAX     LldpSystemCapabilitiesMap
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The bitmap value used to identify which system capabilities
             are supported on the remote system."
        REFERENCE
            "IEEE 802.1AB/D8 section 9.4.8.2"
        ::= { lldpRemEntry 11 }

    lldpRemSysCapEnabled OBJECT-TYPE
        SYNTAX     LldpSystemCapabilitiesMap
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The bitmap value used to identify which system capabilities
             are enabled on the remote system."
        REFERENCE
            "IEEE 802.1AB/D8 section 9.4.8.3"
        ::= { lldpRemEntry 12 }

    --
-- lldpRemManAddrTable : Management addresses of the remote system
--

    lldpRemManAddrTable OBJECT-TYPE
        SYNTAX     SEQUENCE OF LldpRemManAddrEntry
        MAX-ACCESS not-accessible
        STATUS     current
        DESCRIPTION
            "This table contains one or more rows per management address
             information on the remote system learned on a particular port
             contained in the local chassis known to this agent."
        ::= { lldpRemoteSystemsData 2 }

    lldpRemManAddrEntry OBJECT-TYPE
        SYNTAX     LldpRemManAddrEntry

```

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
1480   "Management address information about a particular chassis
component. There may be multiple management addresses
configured on the remote system identified by a particular
lldpRemIndex whose information is received on
lldpRemLocalPortNum of the local system. Each management
address should have distinct 'management address
type' (lldpRemManAddrSubtype) and 'management address'
(lldpRemManAddr.)."

Entries may be created and deleted in this table by the
agent."
1490 INDEX { lldpRemTimeMark,
            lldpRemLocalPortNum,
            lldpRemIndex,
            lldpRemManAddrSubtype,
            lldpRemManAddr
        }
        ::= { lldpRemManAddrTable 1 }

LldpRemManAddrEntry ::= SEQUENCE {
1500   lldpRemManAddrSubtype      AddressFamilyNumbers,
   lldpRemManAddr          LldpManAddress,
   lldpRemManAddrIfSubtype  LldpManAddrIfSubtype,
   lldpRemManAddrIfId       Integer32,
   lldpRemManAddrOID        OBJECT IDENTIFIER
}

1505 }

lldpRemManAddrSubtype OBJECT-TYPE
SYNTAX   AddressFamilyNumbers
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
1510   "The type of management address identifier encoding used in
the associated 'lldpRemManagementAddr' object."
REFERENCE
1515   "IEEE 802.1AB/D8 section 9.4.9.3"
        ::= { lldpRemManAddrEntry 1 }

lldpRemManAddr  OBJECT-TYPE
SYNTAX   LldpManAddress
1520 MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
1525   "The string value used to identify the management address
component associated with the remote system. The purpose
of this address is to contact the management entity."
REFERENCE
1530   "IEEE 802.1AB/D8 section 9.4.9.4"
        ::= { lldpRemManAddrEntry 2 }

1530 lldpRemManAddrIfSubtype OBJECT-TYPE
SYNTAX   LldpManAddrIfSubtype
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
1535   "The enumeration value used to identify the interface numbering
subtype from which the interface number is derived associated with
the remote system."
REFERENCE
1540   "IEEE 802.1AB/D8 section 9.4.9.5"
        ::= { lldpRemManAddrEntry 3 }

lldpRemManAddrIfId  OBJECT-TYPE
SYNTAX   Integer32
1545 MAX-ACCESS read-only
STATUS   current
DESCRIPTION
1550   "The (four octet) value used to identify the interface number
regarding the management address component associated with
the remote system."
REFERENCE
1555   "IEEE 802.1AB/D8 section 9.4.9.6"
        ::= { lldpRemManAddrEntry 4 }

lldpRemManAddrOID  OBJECT-TYPE
SYNTAX   OBJECT IDENTIFIER
1555 MAX-ACCESS read-only
STATUS   current
DESCRIPTION

```

|

```

MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
1480   "Management address information about a particular chassis
component. There may be multiple management addresses
configured on the remote system identified by a particular
lldpRemIndex whose information is received on
lldpRemLocalPortNum of the local system. Each management
address should have distinct 'management address
type' (lldpRemManAddrSubtype) and 'management address'
(lldpRemManAddr.)."

Entries may be created and deleted in this table by the
agent."
1490 INDEX { lldpRemTimeMark,
            lldpRemLocalPortNum,
            lldpRemIndex,
            lldpRemManAddrSubtype,
            lldpRemManAddr
        }
        ::= { lldpRemManAddrTable 1 }

LldpRemManAddrEntry ::= SEQUENCE {
1500   lldpRemManAddrSubtype      AddressFamilyNumbers,
   lldpRemManAddr          LldpManAddress,
   lldpRemManAddrIfSubtype  LldpManAddrIfSubtype,
   lldpRemManAddrIfId       Integer32,
   lldpRemManAddrOID        OBJECT IDENTIFIER
}

1505 }

lldpRemManAddrSubtype OBJECT-TYPE
SYNTAX   AddressFamilyNumbers
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
1510   "The type of management address identifier encoding used in
the associated 'lldpRemManagementAddr' object."
REFERENCE
1515   "IEEE 802.1AB/D8 section 9.4.9.3"
        ::= { lldpRemManAddrEntry 1 }

lldpRemManAddr  OBJECT-TYPE
SYNTAX   LldpManAddress
1520 MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
1525   "The string value used to identify the management address
component associated with the remote system."
REFERENCE
1530   "IEEE 802.1AB/D8 section 9.4.9.4"
        ::= { lldpRemManAddrEntry 2 }

1530 lldpRemManAddrIfSubtype OBJECT-TYPE
SYNTAX   LldpManAddrIfSubtype
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
1535   "The enumeration value used to identify the interface numbering
subtype from which the interface number is derived associated with
the remote system."
REFERENCE
1540   "IEEE 802.1AB/D8 section 9.4.9.5"
        ::= { lldpRemManAddrEntry 3 }

lldpRemManAddrIfId  OBJECT-TYPE
SYNTAX   Integer32
1545 MAX-ACCESS read-only
STATUS   current
DESCRIPTION
1550   "The (four octet) value used to identify the interface number
regarding the management address component associated with
the remote system."
REFERENCE
1555   "IEEE 802.1AB/D8 section 9.4.9.6"
        ::= { lldpRemManAddrEntry 4 }

lldpRemManAddrOID  OBJECT-TYPE
SYNTAX   OBJECT IDENTIFIER
1555 MAX-ACCESS read-only
STATUS   current
DESCRIPTION

```

```

1560      "The OID value used to identify the type of hardware component
       or protocol entity associated with the management address
       advertised by the remote system agent."
REFERENCE
    "IEEE 802.1AB/D8 section 9.4.9.8"
::= { lldpRemManAddrEntry 5 }

1565  --
-- lldpRemUnknownTLVTable : Unrecognized TLV information
--
1570  lldpRemUnknownTLVTable OBJECT-TYPE
SYNTAX   SEQUENCE OF LldpRemUnknownTLVEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "This table contains information about an incoming TLV which
     is not recognized by the receiving LLDP agent. The TLV may
     be from a later version of the basic management set.

1575  This table should only contain TLVs that are found in a
     single LLDP frame. Entries of this this table, associated
     with an MSAP (which is also identified with a particular
     lldpRemLocalPortNum, lldpRemIndex pair) are overwritten
     with most recently received unrecognized TLV from the same
     MSAP, or they will naturally age out when the rxInfoTTL timer
     (associated with the MSAP) expires."
REFERENCE
    "IEEE 802.1AB/D8 section 10.3.3"
::= { lldpRemoteSystemsData 3 }

1580  lldpRemUnknownTLVEntry OBJECT-TYPE
SYNTAX   LldpRemUnknownTLVEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "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."
INDEX {
    lldpRemTimeMark,
    lldpRemLocalPortNum,
    lldpRemIndex,
    lldpRemUnknownTLVType
}
::= { lldpRemUnknownTLVTable 1 }

1595  LldpRemUnknownTLVEntry ::= SEQUENCE {
    lldpRemUnknownTLVType      Integer32,
    lldpRemUnknownTLVInfo      OCTET STRING
}

1600  lldpRemUnknownTLVType OBJECT-TYPE
SYNTAX   Integer32(9..126)
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "This object represents the value extracted from the type
     field of the TLV."
REFERENCE
    "IEEE 802.1AB/D8 section 10.3.5"
::= { lldpRemUnknownTLVEntry 1 }

1610  lldpRemUnknownTLVInfo OBJECT-TYPE
SYNTAX   OCTET STRING (SIZE(0..511))
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "This object represents the value extracted from the value
     field of the TLV."
REFERENCE
    "IEEE 802.1AB/D8 section 10.3.5"
::= { lldpRemUnknownTLVEntry 2 }

1625  --
-- Remote Systems Extension Table - Organizationally Defined Information
1630  lldpRemOrgDefInfoTable OBJECT-TYPE
SYNTAX   SEQUENCE OF LldpRemOrgDefInfoEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "The OID value used to identify the type of hardware component
     or protocol entity associated with the management address
     advertised by the remote system agent."
REFERENCE
    "IEEE 802.1AB/D8 section 9.4.9.8"
::= { lldpRemOrgDefInfoTable 5 }

1635  --
-- lldpRemUnknownTLVTable : Unrecognized TLV information
--
1640  lldpRemUnknownTLVTable OBJECT-TYPE
SYNTAX   SEQUENCE OF LldpRemUnknownTLVEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "This table contains information about an incoming TLV which
     is not recognized by the receiving LLDP agent. The TLV may
     be from a later version of the basic management set.

1645  This table should only contain TLVs that are found in a
     single LLDP frame. Entries of this this table, associated
     with an MSAP (which is also identified with a particular
     lldpRemLocalPortNum, lldpRemIndex pair) are overwritten
     with most recently received unrecognized TLV from the same
     MSAP, or they will naturally age out when the rxInfoTTL timer
     (associated with the MSAP) expires."
REFERENCE
    "IEEE 802.1AB/D8 section 10.3.3"
::= { lldpRemoteSystemsData 3 }

1650  lldpRemUnknownTLVEntry OBJECT-TYPE
SYNTAX   LldpRemUnknownTLVEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "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."
INDEX {
    lldpRemTimeMark,
    lldpRemLocalPortNum,
    lldpRemIndex,
    lldpRemUnknownTLVType
}
::= { lldpRemUnknownTLVTable 1 }

1655  LldpRemUnknownTLVEntry ::= SEQUENCE {
    lldpRemUnknownTLVType      Integer32,
    lldpRemUnknownTLVInfo      OCTET STRING
}

1660  lldpRemUnknownTLVType OBJECT-TYPE
SYNTAX   Integer32(9..126)
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "This object represents the value extracted from the type
     field of the TLV."
REFERENCE
    "IEEE 802.1AB/D8 section 10.3.5"
::= { lldpRemUnknownTLVEntry 1 }

1665  lldpRemUnknownTLVInfo OBJECT-TYPE
SYNTAX   OCTET STRING (SIZE(0..511))
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
    "This object represents the value extracted from the value
     field of the TLV."
REFERENCE
    "IEEE 802.1AB/D8 section 10.3.5"
::= { lldpRemUnknownTLVEntry 2 }

1670  --
-- Remote Systems Extension Table - Organizationally Defined Information
1675  lldpRemOrgDefInfoTable OBJECT-TYPE
SYNTAX   SEQUENCE OF LldpRemOrgDefInfoEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "The OID value used to identify the type of hardware component
     or protocol entity associated with the management address
     advertised by the remote system agent."
REFERENCE
    "IEEE 802.1AB/D8 section 9.4.9.8"
::= { lldpRemOrgDefInfoTable 5 }

```

	<p>"This table contains one or more rows per physical network connection which advertises the organizationally defined information.</p> <p>Note that this table contains one or more rows of organizationally defined information that is not recognized by the local agent. The agent may wish to ensure that only one lldpRemOrgDefInfoEntry is present for each remote system, or it may choose to maintain multiple lldpRemOrgDefInfoEntries for the same remote system.</p> <p>If the local system is capable of recognizing any organizationally defined information, appropriate extension MIBs from the organization should be used for information retrieval."</p> <pre>::= { lldpRemoteSystemsData 4 }</pre> <p>lldpRemOrgDefInfoEntry OBJECT-TYPE SYNTAX LldpRemOrgDefInfoEntry MAX-ACCESS not-accessible STATUS current DESCRIPTION</p> <p>"Information about the unrecognized organizationally defined information advertised by the remote system. The lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex, lldpRemOrgDefInfoOUI, lldpRemOrgDefInfoSubtype, and lldpRemOrgDefInfoIndex are indexes to this table. If there is an lldpRemOrgDefInfoEntry associated with a particular remote system identified by the lldpRemLocalPortNum and lldpRemIndex, there must be an lldpRemEntry associated with the same instance (i.e., using same indexes.) When the lldpRemEntry for the same index is removed from the lldpRemTable, the associated lldpRemOrgDefInfoEntry should be removed from the lldpRemOrgDefInfoTable."</p> <p>Entries may be created and deleted in this table by the agent."</p> <p>INDEX</p> <pre>{ lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex, lldpRemOrgDefInfoOUI, lldpRemOrgDefInfoSubtype, lldpRemOrgDefInfoIndex }</pre> <pre>::= { lldpRemOrgDefInfoTable 1 }</pre> <p>LldpRemOrgDefInfoEntry ::= SEQUENCE { lldpRemOrgDefInfoOUI OCTET STRING, lldpRemOrgDefInfoSubtype Integer32, lldpRemOrgDefInfoIndex Integer32, lldpRemOrgDefInfo OCTET STRING }</p> <p>lldpRemOrgDefInfoOUI OBJECT-TYPE SYNTAX OCTET STRING (SIZE(3)) MAX-ACCESS not-accessible STATUS current DESCRIPTION</p> <p>"The Organizationally Unique Identifier (OUI), as defined in IEEE std. 802-2001, is a 24 bit (three octets) globally unique assigned number referenced by various standards, of the information received from the remote system."</p> <p>REFERENCE</p> <p>"IEEE 802.1AB/D8 section 9.5.1.3"</p> <pre>::= { lldpRemOrgDefInfoEntry 1 }</pre> <p>lldpRemOrgDefInfoSubtype OBJECT-TYPE SYNTAX Integer32(1..255) MAX-ACCESS not-accessible STATUS current DESCRIPTION</p> <p>"The integer value used to identify the subtype of the organizationally defined information received from the remote system."</p> <p>The subtype value is required to identify different instances of organizationally defined information that could not be retrieved without a unique identifier that indicates the particular type of information contained in the information string."</p> <p>REFERENCE</p> <p>"IEEE 802.1AB/D8 section 9.5.1.4"</p> <pre>::= { lldpRemOrgDefInfoEntry 2 }</pre>	<p>"This table contains one or more rows per physical network connection which advertises the organizationally defined information.</p> <p>Note that this table contains one or more rows of organizationally defined information that is not recognized by the local agent. The agent may wish to ensure that only one lldpRemOrgDefInfoEntry is present for each remote system, or it may choose to maintain multiple lldpRemOrgDefInfoEntries for the same remote system.</p> <p>If the local system is capable of recognizing any organizationally defined information, appropriate extension MIBs from the organization should be used for information retrieval."</p> <pre>::= { lldpRemoteSystemsData 4 }</pre> <p>lldpRemOrgDefInfoEntry OBJECT-TYPE SYNTAX LldpRemOrgDefInfoEntry MAX-ACCESS not-accessible STATUS current DESCRIPTION</p> <p>"Information about the unrecognized organizationally defined information advertised by the remote system. The lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex, lldpRemOrgDefInfoOUI, lldpRemOrgDefInfoSubtype, and lldpRemOrgDefInfoIndex are indexes to this table. If there is an lldpRemOrgDefInfoEntry associated with a particular remote system identified by the lldpRemLocalPortNum and lldpRemIndex, there must be an lldpRemEntry associated with the same instance (i.e., using same indexes.) When the lldpRemEntry for the same index is removed from the lldpRemTable, the associated lldpRemOrgDefInfoEntry should be removed from the lldpRemOrgDefInfoTable."</p> <p>Entries may be created and deleted in this table by the agent."</p> <p>INDEX</p> <pre>{ lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex, lldpRemOrgDefInfoOUI, lldpRemOrgDefInfoSubtype, lldpRemOrgDefInfoIndex }</pre> <pre>::= { lldpRemOrgDefInfoTable 1 }</pre> <p>LldpRemOrgDefInfoEntry ::= SEQUENCE { lldpRemOrgDefInfoOUI OCTET STRING, lldpRemOrgDefInfoSubtype Integer32, lldpRemOrgDefInfoIndex Integer32, lldpRemOrgDefInfo OCTET STRING }</p> <p>lldpRemOrgDefInfoOUI OBJECT-TYPE SYNTAX OCTET STRING (SIZE(3)) MAX-ACCESS not-accessible STATUS current DESCRIPTION</p> <p>"The Organizationally Unique Identifier (OUI), as defined in IEEE std. 802-2001, is a 24 bit (three octets) globally unique assigned number referenced by various standards, of the information received from the remote system."</p> <p>REFERENCE</p> <p>"IEEE 802.1AB/D8 section 9.5.1.3"</p> <pre>::= { lldpRemOrgDefInfoEntry 1 }</pre> <p>lldpRemOrgDefInfoSubtype OBJECT-TYPE SYNTAX Integer32(1..255) MAX-ACCESS not-accessible STATUS current DESCRIPTION</p> <p>"The integer value used to identify the subtype of the organizationally defined information received from the remote system."</p> <p>The subtype value is required to identify different instances of organizationally defined information that could not be retrieved without a unique identifier that indicates the particular type of information contained in the information string."</p> <p>REFERENCE</p> <p>"IEEE 802.1AB/D8 section 9.5.1.4"</p> <pre>::= { lldpRemOrgDefInfoEntry 2 }</pre>
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1725 lldpRemOrgDefInfoIndex OBJECT-TYPE
SYNTAX Integer32(1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
1730 "This object represents an arbitrary local integer value
used by this agent to identify a particular unrecognized
organizationally defined information instance, unique only
for the lldpRemOrgDefInfoOUI and lldpRemOrgDefInfoSubtype
from the same remote system.

1735 A particular lldpRemOrgDefInfoIndex value may be reused
in the event an entry is aged out and later re-learned
with the same (or different) lldpRemOrgDefInfoOUI and
lldpRemOrgDefInfoSubtype.

1740 An agent is encouraged to assign monotonically increasing
index values to new entries, starting with one, after each
reboot. It is considered unlikely that the
lldpRemOrgDefInfoIndex will wrap between reboots."
::= { lldpRemOrgDefInfoEntry 3 }

1745 lldpRemOrgDefInfo OBJECT-TYPE
SYNTAX OCTET STRING(SIZE(0..507))
MAX-ACCESS read-only
STATUS current
1750 DESCRIPTION
"The string value used to identify the organizationally
defined information of the remote system. The encoding for
this object should be as defined for SnmpAdminString TC."
REFERENCE
"IEEE 802.1AB/D8 section 9.5.1.5"
::= { lldpRemOrgDefInfoEntry 4 }

1760 --
-- *****
-- L L D P M I B N O T I F I C A T I O N S
-- *****
1765 --

1770 lldpNotificationPrefix OBJECT IDENTIFIER ::= { lldpNotifications 0 }

1775 lldpRemTablesChange NOTIFICATION-TYPE
OBJECTS {
lldpStatsRemTablesInserts,
lldpStatsRemTablesDeletes,
lldpStatsRemTablesDrops,
lldpStatsRemTablesAgeouts
}
1780 STATUS current
DESCRIPTION
"A lldpRemTablesChange notification is sent when the value
of lldpStatsRemTableLastChangeTime changes. It can be
utilized by an NMS to trigger LLDP remote systems table
maintenance polls.

Note that transmission of lldpRemTablesChange
1785 notifications are throttled by the agent, as specified by the
'lldpNotificationInterval' object."
::= { lldpNotificationPrefix 1 }

1790 --
-- *****
-- L L D P M I B C O N F O R M A N C E
-- *****
1795 --

1800 lldpCompliances OBJECT IDENTIFIER ::= { lldpConformance 1 }
lldpGroups OBJECT IDENTIFIER ::= { lldpConformance 2 }

1800 -- compliance statements
lldpCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION

```

```

lldpRemOrgDefInfoIndex OBJECT-TYPE
SYNTAX Integer32(1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This object represents an arbitrary local integer value
used by this agent to identify a particular unrecognized
organizationally defined information instance, unique only
for the lldpRemOrgDefInfoOUI and lldpRemOrgDefInfoSubtype
from the same remote system.

A particular lldpRemOrgDefInfoIndex value may be reused
in the event an entry is aged out and later re-learned
with the same (or different) lldpRemOrgDefInfoOUI and
lldpRemOrgDefInfoSubtype.

An agent is encouraged to assign monotonically increasing
index values to new entries, starting with one, after each
reboot. It is considered unlikely that the
lldpRemOrgDefInfoIndex will wrap between reboots."
::= { lldpRemOrgDefInfoEntry 3 }

lldpRemOrgDefInfo OBJECT-TYPE
SYNTAX OCTET STRING(SIZE(0..507))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The string value used to identify the organizationally
defined information of the remote system. The encoding for
this object should be as defined for SnmpAdminString TC."
REFERENCE
"IEEE 802.1AB/D8 section 9.5.1.5"
::= { lldpRemOrgDefInfoEntry 4 }

-- *****
-- L L D P M I B N O T I F I C A T I O N S
-- *****
1770 lldpNotificationPrefix OBJECT IDENTIFIER ::= { lldpNotifications 0 }

1775 lldpRemTablesChange NOTIFICATION-TYPE
OBJECTS {
lldpStatsRemTablesNumInserts,
lldpStatsRemTablesNumDeletes,
lldpStatsRemTablesNumDrops,
lldpStatsRemTablesNumAgeouts
}
1780 STATUS current
DESCRIPTION
"A lldpRemTablesChange notification is sent when the value
of lldpStatsRemTableLastChangeTime changes. It can be
utilized by an NMS to trigger LLDP remote systems table
maintenance polls.

Note that transmission of lldpRemTablesChange
1785 notifications are throttled by the agent, as specified by the
'lldpNotificationInterval' object."
::= { lldpNotificationPrefix 1 }

1790 --
-- *****
-- L L D P M I B C O N F O R M A N C E
-- *****
1795 --

1800 lldpCompliances OBJECT IDENTIFIER ::= { lldpConformance 1 }
lldpGroups OBJECT IDENTIFIER ::= { lldpConformance 2 }

1800 -- compliance statements
lldpCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION

```

```

1805      "The compliance statement for SNMP entities which implement
       the LLDP MIB."
MODULE -- this module
MANDATORY-GROUPS {
1810      lldpConfigGroup,
      lldpStatsGroup,
      lldpLocSysGroup,
      lldpRemSysGroup,
      lldpNotificationsGroup
}
1815      GROUP lldpOptLocSysGroup
      DESCRIPTION
          "This object represent the information associated with
           the optional TLVs, therefore the agent may not implement
           them."
1820      ::= { lldpCompliances 1 }

-- MIB groupings

lldpConfigGroup OBJECT-GROUP
1825      OBJECTS {
          lldpMessageTxInterval,
          lldpMessageTxHoldMultiplier,
          lldpReinitDelay,
          lldpTxDelay,
          lldpNotificationInterval,
          lldpPortConfigAdminStatus,
          lldpPortConfigNotificationEnable,
          lldpPortConfigTLVsTxEnable,
          lldpConfigManAddrPortsTxEnable
}
1830      STATUS current
DESCRIPTION
    "The collection of objects which are used to configure the
     LLDP implementation behavior.

1840      This group is mandatory for agents which implement the LLDP."
      ::= { lldpGroups 1 }

lldpStatsGroup OBJECT-GROUP
1845      OBJECTS {
          lldpStatsRemTablesLastChangeTime,
          lldpStatsRemTablesInserts,
          lldpStatsRemTablesDeletes,
          lldpStatsRemTablesDrops,
          lldpStatsRemTablesAgeouts,
          lldpStatsPortFramesDiscardedTotal,
          lldpStatsPortFramesInErrors,
          lldpStatsPortFramesInTotal,
          lldpStatsPortFramesOutTotal,
1855          lldpStatsPortTLVsInErrors,
          lldpStatsPortTLVsDiscardedTotal,
          lldpStatsPortTLVsUnrecognizedTotal,
          lldpStatsPortCounterDisconTime,
          lldpStatsPortNumAgeouts
}
1860      STATUS current
DESCRIPTION
    "The collection of objects which are used to represent LLDP
     statistics.

1865      This group is mandatory for agents which implement the LLDP."
      ::= { lldpGroups 2 }

lldpLocSysGroup OBJECT-GROUP
1870      OBJECTS {
          lldpLocChassisType,
          lldpLocChassisId,
          lldpLocPortType,
          lldpLocPortId
}
1875      STATUS current
DESCRIPTION
    "The collection of objects which are used to represent LLDP
     Local System Information. The objects represent the
     information associated with the mandatory TLVs.

1880      This group is mandatory for agents which implement the LLDP."
      ::= { lldpGroups 3 }

1885 lldpOptLocSysGroup OBJECT-GROUP
      OBJECTS {

```

```

1890     lldpLocPortDesc,
1891     lldpLocSysDesc,
1892     lldpLocSysName,
1893     lldpLocSysCapSupported,
1894     lldpLocSysCapEnabled,
1895     lldpLocManAddrLen,
1896     lldpLocManAddrIfSubtype,
1897     lldpLocManAddrIfId,
1898     lldpLocManAddrOID
1899   }
1900   STATUS current
1901   DESCRIPTION
1902     "The collection of objects which are used to represent optional
1903     LLDP Local System Information. The objects represent the
1904     information associated with the optional TLVs.

1905   This group is optional for agents which implement the LLDP."
1906   ::= { lldpGroups 4 }

1907   lldpRemSysGroup OBJECT-GROUP
1908     OBJECTS {
1909       lldpRemRemoteChassisType,
1910       lldpRemRemoteChassis,
1911       lldpRemRemotePortType,
1912       lldpRemRemotePort,
1913       lldpRemPortDesc,
1914       lldpRemSysName,
1915       lldpRemSysDesc,
1916       lldpRemSysCapSupported,
1917       lldpRemSysCapEnabled,
1918       lldpRemManAddrIfSubtype,
1919       lldpRemManAddrIfId,
1920       lldpRemManAddrOID,
1921       lldpRemUnknownTLVInfo,
1922       lldpRemOrgDefInfo
1923     }
1924   STATUS current
1925   DESCRIPTION
1926     "The collection of objects which are used to represent
1927     LLDP Remote Systems Information. The objects represent the
1928     information associated with the basic TLV set. Please note
1929     that even the agent doesn't implement some of the optional
1930     TLVs, it shall recognize all the optional TLV information
1931     that the remote system may advertise.

1932   This group is mandatory for agents which implement the LLDP."
1933   ::= { lldpGroups 5 }

1934   lldpNotificationsGroup NOTIFICATION-GROUP
1935     NOTIFICATIONS {
1936       lldpRemTablesChange
1937     }
1938   STATUS current
1939   DESCRIPTION
1940     "The collection of notifications used to indicate LLDP MIB
1941     data consistency and general status information.

1942   This group is mandatory for agents which implement the LLDP."
1943   ::= { lldpGroups 6 }

1944 END
1945

      lldpLocPortDesc,
      lldpLocSysDesc,
      lldpLocSysName,
      lldpLocSysCapSupported,
      lldpLocSysCapEnabled,
      lldpLocManAddrIfSubtype,
      lldpLocManAddrIfId,
      lldpLocManAddrOID
      <
      lldpLocManAddrOID
      }

      STATUS current
      DESCRIPTION
      "The collection of objects which are used to represent optional
      LLDP Local System Information. The objects represent the
      information associated with the optional TLVs.

      This group is optional for agents which implement the LLDP."
      ::= { lldpGroups 4 }

      lldpRemSysGroup OBJECT-GROUP
      OBJECTS {
        lldpRemRemoteChassisType,
        lldpRemRemoteChassis,
        lldpRemRemotePortType,
        lldpRemRemotePort,
        lldpRemPortDesc,
        lldpRemSysName,
        lldpRemSysDesc,
        lldpRemSysCapSupported,
        lldpRemSysCapEnabled,
        lldpRemManAddrIfSubtype,
        lldpRemManAddrIfId,
        lldpRemManAddrOID,
        lldpRemUnknownTLVInfo,
        lldpRemOrgDefInfo
      }
      STATUS current
      DESCRIPTION
      "The collection of objects which are used to represent
      LLDP Remote Systems Information. The objects represent the
      information associated with the basic TLV set. Please note
      that even the agent doesn't implement some of the optional
      TLVs, it shall recognize all the optional TLV information
      that the remote system may advertise.

      This group is mandatory for agents which implement the LLDP."
      ::= { lldpGroups 5 }

      lldpNotificationsGroup NOTIFICATION-GROUP
      NOTIFICATIONS {
        lldpRemTablesChange
      }
      STATUS current
      DESCRIPTION
      "The collection of notifications used to indicate LLDP MIB
      data consistency and general status information.

      This group is mandatory for agents which implement the LLDP."
      ::= { lldpGroups 6 }

END

```