

Missing YANG Objects in 802.3

for LLDP Extension

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Martin Mittelberger (Siemens AG)

Overview

- IEEE P802.3-2018 defines managed objects
- IEEE P802.3.1-2013 defines the MIB
- IEEE P803.3.2-2018 defines YANG data models

Problem:

There are not all required managed objects of 802.3 defined in the 802.3.2 YANG models

Missing Information in the 802.3 YANG module

- YANG module for LLDP (Clause 30.12)
 - oLldpXdot3Config managed object class (30.12.1)
 - oLldpXdot3LocSystemsGroup managed object class (30.12.2)
 - oLldpXdot3RemSystemsGroup managed object class (30.12.3)

- YANG „typedef“ file for MAU-Types (IANA-MAU-MIB)
 - to contain YANG identities for IANA MAU Types
 - Latest update 2023-02-06: <https://www.iana.org/assignments/ianamau-mib/ianamau-mib.xhtml>

Details 30.12.1

oLldpXdot3Config managed object class (30.12.1)		
aLldpXdot3PortConfigTLVsTxEnable	ATTRIBUTE	GET-SET

Details 30.12.2

oLdpXdot3LocSystemsGroup managed object class (30.12.2)		
aLdpXdot3LocPortAutoNegSupported	ATTRIBUTE	GET
aLdpXdot3LocPortAutoNegEnabled	ATTRIBUTE	GET
aLdpXdot3LocPortAutoNegAdvertisedCap	ATTRIBUTE	GET
aLdpXdot3LocPortOperMauType	ATTRIBUTE	GET
aLdpXdot3LocPowerPortClass	ATTRIBUTE	GET
aLdpXdot3LocPowerMDISupported	ATTRIBUTE	GET
aLdpXdot3LocPowerMDIEnabled	ATTRIBUTE	GET
aLdpXdot3LocPowerPairControlable	ATTRIBUTE	GET
aLdpXdot3LocPowerPairs	ATTRIBUTE	GET
aLdpXdot3LocPowerClass	ATTRIBUTE	GET
aLdpXdot3LocLinkAggStatus	ATTRIBUTE	GET
aLdpXdot3LocLinkAggPortId	ATTRIBUTE	GET
aLdpXdot3LocMaxFrameSize	ATTRIBUTE	GET
aLdpXdot3LocPowerType	ATTRIBUTE	GET
aLdpXdot3LocPowerSource	ATTRIBUTE	GET
aLdpXdot3LocPowerPriority	ATTRIBUTE	GET-SET
aLdpXdot3LocPDRrequestedPowerValue	ATTRIBUTE	GET
aLdpXdot3LocPSEAllocatedPowerValue	ATTRIBUTE	GET
aLdpXdot3LocResponseTime	ATTRIBUTE	GET
aLdpXdot3LocReady	ATTRIBUTE	GET
aLdpXdot3LocReducedOperationPowerValue	ATTRIBUTE	GET
aLdpXdot3LocTxTwSys	ATTRIBUTE	GET
aLdpXdot3LocTxTwSysEcho	ATTRIBUTE	GET
aLdpXdot3LocRxTwSys	ATTRIBUTE	GET
aLdpXdot3LocRxTwSysEcho	ATTRIBUTE	GET
aLdpXdot3LocFbTwSys	ATTRIBUTE	GET
aLdpXdot3TxDllReady	ATTRIBUTE	GET

aLdpXdot3RxDllReady	ATTRIBUTE	GET
aLdpXdot3LocDllEnabled	ATTRIBUTE	GET
aLdpXdot3LocTxFw	ATTRIBUTE	GET
aLdpXdot3LocTxFwEcho	ATTRIBUTE	GET
aLdpXdot3LocRxFw	ATTRIBUTE	GET
aLdpXdot3LocRxFwEcho	ATTRIBUTE	GET

Details 30.12.3

oLldpXdot3RemSystemsGroup managed object class (30.12.3)		
aLldpXdot3RemPortAutoNegSupported	ATTRIBUTE	GET
aLldpXdot3RemPortAutoNegEnabled	ATTRIBUTE	GET
aLldpXdot3RemPortAutoNegAdvertisedCap	ATTRIBUTE	GET
aLldpXdot3RemPortOperMauType	ATTRIBUTE	GET
aLldpXdot3RemPowerPortClass	ATTRIBUTE	GET
aLldpXdot3RemPowerMDISupported	ATTRIBUTE	GET
aLldpXdot3RemPowerMDIEnabled	ATTRIBUTE	GET
aLldpXdot3RemPowerPairControlable	ATTRIBUTE	GET
aLldpXdot3RemPowerPairs	ATTRIBUTE	GET
aLldpXdot3RemPowerClass	ATTRIBUTE	GET
aLldpXdot3RemLinkAggStatus	ATTRIBUTE	GET
aLldpXdot3RemLinkAggPortId	ATTRIBUTE	GET
aLldpXdot3RemMaxFrameSize	ATTRIBUTE	GET
aLldpXdot3RemPowerType	ATTRIBUTE	GET
aLldpXdot3RemPowerSource	ATTRIBUTE	GET
aLldpXdot3RemPowerPriority	ATTRIBUTE	GET
aLldpXdot3RemPDRrequestedPowerValue	ATTRIBUTE	GET
aLldpXdot3RemPSEAllocatedPowerValue	ATTRIBUTE	GET
aLldpXdot3RemTxTwSys	ATTRIBUTE	GET
aLldpXdot3RemTxTwSysEcho	ATTRIBUTE	GET
aLldpXdot3RemRxTwSys	ATTRIBUTE	GET
aLldpXdot3RemRxTwSysEcho	ATTRIBUTE	GET
aLldpXdot3RemFbTwSys	ATTRIBUTE	GET
aLldpXdot3RemTxFw	ATTRIBUTE	GET
aLldpXdot3RemTxFwEcho	ATTRIBUTE	GET
aLldpXdot3RemRxFw	ATTRIBUTE	GET
aLldpXdot3RemRxFwEcho	ATTRIBUTE	GET

Questions?