

PSE module update

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Extension for future single-pair-pse

- Comment #1:
 - Need to consider 802.3cg work in model structure/naming for single pair, there may be more than one method of detection and/or powering.
- Resolution:
 - Mark the status of appropriate nodes as “deprecated”
 - Augment the single pair part with new features for 802.3cg PoE.

Pre-configuration in PoDL

- Comment #2:
 - Consider that many PoDL systems will be pre-configured rather than plug/play/detected

Managed Object for PoDL

oPoDLPSE managed object class (30.15)					
aPoDLPSEID	ATTRIBUTE	GET	X		
aPoDLPSEAdminState	ATTRIBUTE	GET	X		
aPoDLPSEPowerDetectionStatus	ATTRIBUTE	GET	X		
aPoDLPSEType	ATTRIBUTE	GET	X		
aPoDLPSEDetectedPDType	ATTRIBUTE	GET	X		
aPoDLPSEDetectedPDPowerClass	ATTRIBUTE	GET	X		
aPoDLPSEInvalidSignatureCounter	ATTRIBUTE	GET			X
aPoDLPSEInvalidClassCounter	ATTRIBUTE	GET			X
aPoDLPSEPowerDeniedCounter	ATTRIBUTE	GET			X
aPoDLPSEOverLoadCounter	ATTRIBUTE	GET			X
aPoDLPSEMaintainFullVoltageSignatureAbsentCounter	ATTRIBUTE	GET			X
aPoDLPSEActualPower	ATTRIBUTE	GET			X
aPoDLPSEPowerAccuracy	ATTRIBUTE	GET			X
aPoDLPSECumulativeEnergy	ATTRIBUTE	GET			X
acPoDLPSEAdminControl	ACTION			X	

- Attributes are all read-only and one action provided to enable/disable the PoDL PSE function.
- Attributes such as Detection status, PD Type, detected PD power class only provide GET operation but not SET operation, which means system cannot change these configurations but only read them from registers.

Single-pair-pse configuration

- Configuration

Managed Objects	Attributes	r/w	description
single-pair-pse	poe-enable	r/w	30.15.1.1.2 aPoDLPSEAdminState

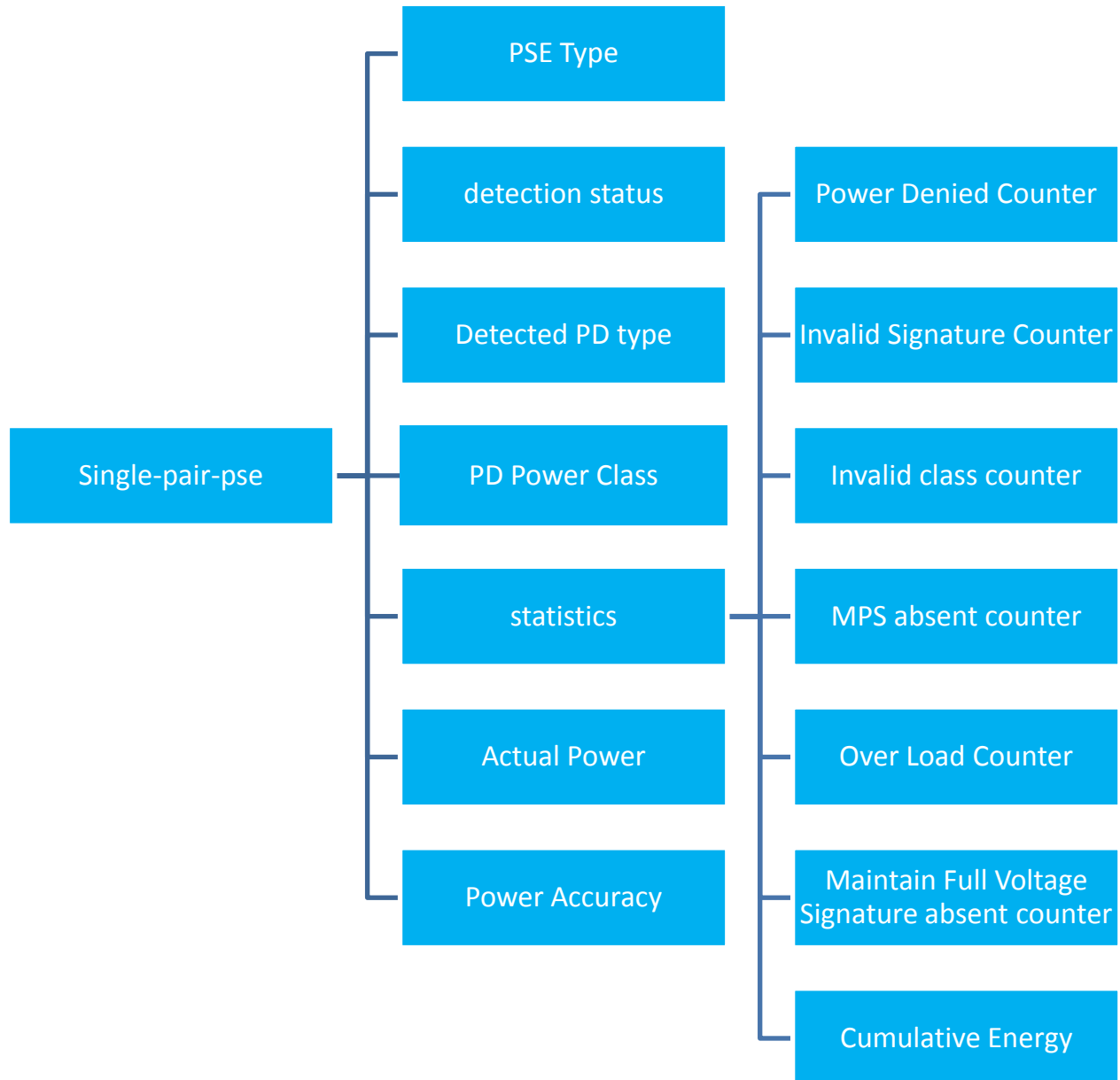
Should we provide more attributes for configuration?

Operational state

- Operational State

Managed Objects	attributes	r/w	description
single-pair-pse	detection-status	ro	30.15.1.1.3 aPoDLPSEPowerDetectionStatus
	detected-pd-type	ro	30.15.1.1.5 aPoDLPSEDetectedPDType
	Pse-type	Ro	30.15.1.1.4 aPoDLPSEType
	Pd-power-class	ro	30.15.1.1.6 aPoDLPSEDetectedPDPowerClass
	statistics	ro	30.15.1.1.7 aPoDLPSEInvalidSignatureCounter 30.15.1.1.8 aPoDLPSEInvalidClassCounter 30.15.1.1.9 aPoDLPSEPowerDeniedCounter 30.15.1.1.10 aPoDLPSEOverLoadCounter 30.15.1.1.11 aPoDLPSEMaintainFullVoltageSignatureAbsentCounter 30.15.1.1.14 aPoDLPSECumulativeEnergy
	actual Power	ro	30.15.1.1.12 aPoDLPSEActualPower
	Power Accuracy	ro	30.15.1.1.13 aPoDLPSEPowerAccuracy

Single-pair-pse Operational state



Questions?