

# Five Criteria Compatibility

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**Black text** → IEEE 802 criteria

**Blue text** → IEEE 802.3 criteria

# Compatibility

IEEE 802 defines a family of standards. All standards should be in conformance with the IEEE 802.1 Architecture, Management, and Interworking documents as follows: IEEE 802. Overview and Architecture, IEEE 802.1D, IEEE 802.1Q, and parts of IEEE 802.1F. If any variances in conformance emerge, they shall be thoroughly disclosed and reviewed with IEEE 802.1.

Each standard in the IEEE 802 family of standards shall include a definition of managed objects that are compatible with systems management standards.

- a) Compatibility with IEEE Std 802.3
- b) Conformance with the IEEE Std 802.3 MAC
- c) Managed object definitions compatible with SNMP

# Compatibility with IEEE Std 802.3

- » As an amendment to IEEE Std 802.3-2008, as amended by IEEE Std 802.3av-2009, the proposed project will remain in conformance with the IEEE 802 Overview and Architecture, as well as the bridging standards IEEE Std 802.1D and IEEE Std 802.1Q.
- » Moreover, the proposed project will build on 1G-EPON and 10G-EPON architecture included in IEEE Std 802.3-2008 and IEEE Std 802.3av-2009, respectively, adding support for new power budget classes, supporting at least 29 dB for 1G-EPON and more than 29dB for 10G-EPON.

# Conformance with the IEEE Std 802.3 MAC

- » The proposed amendment will conform to the full-duplex operating mode of the IEEE 802.3 MAC, as defined in Annex 4A, following the existing 1G-EPON and 10G-EPON specifications.
- » Utilizing the same MAC, PCS, and PMA as 1G-EPON and 10G-EPON, the new PMD maintains the same relationship to IEEE Std 802.3 as IEEE Std 802.3-2008 1G-EPON and IEEE Std 802.3av 10G-EPON. The proposed amendment will conform to the 10 Gb/s Media Independent Interface (XGMII) and 1 Gb/s Media Independent Interface (GMII) definitions, following the existing 1G-EPON and 10G-EPON specifications.
- » Newly specified power budget extender (PBEx) devices will use the same building blocks as 1G-EPON and 10G-EPON devices and follow the layered 802 model of Ethernet devices.

# Managed object definitions compatible with SNMP

- » The project will include a protocol independent specification of managed objects with SNMP management capability, provided by IEEE Std 802.3.1-2011.

# Motion

Approve the response to Compatibility Criterion as shown on slides 2-5 in ExEPON\_1111\_5Crit\_Compatibility.pdf

Moved by: Marek Hajduczenia

Seconded by:

Yes:

No:

Abstain: