



P802.3ae Nomenclature

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Nomenclature Guidelines

- Method for interpreting port types
- As per Clause 1.2.3
 - <data rate in Mb/s> <medium type>
<maximum segment length (x100m)>
- 802.3z nomenclature
 - <maximum segment length> not used
 - <data rate in Mb/s> <medium type>
<coding scheme>




802.3z Nomenclature

- Decoding 802.3z
 - Data rate is 1000BASE for 1000Mb/s baseband
 - Medium type:
 - C = Copper PMD
 - S = Short wavelength PMD
 - L = Long wavelength PMD
 - Coding scheme:
 - Block coding = X



P802.3ae Nomenclature

- <data rate in b/s> <medium type>
<# of wavelengths> <coding scheme>
 - Data rate is 10GBASE
 - 10G = 10 Gb/s
 - BASE... all uppercase
 - Medium type
 - S = Short wavelength (850nm)
 - L = Long wavelength (1300nm)
 - E = Extra long wavelength (1500nm)
 - Wavelengths
 - 1 = Serial (not required as Serial is implied)
 - n = number of wavelengths (WDM)
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Coding Scheme

- Each PMD selected results in 2 coding schemes (LAN and WAN)
 - No means to reduce coding schemes
 - No proposal or objective to determine Link Partner capabilities
 - Therefore, automatic switching between WAN/LAN is not possible with current proposals/objectives
- Coding scheme
 - X = LAN (8b10b or 64/66 block coding)
 - W = WAN (SONET encapsulated coding)



P802.3ae Port Nomenclature

With 5 PMDs:

- 1) 10GBASE-SX (850nm serial LAN)
 - 2) 10GBASE-LX (1300nm serial LAN)
 - 3) 10GBASE-EX (1500nm serial LAN)
 - 4) 10GBASE-SW (850nm serial WAN)
 - 5) 10GBASE-LW (1300nm serial WAN)
 - 6) 10GBASE-EW (1500nm serial WAN)
 - 7) 10GBASE-S4X (850nm WDM LAN)
 - 8) 10GBASE-L4X (1300nm WDM LAN)
 - 9) 10GBASE-S4W (850nm WDM WAN)
 - 10) 10GBASE-L4W (1300nm WDM WAN)
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