

Technical specifications

Ethernet VPN

Ethernet

| | | |
|---------------------------------------|---|--|
| Service type | E-Line (Ethernet Virtual Private Line), E-LAN (Ethernet Virtual Private LAN) | |
| EVC quality | Basic | Premium |
| Available bandwidths | (5, 10, 20) ¹ , 50, 100, 200, 500, 900, 1000, 2000, 5000, 10000 | |
| Throughput guarantee ² | 20% | 99,9% |
| Demarcation at customer location | CPE or ODF | |
| VLAN transparent | Yes | |
| Frame Delay | Best effort | < 10 ms |
| Frame Delay Variation (Jitter) | | < 5 ms |
| Frame Dela Frame Loss Ratio | | < 0.1% |
| Supported protocols | All OSI layer 3 protocols | |
| | | The most common OSI layer 2 protocols ³ |
| Tunneled traffic | Tunneled OSI layer 2 control frames will not be accepted on the UNI | |
| Max. # MAC addresses | E-Line: unrestricted; E-LAN: 5000 per UNI | |
| MTU size (standard) | 1596 bytes | |
| MTU size (jumbo frames, optional) | 9000 bytes | |
| Priority (IEEE802.1p) | Customer P-bits will not be changed and will be transmitted without the value affecting the prioritization of the traffic in the Eurofiber Network. | |
| Ethertype | 0x8100 | |
| Maximum Broadcast / Multicast traffic | 1% of the interface bandwidth | |

¹Bandwidths less than 50 Mb/s only as additional EVC at the same location

²Throughput guarantee includes frame header

³CDP, STP, VTP and LACP are the protocols currently supported. The 802.1ea (mac-sec) protocol is not supported. An up-to-date list of tested OSI layer 2 protocols is available on request. An untested protocol can be tested for transparency on request.

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Physical interfaces

| Demarcation | Interface connector cable type | Reach | 1 Gb/s | 10 Gb/s | 100 Gb/s | Customer location | Customer | NNI location |
|-------------|---------------------------------------|------------|----------|---------|----------|-------------------|----------|--------------|
| CPE 1G | 1000BASE-SX LC Multi Mode | 550 meters | Optional | n/a | | ✓ | | |
| CPE 1G | 1000BASE-LX LC Single Mode | 10 km | Optional | n/a | | ✓ | | |
| CPE 10G | 110/100/1000BASE-T RJ-45 UTP | 90 meters | Standard | n/a | | ✓ | | |
| CPE 10G | 1000BASE-SX LC Multi Mode | 550 meters | Optional | n/a | | ✓ | | |
| CPE 10G | 1000BASE-LX LC Single Mode | 10 km | Optional | n/a | | ✓ | | |
| CPE 10G | 10GBASE-SR LC Multi Mode | 400 meters | n/a | ✓ | | ✓ | | |
| CPE 10G | 10GBASE-LR LC Single Mode | 10 km | n/a | ✓ | | ✓ | | |
| E-POP 1G | 1000BASE-SX LC Multi Mode | 550 meters | Optional | n/a | | | ✓ | ✓ |
| E-POP 1G | 1000BASE-LX LC Single Mode | 10 km | Standard | n/a | | | ✓ | ✓ |
| E-POP 10G | 10GBASE-LR LC Single Mode | 10 km | n/a | ✓ | | | ✓ | ✓ |
| E-POP 100G | 100GBASE-LR4 LC Single Mode | 10 km | n/a | n/a | ✓ | | | ✓ |
| ODF 1G | 1000BASE-LX/LH SC/APC Single Mode | 10 km | ✓ | n/a | | ✓ | | |
| ODF 1G | 1000BASE-EX SC/APC Single Mode | 40 km | ✓ | n/a | | ✓ | | |
| ODF 1G | 1000BASE-ZX SC/APC Single Mode | 80 km | ✓ | n/a | | ✓ | | |
| ODF 10G | 10GBASE-LR SC/APC Single Mode | 10 km | n/a | ✓ | | | | |
| ODF 10G | 10GBASE-ER SC/APC Single Mode | 40 km | n/a | ✓ | | | | |
| ODF 10G | 10GBASE-ZR SC/APC Single Mode | 80 km | n/a | ✓ | | ✓ | | |

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