Technical specifications
WDM (Encrypted)

WDM Private Connection

WDM Private Connection characteristics	
Connection options	Single Dual Homed
Ethernet Bandwidth (Gb/s)	10, 40[1], 100[2]
Fiber Channel Bandwidth (Gb/s)	1, 2, 4, 8, 16[1], 32[1]
SONET/SDH Bandwidth (Gb/s)	10
Latency per kilometer fiber-optic route	5 µsec
Standard interfaces	
Ethernet (10Gb/s)	10GBASE-SR (300m), MMF OM3 or better 10GBASE-LR (10km), SMF[4] 10GBASE-ER (40km), SMF[5] 10GBASE-ZR (80km), SMF[5]
Ethernet (40Gb/s)[1]	40GBASE-LR4 (10km), SMF[4]
Ethernet (100Gb/s)[2]	100GBASE-LR4 (10km), SMF[4] 100GBASE-ER4 (30km), SMF[5] 100GBASE-ER4L (30km), SMF[5]
Fiber Channel	FC1, FC2, FC4, FC8, FC16[1], FC32[1] (100m) MMF FC1, FC2, FC4, FC8, FC32[1] (10km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10km) SMF OC-192/STM-64 IR-2 (40km) SMF
OTN	OTU-2, OTU-2e SR-1 (10km) SMF OTU-2, OTU-2e IR-2 (40km) SMF OTU-4 (10km)[2] SMF

WDM Private Network

WDM Private Network characteristics	
Connection options	Single Dual via geographically separated routes
Ethernet Bandwidth (Gb/s)	1, 10, 40[1],100
Fiber Channel Bandwidth (Gb/s)	1, 2, 4, 8, 16[1], 32[1]
SONET/SDH Bandwidth (Gb/s)	10
OTN framing types	OTU-2, OTU-2e
CPE management	At one of the customer locations
Latency per kilometer fiber-optic route	5 µsec
Compatible with Fiber Channel switches of the following vendors	HP, Brocade, IBM, Cisco, Netapp
Standard interfaces[3]	
Ethernet 1Gb/s	1000BASE-SX (500m) MMF (OM3 or better) 1000BASE-LX (10km) SMF
Ethernet 10Gb/s	10GBASE-SR (300m) MMF (OM3 or better) 10GBASE-LR (10km) SMF
Ethernet 40Gb/s[1]	40GBASE-LR4 (10km) SMF[1]
Ethernet 100Gb/s	100GBASE-LR4 (10km) SMF
Fiber Channel	FC1, FC2, FC4, FC8, FC16[1], FC32[1] (100m) MMF FC1, FC2, FC4, FC8, FC32[1] (10km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10 km) SMF
OTN	OTU-2, OTU-2e SR-1 (10km) SMF OTU-2, OTU-2e IR-2 (40km) SMF OTU-4 (10km)

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Technical specifications
WDM (Encrypted)

WDM Encrypted Private Connection

WDM Encrypted Private Connection characteristics	
Connection options	Single Dual Homed
Bandwidth Ethernet (Gb/s)	10
Latency per kilometer fiber-optic route	5 µsec
Standard interfaces[3]	
Ethernet 10 Gb/s	10GBASE-LR (10km) SMF

WDM Encrypted Private Network

WDM Encrypted Private Network characteristics	
Connection options	Single Dual via geographically separated routes
Bandwidth Ethernet (Gb/s)	10, 40[1], 100
Bandwidth Fiber Channel (Gb/s)	4, 8
Bandwidth SONET/SDH (Gb/s)	10
Management CPE	At all customer locations
Latency per kilometer fiber-optic route	5 µsec
Compatible with Fiber Channel switches of the following vendors	HP, Brocade, IBM, Cisco, Netapp
Standard interfaces[3]	
Ethernet 10 Gb/s	10GBASE-SR (300m) MMF (OM3 or better) 10GBASE-LR (10km) SMF
Ethernet 40 Gb/s[1]	40GBASE-LR4 (10km) SMF[1]
Ethernet 100 Gb/s	100GBASE-LR4 (10km) SMF
Fiber Channel	FC4, FC8 (100m) MMF FC4, FC8 (10km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10km) SMF

[1] 40 Gb/s, FC16, FC32: on request
[2] 100G is rolled out geographically between 2020 and 2023
[3] Standard interfaces are per default SMF (Single Mode Fiber), the distance effectively supported being subject
   to the specific optical attenuation of the concerned circuit. MMF (Multimode Fiber) on request (with CPE).
[4] With or without CPE (MMF not supported in case of no CPE)
[5] Without CPE (MMF not supported in case of no CPE)

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