



Leading Network

Network Specifications

Architecture

- 4.8 terabits per second network switching capacity
- Redundancy in switching locations and POP sites
- Standards-based Ethernet backbone for wirespeed switching

Wirespeed switching performance

- Port-to-port latency of 10 to 20 microseconds
- All access/backbone trunks carried over high-quality fibre
- Quality-of-service and bandwidth management are performed in hardware, with no impact on network performance flexibility
- Standard offering includes native Ethernet interfaces
- 10 Base T, 100 Base T, Gigabit Ethernet LX
- Also available: 10 Gigabit Ethernet (LAN PHY, Long and Extended Reach)

Transparent layer 2 functionality

- Standards-based VLAN technology as per 802.1q
- Point-to-point and multi-point-to-multi-point connectivity over any kind of interface
- Multiple VLANs can be provided over one physical port
- Completely transparent and interoperable with customers' standards-based network protocols, applications and spanning tree configurations

Security

- Broadcast domains restricted to individual VLANs and will not "leak" between them
- 24x7 network surveillance: our state-of-the-art network operations centre continuously maintains and monitors the entire network

Reliability

- Our backbone is built around multiple fibre rings and MPLS fully meshed topologies
- Recovery times measured in milliseconds based on MPLS fast reroute configuration

Standards compliance

- Relevant Ethernet standards:
 - 802.3 10 BaseT
 - 802.3u 100 BaseTX, 100 BaseFX
 - 802.3z 1000 BaseLX
 - 802.3ae 10 Gigabit Ethernet
 - 802.3ad Link Aggregation
 - 802.1p/q VLAN Tagging