



BUSINESS ETHERNET

The WAN with LAN Quality

Business Ethernet is a virtual Ethernet service (Virtual Private Wire Service) for connecting two Ethernet terminal devices (such as two routers). Depending on the capacity of the connection line, one or more Ethernet connections can be terminated on a single connection. The Ethernet connection is identified via a VLAN tag. The service port (Ethernet) can be either a trunk port (802.1Q) or an access port. In DSL connections, four access ports or a trunk port are supported by a maximum of four VLANs. VLAN transparency, i.e. the transparent transfer of the VLAN tags, is available for optical fibre connections using the QinQ option.

Bandwidths of 1 Mbit/s to 1 Gbit/s are available for Business Ethernet services. Subrate service bandwidths are also available for the standard Ethernet bandwidths of 10/100/1000 Mbit/s.

Fully transparent Ethernet connections with a bandwidth from 1 Gbit/s upwards are described in the "GigaClass Services" fact sheet.

Increased availability with redundancy

The availability of data and services is critical for the business of any company. Sunrise Business multi-platform and multi-access infrastructures provide you with a broad range of potential redundancy concepts, guaranteeing maximum availability and thus optimally meeting your individual needs.

Increased availability of the Business Ethernet services is based on two levels:

Customer connection level: On this level, availability is increased by two CPEs and two physically independent customer connections (with or without path redundancy) per location. Available access technologies: optical fibre and DSL.

Platform level: The redundancy option on the overall network is available for the highest possible availability; the Business Ethernet service is built up on two different and mutually independent networks. The overall network redundancy is implemented in conjunction with redundant customer connections: every location is connected using path-redundancy to the two independent networks using two CPEs.

Customer locations connected with redundancy have a service availability of 99.98% (Service Level «Platinum») or higher.

Standard features

Network access	Optical fiber or DSL
Bandwidths	1 Mbit/s to 1 Gbit/s
LAN interfaces	Ethernet 10/100/1000 Mbit/s (RJ45) Ethernet 1000 Mbit/s (850 nm MMF & 1310 SMF) Ethernet 1000 Mbit/s (1470-1610 nm SMF/CWDM)
Standard Ethernet frame size	Payload 1500 Byte
Ethernet port type	Access port or trunk port (802.1Q)
Services with a DSL connection	4 access ports or 1 trunk port with a maximum of 4 VLANs (services)
Services with optical fibre connection	Access ports and/or trunk ports
Number of MAC addresses	50
Service and support	Fault line 7 × 24: 365 days Support time 5 × 11: Monday to Friday, from 7:00 to 18:00 Service level Bronze: 99.80% availability per year, max. 8 hours downtime during the support time

Options

QinQ support	Supported on optical fibre and SDSL connections
Redundancy	Redundancy of transmission and connecting devices (optical fiber)
Service and support	Extended support times 6 × 16: Monday to Saturday, from 6:00 to 22:00 7 × 24: 365 days Extended service levels Silver: 99.90% availability per year, max. 6 hours downtime Gold: 99.95% availability per year, max. 2 hours downtime* Platinum: 99.98% availability per year, max. 1 hours downtime* The downtimes cited above apply during support hours

* Prerequisites: Service must be connected using path redundancy.

The information in this document does not constitute a binding offer. Subject to change at any time.

Please don't hesitate to call us if you would like more information.

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