Business VPN

The secure and reliable business network

Business VPN provides you with a private IP company network.

Your company's sites are connected to a national IP-based company network via optical fiber or DSL lines. Symmetrical bandwidths of 1 Mbit/s to 10 Gbit/s are available for Business VPN. Depending on your needs, the company network can also be distributed over several VPNs, such as an Intranet for intra-office communication and an application network for servers with sensitive company data.

By default, the company network is created with a full mesh configu-ration. This enables each location to communicate with every other location. Optionally, the company network can also be designed in a hub-and-spoke configuration in which the data flow is controlled via the hub (central location).

To ensure optimum use of the bandwidths, you have a choice of up to four service classes. Should the reserved bandwidth of a service class not be used, the unused bandwidth is then automatically available to the other service classes. The existing IP addresses need neither be changed nor adapted. Your Business VPN is made up of the sum of your IP networks.

Business SecureVPN

Business VPN can be optionally extended into Business Secure-VPN. The data traffic is transferred in encrypted form in Business Se-cureVPN. The full mesh or hub-and-spoke VPN configuration can be retained without modification. The data are encrypted using the Advanced Encryption Standard (AES) with a code length of 128 bit. Due to the automatic code changes within only a few hours, the theoretical data quantity of 268 byte needed to calculate the code can never be attained. Code administration

and renewal are carried out automatically using key servers. In order to incorporate a component into the Business Secure-VPN, a digital certificate - which is linked to a specific device - is required.

Increased availability with redundancy

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

Increased availability of the Business VPN Services is based on two levels:

– **Customer connection level**: on this level, availability is increased by two CPEs and two physically independent cus-tomer connections (with or without path redundancy) per location. Available access technologies: optical fibre and DSL, ISDN and mobile telephony.
– **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 inde-pendent networks. The overall network redundancy is imple-mented 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 99.95% (Service Level "Platinum") or higher.

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Standard features

No. of VPNs	1
Network access	Optical fiber, DSL
Bandwidths	1 Mbit/s to 10 Gbit/s (symmetric)
LAN interfaces	Ethernet 10/100/1,000 Mbit/s (RJ45) Ethernet 1,000 Mbit/s (850 nm MMF & 1,310 SMF) Ethernet 1,000 Mbit/s (1,470–1,610 nm SMF / CWDM)
Fault line	7 × 24: 24 hours / 365 days
Support time	5 × 11: Monday to Friday, from 7:00 am to 6:00 pm
Service Level "Bronze"	99.8% availability per year, max. 8 hrs downtime during the support time

Options

Additional VPNs	Several VPNs can be activated on the same connection (DSL or optical fiber)
Class of Service (CoS)	Maximum of 4 service classes (Basic, Economic, Business, Voice) with optical fiber and DSL network access
SecureVPN	Encryption of data traffic in the VPN
Redundancy	Platform, path and CPE redundancy (optical fiber & DSL) Path and CPE redundancy (optical fiber, DSL, ISDN, mobile telephony)
Extended support times	6 × 16: Monday to Saturday, from 7:00 am to 10:00 pm 7 × 24: 24 hours / 365 days
Extended service levels	Silver: 99.9% availability per year, max. 6 hrs downtime during the support time Gold: 99.9% availability per year, max. 2 hrs downtime during the support time* Platinum: 99.95% availability per year, max. 1 hr downtime during the support time*

* Prerequisites: Service must be connected using path redundancy