



## **Business IP VPN.**

### **The reliable and secure company network.**

With Business IP VPN, you have a private IP company network at your disposal. Your company locations are connected to a national IP-based company network via various connection technologies (e.g., fiber optics, DSL, mobile up to 5G). Various bandwidths, from 1 Mbit/s to 10 Gbit/s, are available for Business IP VPN. Depending on your requirements, the company network can also be divided into several logical VPNs, e.g., into an intranet for office communication and an application network for servers handling sensitive company data.

The company network is created with a full-meshed configuration by default. This enables every location to communicate directly with every other location. Optionally, the company network can also be created with a hub-and-spoke configuration, whereby the data flow takes place via the hub (main location).

#### **Availability with redundancy**

Every business relies on the availability of its data and services. The Sunrise multi-platform and access infrastructures offer a wide range of redundancy concepts, which guarantee maximum availability to ensure they are fully catered to your needs.

In addition to the standard simple connection, we offer various access topologies to go with the available access technologies:

**Backup:** with a connection device and two connection cables.

**Full redundancy:** with two connection devices and two physically independent connection lines (with or without path redundancy).

#### **Business Quality of Service**

Should certain data need to be transported as a matter of priority via the Business IP VPN, then you can define rules for prioritizing data packets. The data are divided into up to four service classes according to origin or application. These classes will be handled differently. In this way, we ensure that time-critical data – such as voice telephony with Voice over IP, for example – are transmitted preferentially.

#### **Business IP VPN Encrypted**

For higher security requirements, Business IP VPN Encrypted offers hardware-based, encrypted transmission of all data between your locations. This is, by way of example, a mandatory requirement of FINMA in the financial sector.

The data are encrypted according to the Advanced Encryption Standard (AES) with a key length of 128 bits. Due to the automatic key change that takes place within a few hours, the theoretical data volume of 268 bytes for calculating the key can never be reached. Key management and renewal takes place automatically via the key server.

In addition to the location-specific options, Business IP VPN Family offers a whole range of other options, which must be configured once per network.

### Remote Corporate Access

Remote Corporate Access allows users to directly access their company network over 5G from a SIM inserted into their notebook or tablet.

This requires a SIM with a Sunrise Business rate plan with the VPN option and the Business remote access Gateway, on which secure access from the mobile network to the VPN is authenticated and configured. The configuration process is carried out by the customer via the Sunrise Business Portal.

### Business Cloud Access

Business Cloud Access provides dedicated connections to the leading cloud service providers: Microsoft, Amazon, Google, Oracle, IBM, Alibaba and City Cloud. In comparison with Internet connections, the advantages the option provides include guaranteed bandwidths, stable response times and SLAs.

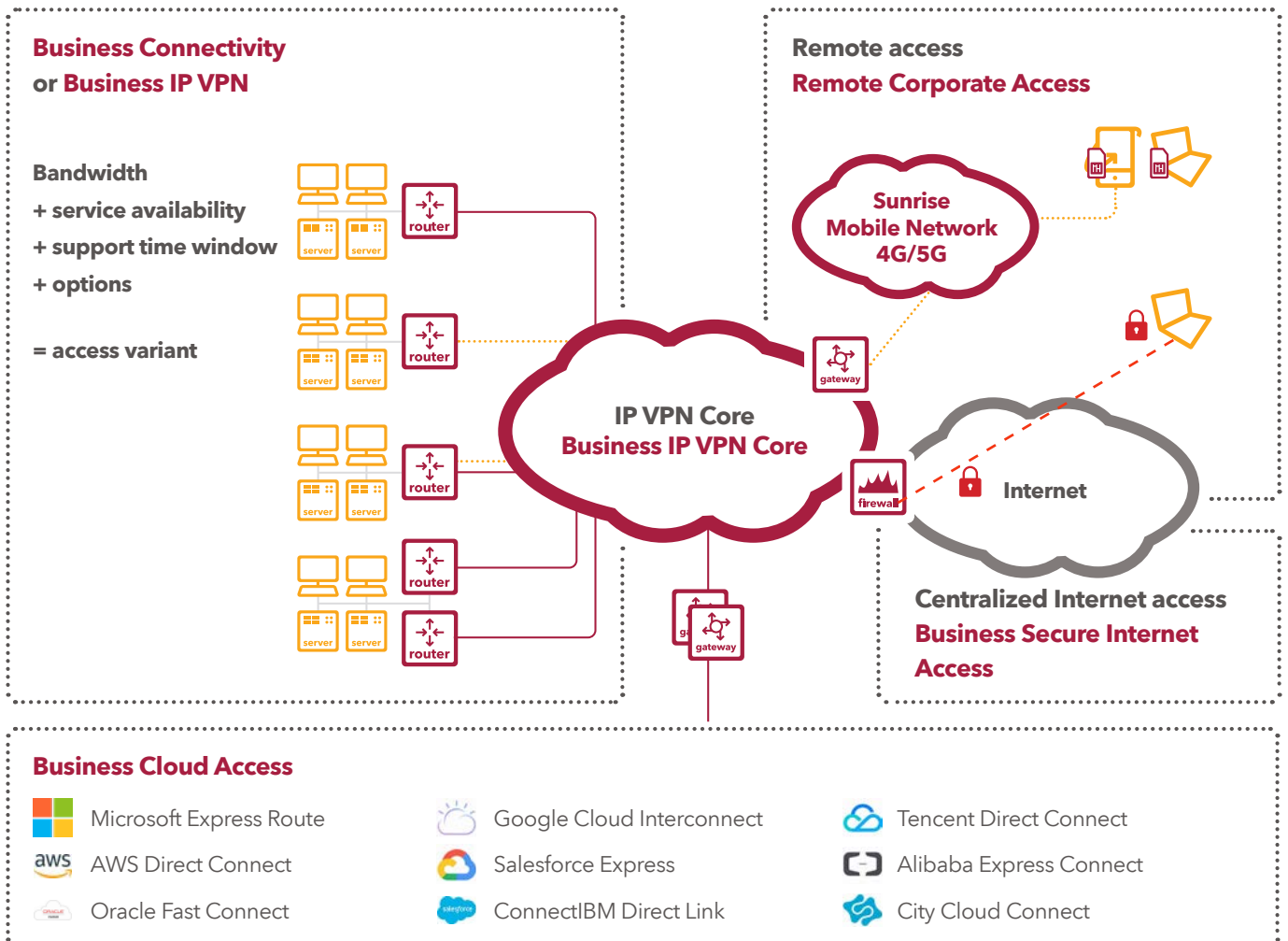
### Business Secure Internet Access

Business Secure Internet Access provides your company with central public Internet access. Via a central firewall - which our security specialists install, operate and continuously update -, you can securely access the Internet from any location. In this way, you can still use your VPN and be reliably protected against external attacks on your infrastructure and your data.

### Business Connectivity

Most of the features of Business IP VPN are also available as part of the new digitized and automated Business Connectivity product, for which Internet and IP VPN services can be combined into one product on one connection cable.

Locations with Business IP VPN and locations with Business Connectivity can connect to the same VPN, the solutions are fully compatible.



## Standard features

<b>Number of VPN (SIPCORE)</b>	1						
<b>Network connection</b>	Fiber optics, DSL, mobile (up to 5G)						
<b>Bandwidths</b>	1 Mbit/s to 10 Gbit/s						
<b>LAN interfaces</b>	Ethernet 10/100/1000 Mbit/s (RJ45) Ethernet 1000 Mbit/s (850 nm MMF and 1310 SMF) Ethernet 1000 Mbit/s (1470-1610 nm SMF/CWDM)						
<b>Service and support</b>	<table border="0"> <tr> <td><b>Technical support</b></td> <td>7 × 24: 365 days a year</td> </tr> <tr> <td><b>Support time</b></td> <td><b>Standard</b> 5 × 10: Monday to Friday, 8:00 to 18:00</td> </tr> <tr> <td><b>Service availability</b></td> <td>Dependent on connection type. SA best effort, no guarantees, or <b>SA-8:</b> max. 8 hours of outage time during the support period</td> </tr> </table>	<b>Technical support</b>	7 × 24: 365 days a year	<b>Support time</b>	<b>Standard</b> 5 × 10: Monday to Friday, 8:00 to 18:00	<b>Service availability</b>	Dependent on connection type. SA best effort, no guarantees, or <b>SA-8:</b> max. 8 hours of outage time during the support period
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## Options

<b>Additional VPNs (SIPCOREs)</b>	Up to 5 per connection (depending on access technology)				
<b>Class of Service (CoS)</b>	Maximum 4 service classes (depending on access technology)				
<b>Encryption</b>	The standard solution is based on symmetrical, secret keys without the use of a PKI. Sunrise assumes responsibility for all network management and key management. Also PKI-based on a project-by-project basis				
<b>Remote Corporate Access</b>	For SIMs with Business Mobile rate plans and activated VPN option over 5G				
<b>Direct access to clouds</b>	With guaranteed bandwidths of 50 Mbit/s to 10 Gbit/s in Microsoft Azure: Express Route; Google Cloud Services: Cloud Interconnect; Amazon Web Services (AWS): Direct Connect; Oracle Cloud: Fast Connect; IBM Cloud: Direct Link; Alibaba Cloud: Express Connect; City Cloud: City Connect				
<b>Internet access</b>	Central Internet breakout via a firewall (per SIPCORE)				
<b>Redundancy</b>	<table border="0"> <tr> <td><b>Backup:</b></td> <td>with a connection device and two connection cables, also via mobile up to 5G</td> </tr> <tr> <td><b>Full redundancy:</b></td> <td>with two connection devices and two physically independent connection lines (with or without path redundancy)</td> </tr> </table>	<b>Backup:</b>	with a connection device and two connection cables, also via mobile up to 5G	<b>Full redundancy:</b>	with two connection devices and two physically independent connection lines (with or without path redundancy)
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The information in this document does not constitute a binding offer. It is subject to change at any time.

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

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**Sunrise**