



**Swiss  
Data  
Safe**

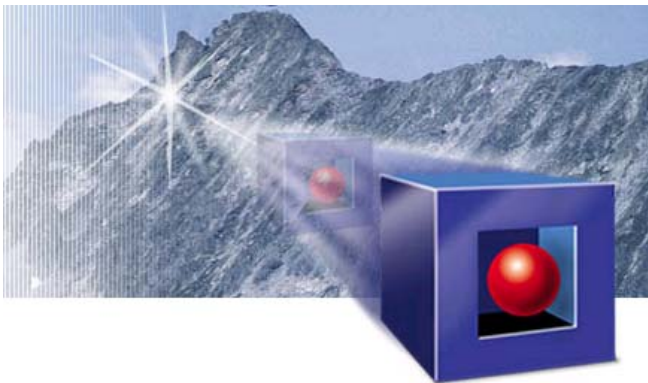
**Protect your Assets.**

# High-Security Data Centre

**INFRASTRUCTURE SERVICE UNLIMITED**

Protect your Assets

Experience shows that the commercial success of a company can be influenced by factors partially or wholly outside its control. Pictures of natural catastrophes such as earthquakes, storms or floods, or damage caused by fire, explosions or even terrorist attacks, show all too clearly how quickly the very existence of companies can be threatened by external events. There is no such thing as 100% protection against such risks. All that remains possible is to take precautions to minimize the damage. In its own high-security facilities in former military strongholds, Swiss Data Safe AG offers data centre infrastructures as the basis of the best possible form of risk prevention.



## Infrastructure

Swiss Data Safe AG provides customers with carrier-neutral Co-location areas with an infrastructure achieving 99.98% (TIER3+ / TIER4-) availability. Data availability, data security and highly scalable communication bandwidths meet our customers' extremely stringent requirements with regard to outsourced primary data centre infrastructures or a back-up data centre.

Customers can choose from our Co-location areas in shared or private zones. These are always set up in locked rooms with solid partition walls rather than cages. The total of 1,500 m<sup>2</sup> (Primary Data Centre) plus 800 m<sup>2</sup> (Secondary Data Centre) of floor space ensures plenty of room is available for development of zones for each customer. Swiss Data Safe AG's complete risk concept is enhanced by the possibility of linking its Primary Data Centre with additional fortified secondary facilities 30 km away.

## Service and Benefits

In addition to provision of a secure infrastructure achieving a high level of availability, Swiss Data Safe AG's offering includes supplementary services such as on-site support (Remote Hands 24x7). A suitable package can be assembled to suit the customer's particular requirements.

The good transport link provided by the A2 Freeway forming Switzerland's north-south axis, direct connection to the major data carrier (Nord-South Data Carrier Data Highway) and proximity to an internet node form the cornerstones of our services.

## Range

**Managed Data Centre:** Provision of areas and rooms for operating customers' own data centres using the high-availability and redundant resources on offer in Swiss Data Safe AG's facilities.

**Back-up Data Centre:** RZ back-up systems, provision of custom solutions for failsafe operation.

**Co-Location:** Provision of premium floor space for accommodation of custom solutions – including utilization of just small sections.

**Business Continuity Centre:** Provision of specific PC LAN workstations, some enhanced with call centre functions for uninterrupted continuation of business by customers in the event of a catastrophe.

## Data Centre

The data centre zones can be customized to the customer's requirements.

**Rack Footprint:** For a fully configurable, enclosed 19-inch rack (rack specifications provided in advance).

**Shared Zone:** Secure data centre area (door contact and room monitoring) with individual customer racks (rooms with maximum of five rack footprints).

**Private Zone:** Data centre area secured for particular customer (door contact, room and video monitoring) with specific rack layout (rooms from 15 to 300 m<sup>2</sup>).

## Carrier

Swiss Data Safe AG customers have a wide choice of carriers available. We will gladly send a list on request. For maximum security, Swiss Data Safe AG offers redundant 2-way access to the carrier.



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### **Construction**

- The complete Data Centre including all of its operational infrastructures and equipment is located in the fortified facility (100–200 m into solid rock)
- All private customer zones are locked and spatially separated from other users (customers)
- 24x7 customer access to own zones accompanied by Swiss Data Safe AG security personnel.
- Structural slab load capacity 1-3 t/m<sup>2</sup>, depending on location
- Concrete or raised floor, thickness 30–60 cm depending on location and cooling architecture (rack or in-row based)
- Height of room from top of raised floor: 270 to 450 cm
- Door height: 212 cm, width: 100 cm, or 251 cm height and 151 cm width
- T30/F60 grade walls
- No pipes carrying water in the customer zones
- Ramps and elevators

### **Power Supply**

- Failsafe power supply provided by two independent site supplies and uninterruptible power supply systems (UPS) (A-B configuration)
- Emergency power systems for unlimited independent operation (fuel reserves for 72 hours and guaranteed supply agreement with fuel suppliers)
- Own consumer unit with matching MCBs and separate electric meter for each customer room
- Up to 1–5 kW/m<sup>2</sup> of electrical power

### **Cooling and Ventilation**

- Room temperature 22°C ± 2°C, monitoring using sensors
- Relative humidity 50% ± 10%, monitored using sensors
- Cooling capacity of up to 1–5 kW/m<sup>2</sup> (rack or in-row based cooling architecture).
- Cooled from neighbouring plant rooms; depending on location, air flow protected by means of automatic fire flaps
- Fresh air supply via separate circuit (ventilation system) with a fresh air content of approx. 10%, in protected ventilation ducts
- 3 air changes per hour
- Air filtering

### **Fire Protection and Extinguishing System**

- Fire early detection system
- Fire prevention achieved through monitored and controlled reduction of oxygen to 17% with additional rapid reduction to 14%-15%.
- The level of oxygen is permanently reduced throughout the entire Data Centre.

### **Security**

- 24x7 access possible to own zones
- Loudspeaker system for important messages
- Video monitoring of outside areas with recording over a period of three months; option of video monitoring of rooms
- Fence encompassing surrounding grounds of Data Centre
- Access system with non-contact identification system and documentation; access authorization programmable for each particular room; access authorization agreed in user profile.
- On-site control room manned 24x7:
  - Alerts signalled via central control system
  - Control room then proceeds according to escalation plan
  - Flow of information to customer agreed in user profile
- 24x7 guarding by security personnel
- 24x7 access available to customer as defined in user profile
- Protected location, not open to observation