



GTM SWITZERLAND | GLOBAL DATA CENTERS EMEA

Zurich 1

Data Center

Well positioned for security

Site brochure



Home to the cloud

Zurich is the largest city in Switzerland and is home to one of the world's largest financial centers. The majority of Swiss bank headquarters are in Zurich, and a large number of foreign banks are present in the area. The Swiss Stock Exchange, located in Zurich, is one of the world's most prominent stock exchanges. Many of Switzerland's largest companies are headquartered in Zurich, such as ABB, UBS, Credit Suisse, Swiss Re and Zurich Financial Services. Zurich is also a major hub for ICT in Europe, major technology companies like Google, Microsoft, IBM, Apple and Huawei all have a base in Zurich. The city is also a leader of innovation that is emerging as a thriving start-up location.

Our first data center in Switzerland, which opened in June 2011, is located in Ruemlang near Zurich airport. The building, consisting of two parts, has about 6,500 sqm of high availability data center space in the first building. In the new building part, which has been planned and equipped solely for use as a data center, state-of-the-art technology is being used to increase energy efficiency, in particular cooling technology. For example, CO high-temperature heating pumps are being used to heat the large office and other spaces outside the data center and collected rainwater will be used to supply the rest rooms.

A solution for every requirement

With a total of 6,500 sqm IT space and a maximum of 15 MVA in building A on 16 kV level, Zurich 1 offers complete solutions for housing your IT and network systems in a secure, high availability environment. We provide you with the best possible physical and technical

infrastructure supported by 2N UPS systems, N+1 generator backup, as well as highly redundant cooling systems for each data center building. Zurich 1 holds multiple certifications and is connected to major carrier hubs and cloud networks, as well as to the SwissIX.



Secure and flexible space built to your specifications

Your requirements are the most important aspect of our service offering. You choose, we deliver. Whether you select a building shell which you configure yourself, or we construct it according to your specifications, or even if you want to rent a single rack in our shared environment, we can accommodate your needs. We will also ensure the space is highly available through our years of engineering.

Overview of our main product offerings:

Fully-fitted	Colocation rack & ½ rack
	Carrier rack & ½ rack
	Cage
	Suite
Shell and core	Area
Supporting products and services	Multi service interconnection platform
	Cross connects
	Remote-hands

Infrastructure



Data center space

- 11,000 sqm of IT space in building A and B (planned)
- flexible colocation deployments: single rack colocation, cages, suites, turnkey build to suites, shell and core solutions
- ancillary spaces (offices, storages, and pre-installation rooms) available in building B
- common areas such as meeting rooms, and catering area
- separated and independent technical areas per data center building

Cooling

- high efficient chiller systems with free-cooling integrated or separated coolers and own-programmed, weather-dependent energy management systems
- peripheral ventilation and de-ventilation systems with energy-optimized operating points (rotation speed control, humidity-dependent control etc.)
- CRAH units in the suites and technical rooms
- peripheral humidifying and dehumidifying systems with low energy

expenditure managing the humidity of IT areas

- cooling and cold water loops with redundant pumps, FU controlled
- heat recovery with heating pumps for pre-heating the emergency standby power systems and offices

Power

- two independent off-site substation feeds max. 30 MVA of power
- maximum client IT load of 18 MW (once fully built out)
- average power density of 1.5 – 2.5 kW/sqm
- power supply at 16 kV medium voltage level from two separate feeds from different substations
- separate, dual UPS systems (A- and B-supply) with 2N redundancy per data center building
- redundantly designed emergency power system with diesel generators N+1

Fire protection

- automatic digital fire alarm system on all levels with point and air aspiration detectors

- Very Early Smoke Detection Alarm Systems (VESDA) in the return air path
- firefighting system based on an argon or nitrogen extinguishing gas system
- fire protection walls to a minimum of 60/90 minutes separation

Security

- 24/7 Security Operations Center and Operation Control Center
- redundant monitoring of all critical functions underpinned by standardized security processes and the multilevel security zone principle, secures the rental area and the technical operation
- palisade fencing supported by a security perimeter fence to protect the campus
- video surveillance systems for the external perimeter, plant areas, and data halls
- ram-raid protection
- card swipe entry/exit to all doors
- preventive risk assessment as well as continuous testing and training of operating personnel

Connectivity

- carrier-neutral
- redundant Carrier-Meet-Me-Rooms
- redundant Carrier Access Rooms per building
- carrier mix from global tier 1 supplier to regional supplier
- connectivity to the major carrier hubs, as well as to the SwissIX
- pre-spliced dark fiber available on demand
- redundant, structural cabling infrastructure with diverse paths
- pre-cabling to support fast cross connect deployments
- high-performance internet access
- inter data center connectivity between NTT data centers for geo-redundant solutions
- multi cloud interconnection platform to connect our clients to major cloud service providers such as Amazon Web Services, Microsoft Azure, and Google Cloud Platform

Technology Experience Lab

- **Technology spaces:** Globally available facilities in productive data centers of NTT that bring together more than 140 technology partners to enable prospects and clients to test and validate, but also innovate on the latest technologies.
- **Industry communities:** Today, information technologies are a key enabler to many organizations. Our industry communities help these organizations to identify relevant technology providers and connect with helpful contacts.
- **Start-ups and Venture Capital:** Many times, start-ups are major drivers when it comes to disrupting various industries. Our start-up unit brings together start-ups, corporates and venture capitalists to enable and accelerate innovation.

Additional services

- consulting, general and implementation planning for development projects
- client implementation
- installation services
- 24/7 remote-hands services
- facility services
- additional security services

- connectivity options to the global NTT network
- access and use of Technology Experience Labs with a worldwide partner network

Service Level Agreement

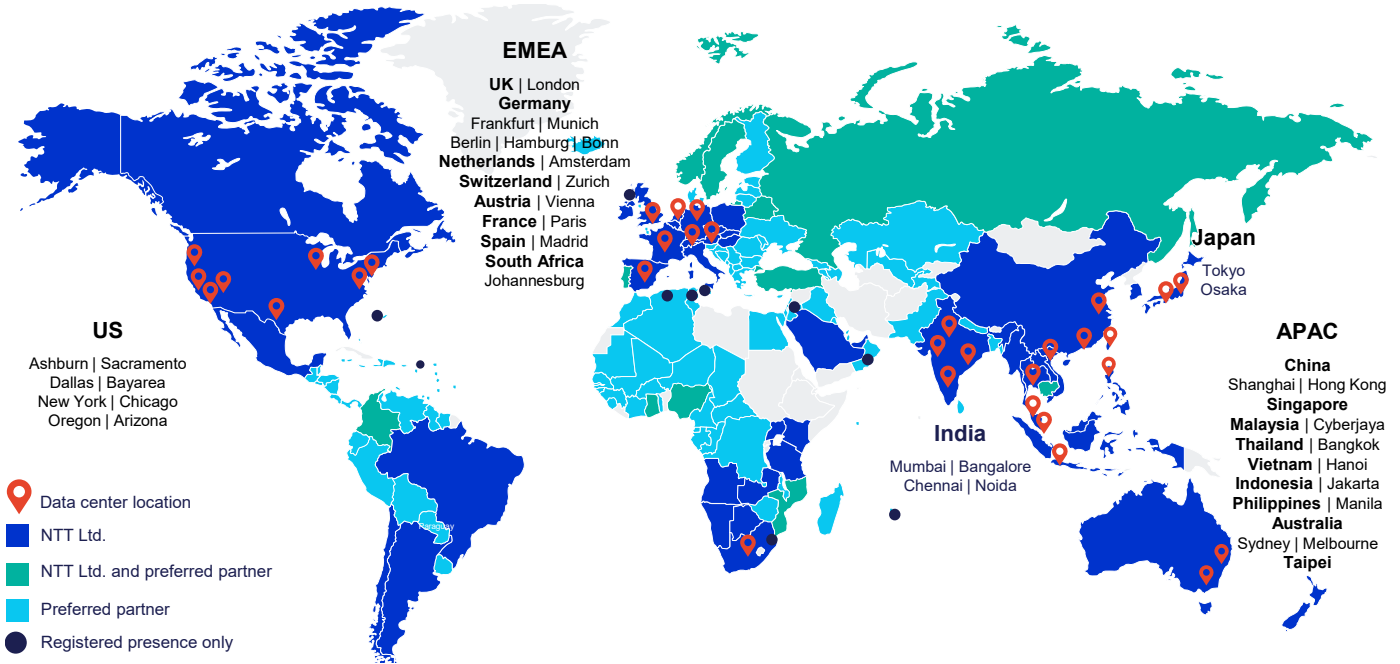
- 99.999% power uptime availability
- climate control conditions in line with ASHRAE guidelines
- connectivity availability

Global data center network

- part of the NTT family of over 160 data centers around the world



Flexible connection to data centers and clouds: 20+ countries and 450,000 sqm server space



About the Global Data Centers division of NTT Ltd.

Global Data Centers is a division of NTT Ltd. and incorporates DPA, e-shelter, Gyron, NetMagic, NTT Indonesia Nexcenter, RagingWire and other NTT Communications group data center divisions. Our combined global platform is one of the largest in the world, with over 160 data centers spanning more than 20 countries and regions including North America, Europe, Africa and APAC. As a neutral operator, we offer access to multiple cloud providers, a large variety of internet exchanges and telecommunication network providers including our own IPv6 compliant, tier 1 global IP network. Our clients benefit from tailored infrastructure and experience consistent best practices in design and operations across all of our highly reliable, scalable, and customizable data centers.

Location



Contact

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NTT in numbers and facts



Expertise

We help you to do great things.



Over **40,000**
people are working for
NTT Ltd. worldwide



Delivering services
in more than
200 countries



300,000
people are part of the
NTT Group



Technology solution

We have a full suite of technology
solutions to help you create value.



Partner

We work together with you.
We're an extension for your business.



Intelligent

For us, intelligent means helping you to be data driven, connected, digital, and secure.



5

regions



Globally

We are wherever you are, making it easier for you to focus on your core business.



120

years of heritage in the NTT Group



Outcomes

We shape the outcomes you're looking for.

