



EMEA

Munich 2 Data Center

Built for a connected, sustainable and
digital world

Site brochure



Home to the cloud

Munich is the third-largest city in Germany and the capital and most populous city of the German federal state Bavaria. The city has the strongest economy out of all the German cities and has a significant financial center. As a result, it places itself as a solid, regional alternative to Frankfurt. It holds the headquarters of large companies such as Siemens, BMW, Allianz, MAN, Linde and MunichRE. Munich also boasts an important technology hub, with a presence of many large tech businesses such as Microsoft, Google, Amazon, IBM and Alibaba. The city is known as one of Germany's innovation hotspots with a large number of start-ups based in the city. There is a focus on the automotive industry, as this is a particularly vibrant industry within Munich.

The Munich 2 Data Center is situated in the north of Munich, in Unterschleißheim about 25km as the crow flies from the Munich 1 Data Center site. The Munich 2 Data Center was planned as a dedicated data center new build and is being developed in several building stages. Two data center buildings with 6,300+m² of IT space are located on a 18,000+m² plot of land. The first building stage was completed in May 2017, with building B becoming operational in December 2020.

A solution for every requirement

With a total of 6,300+m² of IT space and a maximum of 30MVA from two different off-site substations, Munich 2 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, generator backup, as well as highly redundant cooling systems. Munich 2 holds multiple certifications and is connected to major carrier hubs and cloud networks, as well as to the DE-CIX.

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 also ensure the space is highly available through our years of engineering critical data centers while maintaining high levels of security to keep your infrastructure and data safe.



Infrastructure

Data center space

- 6,300+m² of IT space
- 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
- 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
- CRAH units in the suites and technical rooms
- Additional ground water cooling for building A
- Concurrently maintainable AHUs providing fresh air pressurization and humidity control to data suites
- Cold aisle containment to support high densities and maximize efficiencies
- Heat recovery with heating pumps for pre-heating the emergency standby power systems and offices

Power

- Off-site substation delivering 30MVA of power
- Maximum client IT load of 14MW
- Average power density of 1.5 – 2.0kW/m²
- Power supply at 20kV level from two independent substations
- Two separate UPS systems (A- and B-supply) with 2N redundancy
- Redundantly designed emergency power system with diesel generators N+1 per building

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 a nitrogen extinguishing gas system
- Fire protection walls to a minimum of

Overview of our main product offerings:

Fully-fitted

Colocation Rack
Carrier Rack

Dedicated Cage

Dedicated Suite

Shell and core

Area

Supporting products and services

Multi Service Interconnection Platform

Cross Connect

Remote Hands

90 minutes separation

Security

- Service Control Center for security and operation with 24/7 fallback to Frankfurt 1
- 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 data center area
- Video surveillance systems for the external perimeter, plant areas, and data halls
- Ram-raïd bollard protection in accordance to BS PAS 68:2013
- Card swipe entry/exit to all doors and persons separation locks per data center building
- Preventive risk assessment as well as continuous testing and training of operating personnel

Connectivity

- Carrier- and cloud-neutral
- Carrier-Access-Rooms
- Carrier-Meet-Me-Rooms
- Carrier-mix from global Tier 1 supplier to regional supplier
- Connectivity to the major carrier hubs
- 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 Service Interconnection Platform to connect our clients to major cloud service providers such as Amazon Web Services, Microsoft Azure, and Google Cloud Platform

Additional services

- Consulting, general and implementation planning for development projects
- Client implementation
- Installation services
- Remote Hands services provided by the technical infrastructure on-call service
- Facility services
- Additional security services

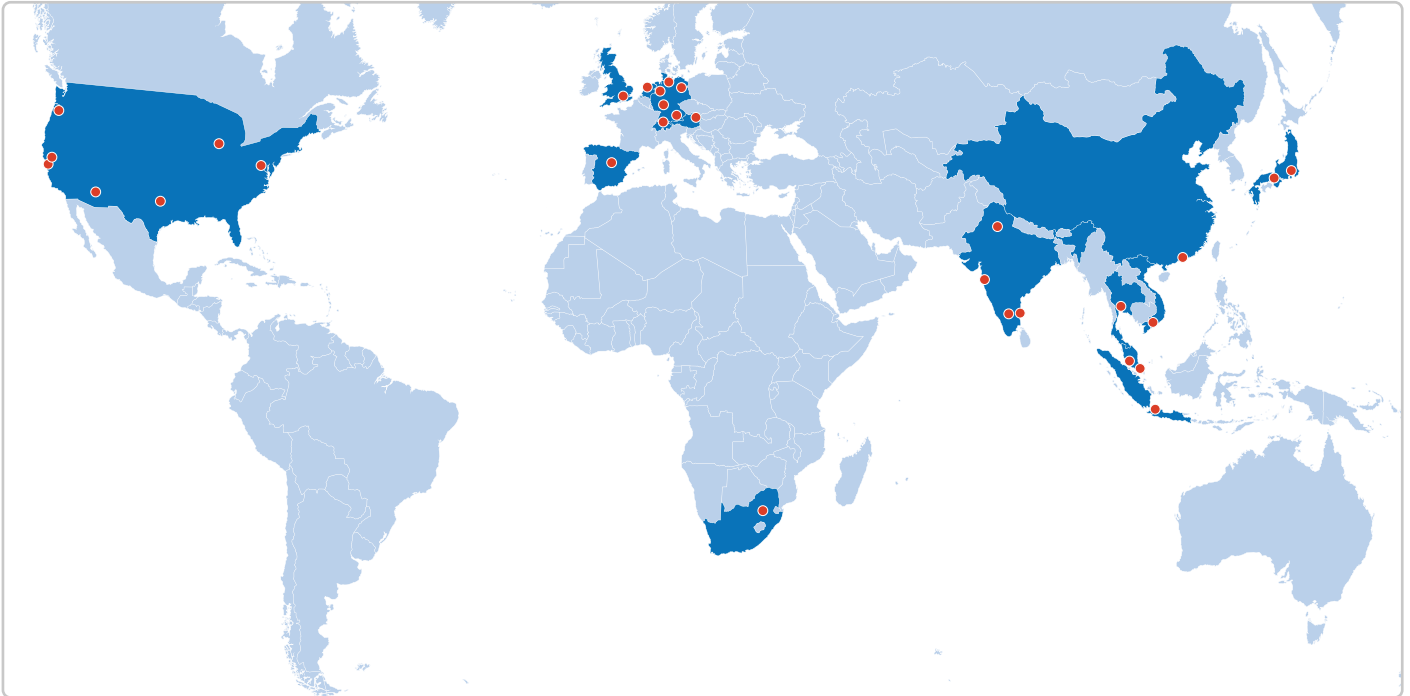
Global data center network

- Part of the NTT family
- Connectivity options to the global NTT network

Service level agreement

- 99.999% power uptime availability
- Designed according to tier 3 specifications
- Precise definition of critical services and availabilities
- Climate control conditions in line with ASHRAE guidelines and EN standards

Flexible connection to data centers and clouds: 20+ countries and 1,500+MW IT load



Why NTT's Global Data Centers?

Global Data Centers is a division of NTT Ltd. Our global platform is one of the largest in the world. NTT is routinely recognized as a leader by leading analysts in the networking and data center space, spanning more than 20 countries and regions, including North America, Europe, Africa, India 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. You benefit from tailored infrastructure and experience consistent best practices in design and operations across all of our reliable, scalable and customizable data centers. We're ready to facilitate client adoption of next-generation technologies for computing at scale, virtualization, data migration and cloud and B2B private connectivity both regionally and across the globe.

Visit us at our website services.global.ntt.

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Locations

