



# Munich 2 Data Center



## 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 25 km as the crow flies from our Munich 1 site. The Munich 2 Data Center was planned as a dedicated data center new build and is being developed in several building stages. On a plot which is more than 18,000 sqm large, about 6,200 sqm of data center space is being developed in two building stages. The first building stage was completed in May 2017. The opening for building B is scheduled for Q4 2020.

## A solution for every requirement

With a total of up to 6,200 sqm IT space and a maximum of 20 MW, 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. To validate hybrid cloud services and innovations faster and at lower cost, our Technology Experience Labs provide the perfect hosted ecosystem in a live data center environment.

## Location



## 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 critical data centers while maintaining high levels of security to keep your infrastructure and data safe.

### Overview of our main product offerings:

<b>Fully-fitted</b>	Colocation rack
	Carrier rack
	Cage
	Suite
<b>Shell and core</b>	Area
<b>Supporting products and services</b>	Multi service interconnection platform
	Cross connects
	Remote-hands

## Infrastructure



### Data center space

- with a total of 6,200 sqm of IT space in building A and B
- 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, kitchen, and showers

### Cooling

- redundant water-cooled chiller system (min. n+1) supported by free-cooling
- water cooled, redundant CRAH units in the suites and technical rooms
- AHU's providing fresh air pressurisation and humidity control to data suites
- cold aisle containment as a standard to support high densities and maximize efficiencies

### Power

- dual feeded middle voltage delivering 20 MVA of facility power
- maximum client IT load of 9,3 MW
- average power density of 1.5 kW/sqm

- power supply at 20 kV level from two substations
- two separate UPS systems (A- and B supply) with 2n redundancy
- redundantly designed emergency power system with diesel generators n+1

### Fire protection

- smoke detection very early smoke detection alarm system (VESDA) in the return air path
- pre-action dry-pipe multi-range nitrogen gas extinguishing system
- fire section walls to a minimum of 90 minutes separation
- monitoring with automatic digital fire alarm system

### Security

- Service Control Center (SCC) connection to the 24/7 Security Command and Control Center in Frankfurt am Main
- 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 an additional 2.4-m-high anti-climb 358 'weldmesh' fence to protect the perimeter
- video surveillance system covering the external perimeter, plant areas, and data halls
- ram-raid bollard protection in accordance to BS PAS 68:2013
- card swipe entry/exit to all doors
- preventive risk assessment as well as continuous testing and training of operating personnel

### Connectivity

- carrier-neutral
- carrier mix from global tier 1 supplier to regional supplier
- connectivity to the major carrier hubs
- pre-spliced dark fiber available on demand
- redundant Carrier-Meet-Me-Rooms (CMMR)
- redundant cabling infrastructure with diverse paths
- pre-cabling to support fast cross connect deployments
- high-performance internet access

- inter DC 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 (AWS), Microsoft Azure, and Google Cloud Platform

**Additional services**

- consulting, general and implementation planning for development projects
- client implementation
- installation services
- remote-hands service provided by the technical infrastructure on-call service
- facility services
- audit support

**Global data center network**

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

**Our Technology Experience Lab**

- **Rich ecosystem:** Drive private and hybrid cloud use-cases jointly with partners and clients of all sizes
- **Room for innovation:** Test and validate distributed architectures in a real-world production environment
- **Knowledge community:** Share information via a series of regular webcasts, meetups, and hackathons, in addition to hosting and joining bootcamps
- **FinTech, hybrid cloud, local technology partners**

**About the Global Data Centers division of NTT**

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.

NTT Ltd. is a global technology services company bringing together the expertise of 28 brands, including NTT Communications, Dimension Data, and NTT Security. We partner with organizations around the world to shape and achieve outcomes through intelligent technology solutions. For us, intelligent means data-driven, connected, digital, and secure. As a global ICT provider, we employ more than 40,000 people in a diverse and dynamic workplace, and deliver services in over 200 countries and regions. Together we enable the connected future.

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



