NTT

Frankfurt 4
Data Center

High availability in secure space

Site brochure

Home to the cloud

Frankfurt is the largest city in the German state 'Hessen', and the fifth-largest city in Germany, in terms of population. The city is regarded as an alpha world city and is Germany's financial capital, as well as the major financial center of continental Europe. Major banks headquartered in the city include European Central Bank, Deutsche Bundesbank, Frankfurt Stock Exchange, Deutsche Bank, DZ Bank, KfW and Commerzbank. By market capitalization, the Frankfurt Stock Exchange is one of the world's largest stock exchanges.

Frankfurt is also a major tech hub, as the city is rich in fiber and is home to the DE-CIX, one of the world's largest internet exchange points. The city is also a vibrant start-up hub with a natural disposition for FinTech companies. Frankfurt is the leading data center market in Germany and is one of the largest data center markets in Europe. The city's geographic location allows connections to Eastern and Western Europe, along with the Nordics and the Middle East (via Turkey), making it a very well-connected hub.

The Frankfurt 4 Data Center offers the best network connection and a power supply from two different substations with two feeds at 110/20kV level.

Our Frankfurt 4 Data Center is located 15 km west of the city center in the area of Hattersheim and is our fourth data

center in the Frankfurt region. Once fully built, the Frankfurt 4 Data Center will have 24,000 sqm of available colocation white space and will be supported by 60 MW of IT load. The first building stage was completed in June 2019. The opening for building B is scheduled for Q4 2020.

A solution for every requirement

With a total of 4,800 sqm IT space for the first DC-Building and a maximum of 12 MW in BT-A, Frankfurt 4 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. Frankfurt 4 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.

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:

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

Infrastructure

Data center space

- 4,800 sqm of IT space in building A (24,000 sqm once fully built out)
- 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 technic area's per DC Building

Cooling

- high efficient chiller systems with free-cooling integrated or separated recoolers and own-programmed, weather-dependent energy management systems
- CRAH units in the suites and technical rooms
- 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

Power

- on-site substation delivering 90 MVA of power
- maximum client IT load per building of 12 MW
- average power density of 2.5 kW/sqm
- power supply at 110/20 kV level from two substations with two feeds
- own substation with three 110/20 kV transformers n+1
- two separate UPS systems (A- and B-supply) with 2n redundancy
- redundantly designed emergency power systems 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 a nitrogen extinguishing gas system
- fire protection walls to a minimum of 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 bollard protection in accordance to BS PAS 68:2013
- card swipe entry/exit to all doors and persons separation locks per DC building
- 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
- 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 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
- 24/7 remote-hands services
- facility services
- additional security services

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
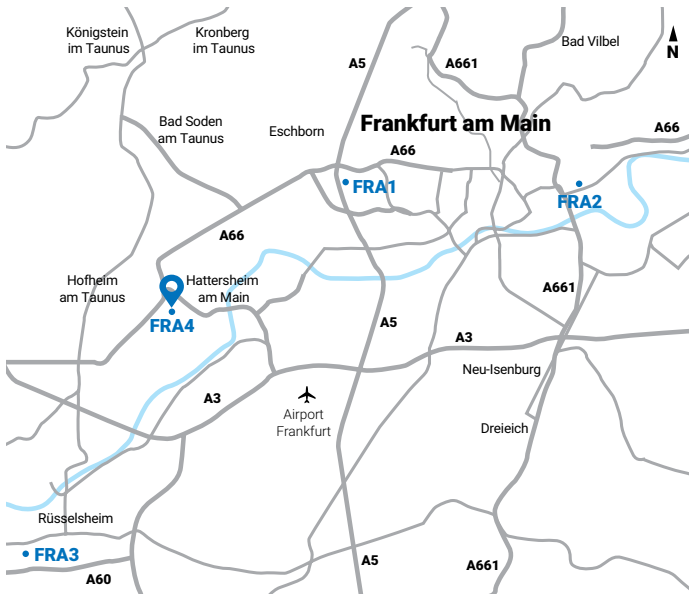
Service Level Agreement

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

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.
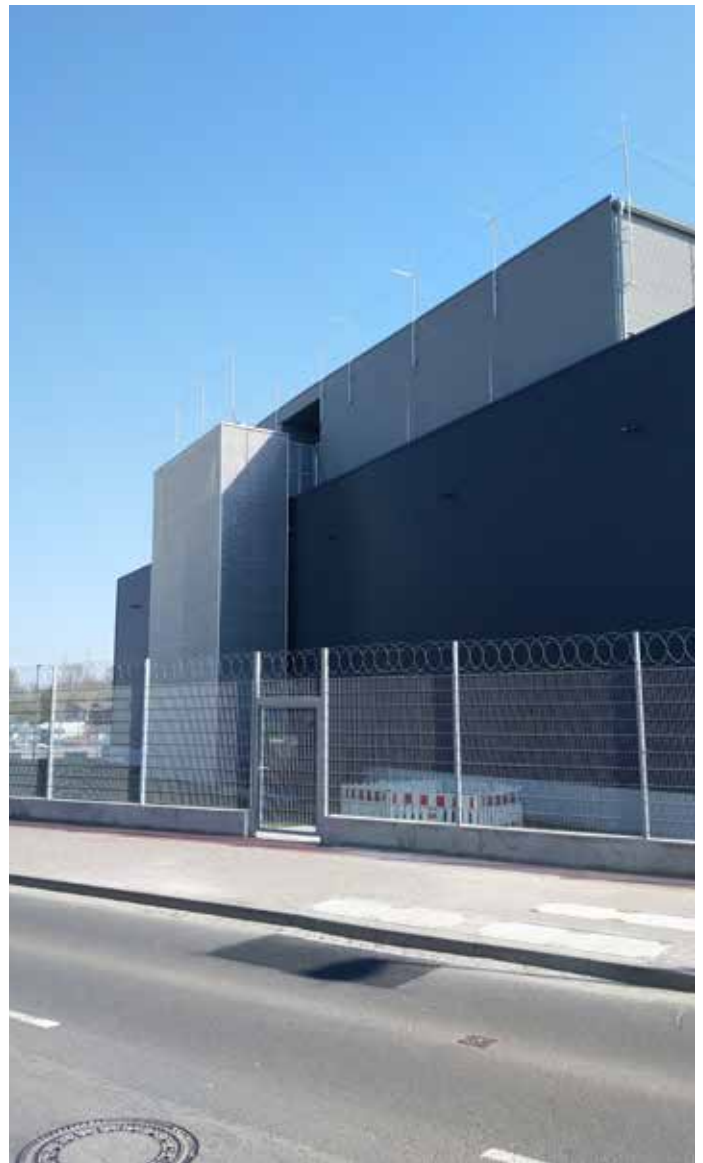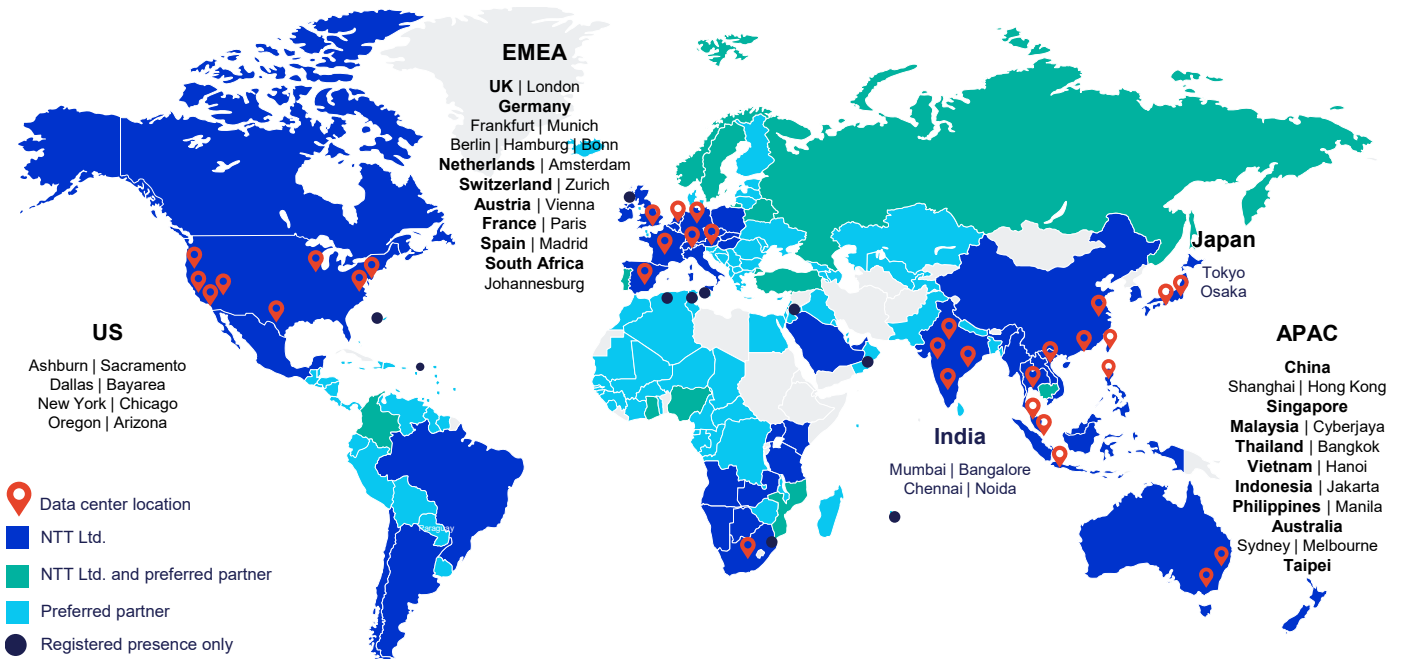
Locations in Frankfurt

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.

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

EMEA

UK | London
Germany
Frankfurt | Munich
Berlin | Hamburg | Bonn
Netherlands | Amsterdam
Switzerland | Zurich
Austria | Vienna
France | Paris
Spain | Madrid
South Africa
Johannesburg

Japan

Tokyo
Osaka

US

Ashburn | Sacramento
Dallas | Bayarea
New York | Chicago
Oregon | Arizona

APAC

China
Shanghai | Hong Kong
Singapore
Malaysia | Cyberjaya
Thailand | Bangkok
Vietnam | Hanoi
Indonesia | Jakarta
Philippines | Manila
Australia
Sydney | Melbourne
Taipei

India

Mumbai | Bangalore
Chennai | Noida

- Data center location
- NTT Ltd.
- NTT Ltd. and preferred partner
- Preferred partner
- Registered presence only

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

NTT

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.

NTT

Contact

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