



GTM UNITED KINGDOM | GLOBAL DATA CENTERS EMEA

# London 1 Data Center

Strong networking and cloud infrastructure

Site brochure



## Home to the cloud

### Marketplace for growth and innovation

London, the capital and most populous city in the UK, features one of the largest economies in Europe. It is a leading business and financial services district, with more than half of the FTSE 100 headquartered in the city. London is a global connectivity hub, home to the London Internet Exchange (LINX), which is one of the world's largest internet exchange points, with more than 850 members. The city boasts thousands of technology businesses and is a leading location for technological innovations such as FinTech.

Our London 1 Data Center is located in Dagenham, about 20 km east of London city center and 15 km from the Docklands. The Docklands has been established as the UK's internet hub and the backbone for the global internet network, which facilitates the majority of the London Internet Exchange's (LINX) infrastructure. Dagenham is also situated close to Shoreditch, which has recently

become known as 'East London Tech City' or the 'Silicon Roundabout,' as many technology companies and start-ups have decided to reside in the area.

In addition, London 1 will join the five existing data centers we currently operate in Hemel Hempstead and Slough. The campus will offer highly available, scalable data center space, with high power density, carrier neutrality, flexible colocation spaces, cloud network access, connectivity, and on-site support.

The London data center market is one of the most active colocation ecosystems in the world with a strong networking, internet and cloud infrastructure presence. London is a strategic hub for data center services for both UK organizations as well as multinational companies, who from both a physical and digital perspective, require reliable services to reach local customers even faster. As one of the leading data center providers, we continue to build on our sturdy foundation to successfully serve this vibrant data center market today and in the future.

Clients can choose flexible colocation deployments from single racks to cages and suites, or select larger shell and core building space with custom fit-outs if needed.

### A solution for every requirement

With up to 12,800 sqm of IT space, and a maximum IT load of 32 MW (64 MW once fully built out), the first phase of London 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 n+1 UPS systems, generator backup, as well as highly redundant cooling systems.

London 1 holds multiple certifications and is connected to major carrier hubs and cloud networks, as well as to the LINX. To validate hybrid cloud services and innovations faster and at lower cost, our **Technology Experience Lab** 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:

<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

- 10 data halls with 12,800 sqm of IT space in first building
- 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, catering area, and showers

### Cooling

- redundant water-cooled system supported by free-cooling (n+1)
- data halls utilize a compressorless cooling system, designed for superior energy efficiency and performance
- cold air flooded room cooling design with Suite Cooling Units (SCUs), rejecting the heat from the servers in the data suites into the cooling water loop
- hot aisle containment to support high densities and maximize efficiencies

### Power

- on-site substation delivering 80 MVA of power
- maximum client IT load of 32 MW/ 64 MW once completely built out
- average power density of 2.5 kW/sqm
- power supply on 132 kV level from two grid connections
- own substation with two 132/11 kV transformers 2n
- two separate UPS systems (A- and B-supply) with n+1 redundancy
- redundantly designed emergency power system with diesel generators n+1

### Fire protection

- smoke detection early warning system (VESDA) in the return air path
- water mist fire suppression system activated by double-knock fire detection
- fire protection walls to a minimum of 60 minutes separation
- monitoring with automatic digital fire alarm system

### Security

- 24/7 Security Operations Center and Service 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 an additional 2.4-m-high anti-climb 358 ›weldmesh‹ fence to protect the perimeter
- CCTV covering the external perimeter, plant areas, and data halls
- ram-raïd bollard protection 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 and dark fiber infrastructure in place connecting LON1 to Hemel Hempstead, Slough and the major carrier hubs in the Docklands
- pre-spliced dark fiber available on demand
- redundant Carrier-Meet-Me-Rooms
- 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

### 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
- audit support

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

### Service Level Agreement

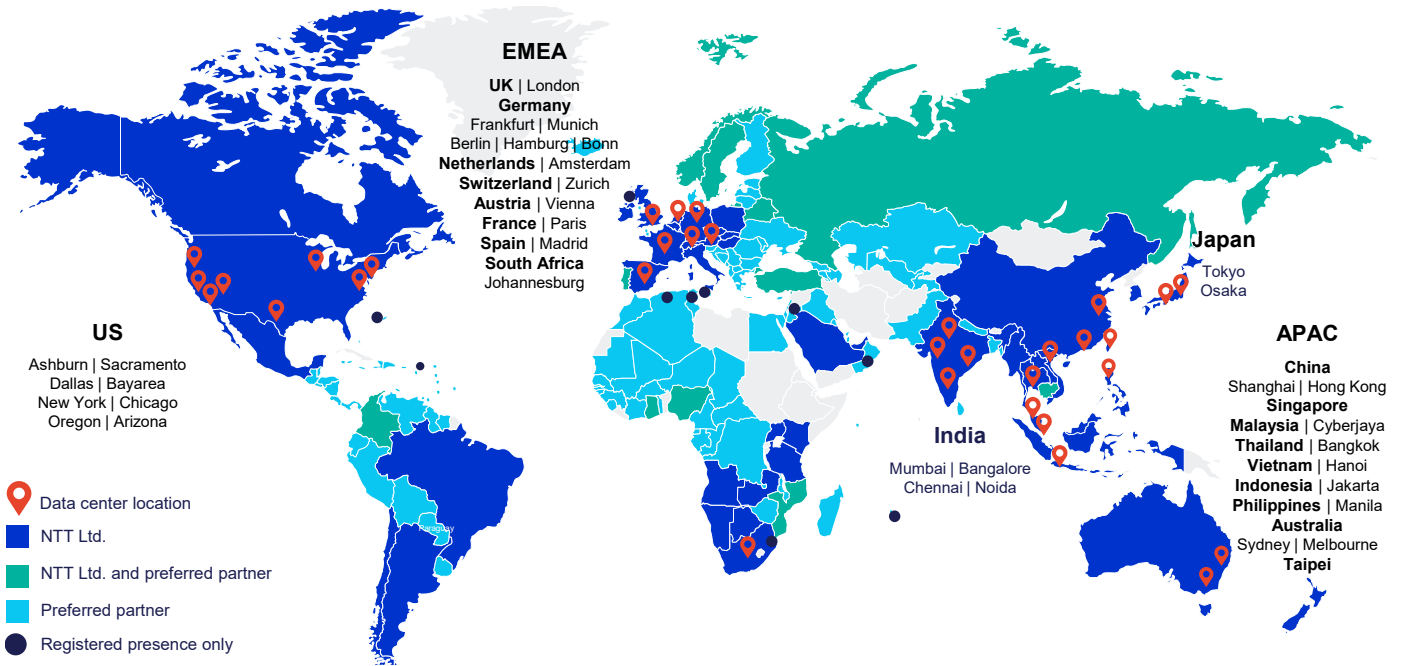
- 99.999% power uptime availability
- climate control conditions in line with ASHRAE guidelines
- connectivity availability

### 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**



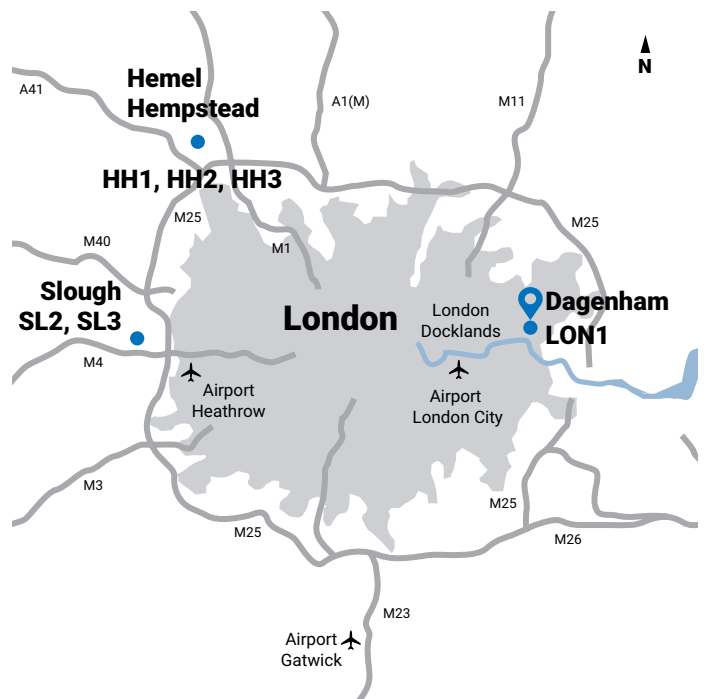
**About the Global Data Centers division of NTT Ltd.**

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.



**Locations in London**





**72%**

of British venture capital was given to London firms

**#1**

data center market in Europe

**38%**

of European unicorn companies are based in London



# #1

**in funding tech start-ups  
in Europe**

# 37%

**of global foreign  
exchange trading  
happens in London**

# 47%

**of the best start-ups  
in Europe are located  
in London**



**Contact**

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