

LEADING THE WAY IN ENERGY EFFICIENCY

Frankfurt North Technical Specification



Artist impression



UNINTERRUPTED
POWER



BESPOKE
SOLUTIONS



NETWORK
DENSE



CLOUD
CONNECTIVITY

GLOBAL SWITCH

Global Switch is a leading owner, operator and developer of large-scale, multi-customer, carrier neutral data centres across Europe and Asia-Pacific. Our data centres provide a rich carrier and cloud-neutral ecosystem and offer the reliability, security and flexibility that our customers require to house their IT infrastructure.

Services

Private Suites

These self-contained areas, which can include 24x7x365 network operating centre facilities, are designed and built to customers bespoke specifications.

Cages

The Global Switch cage solution offers the benefits of large-scale resilience for medium sized IT space and power requirements. This solution provides secure private areas for customers and offers flexibility in design and layout.

Racks

Racks situated in colocation areas are a vital resource for businesses looking to outsource critical IT infrastructure, establish a presence in multiple strategic locations, or those wishing to increase their footprint as their space requirements grow.

Meet Me Rooms

Meet Me Rooms offer telecommunications companies highly secure purpose built areas to house their network infrastructure in order to connect with a host of companies and organisations within the data centres.

Key benefits

Scale: Scalability with over 3,650,000 sq ft (340,000 sq m) across eleven world class, fully-fitted data centres.

Flexibility: Access to the full range of space and power solutions with flexibility to meet your needs.

Network dense: Data centres that are located adjacent to central business districts exclusively in Tier 1 markets offer connectivity rich, low latency solutions with direct access to the major international fibre routes.

Competitive options: A strong diverse service provider ecosystem ensures that customers have access to competitive pricing for a complete range of services.

Resilient Infrastructure: Global Switch provides uninterrupted power with multiple layers of redundancy, optimised cooling and security. Monitoring of these key components through highly sophisticated building management systems is backed up by 24x7x365 security and technical support teams.

Bespoke solutions: Solutions can be tailored to individual customer requirements.

Environmental commitment: Energy efficiency is at the core of our business. Through innovation in design, operation and working closely with our customers, we are continually improving the energy efficiency of our data centres.

Operational excellence: Key ISO certifications complement a robust Critical Environments Programme which is central to applying and maintaining best in class practices across our global data centre portfolio.

Financial strength: A financially secure owner and operator with investment grade credit ratings.



**WORLD-CLASS
DATA CENTRES**



**OPTIMISED
COOLING**



**CARRIER
NEUTRAL**



**HIGHLY
SECURE**



**ENVIRONMENTAL
COMMITMENT**



**OPERATIONAL
EXCELLENCE**

FRANKFURT NORTH



Location

- The data centre is located 5.5km from the financial district and city centre
- A tram station is located within a 15 minute walk
- Frankfurt International Airport is 15 minutes away by car

Building Overview

- Global Switch owns the freehold
- Purpose built
- Will exceed Tier III operational performance
- 11,000 sq m of gross space
- 3 data floors
- Flexible IT space with ability to create bespoke environments as required

Main Structural Features

- Steel frame with concrete floors, metal faced cladding
- 5.5m slab to slab height
- Raised floor height of 1,000mm
- Minimum from raised floor: 3.6m floor height to underside of deepest beam
- Floor loading of 15kN/m²
- 1 goods lift (4 tonnes), 1 passenger lift

Power

- 10kV utility supply with N+N redundancy
- Utility power supply capacity of 14MVA (planned)
- Technical (IT) Power supplied by on-site Static UPS N+1 redundancy
- Mechanical systems backed up by standby generator system with N+1 redundancy
- Fully diverse power distribution to technical areas
- On-site fuel storage to support 24 hours at full capacity with 24x7x365 fuel delivery
- Offering 2,000 W/m² as standard, with higher power density solutions fully supported

Cooling

- 16MW of installed cooling provision
- Minimum N+2 resilience on all systems
- CRAH units control temperature and humidity in technical space within the recommended range of ASHRAE TC9.9
- Diverse distribution pipework throughout
- Chilled water cooling system with free cooling capability
- In rack cooling capability if required

Security

- Operations Centre manned 24x7x365
- Security guard patrols 24x7x365
- Continuous CCTV surveillance of external and internal areas
- CCTV records kept for 31 days
- Comprehensive intruder detection and alarms to all areas
- Perimeter Intrusion Detection system (PIDs)
- Strict access control procedures to ISO 27001
- Access control using proximity card readers and biometric systems
- Physical access via mantrap
- Secure managed delivery and loading area available 24x7x365

Connectivity

- Carrier Neutral
- Network dense with access to multiple global and regional carriers and Internet service providers offering Dark Fibre, Wavelength, Ethernet, MPLS, VPLS, IP Transit, Peering, CDN, Storage, Virtualised Services (SDN), Voice and Mobile Services
- Access to multiple cloud services through leading public, private and hybrid cloud solution providers
- 2 dedicated Meet Me Rooms
- 2 diverse building entry points
- Diverse cable routes and pathways
- Campus fibre system interconnecting Frankfurt North to Frankfurt South
- Roof space availability for satellite and antennae equipment
- DE-CIX present

Fire Detection and Suppression

- Fully addressable fire detection system in all areas
- Aspirated early warning smoke detection system (monitored 24x7x365)
- Inergen gas suppression system in technical areas

Critical Environments Management

- Experienced 24x7x365 facilities management team
- Environment (thermal conditions) monitored 24x7x365
- All Building Management Systems (BMS) monitored 24x7x365
- Comprehensive energy metering systems
- Internationally recognised critical environments programme

Other Services

- Cross connects
- Customer reports
- Deliveries and storage
- Design and build
- Fit out
- On-site facilities
- Remote hands
- Technical cleaning and waste disposal

Certifications

- ISO 9001, 14001, 27001, 50001
- OHSAS 18001

Technical specification, which is subject to change, relates to the completion of Global Switch Frankfurt North

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