

nLighten Data Center Services.

Colocation is the bedrock of an IT Infrastructure. nLighten offers colocation services that are reliable foundations to support the systems running in our data centers.


In the first half year of 2024 the nLighten data center services aim to comprise off:


- **COLOCATION SERVICES**
- **CONNECTIVITY SERVICES AND EXCHANGE SERVICES**
- **ON-SITE SERVICES**


These services all support the nLighten ecosystem where we bring our customers and partners together, creating an environment for top-tier IT services.



Features ...

 <small>close · coupled · connected</small> DATA CENTER	Locations	Berlin, Cologne, Düsseldorf, Hamburg, Hanover, Frankfurt, Leipzig, Munich, Nuremberg, Stuttgart
	Access	24/7 NOC support for all access requests with a client card access identification system. Access is designed to only give access to designated areas
	Security	24/7 NOC controlled and monitored with integrated digital video camera surveillance (CCTV), both inside and outside the buildings
	Fire detection	Very early smoke detection and alarm system (VESDA) and state-of-the-art fire suppression systems in all areas. These are all monitored via a fully integrated fire-protection system.
	Loading docks	All sites have a fully secure, access-controlled and monitored load bay for equipment delivery.

 CABINET	Cabinet size	600mm or 800mm wide and 1200mm deep standard or alternative dimensions on request
	Cabinet height	24U or 48U
	Lockable doors	Both front and rear

 POWER	Power Distribution Units (PDU)	All cabinets are optionally with PDU's
	Power feeds	All cabinets have 100% rated A and B feed
	Power rating	40 Amps as standard using hyperscaler standard distribution system
	Voltage options	Single phase (230 V) or 3 phase (400 V)
	UPS	Cabinets backed up with N+1 UPS
	Generators	UPS backed up with N+1 generators
	Power calculation	All power is metered per kWh at a cabinet level
	Grid stabilization	Active participation in solving grid deficits



COOLING

Conditions	Environmental conditions according to ASHREA A1 allowable specifications*
Cooling Aisles	Cold aisle containment
Power Usage Effectiveness (PUE)	Design PUE at 1.29
Water usage	Eliminating all water consumption in the cooling systems
Cooling redundancy	N+1
Heat re-use	Each data center is heat re-use ready



NETWORK

Cross connects	Single and bundled cross connects available with pre-cabling options
Cross connects types (optical)	Fiber (SC and LC) both single-mode and multi-mode
Cross connects types (UTP)	CAT 6 S/FTP
Fiber entries	All sites have multiple fiber entries into the building
Cabling options	To the meet me room, diversely routed options
Meet Me Room	Carrier neutral meet me rooms, with several national and international carriers
Carriers	Each data center has multiple telecommunications providers



ON-SITE SERVICES

Services	Qualified nLighten engineers available to assist on-site
Pre-scheduled work	Planned assistance available on request
Rapid response service	Qualified nLighten engineers available 24/7, on call and coordinated by the NOC
Subscriptions	Available both on a subscription or one-off basis



ECOSYSTEM

Partners	nLighten ecosystem based on partners offering specialized services
Access	(Carrier) Neutral access between all parties

*Relevant main ASHREA A1 allowable guidelines:

- The data center is controlled to a nominal cold aisle temperature of between 18°C and 27°C. This temperature range may be exceeded due to ambient weather conditions.
- Temperature is considered unavailable when the temperature drops below 18°C (64.4°F) or exceeds 32°C (80.6°F).
- Temperature is measured between three (3) and five (5) feet from the floor and no closer than twelve (12) inches from the cool air intake side of a cabinet.
- The allowable relative humidity range is between 8%rh and 80%rh.

Want to know more? Have any questions? Or do you simply want to get in touch with us?
Then send us an email at close@nlighten.eu.