



LDeX Group

Colocation Solutions
for High Expectations

LDeX1

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5MVA ⚡

LDEx1 delivers 5MVA
of customer capacity

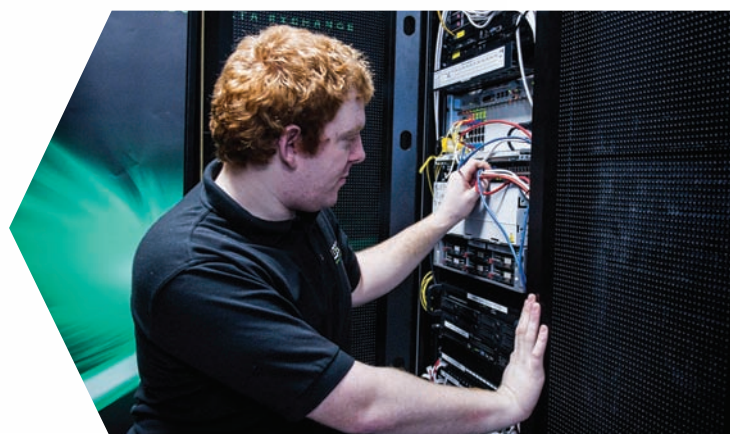
POWER

A dedicated, private HV substation provides 5MVA power to the facility. All 22,000 sq.ft is backed up by redundant N+N 2 string UPS systems, which regulate and condition the incoming supply. On site, there are N+1 diesel generators that can run for one week if necessary, alongside a 24x7 refuelling contract providing indefinite generator run time.

Received from the primary mains supplies, the electrical power is then fed through the highly efficient N+N UPS systems and into the data centre areas.

Should an issue with the mains supply occur, the N+N UPS systems will automatically take the entire IT load. This provides ample time for the generators to start up and seamlessly take the load off client equipment, air conditioning systems and the PDUs (Power Distribution Units). Once mains power is restored, our switchgear will automatically manage the return of incoming power from generators to UPS protected mains.

N+N UPS means that each rack is fed by two independent feeds from two diverse PDUs on diverse UPS banks. Therefore, the failure of an entire UPS bank can be endured without any impact to client service. N+N configuration also ensures diverse paths, so we can carry out maintenance on sections of the power supply without impacting IT load to customer equipment.





COOLING

Client racks are cooled with high capacity air conditioning systems which maintain a constant cold aisle temperature throughout. This keeps the servers cool and running at an optimum temperature.

Under-floor systems ensure effective distribution and management of air-flow, controlling temperature locally as demanded by higher/lower powered equipment throughout the data centre.

Bespoke cold aisle containment ensures that the cold air supplied to the front of the servers is contained with maximum efficiency, contributing to LDEx's industry leading PUE (Power Usage Effectiveness) of <1.35, which in turn delivers major cost advantages to clients.

All major components of the system are redundant ensuring continuity of cooling in the event of mechanical parts failure or maintenance.

FIRE PROTECTION

VESDA smoke detection systems are installed across the site to act as an early warning system to any potential fire developing. It provides the earliest possible warning of an imminent fire hazard, buying valuable time to investigate, take action and avoid the danger, damage and disruption potentially caused by a developing fire. VESDA monitors the entire progression of a fire - easily detecting it long before smoke is visible.

Sensitive smoke detectors are positioned throughout the datacentre and under the raised floors, ensuring that any potential fire is detected and the affected area identified. FM200 fire extinguishing gaseous suppressants take the energy out of the fire within seconds of it developing. The suppressants LDeX uses are non-destructive, environmentally friendly and safe for human exposure.

Fires are extinguished rapidly, typically knocking out class A, B and C fires in less than 10 seconds. This minimises atmospheric toxicity and the generation of smoke and soot.





24x7 SECURITY

LDeX1 is a highly secure facility, with all visitor activity tracked and monitored to ensure LDeX's client equipment is safe around the clock.

The building is surrounded by a 2.5m perimeter fence and access to the car park is controlled by an electronic gate. Facial recognition biometric scanners protect critical zones and 24x7 SIA accredited guards are present on site. Features and procedures are in place to meet the strictest of security standards such as PCI-DSS, ISO27001, FSA regulations and government level audits.

24x7 SECURE CLIENT ACCESS

Access to the LDex1 facility is available on a 24x7x365 basis to authorised personnel. It is gained via a combination of security checks and procedures. Individual visitor activity is recorded and photographic & CCTV evidence is archived. Access can be requested and authorised for third party engineers and visitors where and when required in advance.



SUPPORT

LDex1 is manned by fully qualified support staff 24x7, who are always ready to be responsive to client needs. LDex operates a first line remote hands service to support the quick resolution of simple emergencies, as well as providing managed firewalls, tape backups, consultation and cabling services. Our fully qualified onsite engineers and strict SLAs enable our customers to have the confidence that their servers, systems and infrastructure are being hosted in a robust, resilient and secure environment.



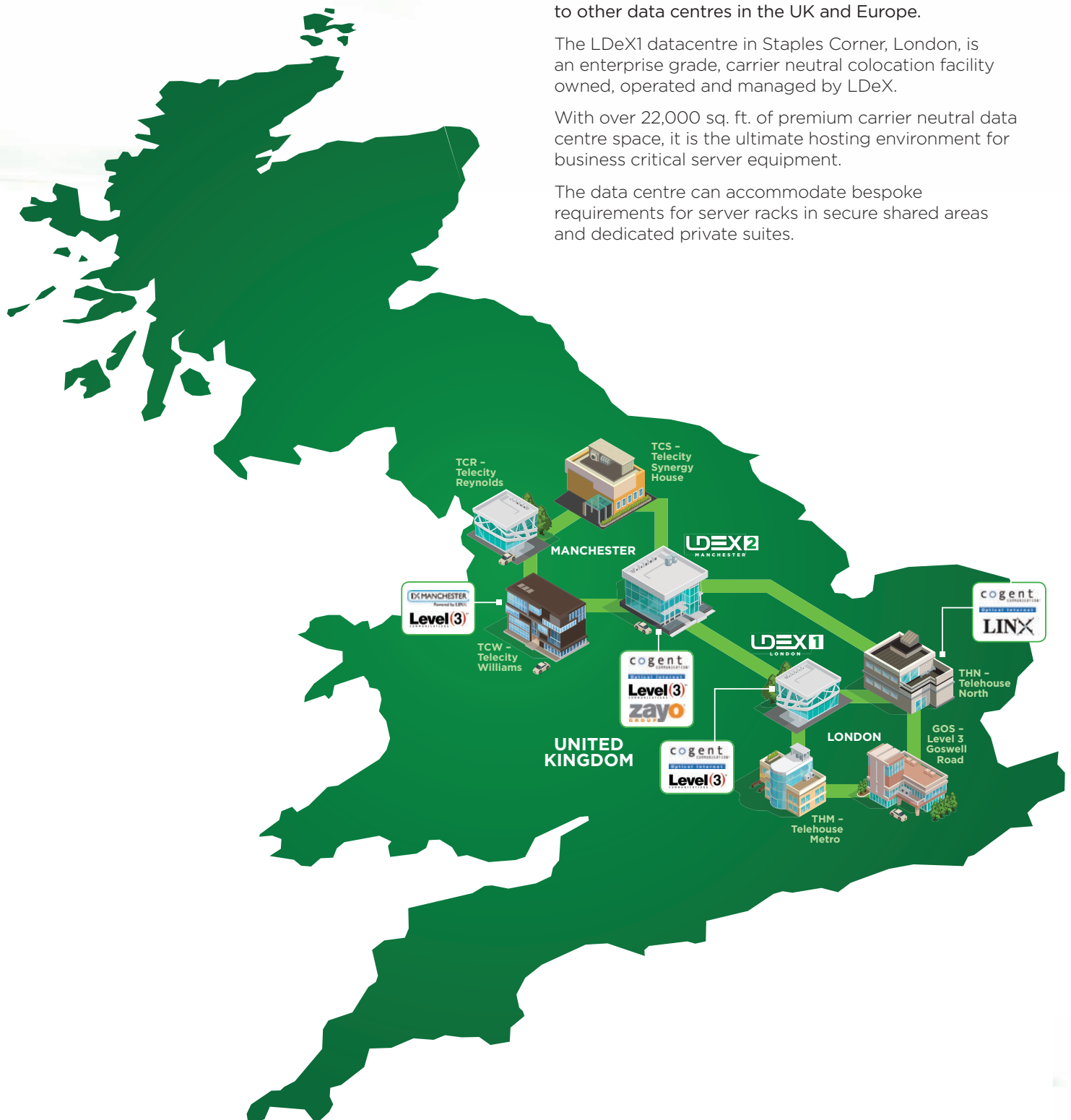
CONNECTIVITY

A carrier neutral approach is essential to offer full network flexibility. LDEx1 is located in a prime London location, which boasts the best available internet connectivity. A choice of Tier1 and Tier2 networks is available, plus dark fibre circuits from multiple providers with diverse entry points into the building. LDEx provides direct access to leading Internet Exchange points and direct connectivity to other data centres in the UK and Europe.

The LDEx1 datacentre in Staples Corner, London, is an enterprise grade, carrier neutral colocation facility owned, operated and managed by LDEx.


With over 22,000 sq. ft. of premium carrier neutral data centre space, it is the ultimate hosting environment for business critical server equipment.

The data centre can accommodate bespoke requirements for server racks in secure shared areas and dedicated private suites.



CARRIERS AVAILABLE IN LDeX DATA CENTRES

ON NET TIER 1 CARRIERS

 Cogent Communications

 Level 3 Communications

 Sprint

 Colt

 euNetworks

 BT Openreach

 Virgin Media Business

 Zayo Group

 SSE Telecoms

ON NET TIER 2 CARRIERS

 C4L

 Freethought Internet

 Goscomb

 Kaia Global

 IX Reach

 NextConnex

 Venus Business Communications

 Vorboss

INTERCONNECTED CARRIERS

 Hibernia Atlantic


 NTT

CONNECTED DATACENTRES

 LDeX1 (London)

 LDeX2 (Manchester)

 Telecity Williams (Manchester)

 Telecity Synergy House (Manchester)

 Telecity Reynolds (Manchester)

 Telehouse North (London)

 Telehouse Metro (London)

 Level 3 Goswell Road (London)

CONNECTED IXPs

 LINX

 IX Manchester


THE FACILITY

What we will provide?

Size

- **22,000 sq. ft.**

Power

- **Mains** Dual feeds from dedicated substation

Redundancy

- **UPS** Emerson Network Power N+N 2 string configuration
- **Generators** N+1 Diesel generation with 1 week fuel supply on site & 24x7 refuelling contract
- **Rack Power** A+B 32Amp power supply
- **Power SLAs** 99.999% uptime SLA

Cooling

- **Air Conditioning** N+1 High capacity air conditioning systems
- **Cooling SLAs** Maintain cold aisle temperature at 22°C
- **Containment** Cold aisle containment

Environment

- **Efficiency** P.U.E < 1.35
- **Emission Mitigation** 100% Carbon Neutral

Connectivity

- **Carrier Neutral** Multiple leading Tier1 & Tier2 network providers utilising diverse fibre routes into the data centre

Security

- **Guards** 24x7 On site manned security
- **Access** 24x7 Audited & secure access procedures
- **Features** Full height perimeter security fence, electronic car-park gate, tail gated man trap, internal and external cameras covering the building, Intruder alarms, proximity readers on all doors and Facial recognition biometric readers
- **Netwatch** Virtual tripwire system monitored by third party security centre 24 x 7

Rack Space

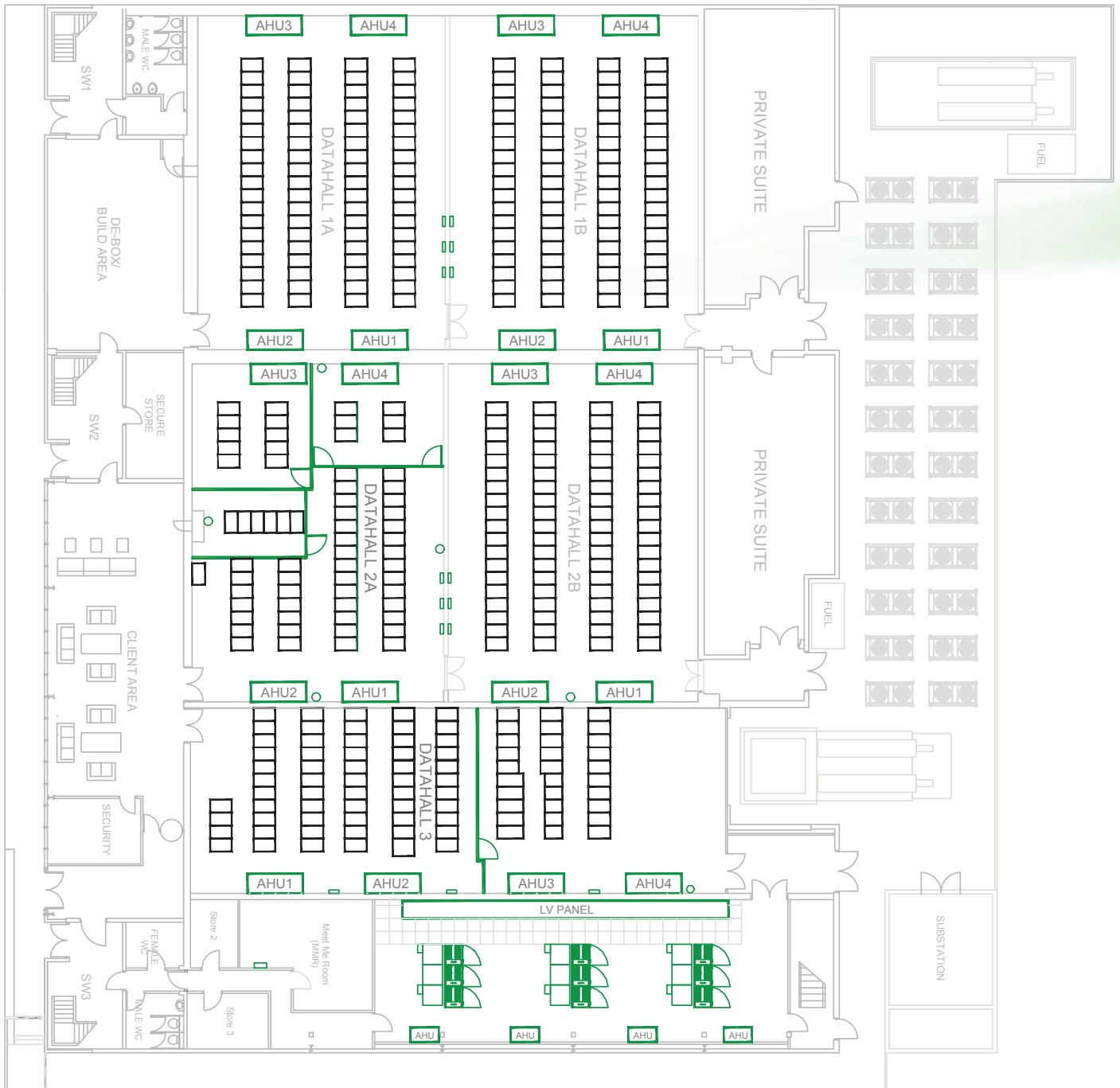
- **Colocation** Quarter racks, half racks, full 48u racks, secure cages, data suites

Amenities

- **Parking** Ample and free onsite parking for visitors
- **Storage** Dedicated secure delivery & storage areas
- **Deliveries** Secure direct delivery management
- **Other** Build areas, storage areas, meeting rooms, Wi-Fi & hot desks

Support

- **Remote Hands** 24x7 Fully qualified onsite engineers
- **Additional Support** Tape services, managed network services, cabling, rack migration, scheduled services





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