

HODDESDON DATA CENTRE

data sheet

Flexible, modular, energy efficient



The Vtesse Hoddesdon Data Centre is a single storey 30,000 square feet facility within synchronous replication distance of Central London. The data centre is being re-developed for sole or multi-tenanted occupancy. The technical space is suitable for customer server, storage, data backup and networking equipment requiring any combination of Tier 1,2 or 3 Mechanical and Electrical (M&E) infrastructure. The site will enjoy diverse 5MVA power feeds and is upgradeable to 11MVA.

Private data halls

The site has been prepared to provide four new individually secured computer halls within the main building, in addition to the 2,500sq ft hall currently in service. Each hall provides 5,000 square feet of technical space and may be configured to support up to 250 standard 46u equipment racks. Halls may be individually configured to customer specification with communal or dedicated power, cooling and fire suppression infrastructure.

Halls may be built to any Tier specification or may be configured to support mixed Tier operation. Similarly, Halls may be configured for low, medium or high density equipment configurations or for any combination thereof.

Communications

Diverse communications connectivity is available. The Hoddesdon facility is a core node on the Vtesse private national optical network giving high bandwidth connectivity to all leading UK telehotels as well as to Vtesse's 100+ UK points of presence. Service Level Agreements offering communications service availability guarantees of up to 99.999% can be provided subject to design and agreement.

For synchronous replication requirements, Vtesse provide guaranteed latency diversely connected services with any combination of Fibre Channel, Escon, Ficon Sysplex and Gigabit Ethernet service.

Power and Cooling

The site enjoys diverse 11kV feeds to twin substations. Approval has been obtained for upgrading both feeds to 5MVA initially with potential for up to 11MVA.

Sustainable Energy supplies may be arranged as required.

On-site generators will provide failover for National Grid power and are rated to match the available power to the site. Generators will be configured to provide n+1 redundancy, and are designed for continuous operation.

The fuel storage tanks will provide for 24 hours usage at full load. The site enjoys an 8 hour priority service level agreement with its two fuel suppliers.

Internally, all power distribution, Uninterrupted Power Supplies (UPS), Heating, Ventilation and Air Conditioning (HVAC), fire suppression and building management systems will be configured to provide n+1 redundancy.

UPS systems protect against power failure and provide continuous supply to IT loads until generators take over.

All Mechanical and Electrical service facilities are designed to be concurrently maintainable.

The facility is sized to provide an average power feed of up to 8KW to each rack.

High density rack power requirements of up to 30KW per rack may be accommodated in nominated zones within these halls (high density racks are individually cooled).

Energy efficiency has driven the new design and it is expected that that site will achieve an average (Green Grid) Power Utilisation Efficiency (PUE) rating of 1.4

Location

Hoddesdon
Hertfordshire

Distances by road

- 51Km London Docklands
- 34Km London City

Key Features

- 30,000 Sq ft facility
- 4 x 5,000sq. ft. data halls
- 1 x 2,500sq.ft. data hall
- Up to 5,000sq. ft. flexible accommodation

Power & Cooling

- 5MVA diverse 11kV supply. 11MVA potential.
- PUE target of 1.4
- Diesel backup generators
- Energy efficient cooling
- Uninterruptable Power Supplies
- Zoned fire suppression systems

Communications

- Direct fibre connectivity to all leading telehotels
- Extensive comms options

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Individually specified accommodation

Facilities

- 24*7*365 manned security
- VESDA smoke detection
- Zoned fire suppression
- Flexible accommodation for conference rooms, office space and meeting rooms.
- Casual lounge and catering areas
- WiFi Internet access
- Lockable cabinets
- Parking for up to 70 cars

Connectivity

- Diverse fibre building entries
- Diverse fibre connectivity nationally
- Direct connectivity to leading telehotels
- Optical Wavelength connectivity nationally and internationally
- Ethernet connectivity nationally and internationally
- IP VPN connectivity nationally and internationally
- Escon & Ficon connectivity nationally and internationally
- Fibre Channel connectivity nationally and internationally



Further Accommodation

An additional 5,000 sq. ft. of flexible accommodation within the building may be custom configured to provide private suites, office accommodation, disaster recovery accommodation, lab space, stores and/or comms rooms to meet individual customer needs.

Conference and meeting rooms are available on site as is office space for up to 100 staff. Desks in this area will all be equipped with mains power, telephone points and LAN cabling. Wired or wireless internet connectivity will be available for visiting staff on request.

There is secured on-site parking for up to 70 vehicles.

Services

Remote Hands services will available on-site 24*7*365 for equipment and rack installation and de-commissioning and also for equipment moves, changes and adds. Lockable storage cabinets and cages will be available on-site for customer spares and other equipment.

Security

The site is secure. It will be permanently manned and is protected externally by steel and wire fences and has a vehicle access control barrier. CCTV monitoring and recording facilities cover perimeter areas. Customer's cars, service and delivery vehicles may be parked within the secure compound. Access security will be maintained throughout the building by use of a zoned access system and there are mantraps to each of the 4 main computer halls. The site security post will be manned 24*7*365 and the premises are regularly patrolled. Visitors are escorted at all times. Access to the facility is by appointment only.

Fire prevention

Very Early Smoke Detection Alarms (VESDA) are to be fitted throughout the building and linked to security & fire station systems. Fire suppression equipment will be deployed in zones and is designed to be intelligently discharged in the event of incident. Incident management procedures are regularly reviewed with fire prevention officers

Access

Car

By road, Hoddesdon is 34Km from the City of London, 51Km from London Docklands, 79Km from Slough, 107Km from Reading and 185Km from Birmingham

Rail

From Broxbourne Station: London Liverpool Street - 33 minutes.

Bus

Nearest road served is the High Street by routes 310 and 311 from Enfield and Hertford.

Air

36Km from Luton Airport, 39Km from Stansted, and 75Km from Heathrow.



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