

# Vialtus Solutions data centres – Harbour Exchange



Vialtus Solutions' Harbour Exchange data centre is located in the heart of London's Docklands. The location is within three miles of London's Internet Exchange to give a fast connection speed to the global Internet. The data centre is designed to offer a high level of redundancy to keep systems online.

Harbour Exchange is manned 24 hours a day by experienced network and systems engineers. It is also monitored from our Network Operations Centre in Uxbridge, to provide monitoring redundancy.



*The Harbour Exchange data centre is situated in the heart of London's Docklands.*

## SECURITY

Harbour Exchange is manned 24 hours a day by security guards and access to the building is only granted on production of valid company identification.

CCTV monitors all entrances and exits and access throughout the facility is gained through a swipe-card access system programmed as per an individuals operational needs.

## FIRE PREVENTION

The fire prevention system is constructed of strategically placed detectors - for smoke and heat - creating 'zones' within the floor and ceiling voids. The system works on a 'double knock' basis comprising of ionization and smoke detection.

The system is linked with the building fire alarm system. Fire suppression is provided by a gas based FM-200 fire prevention unit, with a pressure of 25 Bar; release time of 30 seconds; and extraction time of 30 minutes, via designated smoke vents.



*FM-200 fire suppression system instantly eliminates the threat of fire or smoke damage.*

## POWER

The supply is distributed from the London Electricity Board 11Kv ring main. The UPS is a battery inverter floating 800KVA with an instantaneous electronic change over switch. This provides over 30 minutes of power while the generator comes online.



*Diverse power feeds ensure multiple resilient supplies can be fed to cabinets.*



ISO 27001  
IS 515304

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The generator is a dedicated 1750KVA unit, with at least 48 hours worth of fuel held on-site and at off-site reserves. In addition to the on-site stores, tanks are re-fuelled by two independent suppliers, activated in the event of an emergency.

Off-site reserves include access to our suppliers 0.433 million-litre reserve in the event of fuel shortages. Each rack within the data centre can be provided with: 16Amp (single or redundant); 32Amp (single or redundant) or three phase supplies, all connected via 'commando style' sockets.

## CLIMATE CONTROL

Climate controls monitor and adjust temperature and humidity levels. Suites use tightly controlled gas based air conditioners, each of which is of a dual circuit design with three chillers, compressors and condensers, providing three independent circuits for maximum availability.



*Climate control units maintain optimum conditions within the data centre.*

There is sufficient redundancy within the current configuration of six, 100Kw Airedale down flow units. Each unit delivers 30t/r of cooling and having three separate cooling circuits delivers triple redundancy. The air conditioning is monitored 24x7 with automatic dial out for repair in the event of a component failure.

## FLOOR

The floor is raised above flood level with moisture detectors situated within the floor void. The floor is rated at 1000kgs per sq meter and houses data cable trays and power conduits to ensure data is separated from power.

## DATA CENTRE LAN

The LAN is based on Cisco architecture with customers able to specify single or redundant connections. They are then connected to the Vialtus Solutions backbone network, which in turn has no single point of failure. The data centre is connected to a 2.4GB DWDM (MPLS) ringed network that enters Harbour Exchange diversely and connects to two separate POPs within London Docklands. The fibre ring follows the East and West coast of England, connecting the other Vialtus Solutions data centres within the UK.



*The infrastructure has been built to the highest standards using high quality hardware.*