



Data Centre Services

JT Central/Minden Place DATA CENTRE

Facility Product Description

JT's Data Centre Hosting Service provides a secure computer room environment with protected and backup power, security and bandwidth.

Data Centre specification

JT's Data Centre provides a secure, environmentally controlled and protected facility, with reliable connectivity providing:

- 2 KW electrical power to each rack (standard)
- 1+1 UPS
- Generator backup
- Resilient air conditioning system
- VESDA early warning fire detection
- Temperature and humidity sensors
- FM 200 Gas Suppression

Rack specification

All racks are lockable and designed to accommodate multi-vendor servers and are compliant with IBM, Compaq, Dell, Hewlett Packard and Sun:

- Dual power strips per unit
- Cable management strip per unit
- 600 x 1000 mm rack space

All racks can be provided with dual ethernet ports to our backbone for Internet resilience.

Data Centre - Air conditioning

Climate control for the Data Centre is provided by 3 Edenaire 30 KW units. The air conditioning in the Data Centre is resilient, ensuring that if one air conditioning unit fails there is sufficient cooling capacity provided by the other air conditioning units.

Power room - Air conditioning

The power room has its own resilient air conditioning units, which are independent of the cooling system for the Data Centre.



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Electricity

The power is supplied by an on-site electrical transformer. The power to the facility is a 1000 amp 3-phase supply. Each cabinet can be provided with a single or 3 phase supply.

Generators

The Data Centre is supported by on-site generators, which are housed separately. The generators have a run time of 2 days at 75% load. All JT's generators are maintained by our dedicated power team.

UPS

2x chloride 90 net, 80 KVA, 3 phase in, 3 phase out, full on-line, double conversion UPS units, each supplied with a 20 minute 100% load time, sealed for life battery. The UPS units have been configured as a 1+1 with each UPS having both static and manual by-pass capabilities. The power output of the system is configured as 80 KVA maximum to provide redundancy; the run time is 10 minutes at 100% load. Every month the level of applied load and characteristics are examined on the UPS.

Security systems

The facility is protected by a Siemens Alarm intruder and door access control system, utilising door contacts and dual technology movement detectors, which all report back to a centralised system. Access is controlled by proximity fob readers with entry into the Data Centre by combined individual fob and PIN code. In addition, a digitally recorded CCTV system is installed with cameras viewing all entrances into the Data Centre. As well as CCTV, security guards patrol the Data Centre on a 24/7/365 basis.

Fire detection

The facility is protected by two separate fire detection systems. A sophisticated particle detection system, the Very Early Smoke Detection Apparatus (VESDA) LaserPlus system has been installed. This system detects fire at the earliest possible stage by drawing in air through a network of air sampling pipes. The VESDA uses a Class 1 laser to achieve the optimum response to a vast range of smoke types. The second system is a Menvier DF4000 loop addressable system with detector heads located in all rooms and corridors. In the Data Centre the detector heads are located in the ceiling space and under the computer flooring.

Gas suppression

We have deployed FM200 to protect our Data Centre as it outperforms the majority of other gaseous systems in terms of speed of reaction to fire. FM200 is effective within 10 seconds of initial discharge.

Benefits and Features

- Fast and effective
- No significant reduction in oxygen levels
- Clean gaseous agent leaving no residue
- Zero ozone depleting potential
- Short atmospheric life span
- Electronically non-conductive
- Safe for use in fully occupied areas
- Extensively tested, recognised and approved worldwide

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Telecommunication connectivity

The facility is connected to the JT core network and as such the complete JT portfolio of connectivity services (both fibre and copper) is available and includes all Private Circuits, Fibre LAN, Broadband services, telephony lines and Internet Backbone bandwidth services. By using diverse data feeds from a number of leading IP bandwidth suppliers we have ensured that Internet bandwidth is highly resilient in the event of provider failure.

A second layer of protection is provided in the SDH (Synchronous Digital Hierarchy) connections from Jersey to the UK and France, meaning that in the unlikely event of a sub-sea cable failure, traffic will automatically divert through an alternative route in a matter of milliseconds.

The network is also continually monitored to provide optimal traffic flow by ensuring that efficient use is made of all our routes. In addition, our upstream bandwidth is managed so sufficient capacity for total network peak demand is always provided. The overall design diversity and resilience of the Internet Backbone network means that a very high network availability rate is always achieved.

Monitoring

JT monitors the facility and the security systems 24/7/365 days a year and responds to any faults and alarms that are raised. Our dedicated power team responds to any generator, UPS or power alarms.

Lightning protection

The installation was conducted by VM & RW Bacon Ltd who have over 100 years of service and experience in design of specialised earthing systems. The lightning Protection system complies with BS 6651-1999 Protection of Structures Against Lightning and BS 7430 'Earthing'.

Service Level Agreement

A standard Service Level Agreement is included with this service (see JT Colocation Service Level Agreement).

Terms & Conditions

The JT Colocation and JT Data Services available at this facility are provided under and subject to, the JT Colocation and JT Data Services Terms & Conditions of Service. Customers are strongly advised to read these Terms & Conditions on our website, before applying for the Service.



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