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DATA CENTRES

STATE OF THE ART DATA CENTRES

In recent years, Data Centres have become increasingly important to businesses of all sizes as a higher volume of customers choose to host their servers with a provider in a purpose built facility rather than investing large amounts of resources themselves.

We recognise that it is vital for you to ensure the Data Centre Provider you choose offers the right physical and technical facilities to meet requirements, which is why we have made considerable investment in building a number of state of the art facilities across the country that ensure the right environment is provided, especially for the most mission critical applications.

With a national Data Centre presence, we have sites in Derby, Leeds and Northampton totalling 60,500 sq ft and housing 1,500 racks. All of our sites offer high specification and resiliency in cooling, power and connectivity. Furthermore, our sites are robustly connected and sited within our national MPLS Network.

DATA CENTRE COMPARISON TABLE

	Derby	Leeds	Northampton
Specification			
Space (Sq Ft)	6,500	13,000	41,000
Racks	330	450	720
Halls	4	4	4
Security			
Perimeter Fencing	✓	✓	✓
CCTV	✓	✓	✓
Photo ID	✓	✓	✓
24/7 Manned Security	✓	✓	✓
Anti-Tailgaiting Pod		✓	✓
Power			
Power (MVA)	2.5	3.3 (Dual Transformers)	4.0 (Quad Transformers)
N+1 Generator Backup	N+1	N+1	N+1
UPS	N+1	N+N	N+N
Environment			
Air Conditioning	N+1 DX Cooling	N+1 Water Cooled Chillers with N+N Air Handlers	N+1 Water Cooled Chillers with N+N Air Handlers
Fire Suppression	FM200	FM200 VESDA Plus VESDA Detection	IG55 Argon/Nitrogen Plus VESDA Detection
Connectivity			
Dedicated Internet Connections	✓	✓	✓
MPLS Network (POP)	✓	✓	✓
Services			
Onsite Support Team	✓	✓	✓
Remote Hands & Eyes	✓	✓	✓
Managed Services	✓	✓	✓
Cabling	✓	✓	✓

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DERBY

Our original Data Centre located onsite at our Derby headquarters has 330 racks in 4 halls covering 6,500 sq ft. Our Derby Data Centre boasts top of the range technology for cooling, security, resiliency, hosting and communication solutions.
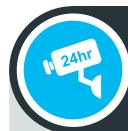
As HQ, Derby is host to our Central Network Operations Centre (NOC) which is manned 24/7 with skilled support staff.

Power

Derby has 2.5MVA of power, this equates to typically 16A per rack with optional upgrades to 8kw and 'B' feeds available.

In the event of mains power failure, the resilient power backup system delivered by N+1 generator backup and N+1 UPS will seamlessly take over to ensure a constant source of power, meaning you receive a consistent service.

Security

The Data Centre has perimeter fencing and CCTV coverage points on all internal and external entry and exit points, as well as between rack aisles from which all images are recorded and stored.

We operate a strict Photo ID swipe card entry system for access to the building and there is manned security onsite on a 24/7 basis.

Connectivity

Dedicated Internet Connections are available along with site-to-site connectivity to link up multiple business sites with our Derby Data Centre. From here a PSTN breakout enables us to provide our SIP Trunking solution SIPlink.We are carrier neutral and the Data Centre benefits from being part of our core MPLS Netowrk with resilient connections to Telehouse, Global Switch and Telecity.

Environment

The Data Centre is monitored and fully climate controlled with N+1 Stulz and Airdale NDX Cybercool Air Conditioning Systems.

Fire protection is provided by a FM200 Fire Suppression System which fills the sealed area with gas to extinguish the fire quickly without the use of water.

Services

The Data Centre is manned by our highly skilled on-site Technical Support Team and we offer remote hands and eyes, installations, managed services and cabling.
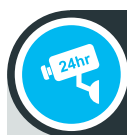
LEEDS

Conveniently located near Leeds with easy access from the A1, M1 and M62, this 13,00 sq ft Data Centre has a total capacity of 450 racks spread over 4 separate halls making it an ideal solution for colocation and managed hosting.

Power

In the event of a mains power failure, the resilient power backup system delivered by N+1 generator backup, 6 x UPS 'A' feed and 6x UPS 'B' feeds (N+N) will seamlessly take over to ensure there is a consistent source of power to the Data Centre. With 3.5MVA of power, this equates to typically 4kw per rack with optional upgrades to 8kw and private racks available.

Security

The Data Centre benefits from manned security onsite on a 24/7 basis. Leeds has perimeter fencing and CCTV coverage on all internal and external entry and exit points as well as between the rack aisles. The Facility also has an anti-tailgaiting pod and a strict Photo ID swipe card system for access to the building.

Connectivity

We are carrier neutral and the Data Centre benefits from being part of our core MPLS Network with resilient connections to Telehouse, Global Switch and Telecity. We have the ability to offer site-to-site connectivity to link up multiple business sites into our Leeds Data Centre, along with dedicated Internet connections. From here a PSTN breakout enables us to provide our SIP Trunking solution SIPlink.

Environment

The Data Centre is fully monitored and implements 3 pairs of 330KW N=1 Airedale water cooled chillers with N+N air handlers, reducing the energy consuption and carbon emmisions of the air conditioning units. With the latest fire protection provided by a FM200 suppression VESDA system, we are alerted at the earliest possible sign of fire by continually drawing air into a pipe attached to a detector unit on the wall.

Services

We have the ability to offer remote hands and eyes, installations, managed services and cabling with our on-site support team.
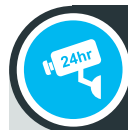
NORTHAMPTON

The 41,000 sq ft Northampton Data Centre has a total capacity of 720 racks. It has been purpose built to the same high standards set by our previous sites at Derby and Leeds, making it an ideal solution for colocation and managed hosting.

Power

Northampton has 4MVA power split into 4 x 2MVA HV supplies (N+N) and flexible power with up to 32 amps duel feed per rack, which can also be provided from separate transformers, panal boards and UPS sub-systems. Other features include 4 x MVA transformers (N+N), 5 x 1MW generators (N+1) with duel fuel tanks, 12 x 500KVA UPS (N+N) with 8 minute autonomy (at full load) and advanced power monitoring technology.

Security

The Data Centre features an anti-tailgating pod with a strict Photo ID swipe card system for access to the building in operation. Furthermore, the facility benefits from perimeter fencing and CCTV coverage on all Internal and external entry and exit points, as well as between rack aisles from which images are recorded and stored. There is also overhead secure network cabling with caged storage available on request as well as manned security onsite 24/7.

Connectivity

Northampton Data Centre benefits from being part of our core MPLS Network with resilient connections to Telehouse, Global Switcvh and Telecity. We are carrier nuetral and have the ability to offer dedicated internet connections along with site-to-site connectivity to link up multiple business sites with our Northampton data centre. From here a PTSN breakout enables us to provide our SIP Trunking solution SIPlink.

Environment

With full monitoring, the Northampton Data Centre contains a bank of 8 N+2 free cooling glycol based chillers with redundant pumpsets, N+N high efficiency CRAC units, N+N humidification and a cold aisle containment system. The facility boasts the latest fire protection provided by an IG55 Argon / Nitrogen suppression system with VESDA detection which alerts at the earliest possible sign of a fire by continually drawing air into a pipe network connected to a detector unit on a wall.

Services

Manned by our highly skilled on-site Support Team, the Northampton Data Centre benefits from remote hands and eyes, managed services and cabling.

DATA CENTRE SOLUTIONS

Having the right environment is the first step in delivering a range of solutions that deliver real business benefits. We have built our Data Centre facilities with the ability to work with you to design and deliver a range of solutions that can really have a positive impact on your business.

The following solutions are available, however a more bespoke option can be provided should your require it.

Colocation - Whether you're looking for rack space or a private suite, we have a range of colocation services to meet your specific requirements. Colocation is ideal if you plan to build and manage your hosted setup yourself, or we can source the hardware from leading manufacturers such as Cisco, Dell (including EqualLogic SANs), HP and NetApp.

Managed Hosting - We can provide you with a fully managed infrastructure including servers, SAN devices and Firewalls. Your business will benefit from the experience and specialised expertise of our highly qualified on-site support team who will manage and monitor your servers 24/7. We can also rent you software licences for services hosted in our Data Centres, including Microsoft, VMware and Citrix.

Disaster Recovery - To protect virtual server workloads we use the Zerto replication technology. This maintains a standby copy of a virtual server at a different location that can be brought into service in the event of a server outage, meaning that your business can continue to operate as normal.

Connectivity and MPLS - With a site-to-site solution, your business can connect people in different locations to work together seamlessly by improving effectiveness, productivity and communication.

Our ConnectFast solution provides high speed and reliable connectivity which is crucial to ensure the efficient running of your growing business.

Storage Solutions - Back up can be burdensome, but with storage consolidation you can dramatically simplify back up and recovery without any downtime, improving reliability whilst reducing costs. You can benefit from these features in any of our Data Centres and implement an off-site disaster recovery solution or host an appliance on one on your own business sites with our shared or dedicated storage solutions.

Virtualisation - Quite simply, virtualisation allows one computer to do the job of many computers by sharing its resources across many environments. Today's computer hardware was originally designed to run only one application at any one time, but virtualisation breaks that bond making it possible to run multiple operating systems and applications on the same computer at the same time, increasing utilisation and flexibility.

Hosted Unified Communications Platforms
Using our Cisco Unified Communications specialisation, we are able to deliver hosted Cisco and NEC IP Telephony Platforms. We have previously won the Cisco Innovation Award for our work with hosted telephony.

SIP Trunking - SIP (Session Initiation Protocol) is a multi-media signalling standard allowing you to communicate over IP connections. All our Data Centres are connected to the Internet and also the PSTN world so that you can host you telephony platforms and have reliable and resilient PSTN connections with competitive call charges. Further benefits include geographic and non-geographic number allocation and number porting.

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