



Datacentre – Studley

Dedicated managed environment for mission critical services

Six Degrees Group
www.6dg.co.uk



Connect with us.

Our datacentres are the core of our business.

At Six Degrees Group we own and manage 30,000 square feet of highly available, geographically diverse datacentre (DC) space including a facility in Studley. Our DCs not only provide the flexible building blocks required for many of our hosted solutions but also ensure secure cost-effective options are available for those customers wishing to co-locate critical network and IT equipment in top tier facilities.

Datacentre - Studley

With 15 years of continual operational life, our Studley facility has a proven track record of delivering highly available services to clients with the most demanding applications.

It consists of five data floors, spread across our North and South buildings, with each floor fitted out with the latest cooling, fire prevention and power distribution equipment, designed to deliver balanced, energy efficient, fault tolerant environments.

Our North datacentre is designed to deliver a fault tolerant N+N environment and power services balanced with energy efficiency, whilst the South datacentre offers our most cost effective hosting options.

Colocation

Each data floor provides access to scalable solutions, designed specifically to meet the current and future needs of our customers' colocation requirements. From dedicated racks to high capacity pods, all colocation solutions are delivered with exceptional physical security, environmental resilience and guaranteed quality of service backed by our premium SLAs.

Dedicated Racks

These medium capacity, dual feed racks can deliver 2-8kW using a standard 42U or specialised 48U set up. Our dedicated racks are perfect for those looking to outsource critical IT equipment or establish a presence in multiple strategic locations.

Energy Efficient Dedicated Pods

6DG energy efficient dedicated pods are designed to provide an additional level of security and environmental efficiency for those who have a requirement of between 6 - 36 standard 2-8kW racks.

Hybrid Cloud Hosting

Our 6DG cloud pods are based in the UK data centres that we own and manage, connected by the secure network that we built and maintain. Our hybrid hosted solutions are ideal for customers who require physical racks with the ability to scale into our private clouds as and when required.

Private Cages

Our private cages maximise the security, efficiency and structural integrity for configurations of 6 or more standard 2-8kW racks. The layout of our cages can be designed and scaled to meet bespoke customer requirements.

High Capacity Dedicated Pods

These highly secure dedicated pods provide greater capacity and base footprint than our energy-efficient variant. They can deliver 8-20kW per rack and can be tailored to meet customer requirements.



"Our Studley facility boasts a bespoke design to provide reliable and efficient hosting."



Certified and Secure

Because we own and operate our DCs we can offer true gate-to-rack ownership and management. This provides significant security advantages to complement our ISO27001, PCI-DSS and IL2/3 accreditations.

Business Continuity

Our geographically diverse datacentres span the UK reaching from the financial core in London to the industrial hub of the Midlands. This allows us to offer resilience in the same geography or in multiple regions through our 6DG Backup and Disaster Recovery services.

Datacentre services

Our DC services are about more than just space and power; we also offer remote/smart hands capability such as power cycling of physical equipment, soft reboots of servers, cabling, physical backup management, network setup, racking/un-racking and more. In addition to physical entity support we also offer logical entity support with highly qualified engineers (e.g. Microsoft and VMware trained) managing live customer environments.





Secure, Safe and Efficient

Security

Data security requires robust management at all ends of the spectrum. Physically, our DCs are protected by 24/7 CCTV, perimeter fencing, on-site security personnel and anti-ramp bollards that are situated around the site's perimeter and are designed to stop a truck. Permanent access to the site can be obtained once Government issued ID has been produced for verification.

With the physical threat controlled, our security focus extends to the data. Our technical team include security specialists deploying and maintaining the very latest appliances and two-factor authentication products. The only partnerships we maintain are with similarly leading providers - a testament to the quality of our deployments.

Fire Protection

We take the risk of fire very seriously. Cutting-edge fire detection systems are situated throughout our locations and all procedures are designed to highlight and minimise any potential risk.

Both of our Studley facilities utilise building-wide, multi-zonal fire detection systems with both ionisation and optical detectors in suites, roof cavities and sub-floors. For complete peace of mind we've gone even further and installed a Highly Sensitive Smoke Detection (HSSD) System, which is able to detect fires before they flare, allowing the best possible opportunity to detect and control the spread of fire before it takes hold.

In the unlikely event that a fire should get past all our detection systems and flare, it will be suppressed using FM-200 Heptafluoropropane, a chemical based gas supported system, ensuring any risk to your data is negligible.

Cooling

Heat is an enemy to reliable data storage. It is essential that the data floors are kept at the optimum temperature to ensure integrity of data and to avoid problems. The environment within each data floor is constantly monitored through an array of temperature and humidity sensors, alerting us to any potential problems before your data is affected.

Power

Harnessing and maintaining power is at the very core of delivering our service to clients. All of the technology we possess would be rendered ineffectual without a continuous, uninterrupted supply of power, so we have designed our facilities with this in mind. Our site is connected directly to the national grid via two 11kV connections, each fed from separate substations, should one fail, the other serves as backup.

The North site uses two independent critical power distribution systems ensuring your equipment is protected in the event of any unexpected incident and to allow us to carry out an extensively planned preventative maintenance programme.

The South datacentre uses a dedicated critical power distribution system ensuring your equipment is protected in the event of any unexpected incident and to allow us to carry out a planned preventative maintenance programme. It utilises a single supply and combines this with two independent backup generator sources.

Each system is backed up through battery UPS and generators. We consider every eventuality and alongside fuel supply agreements and routine maintenance programmes we even store enough fuel on-site for one week's performance.



Responsive Accountability



Environmental Considerations

Our business is important but so are our social responsibilities. We are committed to making decisions that minimise our impact on the environment.

We actively encourage our key suppliers to follow our lead and help our customers pursue their environmental strategy. Both Studley North and South DCs offer high specification hosting space, utilising the very latest energy saving equipment and technology to reduce the environmental impact of our critical systems.

"Award winning energy efficiency"

Support Services

Combining our support services has been the best means to successfully get the job done for our customers and we're confident you will find us hard to beat.

Our technical teams boast wide-ranging skill sets, specialising in two important areas: systems support and network and security solutions. Each team member is equipped to lend their assistance in a huge variety of situations, but they chiefly concern themselves with software and hardware platforms, firewalls, network hardware and connectivity solutions. You can count on us to support you at any desired level, from simple ad-hoc programmes which allow for effective and efficient budgeting, to infrastructure management for the ultimate assurance that your critical services are in hand.

Facility Amenities

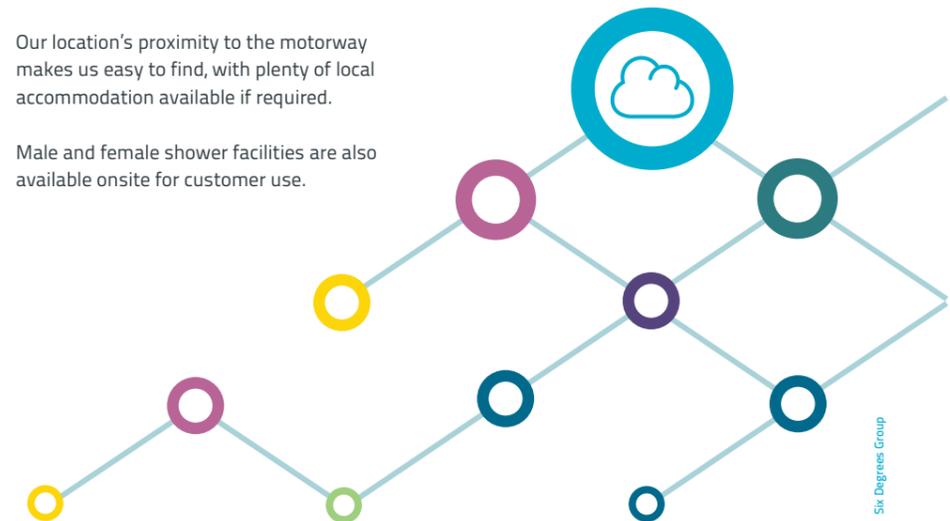
We understand the needs of our customers, which is why we endeavour to provide a comfortable and stress-free environment in each of our datacentres.

When you are working on-site, you will find thoughtfully positioned and carefully maintained rest areas providing access to hot and cold drink facilities.

Pre-bookable private meeting rooms are available for customer use and free access to our wireless network is provided as standard.

Our location's proximity to the motorway makes us easy to find, with plenty of local accommodation available if required.

Male and female shower facilities are also available onsite for customer use.





General Specification: Studley North

General Specification

- N+N power and cooling distribution
- 900m² technical space
- Up to 500 racks with a mixture of dedicated racks, pod and cages
- 600mm raised floor
- 1.5kW/m² average power density

Environmental

- N+N DX air handling units rated for 35°C ambient air temperature
- Cold aisle containment for maximum energy efficiency
- Target 24°C +/- 2°C inlet temperature to racks
- Temperature and humidity monitoring within technical space
- Water leak detection installed under each AHU and water carrying pipework

Security & Access Control

- 24x7 manned security personnel
- Perimeter door monitoring and alerting
- Extensive digital CCTV system covering internal and external areas. Monitored by our on-site security teams
- PAC Integrated card access and biometric access control with full auditing and reporting
- Security systems linked to the building management system (BMS) and 6DG network operations teams

Power & Resilience

- 11kV supply from separate substations
- 2 x 2 MVA dedicated transformers
- 2 x 1 MVA diesel generators in N+N configuration
- Minimum 72 hr fuel backup
- Data floors have independent power supplies with A&B electrical switchboards
- 2-8kW single phase A+B power supplies as standard
- High density 20kW power available upon request
- Three phase power available upon request

Fire Protection

- Building wide fire detection with floor based multi-zones with ionisation and optical detectors installed under the raised floor and above racks
- Highly sensitive smoke detection (HSSD) system installed on return air handling units
- FM-200 Heptafluoropropane, a chemical based gas suppression system

Connectivity

- Carrier neutral
- Multiple diverse entrances to building
- Connected to the Six Degrees Group international network providing connectivity to 38 different datacentres across the UK, Europe and America
- 10Mb/100Mb/1Gbps/10Gbps network

Amenities

- Customer rest area equipped with welfare amenities, toilets and showers
- Meeting room available for customer use



General Specification: Studley South

General Specification

- N+1 power and cooling distribution
- 370m² technical space
- Up to 200 racks with a mixture of dedicated racks, pod and cages
- 600mm raised floor
- 1kW/m² average power density

Environmental

- N+1 DX based air handling units rated for 35°C ambient air temperature
- Target 24°C +/- 2°C inlet temperature to racks
- Temperature and humidity monitoring within technical space
- Water leak detection installed under each AHU

Security & Access Control

- 24x7 manned security personnel
- Perimeter door monitoring and alerting
- Extensive digital CCTV system covering internal and external areas. Monitored by our on-site security teams
- PAC Integrated card access and biometric access control with full auditing and reporting
- Security systems linked to the building management system (BMS) and 6DG network operations teams

Power & Resilience

- 11kV supply from separate substations
- 1x 1 MVA dedicated transformer
- Dedicated electrical infrastructure
- 2 x 700 kVA diesel generators in N+1 configuration
- Minimum 72 hr fuel backup
- 2kW single phase power supply as standard
- Three phase power available upon request

Fire Protection

- Building wide fire detection with floor based multi-zones with ionisation and optical detectors installed under the raised floor and above racks
- Highly sensitive smoke detection (HSSD) system installed on return air handling units
- FM-200 Heptafluoropropane, a chemical based gas suppression system

Connectivity

- Carrier neutral
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Amenities

- Customer rest area equipped with welfare amenities, toilets and showers
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