



# Datacentre – London 1

Dedicated managed environment for mission critical services



Six Degrees Group  
[www.6dg.co.uk](http://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 central London. 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 - London 1

London 1 is a high capacity, fully redundant facility with a proven track-record of delivering highly available services to clients with the most demanding applications.

It consists of 3 data floors, each fitted out with the latest cooling, fire prevention and power distribution equipment, designed to deliver a balanced, energy efficient, fault tolerant environment. Its Greenwich location provides low latency connectivity to the city using our very own Next Generation Network.

### 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 London 1 facility has been delivering mission critical services to our customers since 2008."



### Certified and Secure

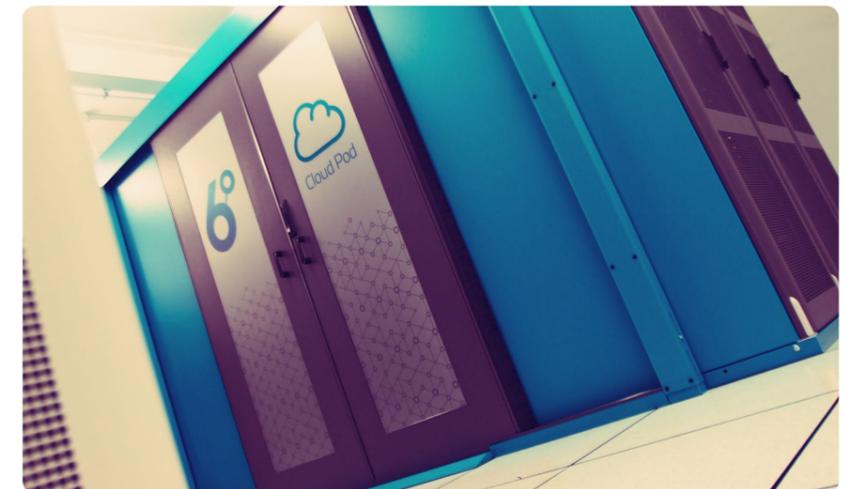
Because we own and operate our DCs we can offer true gate-to-rack ownership and management. This provides significant security advantages to complement our ISO27001, PCI-DSS and IL2/3 accreditations.

### 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-ram 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. London 1 has biometric palm readers allowing stress free, secure access for all registered customers.

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.

Each of our London 1 data floors utilises 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. The supply to London 1 forms part of the UKPN 11kVring with seperate feeders to the site that go back to different substations as part of their ring topology.

We have four generators that operate in a parallel N+1 configuration. 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. London 1 offers high specification hosting space, utilising the very latest energy saving equipment and technology to reduce the environmental impact of our critical systems.

## 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.

London 1's proximity to the city makes us easy to find by car or public transport, with plenty of local accomodation available if required.

"Award winning energy efficiency"





# General Specification: Data Floor 1 & 2

## General Specification

- Tier III aligned
- 550m<sup>2</sup> technical space per data floor
- Up to 200 racks with a mixture of dedicated pod and suites
- 600mm raised floor
- 1kW/m<sup>2</sup>

## Environmental

- 8 x 80kW DX based air handling units providing N+1 with external condensers rated for 35c ambient air temperature
- Target 24°c +/- 2°c inlet temperature to racks
- Temperature and humidity monitoring within technical space
- Cold aisle containment for maximum energy efficiency
- 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
- 1000kVA dedicated transformer per data floor
- 5 x 550 kVA diesel generators providing N+1
- External 10000 litre bulk fuel tank providing 24 hours runtime on a full load
- Re-fuelling supply contract
- Server room has independent power supplies with A&B electrical switchboards for dedicated cabinet power delivery
- 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
- IG-55 Argon/Nitrogen based gas suppression system

## Connectivity

- Carrier neutral
- 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: Data Floor 3

## General Specification

- Tier III aligned
- 350m<sup>2</sup> technical space
- Up to 132 racks with a mixture of dedicated pod and suites
- 600mm raised floor
- 1.5kW/m<sup>2</sup>

## Environmental

- 6 x 100kW DX based air handling units providing N+1 with external condensers rated for 35c ambient air temperature
- Target 24°c +/- 2°c inlet temperature to racks
- Temperature and humidity monitoring within technical space
- Cold aisle containment for maximum energy efficiency
- 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
- 1000kVA dedicated transformer per data floor
- 4 x 550 kVA diesel generators providing N+1 with integrated fuel tanks providing 24 hour autonomy
- Re-fuelling supply contract
- Server room has independent power supplies with A&B electrical switchboards for dedicated cabinet power delivery
- 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
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## Connectivity

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## Amenities

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

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