



# MCR 1: Technical specification

One of the best connected and protected data centre sites in the UK, MCR1 was launched in 2007. This enterprise-grade facility boasts 22,000ft<sup>2</sup> of technical space across five data halls, and features an on-site police-linked NSI Gold Approved Alarm Receiving Centre (ARC).

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# Full technical specification



## Capacity

- Power circuits**
  - Standard full racks with up to 32Amp dual circuits and up to 8kW per individual rack space.
- Rack sizes**
  - Quarter, half and full rack enclosures.
- Caged space**
  - Dedicated secure cages for multiple racks; bespoke sizes.
- Rack space capacity**
  - Up to 450 racks across 5 data halls.

## Power systems and protection

- Mains feeds**
  - Resilient priority A ring feeding data centre. High-V sub station.
- UPS capacity**
  - Ground floor — 1600kVA Riello UPS in N+N configuration.
  - Third floor — 1000kVA Riello UPS in N+N configuration.
- Generators**
  - High capacity diesel generation in N+1 synchronised, fault tolerant configuration.
  - 4x changeover panels (2xA side and 2xB side) with intelligent deep sea controllers.
- Fuel supply**
  - 29,000 litres bulk fuel tank on-site providing over 100 hours continuous runtime.
  - 24/7 refuelling contract with local fuel supplier.
- Mains efficiency**
  - Super-low-loss 2MVA electrical transformer.
  - Voltage optimisation regulating incoming mains voltage for conditioned power supply to equipment and maximum efficiency.
- SLA**
  - Power availability SLA 99.9999%.

## | Cooling

### Data centre and plant room cooling systems

- Highly efficient, high capacity HVAC systems split between A and B side power feeds, in N+1 configuration. N+1 resilient.

## | Fire protection

### Fire detection and prevention

- VESDA® smoke detection.
- FM200 and Argonite gaseous fire suppression systems in data halls and critical plant areas.
- P1 building fire system.

## | Connectivity

### Description

- Carrier neutral, multiple carriers' diverse points of entry. Tier 1 carriers and dark fibre available. Various resilient connection options.

### Major providers

- BT, Cogent, Colt (Lumen), euNetworks, Exascale, Gamma, GTT, IX Reach, M247, Neos (SSE), Stelia, Virgin Media, Vodafone, Zayo.

### Peering

- IX Manchester and LINX direct peering — core Point of Presence on-site.

### Rack cross connects

- Copper or fibre: To client requirements. **One off install charges only, no recurring charges.**

### Metro and long reach network

- Direct connections to major Manchester and London data centres.

## | Security

### Live monitoring

- Live CCTV monitoring, surveillance and incident response via on-site, police linked Alarm Receiving Centre and BS5979 S.O.C.

### Perimeter protection

- Anti-climb full height perimeter fence, infra-red virtual trip wires, audio challenge and CCTV cameras to BS8418 standards.
- Thermal imaging motion detection with Grade 3 Intruder Alarm Systems.
- High speed, electronic security gates at building perimeter.
- ANPR number-plate recognition systems in operation.

## Security (continued)

### Security resilience

- Security Operations Centre (SOC) has own on-site data centre, fibre, cooling and UPS systems with no dependencies on the wider data centre infrastructure for complete resilience and autonomous operation.

### Secure visitor access

- Multi factor access control systems including anti tailgating man-traps protected by access card, PIN, volumetric and biometric (iris recognition) checks before access is granted to critical areas. 24/7 client access.

### Compliance and certifications

- ISO27001 certified (BSI) security to NSI Gold Approved BS5979.
- Caged area or single racks to PCI DSS.
- PASF (Police Approved Secure Facility).
- SC cleared technical support and operations staff.



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