

# Delta House

## Technical specification



### **Delta House data centre technical specifications**

Our Manchester data centre is accessible, state of the art, energy efficient and one of the most secure and resilient facilities in Europe.



# Full technical specification

## Capacity

- Power circuits** > Standard full racks with up to 32Amp circuits (dual)
- 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
- Rack power capacity** > Dual feed, up to 8kW per individual rack space

## Power systems and protection

- Mains feeds** > Resilient grid supply. High-V sub station. 'Priority A' ring feeding data centre
- 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  
> 4 x 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
- SmartGrid connection** > 2MW energy storage system on-site for the storage of renewable energy
- Mains efficiency** > Super-low-loss 2MVA electrical transformer  
> Voltage optimisation regulating incoming mains voltage for conditioned power supply to equipment and maximum efficiency
- SLA** > 100% power SLA available

## 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

## 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

- > Zayo, Level 3/Century Link, SSE, BT, OpenReach, Vodafone, Virgin Media, GTT, Cogent, M247, IXReach

### 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 BS 5979 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

## Security (cont.)

- Perimeter protection (cont.)**
  - > High speed, electronic security gates at building perimeter
  - > ANPR number-plate recognition systems in operation
- 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

## Carrier directory

### ZAYO

Zayo is one of the world's largest network providers with international reach on their fibre network. They are able to offer dark fibre and high capacity network circuits on diverse paths to the majority of leading data centres and connectivity hotspots.

### Cogent Communications

Cogent is a multinational Tier 1 Internet Service Provider. Its service offers internet access and data transport throughout the world over its award-winning fibre optic, IP data-only network.

### Level 3 / Century Link

In the autumn of 2011, Level 3 and Global Crossing joined forces. The new integrated network united Level 3's broad, deep U.S. and European footprint with Global Crossing's extensive international, intercity network. The Level 3 Network has direct, private connections to almost every major ISP and Telco.

### IX Reach

IX Reach offers the quality, security and capacity associated with large operators, but with the flexibility, simplicity and customer-focused approach of smaller providers. IX Reach offers exceptional SLAs and once a provider is connected onto IX Reach's network, they can quickly and efficiently upgrade their capacity.

## Carrier directory (cont.)

### **BT**

BT's highly redundant network connection provides them with a 100% internet availability target along with a market-leading SLA. It connects companies around the world with their globally recognised fibre and is the largest supplier of Wi-Fi in the country.

### **SSE**

SSE's telecoms strategy for deploying next generation networks ensures it constantly pushes the boundaries of our network reach and performance with an extensive portfolio of Layer 2 connectivity and a flexible approach to network configuration.

### **GTT**

GTT owns and operates a global network connecting North America, Europe and Asia. GTT offers over 120 network Points of Presence (PoPs) on over 24,000 km of fibre.

### **Virgin Media**

Virgin has invested over £13 billion to build and own the UK's largest nationwide fibre optic network with 330 Ethernet PoPs and over 38,000 street cabinets across the country. Its infrastructure is consistently upgraded providing high resilience and quick data speeds.

### **Boundless Communications**

Boundless Communications provides business-grade connectivity services to properties in or out of business parks using fibre and wireless technologies. Having built around 2,000 wireless links in the past couple of years, Boundless Communications can provide fibre to the premises and fibre to the mast wireless solutions. High performance connections can be installed on very short lead times and businesses can save money compared to conventional leased lines.

### **Vodafone**

Access faster, more reliable network and communications solutions for your end customers with the help of Vodafone Carrier Services — increase efficiency, reduce costs and deliver better service. Vodafone Carrier Services provides adaptable, purpose-built voice and data solutions for communications service providers that are next generation ready. Experienced at serving both the enterprise and consumer telecommunications markets, our UK and international teams specifically focused on delivering carrier grade services are ready to help your business grow.

### **Avensys Networks**

Established in 1996, Avensys Networks provides a low latency, robust and resilient network with multiple POPs in Manchester, London and Sheffield, offering UK and global transit. Avensys specialises in offering high-quality services to the business sector, including bandwidth, leased lines and co-location, at a sensible price.

### **M247**

M247 operates the most advanced hybrid network in the UK. By combining a unique mixture of wired and wireless technology, M247 is able to offer connectivity solutions with one of the best SLA and support packages in the industry.

## Carrier directory (cont.)

### **ANS Group**

ANS Group designs, implement and support complex network, data centre and mobility solutions for organisations with locations both in the UK and around the globe. With a focus on high-level expertise at every stage, ANS Group create bespoke network infrastructure solutions to cope with the individual needs of each unique enterprise customer.

### **Internet Connections**

Internet Connections operates an important part of the general network infrastructure of the UK. With points of presence at key data centres throughout Manchester and London, its 10GE level network performance and wide UK coverage provides highly resilient and redundant transit.

### **N3 (NHS closed network)**

N3 is a Wide Area IP Network (WAN), connecting many different sites across the NHS within England and Scotland. It also connects to other networks via Gateways, notably to the internet via the Internet Gateway. Data centres such as TeleData host applications and so serve many end-users, making them focal points for data traffic. Therefore some are connected directly into the N3 core, in the same way as an N3 Access PoP. They are typically 100Mbps-1Gbps services.

### **Vispa**

Vispa Internet Limited was launched in October 1999 by a small, yet dedicated team of Internet "surfers" who wanted to provide an ISP that would fully meet the demands and requests of their clients within the United Kingdom. Their vision has always been, and will remain so, to provide a full range of services at affordable and fair price points, where our customers are allowed to maintain their own individual identity.

### **Talk Internet**

Talk Internet uses only tier 1 service providers; Level 3, Global Crossing, Cogent and Hibernia Atlantic to provide high performance networks with access to all worldwide domains. IP Transit provides direct links to many of the world's largest content and access providers. Peering in both the UK and Europe ensures that we have the fastest and quickest route to all major networks.

td

## More information

For further details about our third party services, call us now on **0161 498 1200**.



**Teledata UK Ltd**

Delta House, Wavell Road, Manchester, M22 5QZ

**t:** 0161 498 1200    **e:** [enquiries@teledata.co.uk](mailto:enquiries@teledata.co.uk)    **w:** [www.teledata.co.uk](http://www.teledata.co.uk)