

SCC FOR BUSINESS PARTNERING



Fareham Data Centre Data Centre Modernisation

Based in Hampshire, SCC-owned Fareham Data Centre offers over 2,800m² of Data Centre white space over fifteen Data Halls.

Built to robust, quality standards and conforming to ISO 27001 – Information Security Management processes, the facility offers highly resilient power and cooling infrastructure. Aligned to the Uptime Institute performance and availability criteria, the facility exceeds Tier III specifications.

Dual electrical distribution paths provide 2N redundancy on UPS systems, 2N redundancy on heat rejection chillers and 2N or N+1 on critical cooling systems.

The site offers over 1,400 rack footprints across two floors, built-out in a modular pod configuration, combining private suites and shared colocation facilities.

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.

SCC recognises 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 UK.

Our Capability

With three SCC-owned Data Centre facilities, and access to additional partner space across various UK locations, SCC has geographical spread and capability to deliver.

Colocation - From rack space to private suite, colocation is ideal when building and managing your own hosted setup. We can also leverage our vendor independence to source hardware for you.

Managed Hosting - We can provide a fully managed infrastructure including servers, storage, networking and firewalls via the specialised expertise of our highly qualified on-site support team who will manage and monitor your servers 24/7.

Connectivity and MPLS - Connecting your sites and your people through SCC investment in Wide Area Network technology, improving effectiveness, productivity and communication.

Backup Solutions - Dramatically simplify backup and recovery without any downtime, improving reliability whilst reducing costs.

Fareham

Power

Power is routed to the Fareham site directly from two separate National Grid substations and diversely routed to the building and to each of the data halls.

Each rack is fed from 2N centralised based APC Schneider UPS systems with an autonomous runtime at full load of 10 minutes.

To eliminate the risk from outage or power failure, standby power generators are provided in an N+1 redundant configuration.

Cooling

Cooling within each Data Hall is delivered through cold-aisle contained pods.

Data Hall cooling units are provided at varying levels of redundancy (N+1, 2N) based on customer demand.

A chilled water service is deployed throughout the Data Halls with multiple chiller units presented in a 2N redundant configuration.

Security

The Data Centre has excellent perimeter security and access to the building requires permitted access through a turnstile and secure gates.

Fareham facility is manned and monitored 24/7 by onsite, directly employed, dedicated security team.

The facility is protected by over 350 cameras; covering exterior approaches, gates, car parks, doors and plant areas.

Internally cameras monitor access points, service corridors, plant rooms, meet-me rooms as well as additional coverage in data halls.

Images are monitored, recorded, encrypted and stored for 90 days.

Access to Data Halls is permitted only to pre-approved individuals.

Proximity card access control is maintained with PIN confirmation for the most secure areas.

Connectivity

With multiple carriers providing diverse fibre routes into the Data Centre we can accommodate our client Wide Area Network requirements on a carrier neutral basis.

We also permit client specific communication links to be provisioned into the Data Centre.

Resilient Internet connectivity can be provisioned on a cost per mbps per month basis.

Protected Environment

The Data Hall is protected by VESDA (Very Early Smoke Detection Apparatus), where two alerts within a zone are required to trigger the fire suppression system.

The suppression system comprises of Novec 1230 fluid agent which stops the combustion process by absorbing heat to quickly extinguish the fire.

Services

Built to robust, quality standards and conforming to ISO 27001 – Information Security Management process, our experienced and responsive SCC facilities operations team is onsite 24/7.



Technical Specification

Power

- Diverse 4.5MW supplies fed from independent substations
- Capability to upgrade to 9.5MW supplies
- (2) 10MVA Critical HV substations
- 11KV incoming underground supplies at 2N
- Dual power distribution paths directly to the rack

Standby power generation

- 11.25MVA standby power generation (9MVA at N+1)
- (5) 2.25MVA Caterpillar HV diesel generators
- (2) separate underground fuel storage tanks
- Refuelling contracts by local providers

Uninterruptable Power Supplies

- Minimum 2N Uninterruptable Power Supplies with battery back-up
- UPS backed power to critical cooling infrastructure, controls, pump sets

Cooling

- 9MW total site cooling (4.5MW at 2N)
- Minimum 2N chiller plant and pump sets
- Room based cooling units to achieve 6KW average per rack (N+1 minimum or 2N)
- Specialist high density cooling systems to achieve up to 20KW average per rack
- Environmental range: 22°C (+\ - 4°C), 50% RH (+\ - 30%)
- Pod based cold-aisle containment systems or bespoke high density systems

Fire detection and suppression

- VESDA style Aspirating Smoke Detection systems (data halls, switch rooms and service corridors)
- Novec 1230 fire suppression fluid agent (data halls and switch rooms)

Connectivity

- Carrier neutral - Multiple telecommunication providers
- Diverse cable access entry points to facility
- Diverse Meet Me Rooms
- Diverse cable routing to each data hall suite

Physical Security

- 24x7 onsite SCC security desk and remote monitoring via SCC Managed Service Desk
- External and internal surveillance coverage (350 cameras). Recorded images stored for 90 days
- Anti-ram raid vehicle entry barrier gate, anti-climb fencing, protective landscaping
- Electronic proximity access control (Biometric authentication available)

Facilities

- Provision for 1,400 rack footprint
- Shared colocation space, dedicated caging or private data hall suites
- (15) modular data hall suites (40 to 160 rack suites)
- Onsite customer parking
- Dedicated customer office space
- Multiple customer pre-staging rooms
- Customer break out/ rest area/ kitchen
- Secure loading bay/ delivery storage
- Onsite waste disposal and customer recycling facilities

Green Credentials

- 100kW roof mounted photovoltaic array, providing green renewable energy to supplement national grid supply
- Ultra highly efficient Symmetra MW UPS system - above 94% efficiency at 25% load

Support

- 24x7 onsite SCC facilities operations team
- 24x7 SCC Managed Network Operations Centre
- 24x7 SCC Managed Service Desk
- 24x7 SCC "Smart Hands" service management changes

Accreditations

- ISO 9001 - Quality Management
- ISO 20000 - IT Service Management
- ISO 22301 - Business Continuity Management
- ISO 27001 - Information Security Management