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## Private Cloud Solutions

### Aspen House Fleet Data Centre (AHF) Technical Specification

#### Power

- 1.5MVA dedicated sub-station with dual HV feed from National Grid
- Power Utilisation Effectiveness (PUE) rating of 1.5
- 2500Amp x 3 phase dedicated LV panel, all Merlin Gerin & Schneider switch gear
- Data centre ranked amongst highest Amps/kW per M<sup>2</sup> in UK
- Multiple modular (near unity) UPS, Powerwave 9000 DPA, with 99.9999% reliability and uptime
- 3 x Generators with 1 week of oil supply capable of supporting full building load



Aspen House Data Centre

#### Racks

- Dual 32Amp power strips per rack (PDU's with ammeters) each from separate distribution boards and circuit breakers
- Diverse data delivery cabling in traywork above racks
- Power distribution in traywork below floor
- Racks are extra large 47U, 1000mm deep, 700mm wide



Contained Cold Aisle (AHF)

#### Data Floor

- 790M<sup>2</sup> Hi-Tech building with 395M<sup>2</sup> technical space
- 108 racks with dual 32Amp (dual 8kW) diverse supplies per rack
- Electrostatic discharge heavy duty data floor with earth bonding every 9M<sup>2</sup>

#### Cooling

- Multiple N+1 Denco CRAC (computer room air conditioning) highly efficient cooling system.
- Contained cold aisle solution, cold air plenum above racks, organised high efficiency cooling
- HiCoP (high co-efficient of performance) Mitsubishi background cooling with seasonal free cooling.
- Fresh air system with Lossnay heat exchangers on both floors

#### Fire & Smoke Detection

- Honeywell 20 zone digital addressable fire alarm panel
- Intelligent XP95 optical smoke detectors
- Xtralis VESDA (Very Early Smoke Detection Apparatus) system along each row of racks and around Denco cooling units
- Automatic fire brigade callout at first knock

#### Security

- Sixteen internal and external cameras, images recorded, kept for 90 days and available over IP
- All doors have electronic locks and are centrally controlled and monitored
- Secure building with window grilles and shuttering
- 2.1M high security palisade fencing around perimeter
- ISO 27001 Certified
- Regular (24x7) security patrols

#### Connectivity

- Separate Telco room with diverse Juniper switches
- Diverse and separately routed multiple 10Gb fibre connections from Virgin Media, Level 3 & Zayo.
- Racks have twin 1Gb Ethernet links to dual Juniper core switches with resilient multiple 10Gb fibre connections back to our London data centres



ISO 27001 IS 577060

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## Private Cloud Solutions



EqualLogic Storage for Backup & Recovery

### Support

- On-site engineering and facilities support team including VMware certified VCP's and VSP's
- Technical build area, adjacent to data floor
- Services available on site: Backup & Recovery support, Network support, VMware support, LINUX support, xDSL connectivity, private circuits, server rentals/installs, firewall/router/switch rentals/installs
- Remote hands support
- Accept and store client deliveries

**Location** – London Edge Data Centre - 1 mile from J4A of the M3, ample visitor parking, secure business park location, Fleet railway station half hourly services to London Waterloo (50 minute journey time), 15 minutes by car to M25 J12 and 25 minutes to Heathrow, Less than an hour's drive from central London (off peak).

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Aspen House  
Barley Way  
Ancells Business Park  
Fleet, Hampshire GU51 2UT  
T: 01252 810010 - F: 01252 813391  
www.datanet.co.uk  
E: info@datanet.co.uk

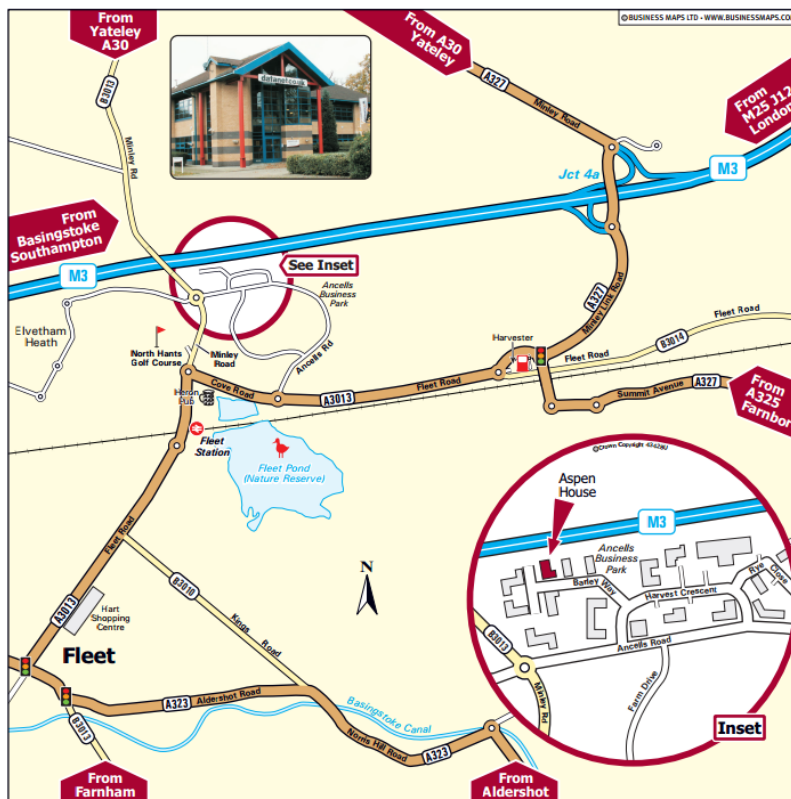
**From M3**

- Leave the M3 junction 4a.
- Take the exit towards Fleet (A3013).
- At the set of traffic lights, take the A3013 towards Fleet.
- At the roundabout turn right for Ancells Park.
- Turn right into Harvest Crescent, then right into Barley Way.
- Aspen House is on the right hand side (see insert)

**By Train**

- Fleet is served by trains from London Waterloo, Basingstoke, Winchester and Southampton.
- To walk from the station takes 20 minutes.

Datanet is the UK's longest established provider of business class cloud hosting, backup and connectivity solutions. Headquartered in our Fleet Data Centre only 15 miles outside the M25, Datanet is the name you can trust to deliver your Cloud, Hosting, Connectivity and Backup & Recovery solutions.



### Datanet cares about our environment

We designed our Aspen House (AHF) data centre to be as environmentally friendly and efficient as today's technology allows. The air conditioning for the entire facility is HiCoP (high co-efficient of performance) and employs a heat exchange system whereby in winter, the already warmed air leaving the building helps heat the cold air coming in, with the reverse true in the summer months.

In addition, Datanet has deployed cold aisle containment for super efficient cooling of the servers in the racks within the data centre and the CRAC (computer room air conditioning) system utilises seasonal "free cooling technology". The technically superior near unity UPS infrastructure reduces power consumption and lowers the carbon footprint of Aspen House.



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