

FACILITY OVERVIEW

DC4 S1

SYDNEY NEXT DC DATA CENTRE



Next DC Sydney Data Centre

Situated in the Macquarie Park technology zone approximately 15km from Sydney's CBD, S1 has access to all major public infrastructure and telecommunications links. This enterprise-class colocation facility provides easy, on-demand access to major cloud platforms such as AWS, Microsoft Azure, Google Cloud, Oracle Cloud, IBM Cloud and Alibaba Cloud through AXON.

S1 has the Uptime Institute's Tier III certifications for design and constructed facility. With five storeys of enterprise-class colocation space, S1 showcases the very latest in data centre technology, delivering industry-leading reliability with 100% availability guaranteed.

MACQUARIE PARK
NSW, AUSTRALIA



ISO 9001:2015
Quality Management System

Quality
ISO 9001
SAI GLOBAL



ISO 27001:2013
Information Security Management System (ISMS)

Information Security
ISO 27001
SAI GLOBAL



ISO 4001:2015
Environmental Management System

Environment
ISO 14001
SAI GLOBAL



UTITier III
Design Documents



UTITier III
Constructed Facility



UTITier III
Operations

NetVault provides specialist cloud services to customers from a wide range of industries. We combine state of the art technologies and equipment to provide a secure, reliable and robust platform which enables us to meet the magic five nines of uptime – 99.999%.

Our clients range from small businesses with ten staff, right to up to large multinational corporations and government departments. NetVault has the capability to host almost anything in the cloud, with the knowledge and experience to do this efficiently and cost effectively.

 Building

Sustainability

- Water cooled chiller technology with variable speed compressors.
- Indirect water-side free cooling.
- Rain water for cooling towers.
- Dedicated area for potential future installation of onsite generation plant (such as tri-gen or other technologies) to significantly reduce CO2 emissions.
- Energy efficient lighting (fluoro or LED) meeting AS1680.2.2 standard.
- External walls insulated to reduce heat transmission.
- Variable speed compressors, pumps and fans.
- Direct free air cooling for data halls on the upper level.
- Low volatile organic compound (VOC) materials and paint.
- Target PUE is 1.3 at peak load.

Fire Suppression & Monitoring

- Inert gas fire suppression system.
- Leak detection systems.
- Emergency warning systems throughout the building.
- Water mist suppression system in DRUPS enclosures.
- Distributed fire alarm controls equipment to avoid single point of failure.
- Fully addressable analogue fire alarm system comprising Fire Indicator Panel (FIP), mimic panels, heat detection and

 Products & Services

Telecommunications

- Diverse underground cable pathways to the building.
- Dedicated interconnect room for cable connections.
- Access to choice of 50+ carrier networks.

Customer Services

- Dedicated office space for long-term private use.
- Sound-proof boardroom.
- Quiet zone customer meeting room.
- Chill-out room equipped with kitchen facilities and Nespresso machine, TV, lounge, massage chairs and Foxtel.
- Equipment staging room.
- Customer carpark.
- Spare parts vending machine.
- Guest Wi-Fi.

Cooling

- N+1 high efficiency water cooled chillers, cooling towers and pumps.
- Dual primary pipework header and distribution system.
- Secondary pipework distribution serving data hall equipment valved and looped providing dual path.
- Multiple redundant water pump and compressor configuration.
- Water storage for cooling towers.
- Leak detection system.
- Server heat load approximately 2000W/m2.
- N+2 Computer Room Air Conditioning (CRAC) units per data hall.
- CRAC units supply temperature control and floor pressure control.
- All CRAC units are fitted with dual power supplies.
- CRAC units fitted with high efficiency electronically commutated fans.
- All CRAC units are located in secured plant corridors outside the data halls.
- Average cold aisle temperature of 22 +/-2 degrees.

Security

- Individual credential checks prior to authorisation.
- 24/7 onsite security personnel.
- Biometric fingerprint security for data centre access.
- Anti-cloning access card encryption.
- Secure lifts between floors.
- Intruder-resistant glass, steel mesh and solid concrete walls.
- Secure loading dock for deliveries.
- Extensive coverage of motion sensitive CCTV cameras.
- Remote monitoring and control of rack access via ONEDC®.
- Monitoring of news and weather for external security risks.
- Designed with advice from ASIO T4 accredited consultants and in consideration of ASIO levels of security and the future requirements of the Protective Security Policy framework (PSPF).

Power

- Initial available power of 12MVA, increasing up to 20MVA.
- IT load capacity of approximately 14MW.
- Minimum N+1 redundancy on power supply.
- Multiple power distribution units providing N+N final circuit distribution to IT racks.
- Harmonic distortion controlled and monitored by UPS systems.
- Full N+1 main electrical infrastructure extending to N+N at power rail level.
- Ultimate 14+1, 1670kVA Diesel Rotary UPS [DRUPS] units on an Isolated Parallel bus for 100% no break IT and mechanical power.
- Diverse main feeders delivered at 11kV.
- Minimum 24 hours' onsite fuel supply.

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