

FACILITY OVERVIEW

DC6 M1

MELBOURNE NEXT DC DATA CENTRE



Next DC Melbourne Data Centre

Redefining industry standards for security, performance, reliability and energy-efficiency; M1 showcases the latest innovations in data centre design and is the first data centre in Asia-Pacific to employ solar power as a renewable energy source.

With a 4.5 NABERS rating for data centre infrastructure and UTI Tier III certified, M1 is located less than 3km from Melbourne's CBD and is the largest independent data centre in the city with 6,000m2 of high-density technical space. As Australia's first AWS Direct Connect POP outside of Sydney, M1 offers a range of direct and on-demand connectivity to a myriad of local and global cloud platforms such as AWS, Microsoft Azure, Google Cloud, Oracle Cloud, IBM Cloud and Alibaba Cloud through AXON.

PORT MELBOURNE
VIC, AUSTRALIA



ISO 9001:2015
Quality Management System

Quality
ISO 9001



ISO 27001:2013
Information Security Management System (ISMS)

Information Security
ISO 27001



ISO 4001:2015
Environmental Management System

Environment
ISO 14001



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.



UTITier III
Design Documents



M1 – 4.5 star
rated for
data centre
infrastructure



NEXT DC
where the cloud lives™

NETVAULT
INTERNET | TELEPHONY | CLOUD

DC6 TECHNICAL SPECIFICATIONS



Sustainability

- Water-cooled chiller technology with variable speed compressors.
- Indirect water-side free cooling.
- Rain water is available for cooling towers.
- Australia's largest privately owned rooftop PV solar array.
- 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.
- Low volatile organic compound (VOC) materials and paint.
- Target PUE for full final design IT load is 1.35.

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.
- Full addressable analogue fire alarm system comprising Fire Indicator Panel (FIP), mimic panels, heat detection and



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.
- Leak detection system for critical plant areas.
- Server heat load approximately 2000W/m2.
- N+2 Computer Room Air Conditioning (CRAC) units per data suite.
- CRAC units fitted with supply temperature control and floor pressure control.
- All CRAC units are located in secured plant corridors outside the data suites.
- Hot and cold aisle containment systems: halls 4, 5 and 6 cold aisle; halls 1, 2 and 3 hot aisle.
- Average cold aisle temperature of 22 +/-2 degrees.
- Average cold aisle relative humidity of 50% +/-15%.

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 by 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

- Available power of 22.5MVA.
- Minimum server heat load is 2,000W/m2.
- IT load capacity of approximately 15MW.
- Minimum N+1 redundancy on power supply.
- Multiple power distribution units with minimum N+N redundancy.
- Harmonic distortion controlled and monitored by UPS systems.
- Full N+1 main electrical infrastructure extending to N+N at power rail level.
- Ultimate 16+1 Pillar 1670kVA Diesel Rotary UPS [DRUPS] units on an Isolated Parallel bus for 100% no break IT and mechanical power.
- Three 7.5MVA main feeders delivered at 11kV.
- Minimum 24 hours' onsite fuel supply.



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.
- Chill-out room equipped with kitchen facilities and Nespresso machine, TV, lounge and Foxtel.
- Equipment staging room.
- 2 four tonne lifts.
- Customer carpark.
- Spare parts vending machine.
- Guest Wi-Fi.

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