FACILITY OVERVIEW

DC7 P1

PERTH NEXT DC DATA CENTRE

Next DC Perth Data Centre

Perth's only independent colocation data centre, P1 is an enterprise-class facility offering 3,000m2 of high-density technical space 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.

P1 is strategically located in Malaga, 13km northeast of Perth's CBD and has excellent access to major public and telecommunications infrastructure. P1 has UTI Tier III certifications and showcases the latest advances in data centre technology, such as the innovative DRUPS system delivering 100% availability of all critical systems.

MALAGA
WA, AUSTRALIA

VMvault 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. VMvault has the capability to host almost anything in the cloud, with the knowledge and experience to do this efficiently and cost effectively.

Certified System
ISO 9001:2015 Quality Management System
Quality ISO 9001
SAI GLOBAL

Certified System
ISO 27001:2013 Information Security Management System (ISMS)
Information Security ISO 27001
SAI GLOBAL

TIER DESIGN — NEXTDC Limited P1 Data Center December 16, 2013 — UPTIME INSTITUTE CERTIFIED
UTITier III Design Documents

TIER FACILITY — NEXTDC Limited P1 Data Center 13 February 2014 — UPTIME INSTITUTE CERTIFIED
UTITier III Constructed Facility

TIER OPERATIONS — NEXTDC Ltd NEXTDC P1 Expires 14 June 2020 — UPTIME INSTITUTE CERTIFIED GOLD
UTITier III Operations

NEXTDC
where the cloud lives™

NETVAULT
INTERNET | TELEPHONY | CLOUD

DC7 TECHNICAL SPECIFICATIONS

Building

Sustainability

- 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.
- Variable speed compressors, pumps and fans.
- External walls insulated to reduce heat transmission.
- Low volatile organic compound (VOC) materials and paint.
- Direct free air-cooling for data halls on the upper level.
- 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 compromising Fire Indicator Panel (FIP), mimic panels, heat detection and

Facilities

Cooling

- N+1 high efficiency chillers 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.
- 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.
- Average cold aisle relative humidity of 50% +/-15%.
- Building Management System (BMS) for monitoring of major mechanical systems.

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 vfuture requirements of the Protective Security Policy framework (PSPF).

Power

- Available power of 12MVA.
- IT load capacity of approximately 6MW.
- 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.
- Full N+1 main electrical infrastructure extending to N+N at power rail level.
- Ultimate 6+1, 1670kVA Diesel Rotary UPS [DRUPS] units on an Isolated Parallel bus for 100% no break IT and mechanical power.

Customer Services

Telecommunications

- Diverse connectivity and underground cable pathways to the building.
- Dedicated interconnect rooms for cable connections.

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 and Foxtel.
- Equipment staging room.
- Customer carpark.
- Spare parts vending machine.
- Guest Wi-Fi.

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