

Data Centre Fact Sheet

Western Sydney, N.S.W.

Fujitsu Australia currently operates 8 high-quality, continuous-availability data centres nationally, with six primary sites strategically located in Sydney, Melbourne, Brisbane and Perth.



Architecture

- Purpose built multi-level data centre, constructed in 2011
- 1:150 natural disaster event resilience
- 4-hour fire rating on all data hall doors, walls and windows
- Absence of external windows and signage

Location

- Situated 40 kilometres from Sydney C.B.D. at Greystanes, N.S.W., Australia
- Close proximity to rail and road travel routes

Dimensions

- Land 3.5Ha.
- Building 17,500m²
- Raised data hall 9x 1000m² stage 1, extendable to 15,000m²
- Plant and equipment area 3300m²
- Office area, work area and amenities 2000m²
- Shared parking area for more than 50 vehicles

Electrical System

- 2 x 11kV mains feeds via diverse entry points and pathways
- Multiple 2300kVA Diesel Rotary UPS's, in minimum n + 1
- Dual fuel tanks and redundant pumping system
- On-site fuel storage sufficient for 72 hours non-stop operations
- Power density solutions from 1kW to 100kW per cabinet
- Site capacity to 60MVA

Mechanical System

- Hybrid closed loop chilled water piping system
- Free cooling chiller system
- High density underfloor water source points
- CRAC unit placement providing hot/cold aisle cooling and return air plenum
- Underfloor leak detection and off-floor drainage system
- Mechanical system supported by UPS and diesel power generation

Fire System

- Early warning smoke detection (VESDA)
- Smoke and fire detection installed under and above floor
- Dry-pipe, pre-action fire suppression within data halls

Security & Certification

- 24x7 manned security office and personnel entrance checkpoint
- Perimeter vehicular security check-points
- Anti-scaling perimeter fencing
- CCTV monitoring and capture of perimeter and internal access by digital cameras
- Single person interlock entrance to data hall areas
- Biometric and proximity card access points to data hall and other secure areas
- Certification to ISO-27001 Information Systems Security Management
- 24x7 access permitted to authorised personnel

Telecommunications

- Carrier-neutral
- 2 diverse under-ground diverse and secure cable pathways to the building
- 2 internal hand-off rooms, with diverse inter-room pathways

Data Hall

- 900mm raised floor and 900mm return air plenum
- Floor rating to 1400kg
- Floor tile system resistant to zinc whiskers
- Earthing system
- 4m clear compute area zone



Service Level Targets

- 100% availability on all electrical and mechanical systems
- Ambient temperature and humidity to ASHRAE standards

Maintenance and Support

- All infrastructure components monitored 24x7 by a nationally integrated BMS
- Core infrastructure tested and maintained to manufacturers recommendation or better
- Load banks utilised for testing
- 24x7 onsite facilities engineers

Shipping and Receiving

- Loading dock available 24x7 for shipping and receiving
- Site-suitable lifting and moving equipment available

Green Initiatives

- PUE & DCIE monitored and reported
- High efficiency DRUPS removing requirement for batteries
- Advance closed loop chilled water systems with free cooling
- Rain water re-use for grounds and gardens
- Sensor lighting installed in data hall

Services available

Co-location Floor Space

Facility managed, secure raised data floor space in sizes from single cabinets to hundreds of square metres.

Project Services

Relocations and transitions project managed by Fujitsu's experienced Project Services Team.

Implementation Services

Advice on world's best installation practices ensuring efficient use of floor space and services.

Operations Services

"Smart hands and feet" services available on-site 24x7.
Scheduled media changes and off-site vaulting

Reporting

Service level target, site access and electrical usage reporting.

Ask Fujitsu

Contact Fujitsu's Data Centre Services on 1800 114 974 or DC.Hosting@au.fujitsu.com

Contact

Fujitsu Australia and New Zealand
Address: 118 Talavera Road,
Macquarie Park NSW 2113 Australia
Phone: +61-2-9776 4555
E-mail: askus@au.fujitsu.com
Website: au.fujitsu.com
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