

## mbits Data Centre

### Location

The mbits Data Centre is located within the TransACT Data Centre Building, situated three kilometres from the Canberra CBD on Northbourne Avenue. The location of the Data Centre is serviced by multiple access roads should a disaster or emergency incident restrict road access to the facility. The Data Centre is geographically located 5 km from the Parliamentary triangle, being optimally positioned for servicing of Federal government Departments and Agencies.

### Security

The TransACT facility features a highly robust construction. The centre is windowless and physically separate from TransACT House tower. Brick ramparts minimise the effect of any potential heavy vehicle impact. The Data Centre features:

- T4 rated to PROTECTED level
- monitoring of all access points to the building
- a minimum of two layers of physical security at each point
- security guard in complex including outside business hours
- access is via minimum two layer MIL key locked doors
- CCTV security cameras continually monitor the facility
- monitoring is by time-lapse video on all entry and exit points
- card access technology for tracking and recording of all door entry and exit events
- access to secure areas is via a data key system
- no visitor or contractor is permitted access to the facility unless escorted or pre-approved.

### Connectivity

The Data Centre provides connectivity to co-located carriers and service providers including:

- Telstra
- Optus
- Uecomm
- Powertel
- Asia Net Comm
- Agile
- Soul
- SPT — Comindico
- AARNet
- ICON
- TransACT Communications — last mile services
- Access via TransACT (metro Ethernet or ATM) to MCI and AAPT.

### Racks

Racks are sited on a 270 mm raised floor with anti-static tiles and above floor cable management. All mbits racks are SRA IPAMM SCEC endorsed Class B 42 RU units employing the latest technology for cooling, humidity, security, network connectivity and power management.

### Power

The Data Centre sits within the Canberra power grid. This is supported by an in-building power substation supplying 4,000 APMS to a 450 kVA UPS system that supplies conditioned AC power to the Data Centre. The UPS's 3-string battery backup supplies 450kVA and is backed by a (905VA) diesel generator. The facility has

General Enquiries	Technical Support	Accounts	Sales	Feedback
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on-site fuel storage to service the generator running at full load for a period of approximately 288 hours.

All racks are fed from two separate power distribution boards with the addition of a second outlet power rail, to support servers equipped with redundant power supplies. There are grounding connections on all posts, cages, and racks including facility lightning protection.

### HVAC – Heating Ventilation & Air Conditioning

n + 1 redundancy is built into the facility's cooling capacity to cater for individual system failure. The Data Centre's ambient room temperature and humidity is monitored along with the plenum charge being delivered to individual racks through under floor delivery. Conditioned air is fed from below to push hot air up and out more efficiently providing the most effective cooling of computer equipment. Additionally, all racks are individually monitored and managed for air temperature and humidity through SRA IPAMM. All racks are continuously monitored 24 x 7.

### Fire Detection and Suppression

Fire detection and suppression is provided by:

- VESDA (Very Early Smoke Detection Alarm) sensor equipment
- water based suppression system with local zoning.

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