

C1 Canberra Data Centre

Technical Specifications



N E X T D C

where the cloud lives™



The innovation epicentre for cloud and digital transformation

C1 is strategically located in Bruce, 6km from Canberra's CBD, with excellent access to major public and telecommunications infrastructure. Built to the highest levels of security for the Australian Government in 1994 as the primary data centre for the Australian Taxation Office, C1 has undergone extensive transformation to provide enterprise-class data centre services and to comply with UTI Tier III requirements.

C1 now offers 2,260m² of high-density technical space. As host to Canberra's only AWS Direct Connect POP, C1 offers a range of direct and on-demand connectivity to a myriad of local and global cloud platforms such as Microsoft Azure, Amazon Web Services (AWS), Google Cloud, IBM Cloud, Oracle Cloud and OVHcloud.


A1 Adelaide

125 Frome Street, Adelaide SA 5000


B1 Brisbane

20 Wharf Street, Brisbane City QLD 4000


B2 Brisbane

454 St Pauls Terrace, Fortitude Valley QLD 4006


C1 Canberra

19 Battye Street, Bruce ACT 2617


D1 Darwin

2 Harvey Street, Darwin NT 0800


M1 Melbourne

826 Lorimer Street, Port Melbourne VIC 3207


M2 Melbourne

75 Sharps Road, Tullamarine VIC 3043


M3 Melbourne

25 Indwe Street, West Footscray VIC 3012


NE1 Newman

96 Woodstock Street, Newman WA 6753


P1 Perth

4 Millrose Drive, Malaga WA 6090


P2 Perth

11 Newcastle Street, Perth WA 6000


PH1 Port Hedland

17 Loreto Circuit, Port Hedland WA 6721


S1 Sydney

4 Eden Park Drive, Macquarie Park NSW 2113


S2 Sydney

6-8 Giffnock Avenue, Macquarie Park NSW 2113


S3 Sydney

2 Broadcast Way, Artamon NSW 2064








S6 Sydney

3 Broadcast Way, Artamon NSW 2064


SC1 Sunshine Coast

44 Maud Street, Maroochydore QLD 4558

Globally recognised and certified data centres

	Location	19 Battye Street Bruce ACT 2617
	Building	Two storey Approximately 6,000m ²
	IT load	4.4MW
	Technical space	2,260m ²
	Rack capacity	1,000
	Features	Office and common areas approximately 1,740m ² 600mm raised floor in data halls and service corridors Main data hall floor is reinforced concrete



ISO 27001:2013

Information
Security
ISO 27001
SAI GLOBAL

Information
Security
Management
System (ISMS)
certification.



ISO 14001:2015

Environment
ISO 14001
SAI GLOBAL

Environmental
Management
System
certification.



ISO 9001:2015

Quality
ISO 9001
SAI GLOBAL

Quality
Management
System
certification.



ISO 45001:2018

OHS
ISO 45001
SAI GLOBAL

Occupational
health and safety
management
systems.



Uptime Institute Tier III

Concurrently
maintainable
data centre
infrastructure.



SOC 1/SOC 2

SOC is a suite of reports
from the AICPA that CPA
firms can issue in connection
with system-level controls at
a service organisation.



PCI-DSS

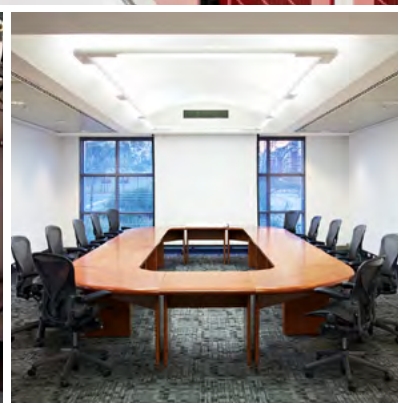
The Payment Card Industry Data
Security Standard is an information
security standard for organisations
that handle branded credit cards
from the major card schemes.



Australian Government Digital Transformation Agency

Digital Transformation Agency (DTA)

Commonwealth
Government's Hosting
Certification Framework.





Why choose NEXTDC



Flexible infrastructure

Our digital infrastructure platform supports the long-term requirements of organisations, delivering solutions that meet your needs now, with the ability to scale easily to support your future needs.



Interconnected advantage

Select from flexible connectivity services ranging from Structured Cabling and Cross Connects to cloud connections, we will help build a solution that best suits your business or project requirements.



Cloud enabled

When you house your IT infrastructure in NEXTDC's data centres, your critical IT assets are interconnected directly, and natively to AWS, Microsoft, Google, Oracle, IBM and AUCloud.



Operational excellence

Our team of highly specialised operations experts are the leaders in the Australian industry. As a customer-first organisation, we pride ourselves on ensuring we deliver the highest levels of customer service and support in the country. Our expertise and passionate team are the reason we are recognised as the leading data centre services provider in the country.



Scalable networks

Establish low-latency network connections with access over 70 global carriers, networks of your choice, including global carriers, subsea cables, metro networks, SDNs and more.



Elite security

Every NEXTDC facility is monitored and secured via our elite security operations centres 24/7/365. Governed by the highest security standards globally, our facilities are purpose built to ensure a frictionless experience, governed by a comprehensive framework comprising five layers of security.

Interconnect to the digital platforms and services that fuel your growth

With over 750 cloud, network and IT service providers available within our data centres and continued facility expansions, our customers' growth and technology needs are supported now and into the future. NEXTDC offers organisations greater choice and guaranteed reliability when interconnecting their business to the clouds, networks and platforms that drive their business, and quality assurance when it comes to building high-performance, highly reliable and scalable Hybrid IT architectures.



The fastest most direct access to your public cloud on-ramp

Partnering with NEXTDC means positioning your critical infrastructure in the epicentre of your digital services supply chain. Our digital infrastructure platform enables direct, secure and native access to your clouds, with the advantage of proximity. The power of proximity and speed delivers you the agility, performance, and customer experience advantages needed to increase your competitive edge.







Locally available hosted cloud access points



Technical specifications

C1 Canberra

 Power	<ul style="list-style-type: none"> IT load target capacity of approximately 4.4MW. 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. N+1 RUPS units. Full N+1 main electrical infrastructure extending to N+N at power rail level. Minimum 24 hours' onsite fuel supply. Two independent on-site substations.
 Cooling	<ul style="list-style-type: none"> N+1 water-cooled chillers, cooling towers and pumps. Secondary valved pipework distribution, serving data hall equipment. Water buffer tank. 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. Average cold aisle temperature of 22 +/-2 degrees. Average cold aisle relative humidity of 50% +/- 15%.
 Fire suppression and monitoring	<ul style="list-style-type: none"> Inert gas fire suppression system. Power and cooling continue to be maintained even during a fire suppression event. Leak detection systems. Emergency warning systems throughout the building. 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 MASDs systems.
 Security	<ul style="list-style-type: none"> Individual credential checks prior to authorisation. 24/7 onsite security personnel. Biometric fingerprint security for data centre access. Anti-cloning access card encryption. 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. C1's physical security includes ramraid barrier and blast-resistant doors at loading dock. The C1 facility was originally purpose built as a Data Centre for the Australian Government to meet the PSPF and SCEC construction requirements. The defined facility perimeter has all penetrations treated with security grilles and all entry points are access controlled for entry and exit. We have adopted a multifactor authentication process to include a biometric scanner in addition to a proximity access card. Designed with advice from ASD Endorsed IRAP Assessors and SCEC Endorsed Security Zone Consultants, in consideration of Federal Government Protective Security Policy framework (PSPF) requirements, the Data Halls have been built with tamper-resistant and tamper-evident barriers and treated to be able to meet the construction standards as specified in ASIO's Technical Note 1/15 – Physical Security of Zones.
 Sustainability	<ul style="list-style-type: none"> Water cooled chiller technology with variable speed compressors. Energy efficient lighting (fluoro or LED) meeting AS1680.2.2 standard. Low volatile organic compound (VOC) materials and paint. Target PUE is 1.4 at peak load.
 Telecommunications	<ul style="list-style-type: none"> Diverse connectivity and underground cable pathways to the building. Ready access to ICON Fibre. Dedicated interconnect rooms for cable connections. Access to all major carrier networks.
 Customer services	<ul style="list-style-type: none"> Dedicated office space for long-term private use. Quiet zone customer meeting room. Sound-proof boardroom. Chill-out room equipped with tea and coffee station, refreshments and hardware accessories from our vending machines. Customer carpark. Spare parts vending machine. Guest Wi-Fi.



NEXTDC's infrastructure platform delivers the security, sovereignty and interconnectivity capability your businesses requires. Our premium solutions empower the underlying capability you need to grow and scale without friction or limitation and accelerate the momentum of data traction.

Find out how NEXTDC can help you enhance the reliability and efficiency of your digital infrastructure, so you stay focussed on driving growth and creating value for your customers.



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