

Co-Lo Services



Nextgen's 'Co-Lo' service provides carrier grade Co-Location facilities as racks, secure cages or private suite areas for other carriers, service providers, corporations and government.

Nextgen owns and operates Co-Location facilities which are designed to the most stringent industry standards for environment and risk management performance.

Nextgen Co-Lo facilities are located in Sydney, Melbourne, Brisbane, Adelaide and Perth.

These Co-Lo facilities have been repeatedly assessed and approved by significant blue chip organisations for their long term Co-Location and data centre requirements.



Racks

Secure racks with up to 3kW power capacity:

- w 600mm x d 900mm x h 2200mm (45RU)
- Locked doors on all racks
- Front and rear rack access

Caged Spaces

Secure, lockable, caged spaces are available for customers who require additional security.

Spaces can be tailored to customer requirements within overall power and air conditioning limits.

Private Suites

Private suites with power, air conditioning, security, and fire services that are engineered to customer requirements.

Reliability

Service-critical plant is designed with redundancy for assured continuity of operation.

Rack Power

All racks are supported by dual plane uninterruptible power supplies (UPS) with at least 15 minutes of battery reserve.

Emergency Power

The mains power is backed up by N+1 (i.e the number required to support the essential load plus one) emergency generators with at least 24 hours of on-site fuel.

A+B Power Distribution

Each rack has a power supply from each UPS via separate distribution switchboards. Automatic transfer switches are a rack option to provide dual power source protection for customers who install single cord equipment in their racks.

Cooling Redundancy

Chilled water is distributed from N+1 chillers via a multiple valve ring mains. Redundant computer room cooling units are installed in Co-Lo rooms to ensure stable environmental conditions.

Fire Services

Fire suppression systems include smoke detectors and dry pipe sprinklers.



Security

Location

All Nextgen Co-Location buildings are positioned in areas that meet the special requirements of high quality data centre facilities.

External Security

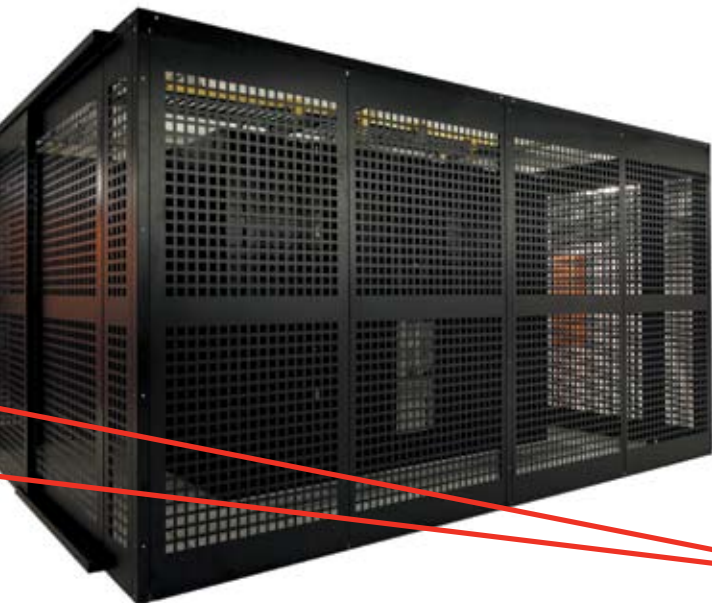
The Co-Location facilities are low rise buildings of nondescript appearance, with secure hardened exterior windows at ground level.

Location Security

The facilities are conveniently located in inner metro areas and are positioned above the designated 100 year flood plain.

Access Security

All entry points are controlled by swipe card and monitored 24/7 by CCTV.



Service Type	Secure Full Rack	Secure Caged Space
Standard Rack	<ul style="list-style-type: none"> w 600mm x d 900mm x h 2200mm (45RU) Locked doors on all racks, with French doors at rear Front and rear rack access 24-port multimedia patch panel, equipped for fibre/Cat6/Cat5/Coax connections 4x fans in top mounted tray 12 x 10 A sockets on A+B rack power rails 	Nextgen or customer provided racks may be used
Rack Power	<ul style="list-style-type: none"> 240V, 50 Hz A standard rack has one 15A A+B power feed per rack 20 Amp or 32Amp circuits are available at additional cost 	Tailored to users requirements
Rack Power Ratings	<ul style="list-style-type: none"> Standard rack power options range from 1Kw to 3Kw Higher power options are site dependent 	Tailored to users requirements
Rack Power Upgrades	Available subject to site survey	Tailored to users requirements
Excess Power Use	Customers who exceed the contracted rack power rating will be billed at the monthly charge relevant to the actual power consumption	Customers who exceed the contracted area power rating will be billed at the monthly charge relevant to the actual power consumption
Automatic Transfer Switch	<ul style="list-style-type: none"> ATS (Automatic Transfer Switches) is offered as a rack option to provide uninterrupted switching to the alternate power plane in the event of a power outage on one plane 6 x 10A sockets are provided with 10A maximum load 	Tailored to users requirements
Temperature	23°C, with range 18°C to 26°C	
Humidity	RH 50% with range 35% to 70%	
Uninterruptible Power	240V, 50 Hz with independent separate A+B planes	
Battery Autonomy	15 minutes minimum	
Emergency Generators	N+1 generators with minimum 24 hours fuel on-site	
Chiller Redundancy	N+1 chiller redundancy is provided	
Cooling Redundancy	N+1 computer room air conditioners are provided for redundancy	
Building Services Management	<ul style="list-style-type: none"> The building services management system monitors 24x7 all critical plant including electrical, environmental and fire detection systems Control is managed at the Nextgen 24x7 Service Management Centre located in Melbourne 	
Security	All entry points are swipe card controlled, alarmed and monitored by CCTV	Lockable mesh cages to suit client requirements are available in addition to external and Co-Lo room security
Client Access and Work Processes	<ul style="list-style-type: none"> Process: All installation and maintenance activities are controlled by a Permit To Work (PTW) process Normal client access is available between 9:00am and 5:00pm weekdays, excluding public holidays subject to PTW arrangements After hours access is available by pre-arrangement or by calling our 24x7 Service Management Centre for emergency access 	
Fire Protection	Smoke detection and dry pipe sprinkler systems are installed above and below raised floors	<ul style="list-style-type: none"> Smoke detection and dry pipe sprinkler systems are installed above and below raised floors Additionally, gas suppression can be provided in private suites or whole floors
Floor Loading	<ul style="list-style-type: none"> The building structure max load is 7.5kPa except in Sydney where the max load is 15kPa Raised floor 12kPa in Sydney, 7.5kPa in other locations The maximum weight of a rack is 500kg 	<ul style="list-style-type: none"> The building structure max load is 15kPa in Sydney and 7.5kPa elsewhere Raised floor 12kPa except in Sydney and 7.5kPa in other locations. Higher loads by arrangement The maximum weight of a rack is 500kg
Cross Connects	<ul style="list-style-type: none"> All cross connects supplied by Nextgen as common infrastructure to the central patch panel. Initial and recurring charges apply Optical fibre, Cat 5(e), Cat 6 and twisted pair telephone cable are available Prices for cross-connects to same customer adjacent racks will be by quote. A once only fee applies 	<ul style="list-style-type: none"> May be managed by customer or Nextgen within Caged area Cross connects from the secure cage to an outside area are managed as for individual racks
Carrier Room and Presence	<ul style="list-style-type: none"> A carrier room is available at each facility for telecommunications interconnection Nextgen provides cross connection infrastructure between the carrier room and the Co-Lo racks Major carriers have a presence in Nextgen facilities Carriers requesting access are required to enter into a carrier access agreement with Nextgen 	
Staging Area	Available for configuration, power up and test prior to installation	
Prohibited Material	Equipment that may cause an adverse impact on the performance of Nextgen plant or customer equipment cannot be installed in racks. This includes: <ul style="list-style-type: none"> lead acid batteries rectifiers connected to UPS flammable liquids or gases Photographic recording equipment cannot be used inside Nextgen facilities 	
Non-Standard Racks and Power	Requests for non standard racks or racks that consume more than 3kW will be accepted or rejected after due consideration at the sole discretion of Nextgen and acceptance of quoted prices	

ABOUT NEXTGEN NETWORKS:

Nextgen Networks is a national Telecommunications carrier that specialises in high performance data services. Our customers are other Corporations, Government, Service Providers and other Carriers. Nextgen products include high capacity data transmission services ranging from corporate links up to complete wavelengths, nationwide multipoint Ethernet networks (VPLS Service), Internet, satellite and carrier grade co-location offerings. Nextgen owns and operates infrastructure that includes the third largest fibre network in Australia, a latest generation national switched Ethernet data network and co-location centres throughout Australia. Nextgen is a wholly owned subsidiary of the Leighton Group.

Check out the benefits of our award winning data solutions

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