

Corporate Internet



Nextgen's 'Corporate Internet' is a high quality Internet service for Australian corporations that run their own mail and security services.

Coverage and Last Mile Access Technologies

Service can be delivered to virtually any location in Australia, with last mile connection via fibre, DSL or microwave.

Optional Service Features

- **Secondary DNS** is offered as a redundancy in case the primary DNS becomes unavailable
- **Shadow service** provides a backup connection for service continuity in the event of failure or interruption in the primary link
- **Static or BGP routing** according to your networking requirements
- **Asymmetric service** with higher Upload than Download speeds is available for content providers

24x7 Technical Help Desk

Nextgen's 24x7 help desk is promptly answered by a qualified member of the technical support team.

IP Addressing Options

Nextgen accommodates a range of corporate IP addressing requirements with options that include:

- IPv4 and IPv6 addressing
- Customer owned IP addressing
- Additional IP addressing provided according to your requirements

Engineered for Reliability

Nextgen's 'Corporate Internet' service is engineered on a high-availability MPLS core with multiple interconnections to global Tier-1 carriers. Services can be delivered to single or multiple corporate sites.

Unlimited Usage

Nextgen's fixed monthly service fee includes unlimited usage, regardless of direction or time of day for the selected link speed.

Speed Range

A wide range of service rates is available from 1Mb/s to 1Gb/s, delivered on a Fast Ethernet or Gigabit Ethernet port, as appropriate.

Premium Performance

Nextgen's Corporate Internet service is managed to a premium class of service and designed to deliver performance characteristics that include:

- Target packet loss of less than 0.3%
- Service availability guarantees with rebates ^[1]
- Fully protected for both domestic and international traffic
- Latency minimised by our use of multiple international and local upstream provider links

Feature / Parameter	Nextgen Internet		
Available Service Rates (Speeds)	1Mb/s, 2Mb/s to 20Mb/s in increments of 2Mb/s, 20Mb/s to 50Mb/s in increments of 5Mb/s, 50 to 300 Mb/s in increments of 10Mb/s, Above 300Mb/s on application		
Data Volume Limits	'All you can eat' - no volume limits (flat price per Mb/s without usage limits)		
Usage & Time Limits	The service includes unlimited usage. No usage level or time bases limitations apply		
Coverage	Australia wide, with last mile access via fibre, DSL or microwave to virtually any location		
Physical Interface	8P8C (RJ-45) Electrical for up to 100Mb/s or SC Optical for 80Mb/s or greater		
Interface Configuration	Typically Auto-Negotiate Enabled		
Local Interface	Ethernet IEEE 802.3		
Rate Measurement	Ethernet Frame		
Frame Size	Default IP-MTU is 1500 Octets Larger frame sizes may be supported depending on access technology		
Internet Protocol	IPv4 and IPv6 unicast is supported (multicast not currently supported)		
IP Address Options		IPv4	IPv6
	Default	/30	/64
	Minimum subnet for routing	/24	/48
	Additional IP addressing can be provided according to your requirements		
IP Routing	Static or BGP4 routing available according to your requirements Nextgen BGP AS# is 38809		
Domain Name (DNS)	Secondary DNS service is offered		
Technical Support	24x7 technical help desk number is provided (1800 099 299)		
Upstream Redundancy	Upstream protection is provided by multiple, geographically diverse, upstream links with redundant upstream connections & border routers running BGP		
Core Protection	MPLS path protection is provided with typically 50ms protection time		
Availability ^[1]	Service availability guarantees rebates		
Traffic Protection ^[2]	Fully protected for domestic & international traffic		
Round Trip Time - Latency ^[3]	Target: 95% better than 200ms for national traffic		
Packet Loss	Target packet loss of less than 0.3% (measured monthly)		
Commissioning Standard	RFC2544 compliant verified connectivity test depending on the access type		
Shadow Service	Available as a backup to a primary service (refer to Internet Shadow Service Data Sheet)		
Asymmetric Service Speeds ^[4]	A service package with higher Upload than Download speeds is available upon request		
Terms Of Use	Nextgen's Corporate Internet product is not available to wholesale customers operating BGP environments in an ISP mode or for resale, assignment or resupply to a third party other than to related corporate entities for their own use		

[1] For availability guarantees based on last mile connectivity refer to the Service Availability Guarantees section in the Nextgen Service Level Agreement found at (http://nextgennetworks.com.au/pdfs/Nextgen_SLA_DataSheet.pdf).

[2] Latency & packet loss may be adversely affected by failures in undersea cable systems.

[3] If latency is measured from the customer's router, add approximately 120-200ms to cover additional customer equipment delays. International-grade RTT's may be observed for some national IPv6 traffic pending full national IPv6 interconnection.

[4] Upload speed is the maximum bandwidth defined in bits per second from customer to Nextgen. Download speed is the maximum bandwidth defined in bits per second from Nextgen to the customer.

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

Phone: 1300 653 351

www.nextgennetworks.com.au

Version 2.2