

We're connected. Are you?

Connect all of your business equipment and clients using our advanced networking services that can extend your reach across the state, or across the country.

We can offer you:

- A range of connectivity options to extend your reach as far as you need it to go
- Connectivity for all your devices including voice, video and data equipment, giving you a seamless network experience
- The ability to tag and identify your most mission-critical data to ensure it gets priority during peak times
- A reliable, scalable and robust environment, using industry-standard interfaces and the backing of one of the state's largest business-grade networks
- A range of choices for connectivity giving you maximum flexibility, no matter where you're located in Queensland.

Product overview

Nexium's IP VPN service is a fully-meshed, layer-3 product that provides "any-to-any" connectivity over geographically diverse locations across Queensland. It uses industry-standard, Multi-Protocol Label Switching (MPLS) that allows a variety of IP-based devices to connect and communicate in a secure and seamless method.

The benefit is that your network is extended to any number of locations, acting as a logical "network cloud" rather than multiple point-to-point locations. It can be straightforward to expand the network and add additional sites without disruption to other locations.

Services offered

Nexium's IP VPN service is application-aware, which allows customers to prioritise and segment data traffic to maximise the performance of critical applications.

Our IP VPN service is available over a range of different access types depending on your location, the required bandwidth, geographic coverage, and budget inclusive of:

- Fibre
- Radio/microwave
- Fixed wireless
- External 3G/4G and DSL
- National Broadband Network (NBN) services, including FTTx and Hybrid-Fibre Coaxial services, fixed wireless and satellite (SkyMuster™) services. Note: a Fair Use Policy applies to NBN Satellite services.

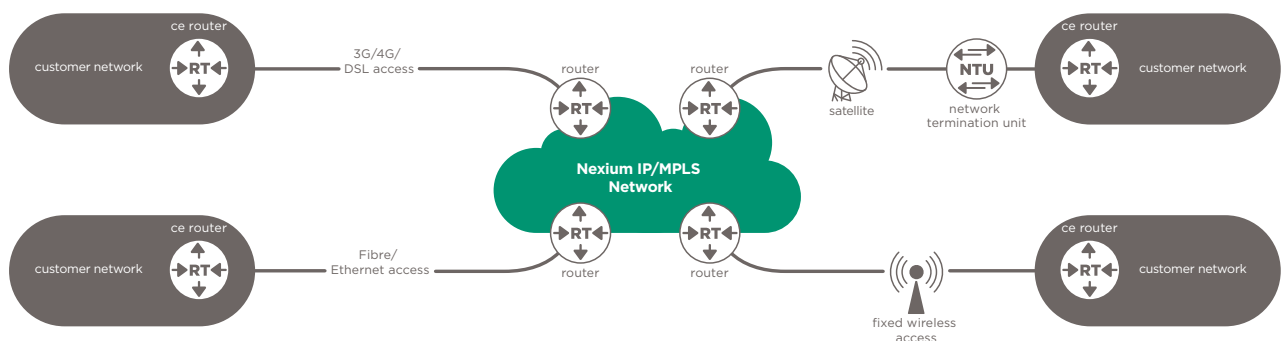
Key benefits

In choosing a Nexium IP VPN service, you are benefiting from our investment in high-speed telecommunication networks across Queensland. Our networks are built to the highest industry standards. This makes it perfectly suited to delivering enterprise-grade network services which can give you:

- 99.95% service availability within and between regional and metro centres - delivering industry standards across Queensland
- Commercial grade SLAs - including four hour turnaround of fault resolution once on site
- On call support - via Nexium's Communications Network Operations Centres (CNOC) based in Rockhampton and Townsville. You will have access to on call support from a highly skilled team, proactively monitoring the network and responding immediately to any issues
- High-speed performance - delivering services 100's of times the speed of ADSL
- Service scalability - giving you the flexibility to change and adapt to business demands, with the minimum amount of impact and Cost.

What does that mean for you?

Quite simply, it means business "peace of mind". As your solutions partner, Nexium understands the demands you face as a regional business, and is committed to helping you meet them head on.



Technical specifications

The below specifications are provided as general technical specifications relating to the IP VPN products. Please contact your Nexium account representative to discuss further.

	Fibre / Microwave / Radio	Fibre / Microwave / Radio	NBN	DSL	Wireless		Satellite
	Ergon / Nexium	External carrier	FTTP / FTIN / wireless / satellite	External carrier	External carrier 3G / 4G	Ergon 3G	External carrier
General							
Max MTU size (bytes)	1526 to 9000		1518	1492	1500	1500	1500
Interface							
Port speeds	100Mb / 1Gb / 10Gb		10Mb / 100Mb				
Reporting							
Availability	Yes		Yes	Yes	Yes	Yes	Yes
Jitter / delay / packet loss	Yes		Yes (managed CE only)	Yes (managed CE only)	Yes (managed CE only)	Yes (managed CE only)	No
Utilisation	Yes		Yes (managed CE only)	Yes (managed CE only)	Yes (managed CE only)	Yes (managed CE only)	Yes
Monthly reporting	Yes		Yes	Yes	Yes	Yes	Yes
Routing Protocol							
BGPv4	Yes		Yes	Yes	Yes	Yes	No
Static	Yes		Yes	Yes	Yes	Yes	Yes
Maximum routes	100		5	5	5	5	5
Routing Tables (full/default)	Full / Default		Default only	Default only	Default only	Default only	Default only
Network Configuration							
QoS available	Yes		No	No	No	No	No
QoS classes	Real Time / Business Critical / Bulk Data / Best Effort		Best effort	Best effort	Best effort	Best effort	Best effort
DiffServe (DSCP)	Yes		No	No	No	No	No
Performance Targets							
Availability	99.95%		99.50%	-	99.50%	99%	
Packet loss	< 0.5%		-	-	-	-	
Delay (RTT)	< 20ms		-	-	-	-	
Jitter	< 10ms		-	-	-	-	
Speeds (download/upload)	512 Kbps to 10 Gbps		512 Kbps / 512 Kbps 1536 Kbps / 512 Kbps	1- 50 Mbps	3.6 Mbps	56 Kbps	

Core network latency

Indicative average route trip time (RTT) below during normal conditions.

	Sydney	Brisbane	Rockhampton	Townsville	Cairns	Toowoomba	Blackwater	Roma	Mt Isa
Sydney	-	14ms	25ms	42ms	42ms	18ms	29ms	25ms	48ms
Brisbane	14ms	-	10ms	28ms	30ms	3ms	14ms	21ms	36ms
Rockhampton	25ms	10ms	-	22ms	20ms	14ms	25ms	32ms	34ms
Townsville	42ms	28ms	22ms	-	9ms	20ms	9ms	16ms	12ms
Cairns	42ms	30ms	20ms	9ms	-	27ms	16ms	35ms	20ms
Toowoomba	18ms	3ms	14ms	20ms	27ms	-	12ms	18ms	32ms
Blackwater	29ms	14ms	25ms	9ms	16ms	12ms	-	8ms	20ms
Roma	25ms	21ms	32ms	16ms	35ms	18ms	8ms	-	25ms
Mt Isa	48ms	36ms	34ms	12ms	20ms	32ms	20ms	25ms	-

About Nexium

If you're looking to connect across Queensland, Nexium Telecommunications, as part of the Energy Queensland group of companies, offers you high capacity fibre optic connectivity where you need it, when you need it. Nexium utilises the reach of the Queensland transmission and distribution state-wide electricity network infrastructure to deliver exceptional telecommunications services and performance.



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