

We're connected. Are you?

High speed E-Line (Ethernet Layer-2) connectivity, across town or across the state.

We can offer you:

- High-speed (10 Mbps to 1 Gbps) connectivity for two or more sites, either across the road or across Queensland
- Simple, standardised connectivity to keep costs to a minimum and performance to a maximum
- A reliable, scalable and robust network experience using industry standard interfaces and architectures, operating on one of the state's largest business grade networks
- Customisable traffic classes, so you can prioritise your most critical traffic.

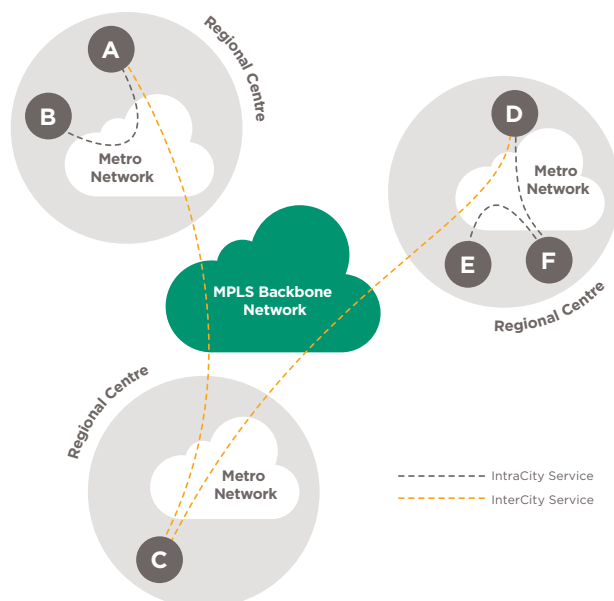
Product overview

Nexium's E-Line service is a point-to-point product which provides for connection requirements of between 1 Mbps and 10,000 Mbps (10 Gbps) using standard ethernet interfaces. E-Line services can meet simple requirements where two sites need to be linked, or multiple services can be configured to provide for connectivity between many sites.

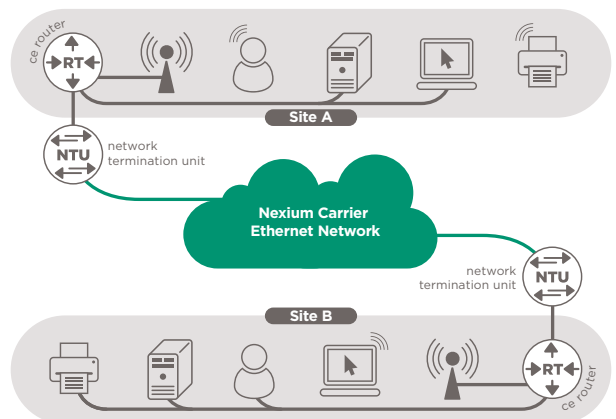
E-Line services can be configured using flexible, high-speed bandwidth profiles to meet service performance and capacity requirements. The service also provides quality of service features to support IP-based transport of voice, video and business critical data communications.

Our E-Line service may be provided as:

- An IntraCity E-Line service - Ethernet Switched Only Service, which does not traverse the MPLS backbone network
- An InterCity E-Line service - Ethernet over MPLS service which traverses the MPLS backbone network.



E-Line service



Key benefits

In choosing a Nexium E-Line 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 turn-around of fault resolution once on site
- On call support - via Nexium's Communications Network Operations Centres (CNOC). Based in Rockhampton and Townsville, you'll have access to on-call support from a highly skilled team, proactively monitoring the network and responding immediately to any issues
- 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 E-Line service. Please contact your Nexium account representative to discuss further.

UNI attribute	Description	Parameter
Physical medium	The ethernet physical media that deliver EVC service to the customer. Note: Nexium will provision services only to the UNI.	Interface options: <ul style="list-style-type: none"> • 100BASE-TX Category 5 UTP • 1000BASE-SX Multimode optical fibre • 1000BASE-LX Single mode or multimode optical fibre • 1000BASE-T Category 5 UTP • 10GBASE-SR Multimode optical fibre • 10GBASE-LR Single mode optical fibre
Interface speed	The speed of the ethernet interface.	100 Mbps, 1000, or 10000 Mbps
Interface port type	The ethernet port type.	IEEE 802.1Q Trunk.
Maximum frame size	The maximum ethernet frame size supported at the UNI.	By default 1526 bytes, including 802.1Q header and excluding header preamble. Larger MTU frames may be agreed with customer at the discretion of Nexium.
Mode	The ethernet mode.	Full duplex
MAC layer	The ethernet MAC standard.	IEEE 802.3-2005
MAC addresses per UNI	The number of customer MAC addresses supported per UNI.	Maximum per 200 per EVC. Additional MAC addresses per EVC may be agreed at the discretion of Nexium.

Quality of service

Nexium supports three traffic classes per service with supported SLA's for CIR compliant traffic. Marked down traffic has no supported SLA's for Throughput, Delay, Packet Loss or Jitter. These classes and the supported service levels are defined in the table below.

Traffic class	Customer DSCP	Customer Class of Service (CoS) identifier	Application guidelines	Supported Service Levels (SLA's)			
				Throughput	Delay	Loss	Jitter
Real time	EF	CoS = 5	Voice and interactive video.	Yes	Yes	Yes	Yes
Business critical	AF21 & AF23	CoS = 2	Transactional and interactive applications with a high business priority.	Yes	Yes	Yes	No
Bulk data	All Else	All else	Large file transfers, e-mail, network backups, database syncs and replication. Default class for all unassigned traffic within CIR.	Yes	Yes	Yes	No
Mark down	N/A	CoS = 0	N/A	No	No	No	No

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.