



## Managed Ethernet

*Reliable, scalable and affordable local Ethernet transport throughout the metro areas of Ireland.*

### Definition

The Metro Ethernet Product is delivered locally via a fibre network, diversely routed (east and west) to the enet co-location facility with capabilities for onward connectivity. High-bandwidth Ethernet transport is available in a variety of bandwidths.

### Service Description

The Metro Ethernet product is delivered to the consumer premises over an Ethernet transport layer and handed over via an Ethernet NTU (Network Termination Unit).

*Available terminations include:*

Bandwidth	Metro
N x 2Mb	Electrical termination, presented in the consumer premises
N x 10 Mb	Electrical termination, presented in the consumer premises
N x 100 Mb	Electrical termination, presented in the consumer premises
GbE	Electrical / optical termination, presented in the consumer premises
*N x GbE Mb	Electrical / optical termination, presented in the consumer premises
10 Gbe	Electrical / optical termination, presented in the consumer premises

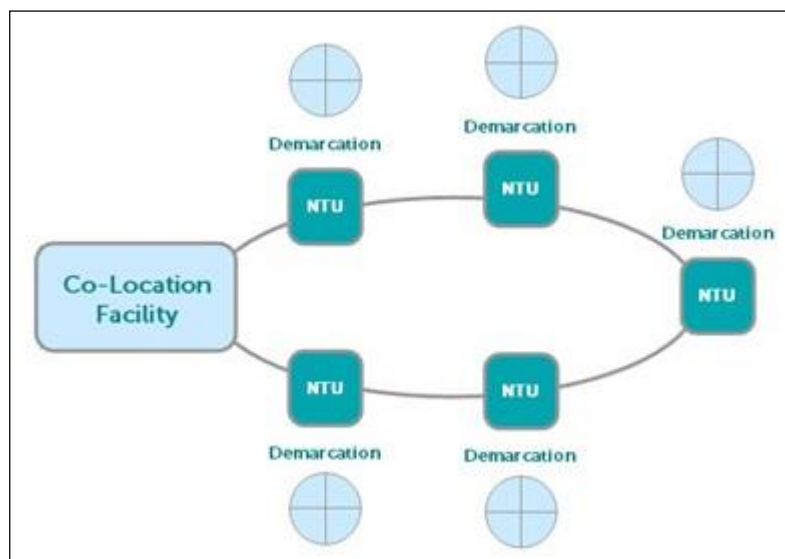
- Default handoff to the Carrier at the Customer premise is on electrical RJ45 10/100/1000Mbps port on the NTU.
- Options for GbE Optical port are also available on request.
- MTU (Maximum Transmission Unit) set at 2000 bytes as standard. Higher jumbo frame sizes available on request.
- 100 MAC address limit per Layer 2 circuit is standard. More MAC addresses available on request.
- Provider Bridge (IEEE 802.1ad PB) is the default configuration for service handoff.
- EPL, EVPL, E-Access-EPL and E-Access-EVPL supported
- Handoffs to Carrier on MAN using Layer 2 aggregated IEEE 802.1ad interconnect
- Metro traffic uses RSTP or G.8032 as the protection mechanism.
- GigE is the default handoff. 10GigE handoff can be supported on request.

## Technical Specification;

	Features
<b>SLA</b>	✓ 99.99% Target Network Availability
<b>Protocols and Standards</b>	✓ IEEE 802.1D MAC bridges — including .1p Priority ✓ IEEE 802.3ad LACP ✓ IEEE 802.1Q VLAN ✓ Support for Jumbo frames
<b>Flexibility</b>	✓ Bandwidth upgrades available with ease
<b>Protection Options</b>	✓ LACP 1+1 ✓ RSTP ✓ PBB-TE ✓ MPLS
<b>Customer Support</b>	✓ 24x7x365 Network Operations Centre support
<b>Power</b>	✓ Default NTU supports single AC power supply. Various options available per request.

## Service Delivery

- Fibre brought from the MAN to the end customer site and terminated on a fibre patch panel.
- Fibre brought from the enet CoLo to interconnect locations on the MAN and lit at minimum GbE.



**Figure 1:** Typical Network Architecture

## enet Responsibilities

enet is responsible for

- Provisioning an Ethernet solution from customer premise to interconnect;
- The operation and maintenance of the Ethernet service;
- Acquiring the public wayleave for civil elements of the service;
- Assigning the VLAN identifiers on the Layer 2 aggregated interconnect corresponding to the desired Ethernet bandwidth.

## Customer Responsibilities

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The customer is responsible for;

- Allocating adequate rack space for installation of fibre patch panel and enet Ethernet NTU;
- Provisioning a clean protected power supply for the NTU (UPS etc);
- Shaping the traffic in line with the purchased traffic profile.

The demarcation point is the port on the front of the enet NTU.

## Glossary

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• NTU	Network Terminating Unit
• UPS	Universal Power Supply
• MTU	Maximum Transmission Unit
• MAC	Media Access Control
• S-VLAN	Service-Virtual Local Area Network
• LCAS	Link Capacity Adjustment Scheme
• EPL	Ethernet Private Line
• EVPL	Ethernet Virtual Private Line

## Further Information

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For solutions to all your wholesale needs, contact your enet Account Manager or contact us at:

Email: [salesupportteam@enet.ie](mailto:salesupportteam@enet.ie)  
Telephone: + 353 (0)61 274000  
Webpage: [www.enet.ie](http://www.enet.ie)