Metro Ethernet Point-to-Point Fibre
Reliable, scalable and affordable local Ethernet service

Definition

The new product offering, Metro Ethernet Point-to-Point Fibre, is delivered as an On-Net Metro solution at all MANs throughout the Enet network. There are a range of bandwidth options to choose from, delivered over the Enet fibre network, providing a secure and reliable service for users. Enet has both Managed Ethernet and Long Line Fibre delivery options.

Service Description

This Ethernet service is delivered to the End-User premises exclusively on an On-Net point-to-point fibre with the option of being terminated on an Enet supplied NTU.

The main features include:

- **Bandwidths:** Symmetrical bandwidths from 10Mb to 10Gb
- **Class of Service:** Circuit based 100% CIR
- **SLA** is a target of 99.9% Network Availability with Time to Repair of Eight hours
- **Solution Types** supported are EPL and EVPL for E-Access (UNI to E-NNI) and E-Line (UNI to UNI))
- Available as a **Metro service** only with local handoff only at Enet MAN Locations
- No migrations from existing products to this new product are permitted

Product types
Managed Ethernet (Metro & National) & **Metro Ethernet Point to Point fibre** (Metro only) services
For these On-Net products, Enet installs their demarcation device (NTU) at the End-User site to provide pro-active end-to-end fault management.

The **Long Line Fibre*** variant provides unmanaged last mile access as no Enet managed NTU is installed. For these on-net services, the demarcation point is the Enet Patch Panel installed at the End-User location. Enet cannot deliver multiple services to this site over the same fibre without an Enet NTU.

Coronavirus **COVID-19**   * This product is low engagement and will help in the fight against COVID-19

This document is for illustrative purposes only, detailed specifications will be agreed at the time of purchase.

Technical Specification;

	Features
Protocols and Standards	✓ IEEE 802.1D MAC bridges — including .1p Priority ✓ IEEE 802.3ad LACP ✓ IEEE 802.1Q VLAN
Flexibility	✓ Bandwidth can be upgraded as required
Customer Support	✓ 24x7x365 Network Operations Centre support
Handoff	✓ To a Carrier on MAN using Layer 2 aggregated IEEE 802.1ad interconnection
MTU	✓ 2000 bytes as standard (higher available on request)
MAC Addresses	✓ Default of 100
Service Handoff	✓ Provider Bridge (IEEE 802.1ad PB) is the default configuration
For services delivered with an Enet NTU, the following details apply	
Presentation	✓ Electrical RJ45 1000Mbps or Optical (LC default, SC)
Interface Type	✓ 1000 Base-T, 1000 Base-LX, 1000 Base-LR. Other media available on request
Demarcation Point	✓ The port facing the End-User network on the Enet NTU
Power	✓ The default NTU uses a single AC power supply. Dual power AC or DC are available on request

Service Delivery

- The fibre is brought from the MAN to the End-User site and terminated on a fibre patch panel
- Where provided, the Enet NTU is installed at the End-User site
- This product is available at Enet MANs and can only be purchased as a new order; no migration permitted. The Carrier must have an E-NNI at the local MAN

The schematic below represents a Managed Ethernet point-to-interconnect solution (E-Access EPL).
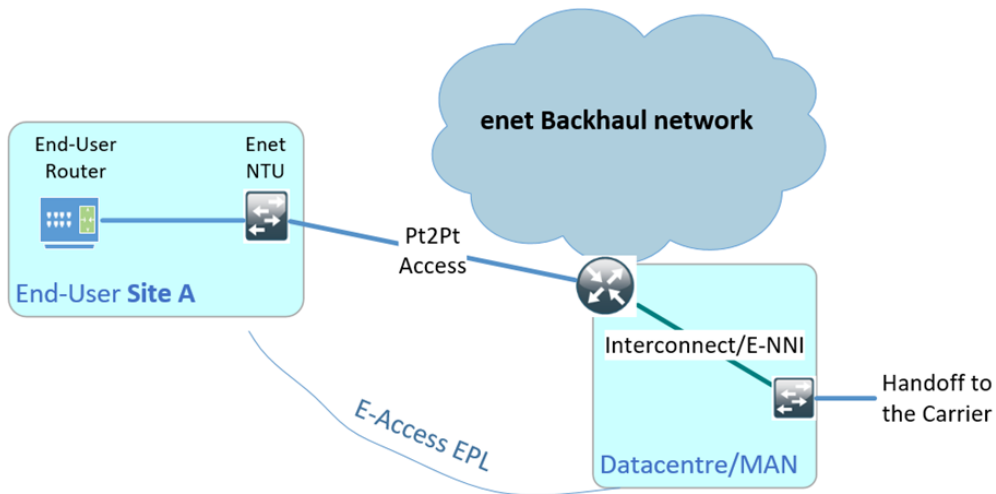

Figure 1: E-Access EPL Architecture

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Enet Responsibilities

Enet is responsible for:
- Provisioning an Ethernet solution from the customer premises to interconnect
- The operation and maintenance of the Ethernet service
- Assigning the VLAN identifiers on the Layer 2 aggregated interconnect corresponding to the desired Ethernet bandwidth

Carrier Responsibilities

The Carrier is responsible for:
- Allocating adequate rack space for installation of the fibre patch panel and the Enet NTU
- Provisioning of a clean protected power supply for the NTU
- Shaping the traffic in line with the purchased traffic profile
- The operation and maintenance of the services purchased by the End-User
- Owning the relationship with the End-User
- Acting as the point-of-contact for any End-User enquiries

Glossary

- NTU   Network Terminating Unit
- MTU   Maximum Transmission Unit
- MAC   Media Access Control
- S-VLAN   Service-Virtual Local Area Network
- EPL   Ethernet Private Line
- EVPL   Ethernet Virtual Private Line

Further Information

Quotations

A quotation for service can be submitted via an email to the quoterequests@Enet.ie

Ordering and Provisioning

Metro Ethernet Point-to-Point fibre orders should be emailed to the Enet Sales Support Team at salessupportteam@enet.ie. The Sales team will provide Service eligibility checks for the service. Note that excess charges may apply.

Further information

Contact your Enet Account Manager or contact us at:
  Telephone: + 353 (0)61 274000
  Webpage: www.enet.ie

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