Ethernet

Deliver new agility and flexibility with on-demand Ethernet services

Overview

Epsilon's on-demand Ethernet gives you instant access to global connectivity, giving your business new scalability and efficiency. On-demand Ethernet removes manual processes that can slow down global deployments and replace it with connectivity that can move as fast as the Cloud.

Our Ethernet services are MEF certified for reliability and flexibility and delivered with granular bandwidth services ranging from 2Mbps up to 100Gbps. Using Infiny by Epsilon platform, you benefit from a self-service model designed to accelerate how you get connected.

We make it simple to procure and manage Ethernet services, giving you a foundation for delivering high-performance applications and services.

Services

SWITCHED ETHERNET

• Switched Ethernet is delivered over a packet based platform built over carrier grade MPLS which delivers feature-rich, flexible services and reliable performance. Supports BW ranging from 2Mbps up to 100Gbps

• EPL, EVPL, Access EPL, Access EVPL

• EoMPLS (Ethernet over MPLS) service

DEDICATED ETHERNET

• Dedicated Ethernet is delivered over SDH that is dedicated to a single customer. Customer can choose the path of the Dedicated Ethernet so that maximum reliability is available. The bandwidth supported is from 2Mbps up to 10Gbps

• EPL

• EoSDH service

Epsilon's Ethernet services are delivered via CloudLX, a module on Infiny by Epsilon on-demand connectivity platform. You can quickly and efficiently connect from your Port to any data centre or Cloud or Internet Exchange using our web-based portal, mobile apps and APIs

• Web-based Ordering with a Self-Service Model

• Network Analytics and Performance Graphing

• Instant Access to Pricing

• Click-to-Connect Provisioning

Features

- On-demand Web-based Ethernet Connectivity

- Order E-LINE Services via Infiny

- Private Virtual connections for direct Cloud access

- Private Virtual connections to Internet Exchanges (IX) for remote peering

- Direct Secured Interconnections with Leading Service Providers

- Granular Bandwidth from 2Mbps up to 100Gbps

- Real-time Performance Reporting on Infiny

- Protected and Unprotected Options

- Robust SLA - up to 99.95% Availability

- MEF 2.0 Certified for all E-Line Port & VLAN- Based Services

- Point-to-Point, Point-to-Multipoint & Multipoint-to-Multipoint Topologies Benefits

"We remove the need to manage multiple relationships globally and give you on-demand Ethernet services that is faster and more efficient. We've changed the game in Ethernet and our partners benefit from robust global connectivity delivered on-demand. It is a simple and powerful approach to global connectivity."

Lee Sze May
Global Product Manager
Epsilon

Benefits

Rapid Scalability
Through our connectivity platform Infiny, you can access world-leading Cloud Service Providers with on-demand Ethernet connectivity

Dedicated and Switched Options
We offer both Switched and Dedicated Ethernet, enabling you to choose the solution that best fits your needs

Guaranteed Quality
We deliver low latency and low jitter connections with guaranteed throughput to support you and your business with greater reliability

Greater Control
Our web-based click-to-connect provisioning makes it simple and easy to procure Ethernet services and scale up or down to meet your needs

Simplified Operations
Through our dedicated web portal, you can monitor and manage performance, reporting, billing and support services

API-Enabled
Our APIs give you the ability to integrate our on-demand Ethernet services into existing platforms and solutions

Why Choose Us?

Global Reach

You benefit from instant access to 600+ Service Providers who are pre-connected to our global network

Ethernet Experts

We are continually innovating in Ethernet and finding new ways to optimise our Ethernet services

A Platform Built for Speed

Our web portal and API-enabled platform means you can connect Ethernet services with a click-of-a-button and rapidly scale to meet changing demand
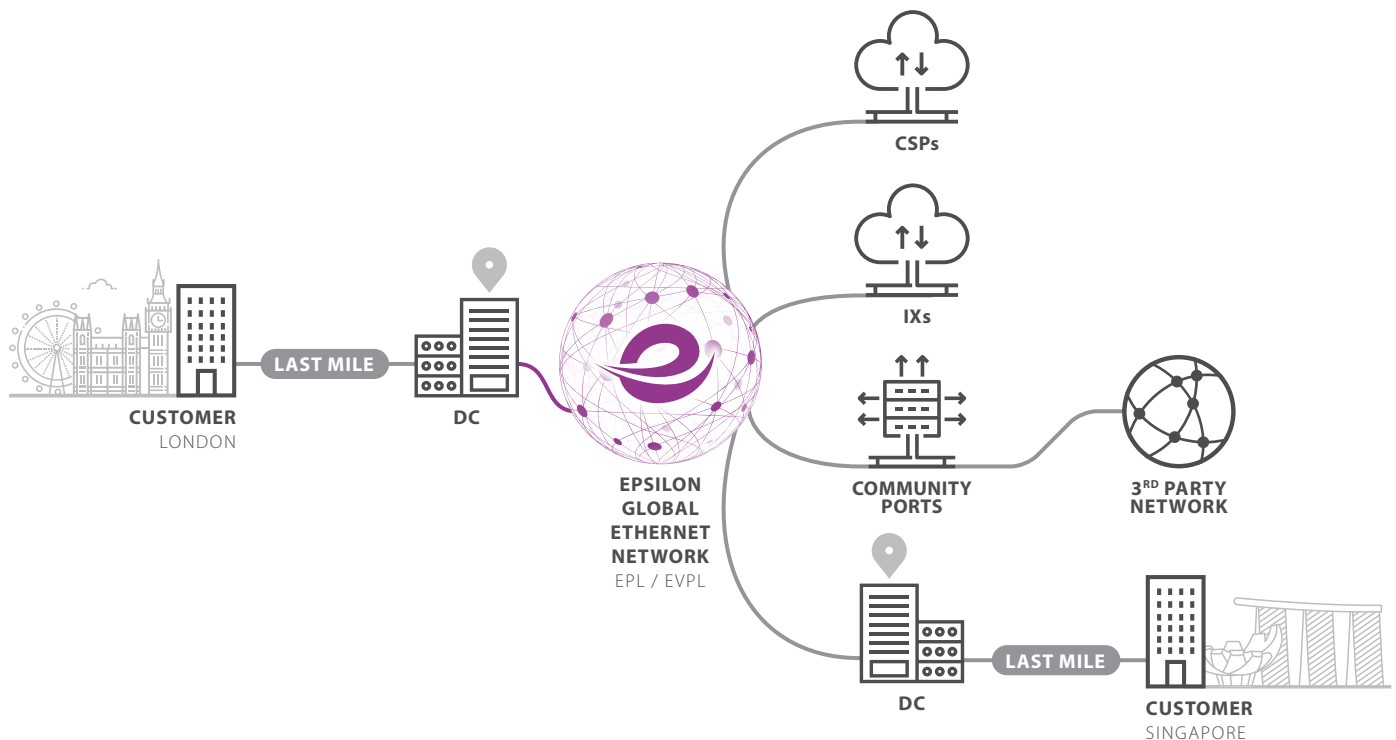
Competitive Pricing

We offer cost-efficient solutions that suit your business needs. Our flat pricing by region or bandwidth guarantees you peace of mind with no hidden costs

Robust Backbone Network

Our backbone delivers secure, resilient and high-speed point-to-point connectivity as both EPL and EVPL configurations

A Securely Environment

With our carrier-class, next-generation optical network, you can be sure that your mission critical data is protected 24/7x365

CSPs

IXs

CUSTOMER
LONDON

LAST MILE

DC

**EPSILON
GLOBAL
ETHERNET
NETWORK**
EPL / EVPL

**COMMUNITY
PORTS**

**3RD PARTY
NETWORK**

DC

LAST MILE

CUSTOMER
SINGAPORE

EPSILON ETHERNET SERVICE
0 < BANDWIDTH < 100G

TECHNICAL SPECIFICATIONS

SERVICE PARAMETER	SWITCHED ETHERNET	DEDICATED ETHERNET
Interface Type	UNI, E-NNI	UNI
Port Rates	**1G**: 1000BaseTX/SX/LX **10G**: 10GBase-SR/LR	**100M**: 100BaseTX **1G**: 1000BaseTX/SX/LX
Bandwidth Profile (Mbps)	2, 4, 6, 8, 10, 20, 30, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000	2, 4, 6, 8, 10, 20, 30, 50, 100, 150, 200, 250, 300, 450, 600, 750, 900, 1000
Topology	Point to point	
MEF VEC Service Types	Ethernet Private Line (EPL), Ethernet Virtual Private Line (EVPL), EVPL, Access EPL, Access EVPL	EPL
EVC Attributes	**EPL**: L2CP tunneling **EVPL**: • 1x VLAN with VLAN preservation • 1x VLAN with VLAN translation • Bundle VLAN list • Bundle VLAN range • Virtual untag **Access EPL**: 1 x UNI to 1 x E-NNI **Access EVPL**: • 1 x VLAN to 1 x ENNI • 1 x VLAN with VLAN preservation • Bundle VLAN list • Bundle VLAN range • Virtual untag	**EPL**: L2CP tunnelling, VLAN transparency
Transport Technology	Packet switched technology (MPLS)	EoSDH (GFP framing of Ethernet on virtually concatenated SDH)
Protection Options	Unprotected, protected (MPLS path protection)	Unprotected, protected (SNCP 1+1)
Maximum Ethernet Frame Size (DA To FCS)	9100 bytes (UNI) 9104 bytes (E-NNI)	
Jumbo Ethernet Frames	Supported as above	
Interface Configuration	Auto-negotiation on, flow control off	
Interface Protection	Yes (LAG - active/active)	
Service Uptime	Maintain the service uptime SLA 1) RTD: https://epsilontel.com/global-network-footprint/network-latency-city/ 2) Packet Loss Ratio: 0.01% 3) Jitter <5ms	
Packet Loss Ratio	< 0.001%	
Service Availability	Globally in all Epsilon PoPs	

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