epsilon
a **kt** company

Ethernet

Deliver new agility and flexibility with on-demand Ethernet services

Overview

Epsilon's on-demand Ethernet provides you with instant access to global connectivity, enhancing the scalability and efficiency of your business. By eliminating manual processes that can hinder global deployments, on-demand Ethernet offers connectivity that can move as fast as the Cloud.

Our Ethernet services are MEF-certified for reliability and flexibility and delivered with granular bandwidth options ranging from 2Mbps up to 100Gbps. Through our Infiny platform, benefit from a self-service model designed to accelerate your connectivity.

We simplify the procurement and management of Ethernet services, giving you a solid foundation for delivering high-performance applications and services.

Services

SWITCHED ETHERNET

- Switched Ethernet is delivered through a packet-based platform built on carrier-grade MPLS, providing feature-rich, flexible services and reliable performance
- Supports bandwidth ranging from 2Mbps up to 100Gbps
- Ethernet Private Line (EPL), Ethernet Virtual Private Line (EVPL), Access EPL, Access EVPL
- Ethernet over MPLS (EoMPLS) service

DEDICATED ETHERNET

- Dedicated Ethernet is delivered over an SDH network that is exclusively dedicated to a single customer. The customer can choose the path of the Dedicated Ethernet service, ensuring maximum reliability is achieved

CE 2.0 MEF CERTIFIED

INFINY BY EPSILON

Epsilon's Ethernet services are delivered via Infiny, our on-demand interconnectivity platform. With our web-based portal, mobile apps and APIs, easily and swiftly connect from your port to any data centre, cloud service provider, or Internet Exchange.

- Web-based ordering with a self-service model
- Network and performance analytics
- Instant access to pricing
- Click-to-connect provisioning

- Supports bandwidth ranging from 2Mbps up to 1Gbps
- Ethernet Private Line (EPL)
- Ethernet over Synchronous Digital Hierarchy (EoSDH) service

Features

- On-demand, web-based Ethernet connectivity
- Order E-LINE services through 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 options from 2Mbps up to 100Gbps
- Real-time performance reporting on Infiny
- Protected and unprotected options available
- Robust SLA guaranteeing up to 99.95% availability
- MEF 2.0 certified for all E-Line Port & VLAN-based services
- Benefits of point-to-point, point-to-multipoint, and multipoint-to-multipoint topologies

"We've revolutionised the Ethernet landscape, offering our partners with a simple and powerful approach to interconnectivity. Experience robust and on-demand global connectivity without the hassle of managing multiple relationships for faster and more efficient Ethernet services."

Emma Wang
Global Product Manager
Epsilon

Benefits

Rapid Scalability
Instantly access world-leading Cloud Service Providers through on-demand Ethernet connectivity on our Infiny platform

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

Guaranteed Quality
Enjoy low latency and low jitter connections with guaranteed throughput for greater reliability

Greater Control
Simplify the procurement of Ethernet services and scale up or down according to your evolving needs with our click-to-connect provisioning

Simplified Operations
Effortlessly monitor and manage performance, reporting, billing, and support services through our dedicated web portal

API-enabled
Seamlessly integrate our on-demand Ethernet services into your existing platforms and solutions with our APIs

Why Choose Us?

Unparalleled Global Reach
Enjoy instant access to over 600 Cloud, IX, Network, and Technology partners across our global network

Ethernet Experts
We are continually innovating and optimising our Ethernet services to deliver the best solutions

Built for Speed
Our web portal and API-enabled platform enable you to connect Ethernet services with a simple click and scale rapidly to meet changing demands
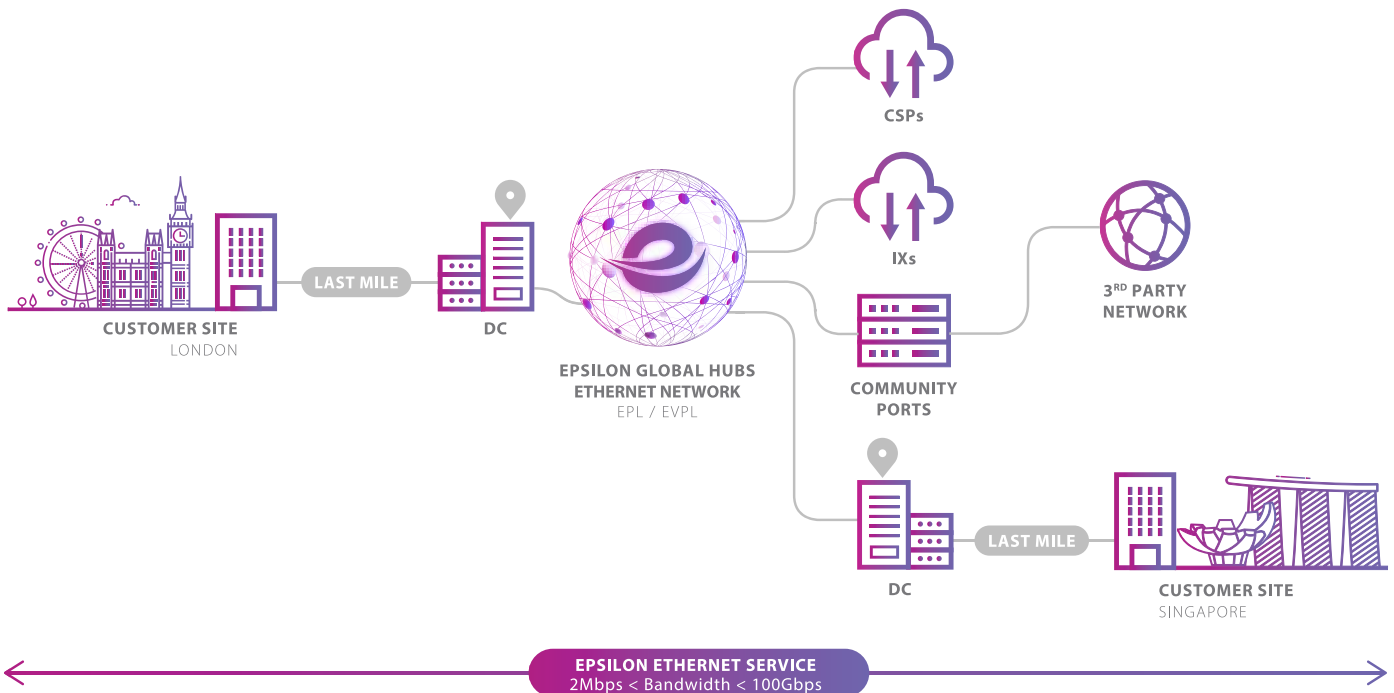
Competitive Pricing
We offer cost-efficient solutions tailored to your business needs. Our flat pricing, categorised by region or bandwidth, guarantees you peace of mind with no hidden costs

Robust Network Backbone
Ensure secure, resilient and high-speed point-to- point connectivity with Ethernet Private Line (EPL) or Ethernet Virtual Private Line (EVPL) configurations

A Securely Environment
With our carrier-class, next-generation optical network, rest assured that your mission-critical data is protected 24x7x365

CSPs

IXs

CUSTOMER SITE
LONDON

LAST MILE

DC

EPSILON GLOBAL HUBS
ETHERNET NETWORK
EPL / EVPL

COMMUNITY PORTS

3RD PARTY NETWORK

DC

LAST MILE

CUSTOMER SITE
SINGAPORE

EPSILON ETHERNET SERVICE
2Mbps < Bandwidth < 100Gbps

TECHNICAL SPECIFICATIONS

SERVICE PARAMETER	SWITCHED ETHERNET	DEDICATED ETHERNET
Interface Type	UNI, E-NNI	UNI
Port Rates	**1G**: 1000BaseTX/SX/LX **10G**: 10GBase-SR/LR **100G**: 100GBase- LR4	**100M**: 100BaseTX **1G**: 1000BaseTX/SX/LX
Bandwidth Profile	From 2Mbps to 100Gbps	From 2Mbps to 1Gbps
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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