

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 deliver enterprise-grade reliability and flexibility 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
- Supports bandwidth ranging from 2Mbps up to 1Gbps
- Ethernet Private Line (EPL)
- Ethernet over Synchronous Digital Hierarchy (EoSDH) service



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

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
- Enterprise-grade Ethernet services supporting all E-Line Port and VLAN-based services
- Benefits of point-to-point, point-to-multipoint, and multipoint-to-multipoint topologies

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

“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

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

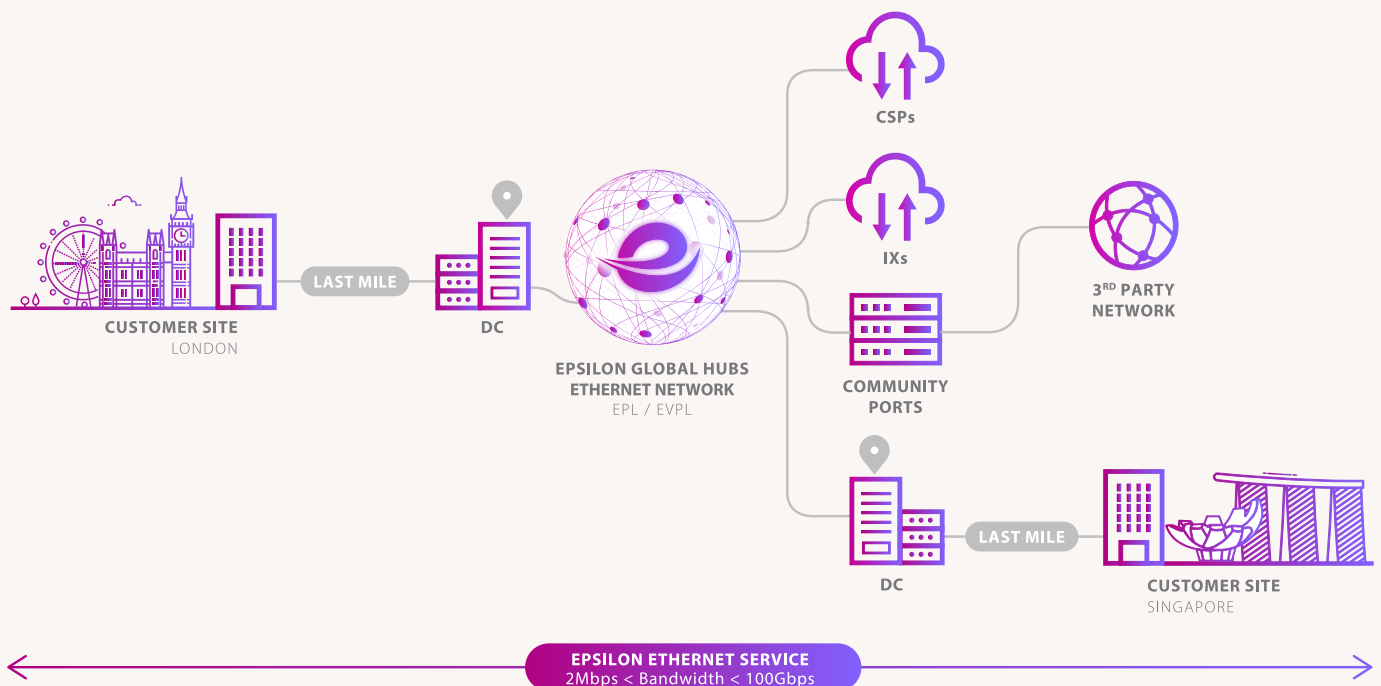
We offer cost-efficient solutions tailored to your business needs. Our flat pricing, categorised by region or bandwidth, guarantees you peace of mind with no hidden costs

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



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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