

# SecureNet Ethernet

Switching gears for seamless connectivity, customized solutions and maximum speed

Developed as a fair access, open and ubiquitous connectivity network for organizations, the Ethernet has long been the favorite of enterprises. From the onset, low cost, ease of connectivity, fair allocation of bandwidth and automatic resource discovery have driven its evolution. The simplicity of its protocols, close relation to IP and adaptability to new IP-based technologies have ensured its almost universal deployment.

HKNet SecureNet Ethernet is a carrier-class Ethernet that leverages highly advanced Provider Backbone Bridging - Traffic Engineering (PBB-TE) technology. It accelerates Ethernet to the next level with optimized quality, higher level of security, fault isolation, Quality of Service (QoS) and Service Level Agreements (SLAs).

## Reinventing the Ethernet

PBB-TE is fast emerging as a key answer to resolving the backhaul infrastructure challenges that today's telecommunications and enterprises face, while offering the same benefits that enterprises enjoyed with Ethernet.

Besides natively supporting Ethernet services, PBB-TE aims to become the network transport of choice for all types of information. Currently being standardized by the Institute of Electrical and Electronics Engineers (IEEE), the 'Carrier Ethernet' (CE) promises to provide the resiliency, scalability and operational efficiency that enterprises require of their carrier-class transport networks.

With SecureNet Ethernet, these benefits can now be yours.

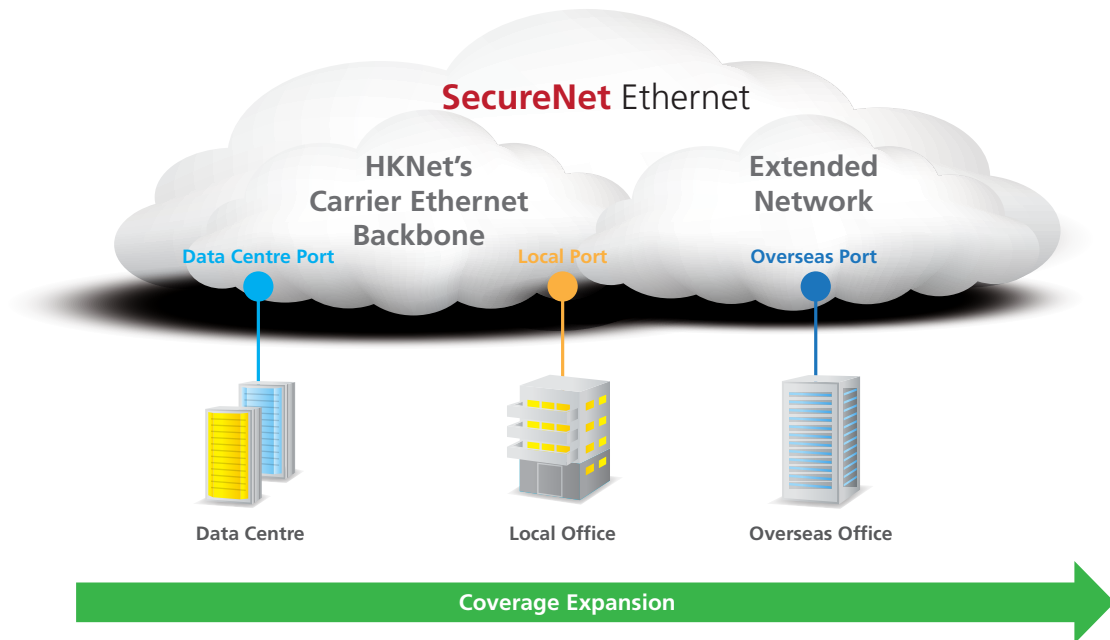
## Understanding PBB-TE

PBB-TE offers a new open, standardized platform for Layer 2 connectivity services, with standards being developed by the international industry consortium Metro Ethernet Forum (MEF).

Point-to-point and multipoint-to-multipoint connectivity as well as scalability far exceed traditional Ethernet solutions. Meanwhile centralized network management, instead of manual configuration of each device, simplifies administration, making it more efficient.

Another advantage is cost. Switch ports cost far less than router ports, while better trouble shooting features for operations, administration and maintenance (OAM) make fault isolation less costly and more efficient.

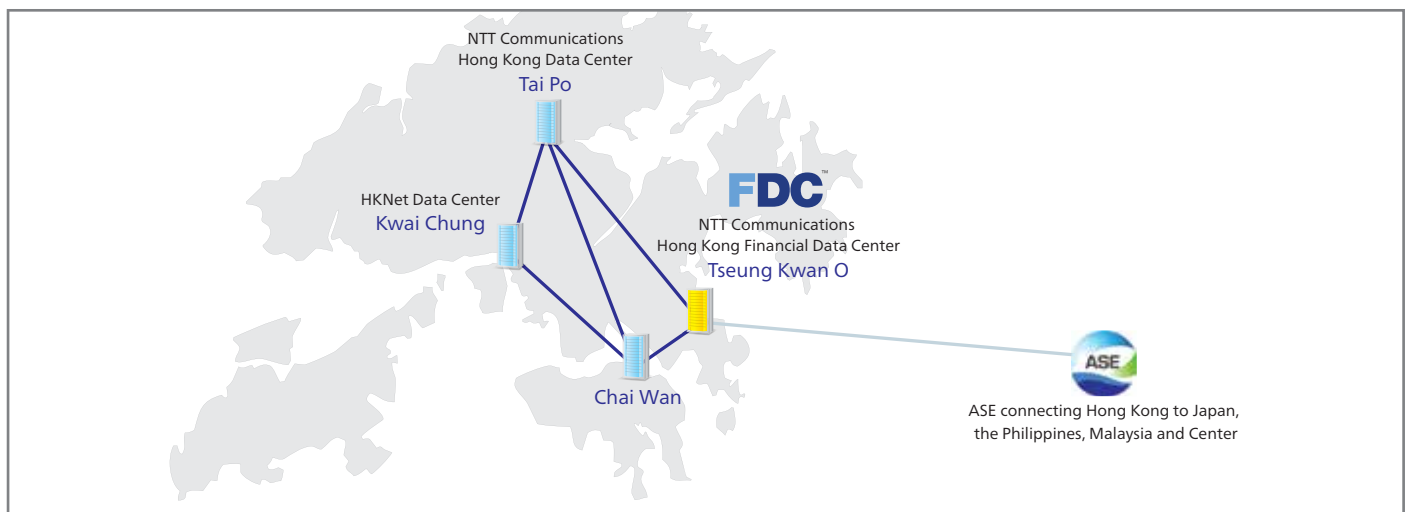
## Overview of SecureNet Ethernet



- Being based on industry-leading PBB-TE technology eliminates concerns of proprietary standards or incompatibilities.
- HKNet's Carrier Ethernet Backbone complies with MEF CE 2.0 standard that governs PBB-TE's evolution #.
- Industry-leading latency of less than 1.2 milliseconds round-trip delay (RTD) within any Point of Presence (PoP) in Hong Kong and a flexible bandwidth range from 1Mbps to 10Gbps address today's network demands.
- Support for point-to-point to full-mesh network topologies offers flexibility and scalability that exceeds traditional Ethernet solutions.
- Simplicity of Ethernet with VLAN and Layer-2 control protocol transparency eliminates the complexity of routing.
- 24 x 7 x 365 network monitoring offers a peace of mind for network administrators.

# Extended network is dependent on the technology of the Network-to-network Interface (NNI) partners and may not comply with MEF CE 2.0.

## SecureNet Ethernet PoP in Hong Kong



Asia Submarine-cable Express (ASE) cable landing station and NTT Communications' global network node co-located at NTT Communications Hong Kong Financial Data Center (FDC™), a Tier IV ready data centre launched in 2013.

## Benefits

### ▪ Seamless Connectivity

SecureNet Ethernet can be integrated with other SecureNet services across different layers of the Open Systems Interconnection (OSI) model to empower any-to-any connectivity.

### ▪ Customized Solutions

We understand that your needs are unique. SecureNet Ethernet is designed to be a highly customizable, one-stop solution that offers you greater flexibility in terms of bandwidth, SLA, bundled service options, one-stop shop, local billing options, etc.

### ▪ Low Latency

With mission critical processes dependent on the network, performance is vital. SecureNet Ethernet offers industry-leading latency of less than 1.2 milliseconds RTD within any Hong Kong PoP, enabling high performance connectivity.

### ▪ High Scalability

Easily scale from 1Mbps to 10Gbps according to your business needs.

### ▪ Secure PoPs

The major PoPs of SecureNet Ethernet are securely located at data centers of HKNet and NTT Communications.

### ▪ No Carrier Lock-in

With NTT Communications' wide network coverage and strong relationships with local carriers, you do not have to be locked into one carrier.

### ▪ High Quality and Reliability

With strong support, you enjoy high quality and reliable any-to-any connectivity.

### ▪ Robust Security

24 x 7 x 365 Security Operation Center management offers you a peace of mind.

### ▪ No More Management Headaches

Integrated customer portal enables comprehensive fault reporting and performance management, showing the availability of connection, latency figure, packet loss, jitter, throughput, etc.

### ▪ Designed for Business Agility

Inherent support for dynamic bandwidth and protocol transparency caters to changing business needs and eliminates worries of technical hurdles.

### ▪ Wide Coverage

Connect across the region, key data centers and global business centers with NTT Communications' wide network.

## Specifications

### Port Bandwidth \*

- 1Mbps to 10Mbps in 1Mbps increments
- 10Mbps to 100Mbps in 10Mbps increments
- 100Mbps to 1000Mbps in 100Mbps increments
- 1Gbps to 10Gbps in 1Gbps increments

### Interface Presentation \*

- 10/100/1000BASE-T (RJ45)
- 1000BASE-SX (LC or SC)
- 1000BASE-LX (LC or SC)
- 10GBASE-SR (LC or SC)
- 10GBASE-LR (LC or SC)

### Optional Services \*

- Class of Service
- Network Interface Device (NID)
- End-to-end monitoring
- Customer Portal

### Service Coverage

- Hong Kong
- Mainland China
- Taiwan
- India
- Cambodia, Vietnam, Thailand and other major cities in Asia

Network coverage is expanded on an ongoing basis. Please contact our sales representatives for latest information.

\* Subject to location availability

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