INTERNATIONAL ETHERNET PRIVATE LINE
FROM CHINA TELECOM AMERICAS

China Telecom Americas' suite of fully-managed Ethernet-based network services was developed specifically to meet the performance, speed and security demands of both enterprise and carrier customers. Our International Ethernet Private Line (IEPL) is an end-to-end, managed, bandwidth service based on next generation SDH/Sonnet transport service (Multi Service Transport Platform or MSTP).

We offer options for dedicated, point-to-point or point-to-multipoint international connectivity both through China Telecom's own PoPs and through services offered in conjunction with carrier partners around the world. The service uses standard Ethernet interfaces (Ethernet, Fast Ethernet and Giga Ethernet) and offers a high level of flexibility and security for easy LAN extension, WAN connection and high bandwidth or high traffic volume applications. China DirectTM service is available at strict access rates between 2M and 1,000M with 2M bandwidth granularity.

About China Telecom Americas

China Telecom Americas, a wholly-owned US-based subsidiary of China Telecom Corp. Ltd. (NYSE: CHA), is an international telecom provider for data, IP and voice wholesale services to multinational companies, organizations and international carriers requiring China domestic services and international access to China & throughout Asia-Pacific.

With headquarters in Herndon, Virginia and offices in Chicago, Los Angeles, New York, San Jose and subsidiaries in Toronto and São Paulo, China Telecom Americas continues to expand its strength and reach to serve our growing customer base with locally-based, one-stop-shop, turn-key solutions for everything from China domestic and international data circuits to IDC services, network management, equipment management, system integration and more.

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Overview

China Telecom Americas offers a suite of fully-managed Ethernet-based network services that are developed specifically to address the rapidly evolving network performance requirements of both carrier and enterprise customers. Backed by China Telecom's high-performance and wide-coverage transmission network, China Telecom's International Ethernet Private Line (IEPL) service adopts the Ethernet-over-SDH technologies to enable point-to-point or point-to-multipoint communications by providing customers with long-distance/cross-border Ethernet Private Line services with access rates ranging from 2M to 1,000M. In addition, our IEPL services are MEF9 and MEF14-certified based on the network resources of China Telecom and our network of global partners.

Benefits

- **Secure Service:** dedicated, exclusive end-end bandwidth provides physical separation between customers for high security.
- **Guaranteed Bandwidth:** End-to-end, dedicated bandwidth is guaranteed.
- **Flexible Adjustments & Upgrades:** flexible bandwidth adjustments and upgrades (2M to 1,000M) without changing CPE/DCU/DSU.
- **Convenient & Low-cost Access:** No extra slots or cards (ATM or POS) are needed to access the Ethernet port.
- **Self-managed IP Environment:** Ethernet over SDH is fully transparent to the customer IP address and internal route so customers can manage their own internal IP network and routing.
- **Robust & Reliable:** The service is highly reliable with SDH/SoNet protection and therefore is fit for all kinds of bandwidth-intensive applications.
- **Standard Interfaces:** Supports Ethernet, Fast Ethernet and Giga Ethernet and NNI Interface: STM-N (for SDH), Ethernet (for SoNet).

Features

Interface	10/100/1000BaseT
Bandwidth	2M – 1,000M
Encapsulation	RARP, 802.1q
Topology	Point-to-point, Point-to-multipoints
Cost	Highly cost effective
Scalability	Smooth upgrade without additional hardware
Equipment Investment	Low cost and easy to source
OSI Layer	Layer 1 (EoSDH)
Application Suitability	Video, voice, data, storage, synchronization

Point-to-Point and Point-to-Multipoint Options

IEPL service is offered as a point-to-point service or a point-to-multipoint service. The point-to-point service uses the dedicated VC channel to transparently transfer the Ethernet data frames to customers, including customers' VLAN or COS information. The point-to-multipoint service uses the dedicated VC channel to transfer the Ethernet data frames from each location, aggregate them at the convergence node and output them via an Ethernet interface. The branch nodes do not communicate directly with each other. In both instances, each customer is separated by VC channels.

Service Specifications

Long Packet Loss Rate: Indicates the percent of frames lost in the transfer of Ethernet frames between customer equipment within 24 hours in total sent frames. This index is temporarily regulated as 1×10^{-7} according to lab test and domestic MSTP private line service indexes.

Delay: Indicates the time to transfer Ethernet frames between the customer equipment, which is dependent upon the distance and delay of MSTP equipment. The calculation equation of the transmission network meets regulations specified in Number 36 code issued by China's Ministry of Information and Industry Telecommunication Service.

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