

Helping you
establish a firm foothold in China

IPLC / IEPL



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China Telecom IPLC / IEPL Overview

With an international network, China Telecom provides quality and effective global networking solutions through IPLC and IEPL.

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Relying on land cable systems connecting neighboring countries and a variety of submarine cables landing at China, China Telecom ensures network accessibility for global operators by offering high quality, high redundant and fully diverse networking solutions.

Our Strength and Capability

China Telecom's Global Network and Coverage

- In conjunction with 32 other land-based operators, China Telecom provides land cables with direct cross-border access and over 40 international submarine cables that connect to more than 72 different countries and regions. The bandwidth speed of international transmission reaches above 1940G.
- China Telecom has launched data cooperation with 42 operators in 24 countries and regions and provides network service including IPLC, IEPL as well as corresponding value-added services. It serves as a communication information bridge across five continents including Asia, Europe and America.
- China Telecom has over 300 core nodes and 4000G backbone broadband network in all major cities in mainland China. With increasing demand, China Telecom will continue to add new nodes beyond the existing 30 overseas POP covering areas.



European Route Submarine and Overland Cable Transmission

Advantages:

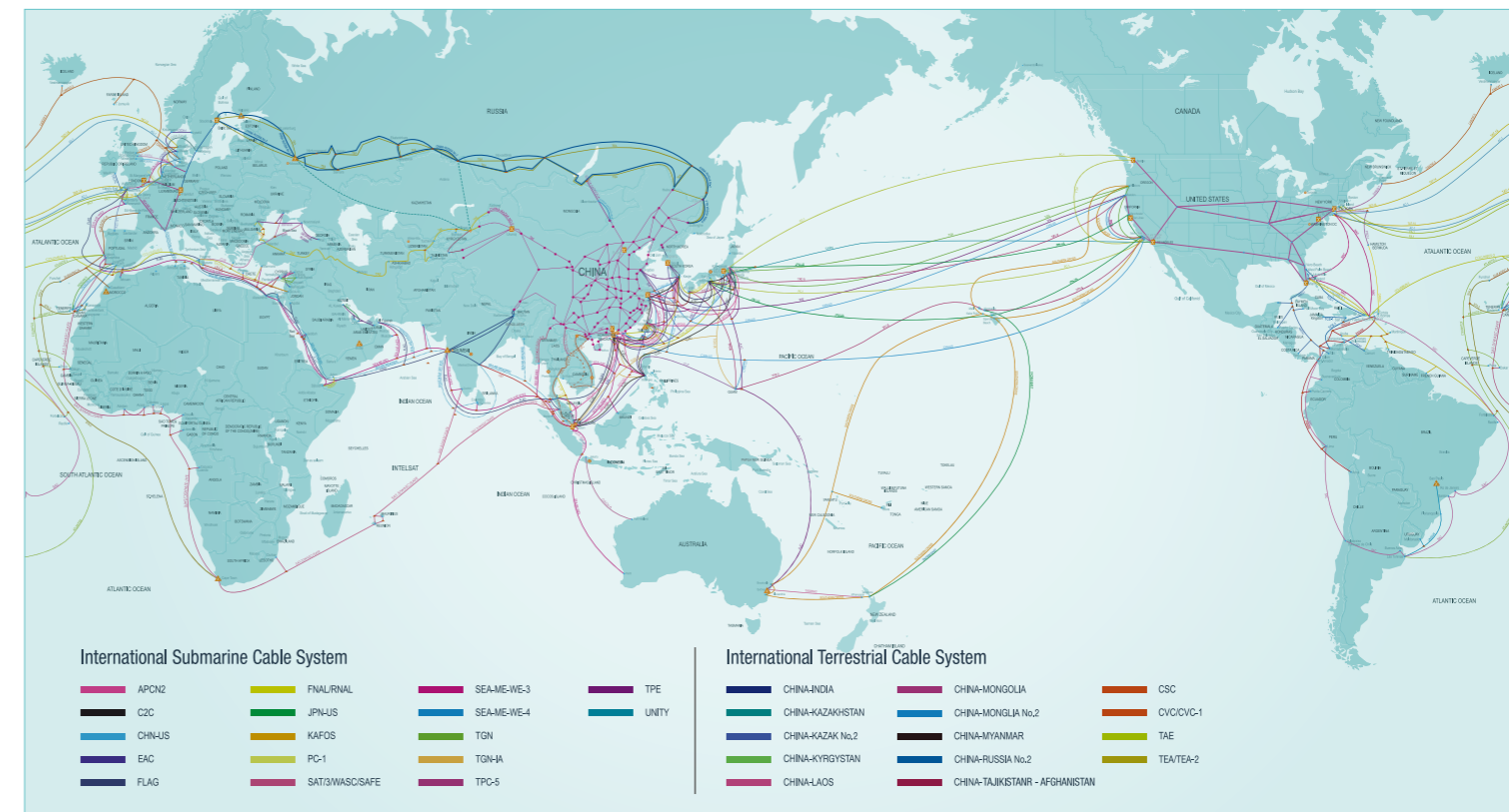
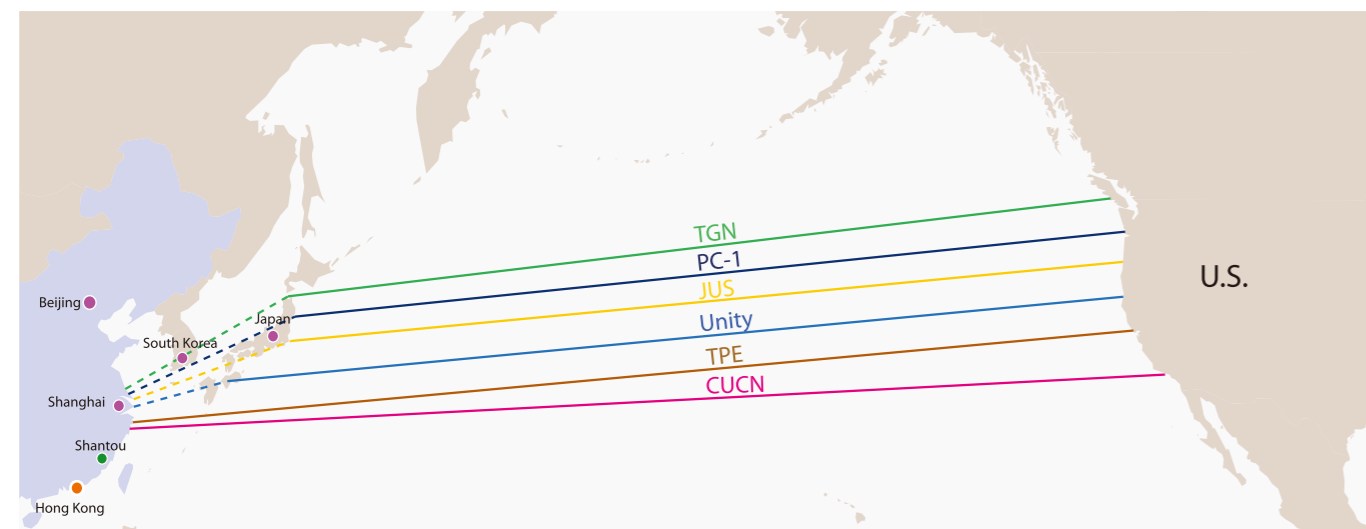
- China Telecom has a total of 6 Asia-Europe connecting channels (TEA, CR2, Transit-Mongolia, Transit-Kazakhstan, SMW3 and SMW4). The land cables go through Russia, Mongolia and Kazakhstan reaching Europe, connecting major cities such as Moscow, Stockholm, Frankfurt, Paris and London. In addition, the submarine cables SMW3 and SMW4 combine to form an encompassing land and sea ring.
- China Telecom's Asia-Europe land and submarine cables can minimize risk, as well as provide stable and secure channels for international clients.



North American Route Submarine Cable Transmission

Advantages:

- China Telecom has established strong foundations and sizeable network facilities in both China and the United States, allowing for a wide range of interconnectivity capabilities.
- China and the United States share a direct connection via 2 Asia-America Submarine Cables: TPE and CUCN. There are also 4 cables that connect the 2 countries via Japan transfer: TGN, PC-1, JUS and UNITY.
- China Telecom has a number of high-capacity Asia-America submarine cables linking China and its neighboring countries and regions to the United States, providing a flexible and diverse range of connectivity services and solutions.



China Telecom's Global Network Capacity

Global Networking: Meeting the Networking and Communications Demands of Clients Worldwide

- Worldwide land-sea cable resources: Rich transmission resources across the Americas, Europe, and Asia-Pacific.
- Constantly expanding PoP distribution: Convenient network access and network monitoring.
- Worldwide service stations: Service stations connecting clients worldwide.
- Global network disaster recovery services: We guarantee an uninterrupted customer network.

Flexible and Adjustable: Anytime, Anywhere with Any Type of Networking Options

- Global planning, design and connection in a specific period of time.
- Global connection to any designated location.
- A variety of access options: IPLC, IEPL and other means; multi-routes combined products are optional.
- Optional bandwidth rate: Access bandwidth ranging from 64Kbps to 10Gbps.

Solutions: Based on our Global Network Applications, We Can Provide Clients with the Most Suitable Solutions

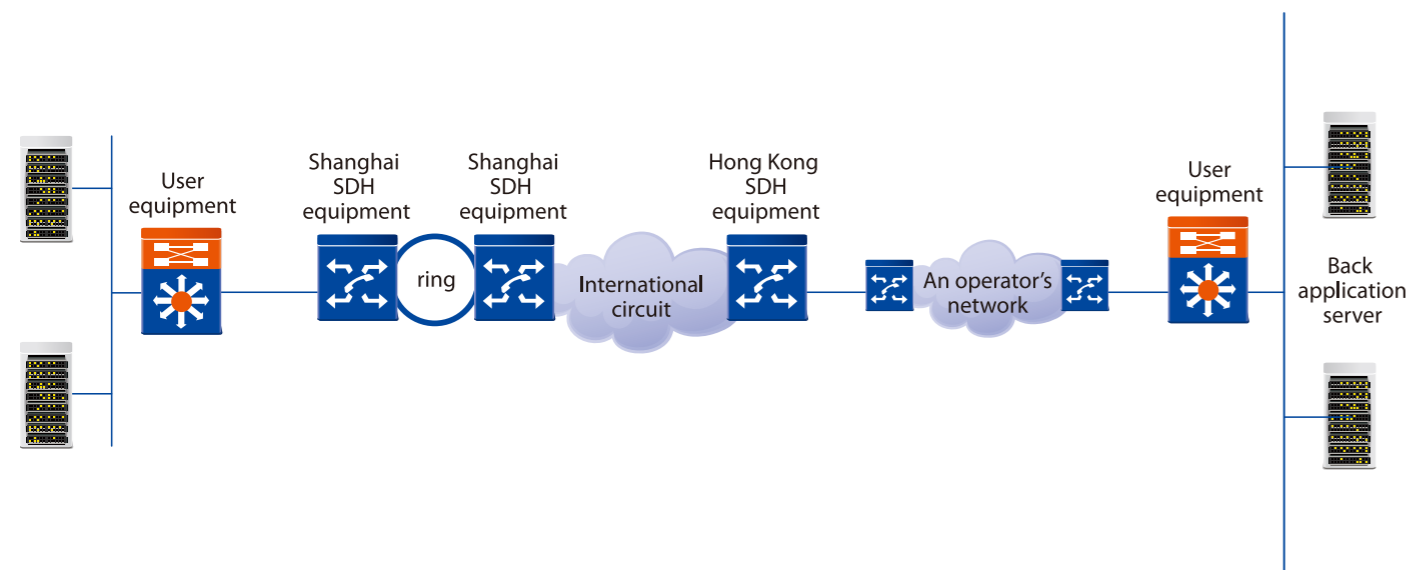
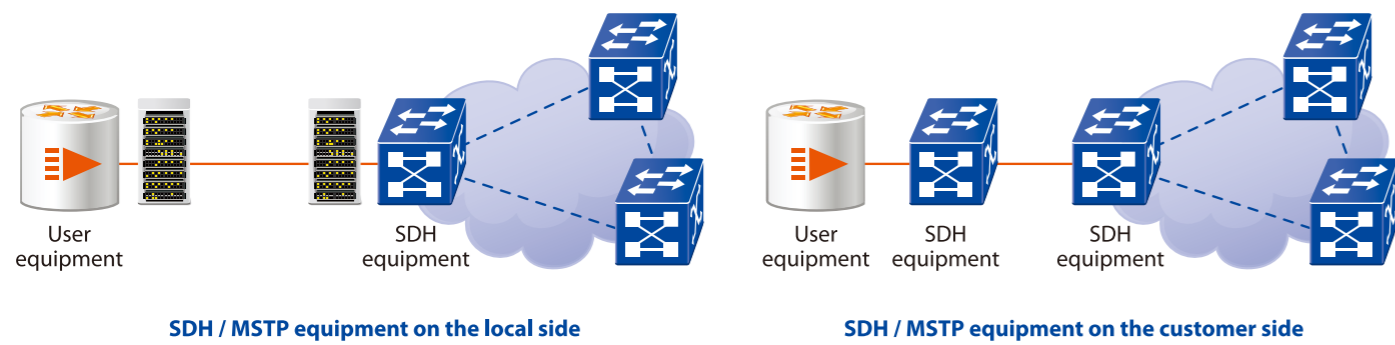
- Global conference calls.
- Global video conference.
- Global voice services.

Offering Powerful and Reliable IPLC and IEPL Services

IPLC

China Telecom's International Private Leased Circuit (IPLC) is an end-to-end international private line service with guaranteed bandwidth, provided for customers based on physical layer transmission resources. China Telecom's worldwide transmission network equips IPLC service with a number of features such as multiple routing options, main and backup flexibility, high reliability, multi-service carrying, and strong management ability.

Our System Diagram



Asia - Pacific Region Submarine Cable Resources

Advantage:

- China Telecom owns a number of submarine cables in the Asia-Pacific region. Key submarine cables include APCN2, TPE, IA, EAC, FNAL, C2C, SMW3, AAG and AJC.
- China Telecom's Asia-Pacific backbone submarine cable connects China, Japan, Korea, Taiwan, Hong Kong, Singapore, Sydney, Perth, as well as other countries and regions.



Transit China Connectivity

Advantages:

- China Telecom's land and submarine cables have a distinct geographic and resource advantage, and they form a crucial transfer hub between Europe and the United States.
- China Telecom has direct connections with 11 countries and regions including Russia, Mongolia, Kazakhstan, Kyrgyzstan, Tajikistan, India, Myanmar, Laos, Vietnam, Macau and Hong Kong.



Specialized Products and Solutions

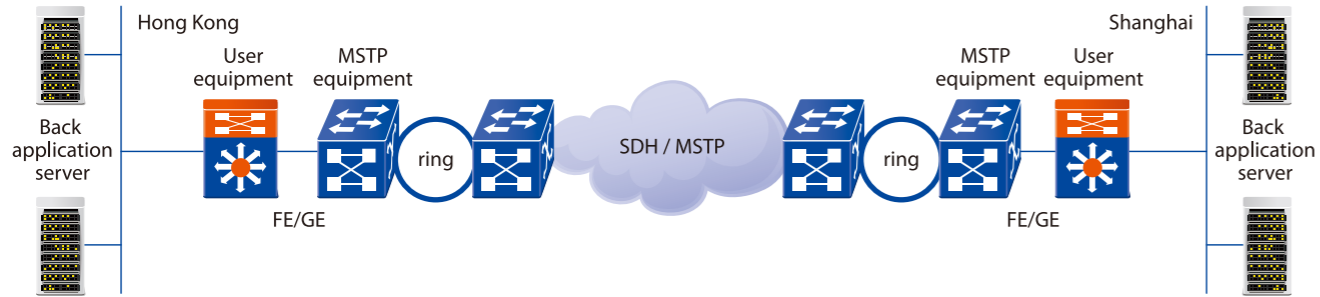
- ✓ China Telecom IPLC provides SDH protection switching function, capable of ensuring end-to-end dedicated international bandwidth with minimal transmission delay and maximum network security, and supports the applications of a variety of real-time critical tasks.
- ✓ Highly secure and reliable: End-to-end physical isolation, customer dedicated bandwidth and protection.
- ✓ Support a variety of services: Data, video, voice and other business transmissions.
- ✓ Speed diversity: Variable communication speed - 2M, 45M, 155M, 622M, 2.5G, 10G.
- ✓ Easy management and maintenance: SDH frame structure is allocated with rich overhead bits (about 5% of the signal), with advantages such as strong network OAM capability, simple fault positioning and disposal, and quick business recovery.
- ✓ Network availability: 99.9%.
- ✓ MTTR (mean time to repair): ≤ 4 hours.



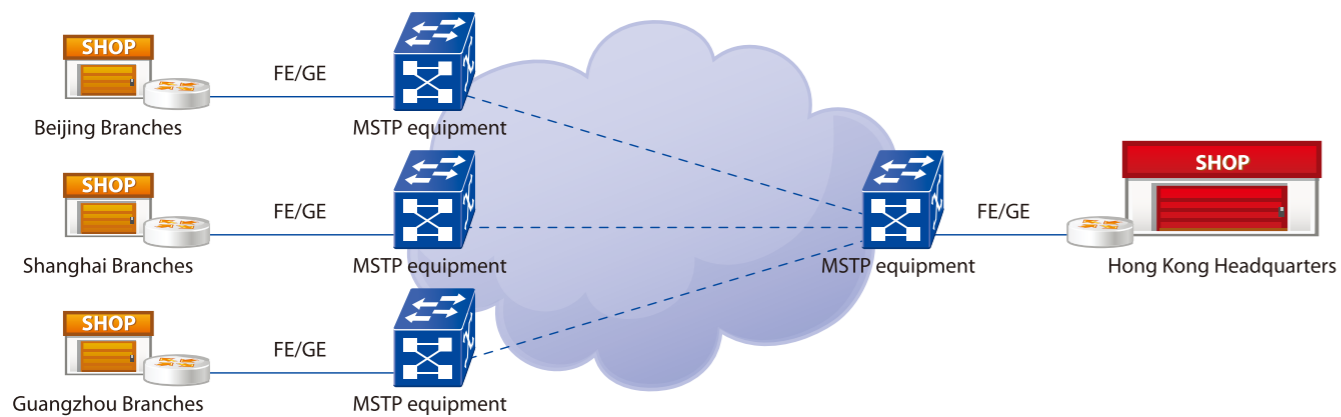
Based on our high performance global transmission network, China Telecom IEPL adopts Ethernet over SDH technology to provide customers with long-distance/ transnational Ethernet Private Line service with access rates between 2M and 10G, and achieves point-to-point or point-to-multipoint communication.

Our System Diagram

Network diagram: a variety of applications



point-to-point communication



point-to-multipoint communication

Specialized Products and Solutions

- ✓ With qualifying standard certifications MEF9 and MEF14, we can provide global customers with international Ethernet Private Line services based on their own and other partners' network resources.



- ✓ High business security: Adopting physical isolation between customers and providing exclusive bandwidth of high security and superior network performance.
- ✓ Flexible bandwidth adjustment: Flexible adjustment of bandwidth from 2M to 1000M according to actual bandwidth requirements.
- ✓ Low cost and easy customer access: Adopting standard and widely applicable Ethernet interface, without new equipment investment, ensuring simple network upgrade and short delivery time.
- ✓ Network availability: 99.9%.
- ✓ MTTR (mean time to repair): ≤ 4 hours.