

Elastic Connect Platform (ECP)

Global Software Defined Interconnection Platform for Multi-cloud Agility

China Telecom’s Elastic Connect Platform (ECP) is an global interconnection service for multi-cloud enterprises looking for secure and reliable cloud-to-cloud, and data center to cloud with dedicated layer 2 or layer 3 connectivity. ECP is a pre-provisioned service using CT’s global SDN-based Data Center Interconnection (DCI) backbone network (AS 36678) along with APIs and integrations to leading cloud service providers (CSPs) inside and outside of Mainland China.

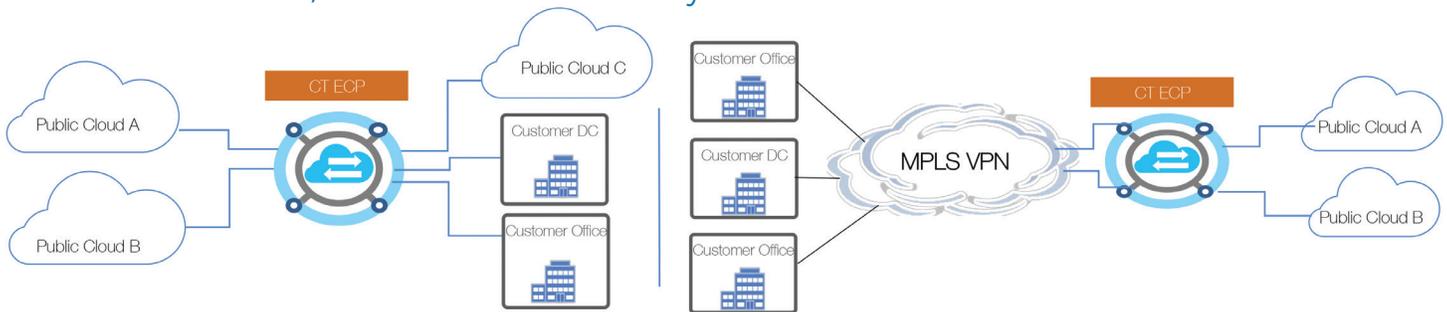
How it Works

Scenario 1: Point-to-Point Cloud Connectivity



For private cloud environments located in a data center which already has an ECP Point-of-Presence (PoP), a cross connect is required between the ECP PoP to the customer’s rack. For on-prem environments a local MSTP is required to connect to the nearest ECP PoP. Customers use management portal to provision the cloud end connection using either a layer-2 or layer-3 ECP interconnect.

Scenario 2: Multisite, Multicloud Connectivity



Customers can easily build an any-to-any connection by connecting to CT’s nearest ECP POP by MSTP, Internet VPN or Cross Connect. For existing CT MPLS VPN customers, a dedicated trunk will be assigned on the MPLS PE router for the traffic between MPLS VPN sites and CSPs nodes using a layer 3 connection in this scenario.

Key Features & Benefits

Rapid Provisioning

Leveraging cloud partner APIs and our SDN customers can quickly turn-up connectivity to cloud services between cloud nodes inside and outside of China.

Highly Secure

End-to-end encryption, dedicated connectivity for data transfer between data centers and private or public clouds offer a secure hybrid cloud environment.

Scalable

Scale bandwidth from 2M to 10G as requirements change, and add VLANs as needed to accommodate new offices or application workloads.

Cost-Effective

Reduce CAPEX without additional hardware investments and lower OPEX with reliable performance, security and streamlined provisioning & pay-as-you-go monthly billing plans.

Self-Service Portal

Simple GUI allows customers to dynamically add CSPs and add or modify interconnect capacity on-demand.

ECP Cloud Partner APIs



Seamless and Secure Multi-Cloud Connectivity

China Telecom Americas' Elastic Connection Platform (ECP) offers network operators a direct or hybrid, end-to-end interconnection platform with immediate advantages in terms of simplicity, performance, security, flexibility, and cost. Through the ECP customer portal, operators can quickly provision secure, high-quality multi-cloud connections from a variety of pre-established Layer 2 and 3 connectivity options to the ECP ecosystem of cloud service providers (CSPs) between availability zones inside and outside of China.

By 2019, 30% of enterprise public cloud connections will be through cloud interconnects or direct WAN connectivity. -Gartner

Using the public internet to connect to cloud applications in China can result in significant interruptions on links in over congested metros. ECP completely avoids the public internet in China and includes automated failover on redundant connections as a part of the base service.

Use Case 1: Cloud-to-Cloud IoT Data Lake

Globally distributed industrial company operating large IoT data lake from thousands of connected devices and sensors in the field needed to securely transmit data to a georedundant availability zone outside China for ML application processing and disaster recovery purposes. It took less than 72 hours to provision the layer 3 ECP interconnect between Beijing and Tokyo.

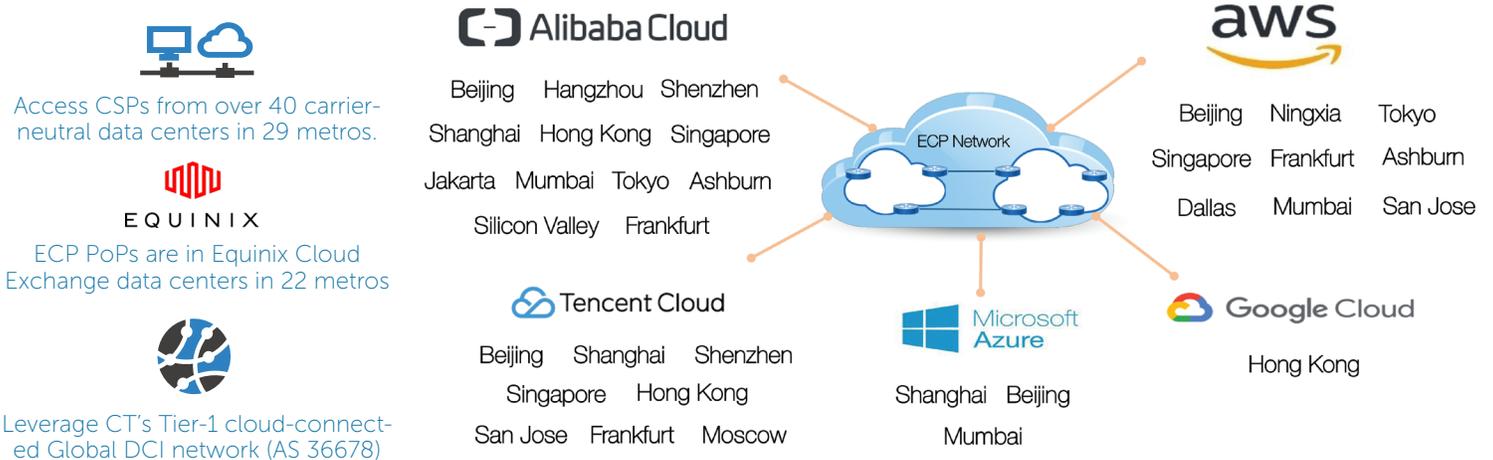
Use Case 2: DC to Cloud Gaming Pipeline

Large gaming company needed a reliable and efficient way of synchronizing development pipelines from their on-prem data center in Shanghai with their CSP environment in Hong Kong. Through a local loop to the ECP on ramp in Shanghai they were able to provision a secure Layer 2 interconnect effectively extending their VLAN broadcast domain to include VMs in HK.

Use Case 3: Existing MPLS to Cloud

MPLS customer wanted more predictable performance among public, private and hybrid cloud applications and wanted to reduce threat vectors from public internet breakouts. Within 5 days a cross-connect at an ECP data center in Singapore provided direct end-to-end connection to public cloud providers and when configured appeared as nodes on their MPLS network.

Dynamic Cloud Connectivity to Empower the Global Enterprise



Leverage CT's Tier-1 cloud-connected Global DCI network (AS 36678)

China Telecom Cloud Connectivity Options

	Internet VPN	MPLS VPN	Ethernet Private Line (EPL)	Elastic Connect Platform (ECP)
Provisioning Time	3-5 days (depending on customer's resource requirements).	20-30 working days MPLS VPN + local loop (cloud-end depends cross connect lead time).	25-35 working days (cloud-end depends on the cross connect lead time).	24 to 48 hours (for cloud-to-cloud links within ECP data center); 3-7 working days (for DC to cloud links within ECP data center); 20-30 working days (for local loop). APIs allow for rapid cloud-end delivery
SLA	None	End-to-end	End-to-end	End-to-end
Billing	Internet billed monthly, cloud-end is pay-as-you-go (based on usage).	Billed monthly, minimum 12 month contract.	Billed monthly, minimum 12 month contract.	Billed monthly, one time set-up fee, minimum 30 day contract.

Questions? Schedule a call with an ECP product manager today at marketing@ctamericas.com