

# Customer-Centric SD-WAN

for Enterprise Agility in China & Beyond



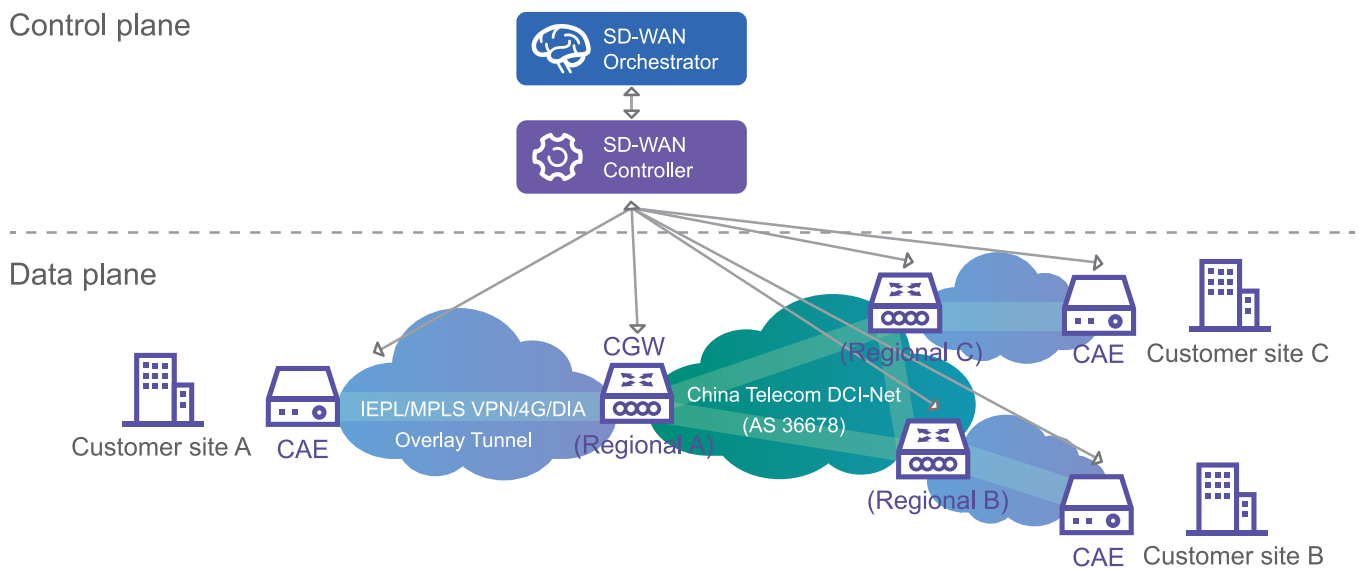
# Gain an Agility Edge in China with SD-WAN

Gartner cites by 2020, a "Cloud Shift" will affect more than \$1 trillion in IT spending as companies move costly legacy networking infrastructure from the data center to the cloud. To help facilitate this shift, Gartner predicts that up to 25% of IT Pros will manage their WAN through software making SD-WAN a \$1.3 billion market by 2020.

Recognizing that network programmability and automation would be a way to simplify multi-cloud connectivity, China Telecom began building a global 26-site, cloud-connected, SD-WAN enabled backbone (AS 36678) offering superior Quality of Experience (QoE) and centralized control regardless of the underlying transport technology or application architecture. As China's leading SD-WAN service provider, we partner with you to reduce IT costs and complexity while increasing performance and security for your network traffic inside and outside of China.

## What's in the Design?

### China Telecom's SD-WAN Topology & Design



### China Telecom's Global SD-WAN & Cloud Exchange Nodes



# Verticals Benefiting from CT's SD-WAN Solution



eCommerce / Retail



Hyperscalers



Multi-site Logistics

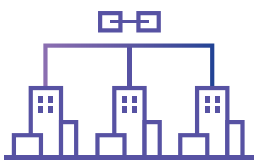


Media / CDN



Industrial IoT

## Four Typical SD-WAN Use-Cases in China



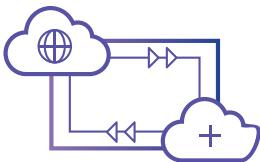
### Hybrid WAN

China's public Internet typically experiences large daily fluctuations in latency due to the sheer volume of users, so completely replacing MPLS with SD-WAN often results in poor application performance and delivery. Most enterprises choose a hybrid WAN model, to easily connect branches and mobile users by steering apps down the most available and best path possible using either CT's MPLS / IP VPN network or authorized IPsec tunnels using Versa or Silver-Peak SD-WAN technologies.



### Dynamic DIY or Managed SD-Branch

Leveraging Silver-Peak devices or x86 whitebox solutions configured with Versa technology and integrated with CT's Netcare network management consul, operators can dynamically provision and self-manage business policies and devices or elect to have China Telecom handle installation and ongoing support of deployments. We consolidate multiple network functions (vCPEs) from routers, wireless APs, firewalls, unified threat management systems, WAN optimization, etc. into a custom SD-Branch solution enabling fast & efficient remote site turn up across China.



### Seamless Direct-to-Cloud Connections

Transform traditional hub-and-spoke architectures to a secure, direct-to-cloud architecture and avoid the delay and added costs associated with backhauling traffic over MPLS to a firewall in the data center. Many China Telecom customers forward traffic to Zscaler™ cloud over IPsec tunnels, and manage access to SaaS and public cloud providers across China Telecom's 26-site public cloud exchange network.



### Intelligent Internet Acceleration

CT's SDN network fabric allows you to turn up or down remote sites and optimize traffic flows across your WAN. Use government authorized IPsec or GRE tunnels to bypass congested links to critical applications hosted in the cloud or boost performance of apps hosted in the data center with WAN optimization technology.

# China Telecom's Global SD-WAN Feature Set

Self-managed, co-managed or fully-managed.



TB Level Backbone



Traffic Management



Hybrid WAN



x86 / vCPE Management



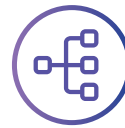
Fully Managed Service



Zero-Touch Provisioning



WAN Optimization



Custom Topologies



Bandwidth on Demand



Public Cloud Exchanges



Internet Breakouts



Monitoring & Analytics

## Contact Us

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