

Cloud-Enabled Distance Learning Solutions for China

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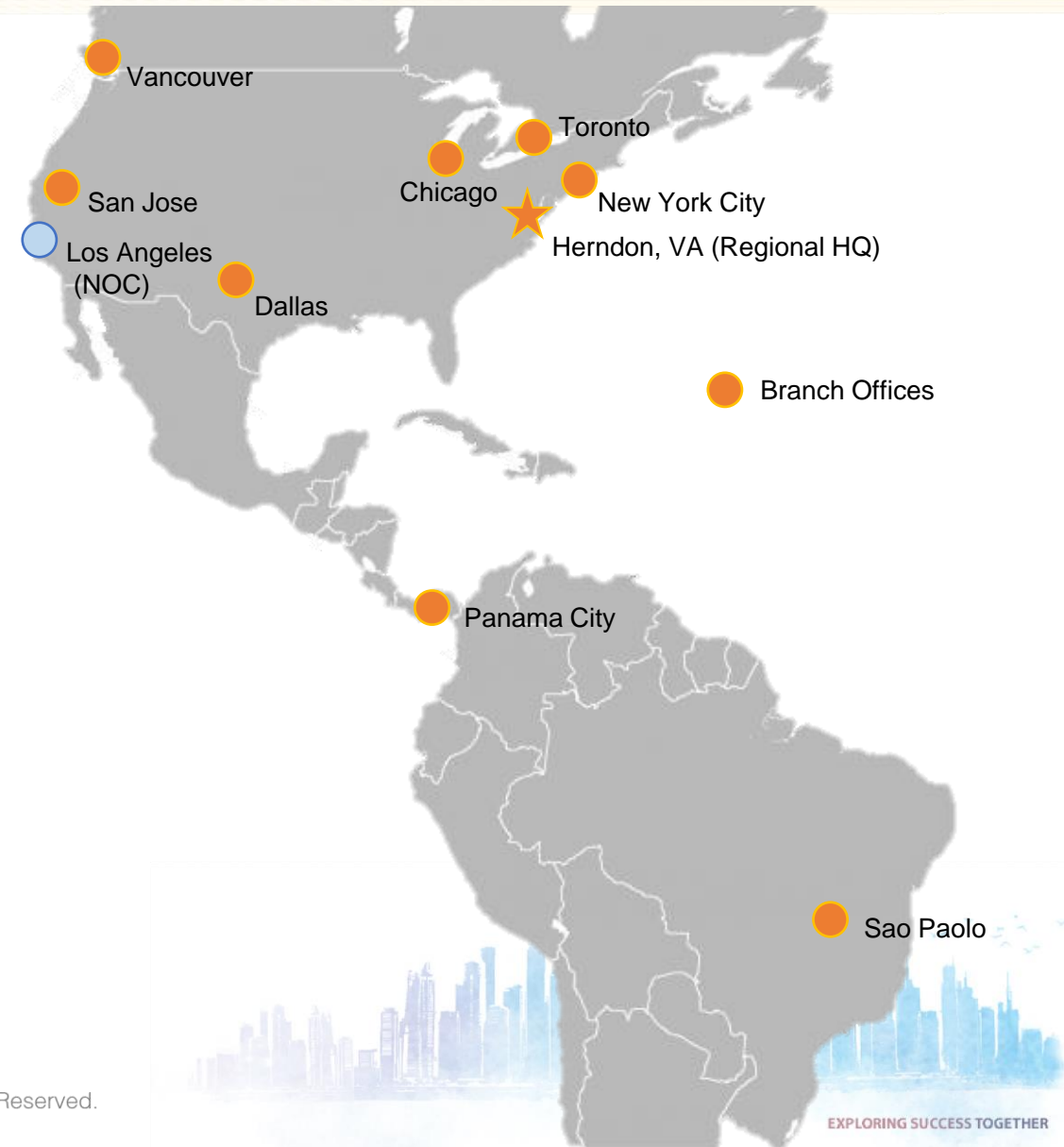




Who is China Telecom (Americas) Corporation (CTA)?

China Telecom (Americas) Corporation (CTA) provides customized, cost-effective and integrated network and communication solutions to its diverse base of customers. As a leading facility-resale carrier with unique access to providers in Asia and the Americas, we offer a wide range of services such as direct internet access, internet transit, data services, data center, ICT services, mobile voice, professional services and industry solutions.

CTA is headquartered in Herndon, Virginia, with offices in Chicago, Dallas, Los Angeles, New York, Panama City, San Jose, Sao Paulo and Toronto. Enterprises throughout the Americas trust CTA's one-stop, turnkey solutions to meet the challenges of today's complex business environment.



- Established in 2001
- Headquartered in Herndon, VA
- 250+ Employees in US, Canada & LATAM
- 7 Regional Sales & Support Offices
- 2 Network Operations Centers in LA & HK
- 22 Points of Presence (PoPs) in North America
- 12 Points of Presence (PoPs) in South America
- 100+ Customers in the Fortune 500
- 100+ Carrier Partnerships
- 21 Channel Master Partnerships

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Distance & Remote Learning Trends for IT

- China's **online education market** is expected to reach \$99.3 billion in 2023, according to Frost & Sullivan as M&A activity in China's online education continues due to COVID-19.
- China's **K-12 education system** is the largest in the world with 230 million students and 12 million teachers.
- There were 492,185 **foreign students** studying at 1,004 universities and academic institutions in China, with 52.44% enrolled in degree programs in 2018, according to [government statistics](#)
- The number of **Chinese students studying abroad** reached 662,100 in 2018, according to [government statistics](#)
- There is increased demand for e-learning due to Covid-19, however between 56 million and 80 million people in China reported lacking either an internet connection or a web-enabled device in 2018, according to [government statistics](#).





Considerations for IT Departments

As a result of e-Learning growth and capacity demand, IT / network teams should take into consideration:

- Chinese education and collaboration app availability & performance
- Network coverage and visibility to manage regional differences in internet availability and latency in China
- Higher amounts of recorded video and audio file sharing for asynchronous classes
- Higher emphasis on network stability during online-exams
- Higher bandwidth demand at peak-times in some metros
- A rapidly growing market for education tablets
- Edge Caching and interconnectivity to Cloud Service Providers inside and outside of China
- Anti-DDoS Services and Remote Learning Network Security Management
- Nationwide service provider troubleshooting and end-user technical support





Distance Learning Solution Highlights

To support distance / remote learning program continuity and collaboration during Covid-19, CTA's customer service teams are working diligently to deliver the following authorized services quickly and in a cost-effective manner for our education industry customers across China and Asia/Pacific.

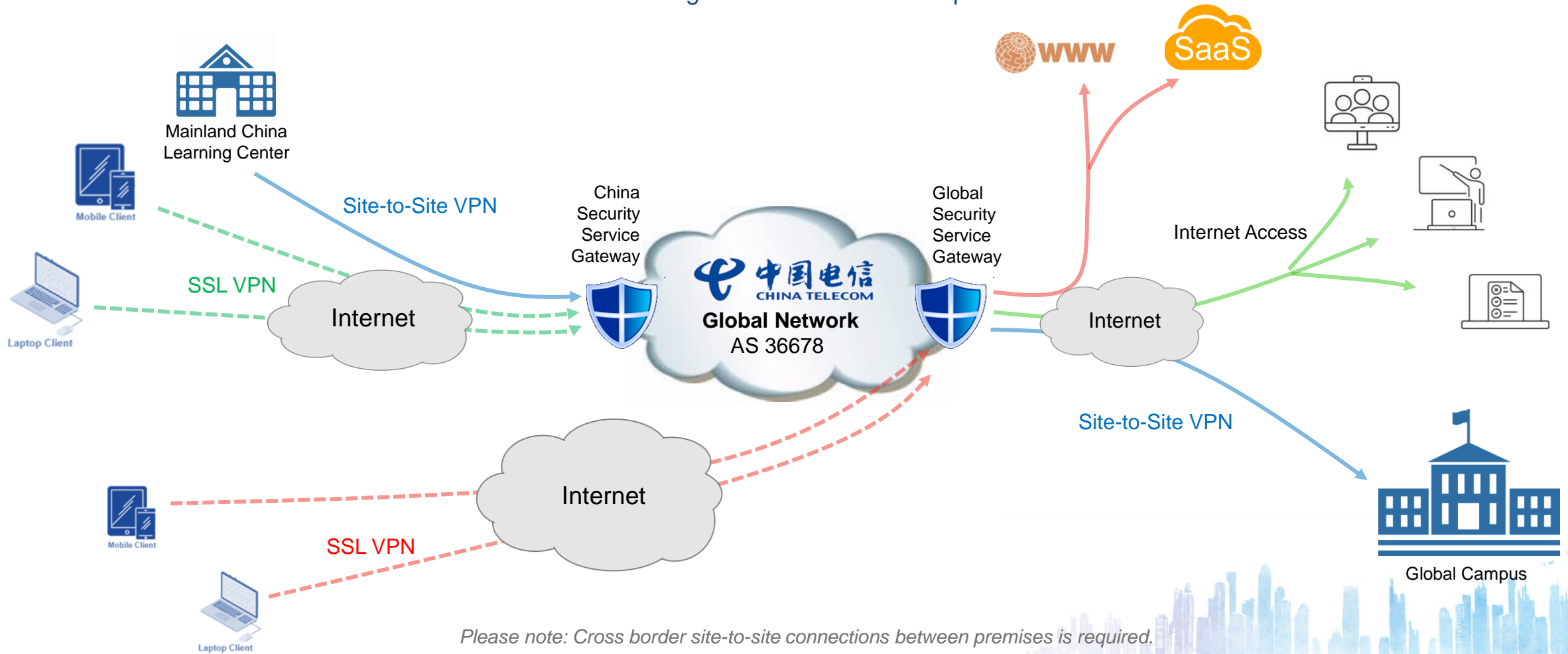
- Cloud Access VPN connectivity to global e-learning / LMS Platforms
- Firewall Access Policy Enforcement
- Site-To-Site VPN to Campus or School Premises
- Full Network Management & Monitoring Portal
- Other Services:
 - Security Profile (URL Filtering, Application Control, AV, etc.)
 - Advanced Threat Prevention Service
 - Forensics Service
 - Anti-Bots Service
 - Anti-Ransomware Service
 - Two-Factor Authentication for Security Enhancement





Solution Topology (All Scenarios)

- ✓ Scenario 1: SSL VPN to Schools e-Learning & Online Exam Platforms
- ✓ Scenario 2: SSL VPN to Public Learning SaaS Platform & Global Websites
- ✓ Scenario 3: Site-to-Site VPN between Mainland Learning Centers & Global Campus

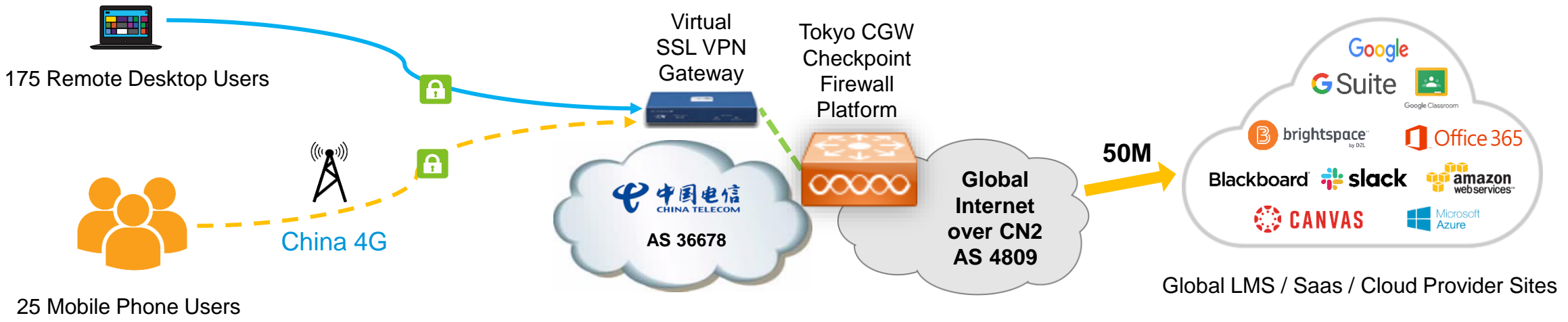


Please note: Cross border site-to-site connections between premises is required.



Solution Sample Scenario

CTA offers customers an authorized cross-border Cloud Access VPN Solution so your students in China can visit global websites and access applications such as Google, O365, Blackboard, AWS, Azure, etc.



Contact Us or Visit:

ctamericas.com/coronavirus-support

To learn more about our offerings to support businesses during COVID-19.



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