

Content Delivery Network (CDN)



Legal Disclaimer




“The information contained in this presentation is provided for informational purposes only. The content of this presentation is proprietary information of China Telecom (Americas) Corporation. All intellectual property rights contained in this document, including but not limited to copyright, trademark, and tradename, are owned or licensed by China Telecom (Americas) Corporation or its affiliates.”

Who is China Telecom (Americas) Corporation?

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, Internet data center, ICT services, mobile voice, professional services and industry solutions.

Discover more at www.ctamericas.com



Enterprises throughout the Americas trust CTA's one-stop, turnkey solutions to meet the challenges of today's complex business environment.

Who is China Telecom (Americas) Corporation?

Established in 2001

250+

Employees in US,
Canada & LATAM

7

Regional Sales &
Support Offices

12

Points of Presence (PoPs)
in South America

2

Network Operations
Centers (NOCs) in LA & HK

22

Points of Presence (PoPs)
in North America

21

Channel Master
Partnerships

100+

Customers in the
Fortune 500

100+

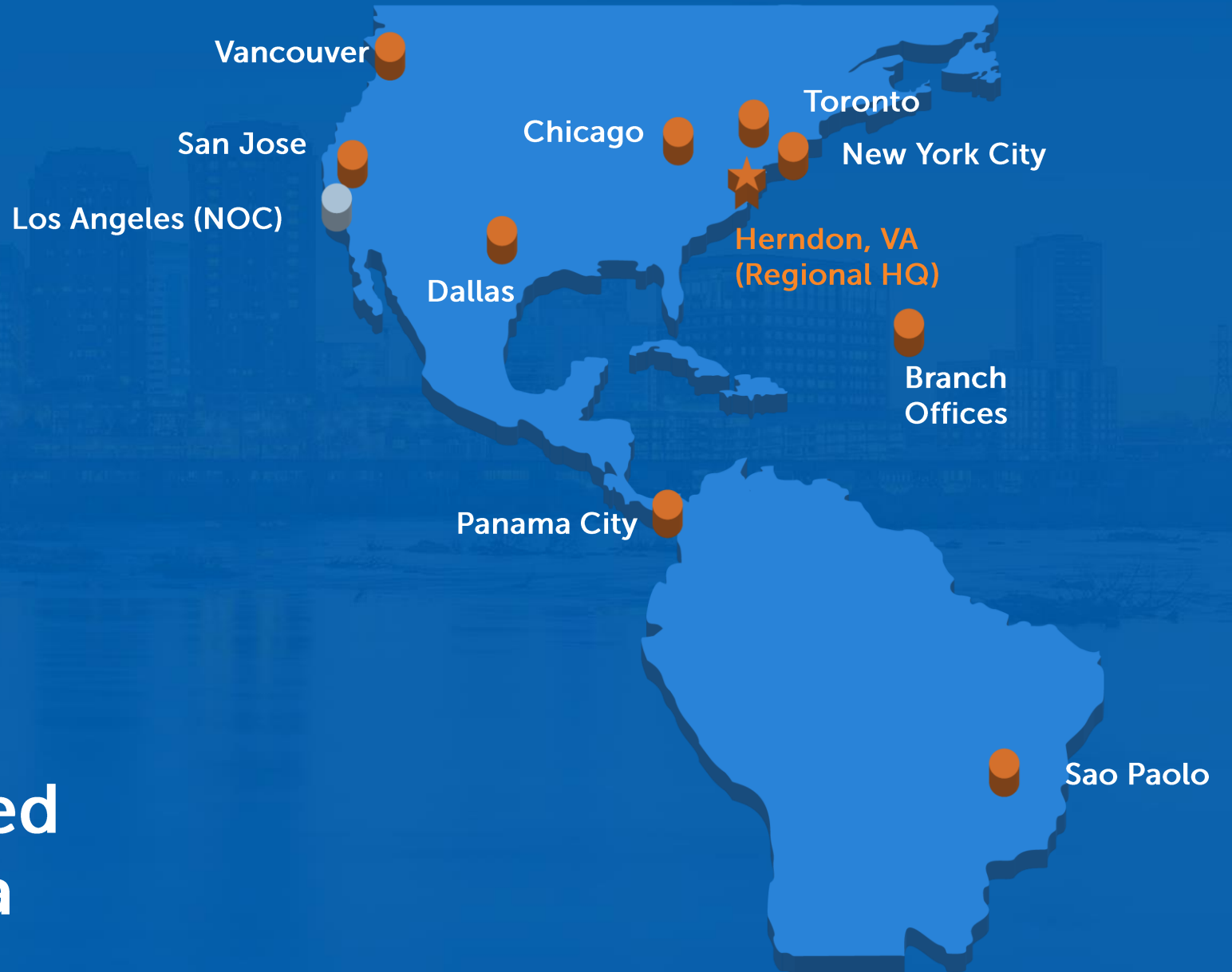
Carrier
Partnerships

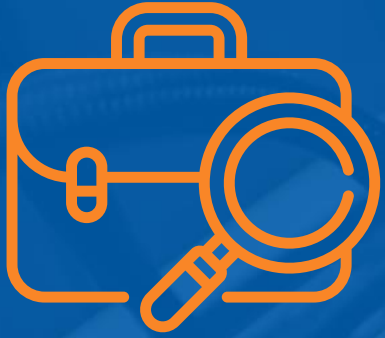




We have offices
across America

CTA is headquartered
in Herndon, Virginia





CDN Product Overview

China Telecom CDN Structure



The management node and more than 1000 cache nodes are **directly connected** to the ChinaNet backbone.



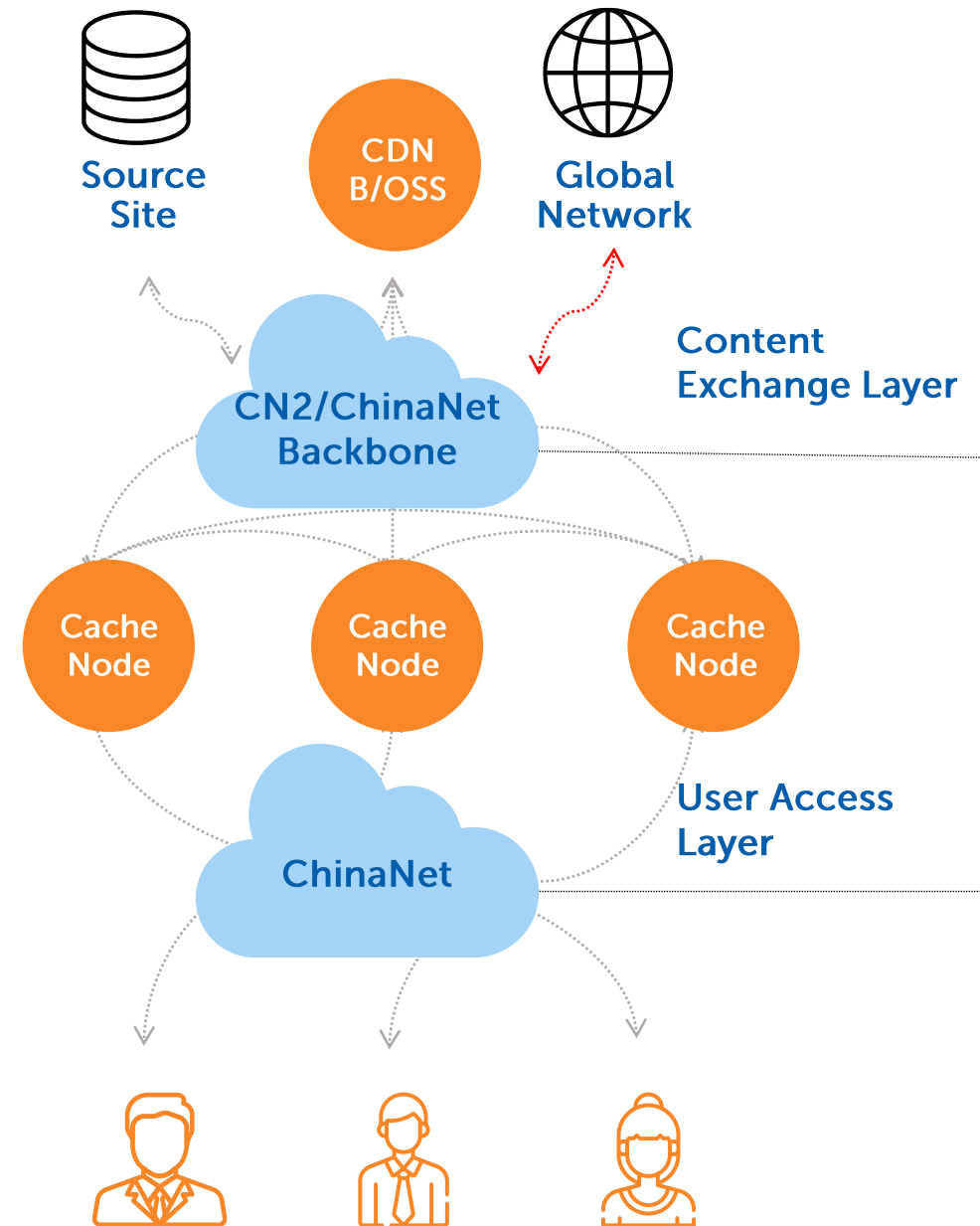
Multi-Tenant Mode CDN BOSS, API customization is supported if needed.



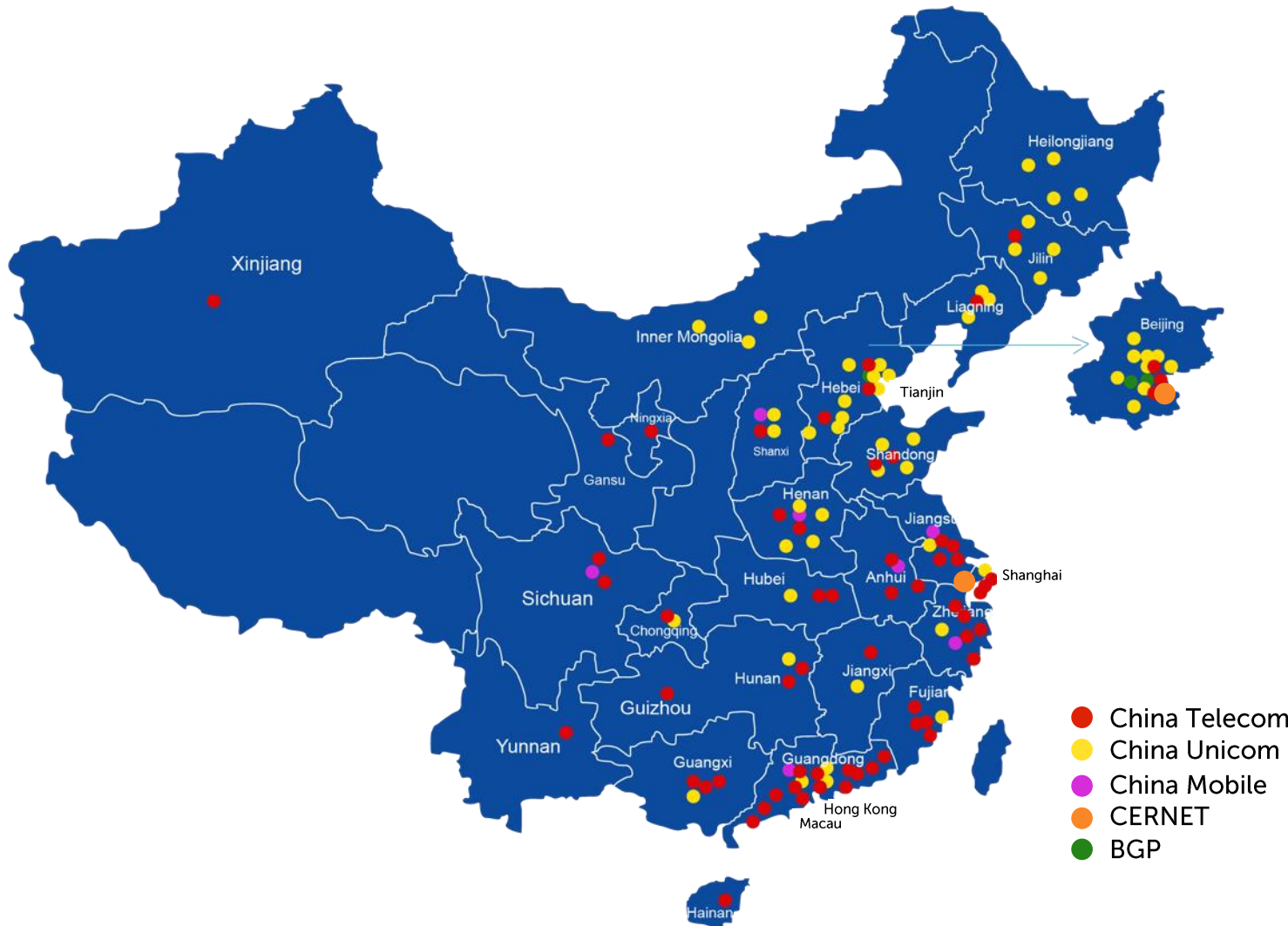
CN2 (World's largest MPLS network) is an **optional high efficiency choice** for the transportation between management node and cache node.



CN2 provides **content transportation** between China and other countries worldwide.



China Telecom CDN Node Map



CDN System Capacity

1000+

cache nodes on China Telecom's network

500+

cache nodes on Global China partner networks

Website Acceleration

Protocol



HTTP or
HTTPS

Static

- Standard files
- Large files
- Small files

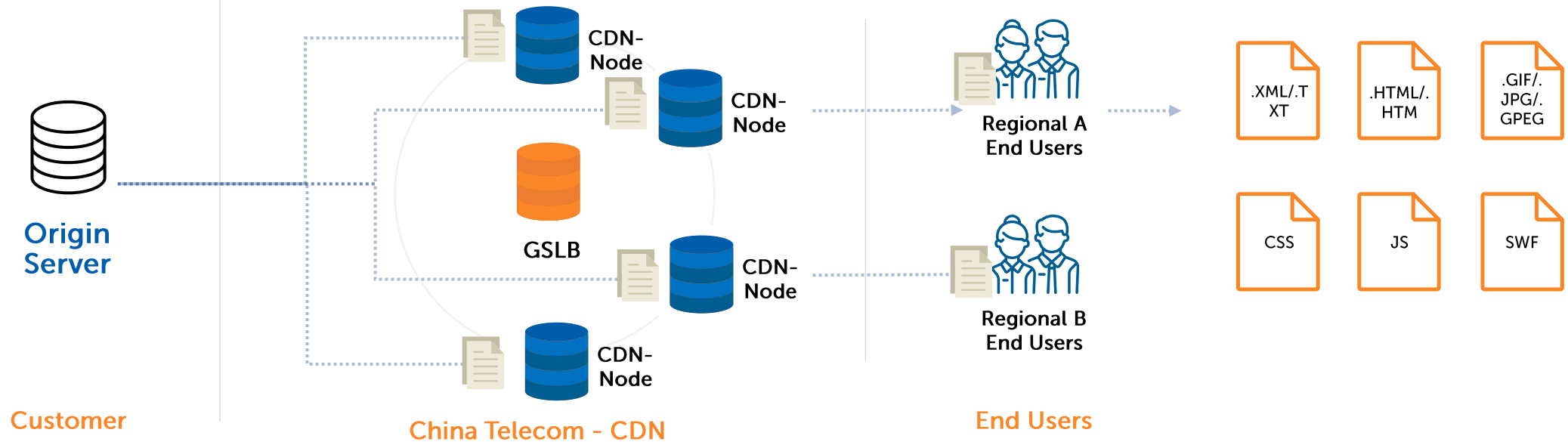
Feature

- Both large and small documents
- Program, Flash and other documents more than 1M
- High concurrent requests, documents less than 20K

Dynamic


Real time contents

- Edge node does not cache dynamic contents; requests go directly to the source



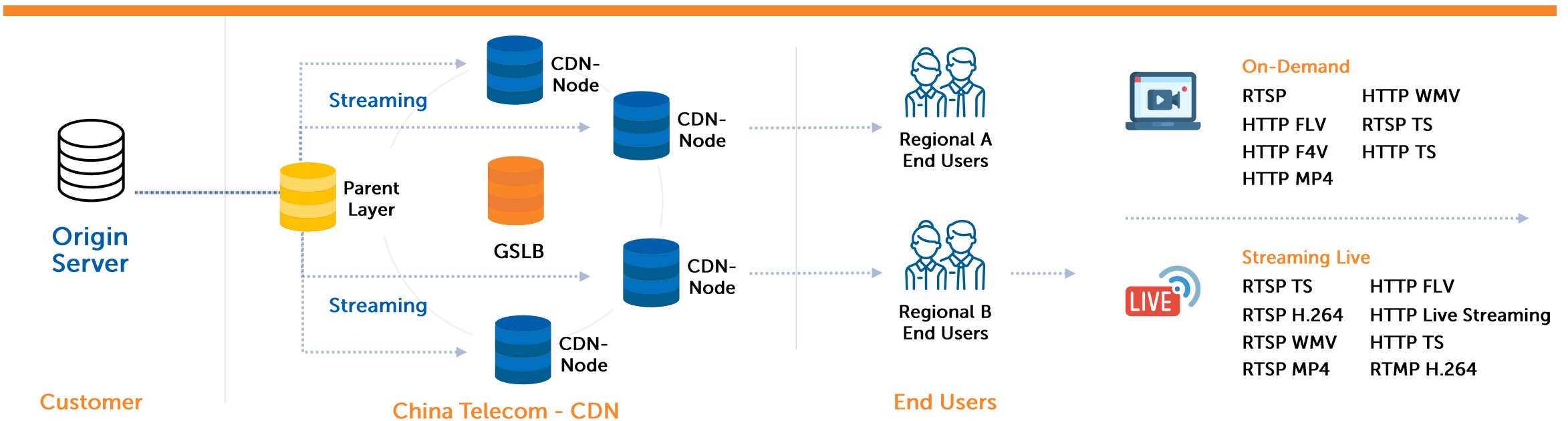
Streaming Acceleration

Protocol



HTTP/MMS/
RTMP/RTSP etc.

On-Demand	Feature
→ Push (Mirror)	→ Suitable for popular contents, which would be priory pushed to the edge nodes
→ Pull (Cache)	→ Suitable for long-tail contents: edge nodes pull them when end users access these contents
→ Live	→ Suitable for real-time contents; Ensure end users have quicker access speed by routing optimization
Live	



Download Acceleration

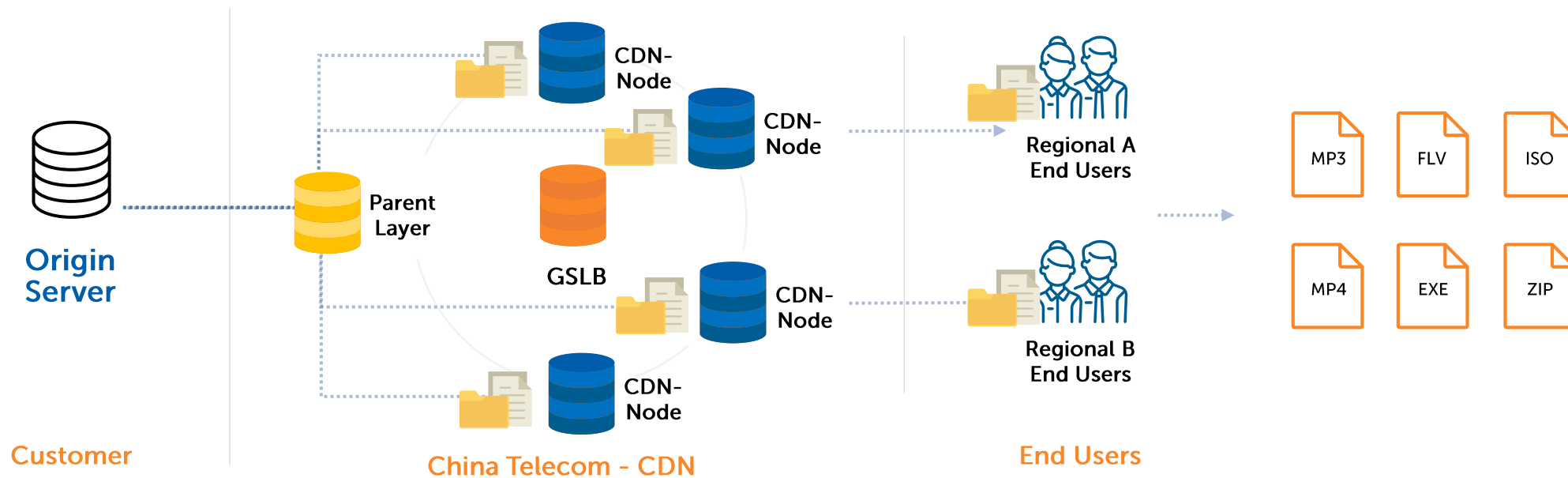
Protocol



HTTP/FTP etc.

Feature

- **Push (Mirror)** → Suitable for popular contents, which would be priorly pushed to the edge nodes
- **Pull (Cache)** → Suitable for long-tail contents: edge nodes pull them when end users access these contents



Value Added Services



Transmission Optimizing

- Smart Scheduling and Load Balancing
- Transmission Protocol Optimizing
- Support HTTP 2.0
- Smart Routing



Content Management & Access Control

- Webpage FEO
- Image Processing
- File PreFetch
- File Purging
- Regional Content Adaptation
- Advanced Analysis Data of Portal



Back-to-Origin Strategy and Origin Protection

- Sequential Back-to-Origin
- Advanced Origin Site Monitoring
- Instant Disaster Recovery

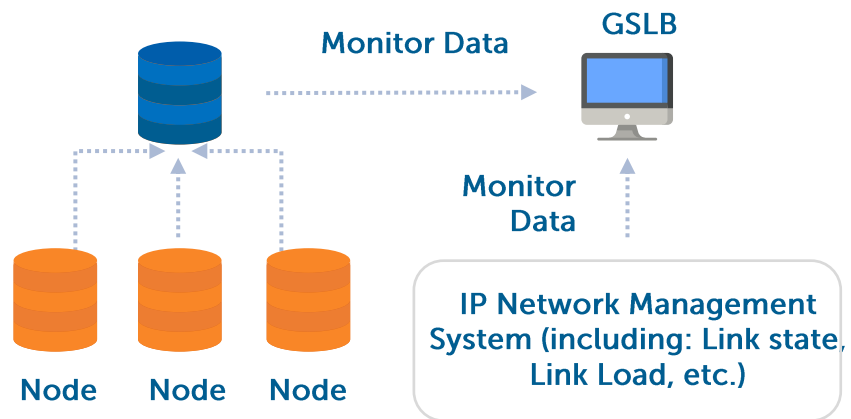


Business Guarantee & Security

- Anti-Hotlinking
- Anti-Highjacking
- Real-Time Monitoring

CDN With Intelligent DNS

Dedicated Monitor Network



Mature DNS IP direction technology

25% more higher accuracy

Accurate and complete IP Address Base with the accuracy of more than 25% higher than competitors and could update in real time

By deploying **dedicated monitoring systems** and applying **IP network management system**, the mass of monitoring data are forwarded to GSLB for scheduling reference.

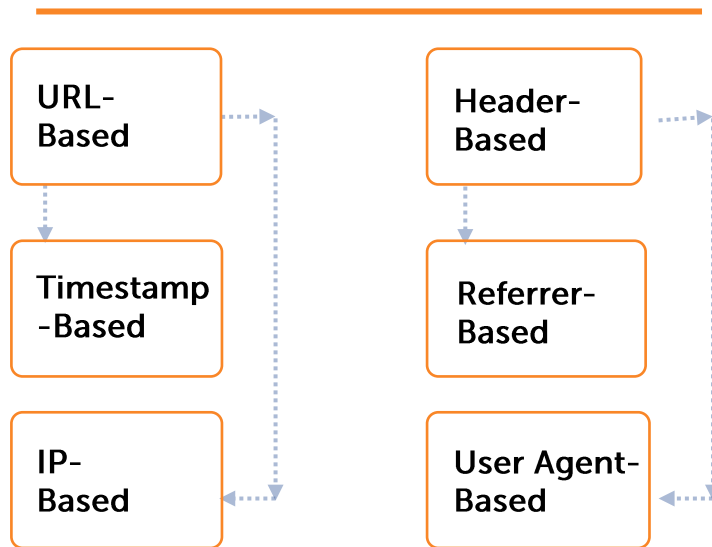
Choose the best CDN Node by Intelligence Scheduling in consideration from three aspects:

- IP Address,
- Dynamic loading condition of links and nodes
- User Access Experience

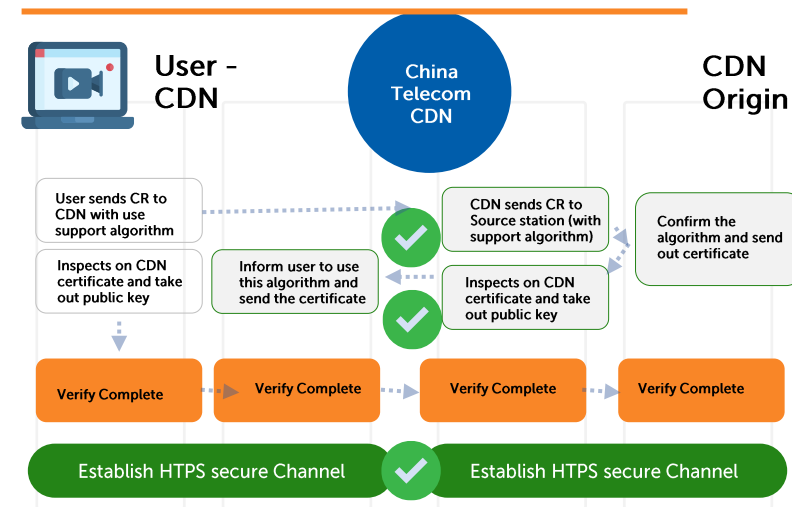
The selection strategy could be adjusted flexibly according to the change of these data.

CDN Security Technology

Anti-theft Link



SSL (Anti-Hijacking)



Anti-DDoS

Defending DDoS attacks effectively with the largest Load-Balancing Network

Tamper Proofing

Supports MD5 checksum mechanism for distributional content to prevent malicious tampering

POC Process

Customer

1. Choose a test object, it can be

- ✓ Current website
- ✓ Test website
- ✓ A specific URL

2. Fill in the requirement

- ✓ Domain
- ✓ Original domain or IP
- ✓ Region
- ✓ http/https,port
- ✓ Cache control

CTA

Collect Requirement



Configure



Verify



Launch



Monitor

Test

Make a three-party test and provide a report



Make a test by customer

Comparative Report

1. Choose the comparative objects
2. Compare the original server and CDN or competitor
3. The report includes performance, availability and other metrics by city or country

Contact Us or Visit:

ctamericas.com/coronavirus-support

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

607 Herndon Parkway, Suite 201
Herndon, VA 20170

marketing@ctamericas.com
www.ctamericas.com

Thank You

© China Telecom Americas Corporation 2020

Copyright, trademark, and other intellectual property rights contained in this document are owned or licensed by China Telecom Americas Corporation or its affiliates and protected by law.

