

# China Telecom Americas Content Delivery Networks (CDN) Solution Brief

Network Connectivity right at your fingertips from China Telecom.

Our industry-leading network delivers Internet-based content directly to users within geographically distributed end points located throughout China. Business can access our full network capabilities to obtain high performance speeds that ensure users can obtain content securely without interruptions across dedicated cloud servers. China Telecom's Content Delivery Network owns its IP, as businesses obtain cost-effective, competitive pricing packages without requiring third-party transit providers.

Your company can efficiently upload content to the Content Delivery Network in China as it will not experience slower performance, which are issues common when using outside networks such as Hong Kong CDN providers. This service is fully scalable to businesses of all sizes, allowing you to purchase CDN packages tailored to your needs during high demand periods when your business grows. With 84 global PoPs and over 50 catching nodes, content is efficiently delivered while network optimization features and a web-based media portal offers analytics options, log file queries and real-time usage reports quickly.

## How CDN Delivers Online Content

China Telecom's CDN is used effortlessly by global companies and users. Once selecting a CDN service package, the process begins with these following steps:

### Content Creation

Simply create the required content based on the user's online preferences, streaming behaviors and other demographical information. The CDN allows for live broadcasts, streaming on-demand, and adaptive media streaming. We also allow HDS and HLS formats when requiring dynamic content packaging.

### Web-Based Portal Capabilities

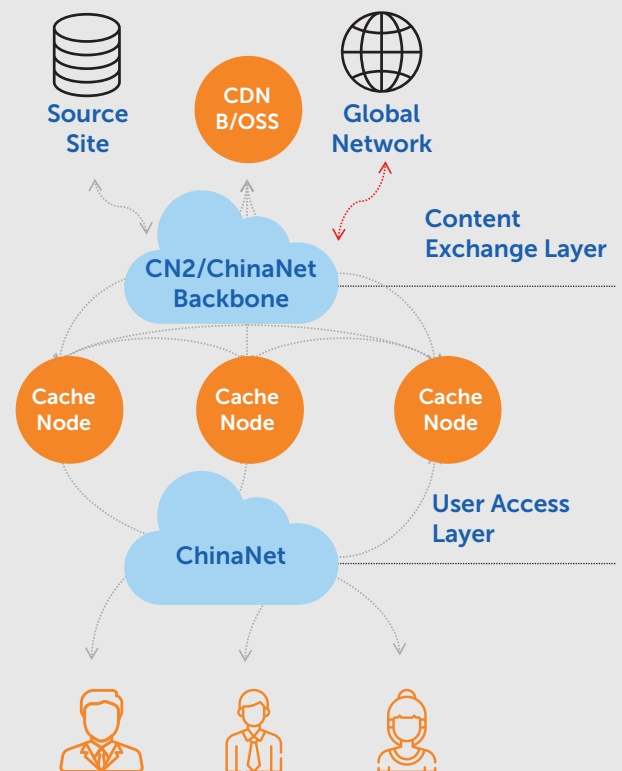
Through the CDN portal, you upload the content to our servers. You can select which CDN node for your content with our Intelligent Scheduling features. Select the node based on IP address, user access experience and the dynamic loading conditions of the links and nodes. Customers can upload their content via Aspera, FTP, SFTP, R-Sync, and SCP.

### Dedicated Cloud Server Management and Security

Once online content is placed onto our servers, we ensure it is secured and backed up to prevent corruption and missing data. We use the latest firewall and data retention capabilities, including Telco class security and integrated multiple anti-DDoS platforms to prevent malicious attacks and hacking attempts.

### Content Distribution Capabilities

Users will access the content by requesting it through the customer's website through their online interactions. CDN will receive the media content request when access is required to our server networks. Our content configuration services offer adaptive media delivery technology to fully optimize the user's online experience as we send the online content to the user. We also engage in optimal routing based on HTTP download performance measurements to handle peak demand requests, latency and loss frequency.



# Optimal CDN Benefits for Global Businesses

When you need your content to reach users without loss of speed or performance, China Telecom offers exceptional content delivery by providing the following benefits:

**Flexible Scalability:** Gain speedy online delivery and high performance capabilities as service packages are designed to offer advanced technologies at cost-effective prices.

**Real-Time Media Monitoring and Tracking:** Access a web-based portal that is easy to use as you can perform reach tracking, content analysis to determine which media that users enjoy and interactive with the most, and review usage reports for better content management.

**Adaptive Network Capabilities:** Content is delivered only through our network without relying on third-party transit providers or routing policies that may not offer efficient speeds or service availability.







**Enhanced Content Security:** Your media content is protected using all the latest protocols, firewalls and encryption technologies. We use advanced geographic IP filtering, SSL encryption technologies, and token authentication.

**Customized Service Packages:** Our CDN network services are customized based on your company's needs, media content type, deliverability and objectives.

**Exceptional Customer Experience:** Provide faster speeds to customers wanting to interact with your content as our content distribution, origin storage and media CODEC (MCD) service availability is the highest provided (>99.9%).

## CDN Features and Highlights

Access the fastest content delivery network in China with CDN from China Telecom. Features and highlights available with this high performance network include:

-  We offer a Tier 1 leading IP network infrastructure to provide a dual link for high availability as well as guaranteed bandwidth and server stability.
-  Customer web-based portal for log analysis and real-time content monitoring.
-  Largest CN2 MPLS network for efficient transportation between management nodes and cache nodes for guaranteed content delivery between China and other countries.
-  Dedicated and managed cloud network with over 50 deployed 130+/1.2T+ cache nodes in 83 cities in 41 countries.
-  Customers can obtain multi-tenant Mode CDN BOSS, API customization support and multi-level content protection security technologies (DRM, AES-128 and PHDS).
-  We offer a NOC engineer for 24/7 centralized monitoring and a solution engineer for 24/7 online support.

## CDN Use Case Studies

### Use Case 1: Secure Content that Reaches Users

A corporation with remote employees wanted reliable cloud network services without varying fees or network speeds due to using multiple third-party providers to reach last mile networks. Making the switch to China Telecom's CDN technologies offered more secure media storage that followed China's regulatory requirements as end users enjoyed enhanced online interactions with available content. Content transportation became effortless as companies obtained anti-DDoS protection all through one network.

### Use Case 2: Adaptable Content to Target Specific Networks

Large multimedia gaming company needed their content to be adaptable based on user's devices since technology and OS systems will differ when connecting to the platform system. CDN offered our content recognition and configuration technology. These features allow the uploaded media content to be adapted based on the target customer's device as well as their network configurations. Customers experienced less lag when requesting and receiving chosen media content.

### Use Case 3: Streaming Choices Using Multiple Frameworks

A content creation company required a network that allowed for multimedia content streaming to be delivered without any limitations based on chosen format. With CDN from China Telecom, the company was able to upload content for streaming on demand and adaptive streaming media using a variety of multimedia frameworks including Windows Media, Microsoft Smooth, Apple QuickTime, Adobe Flash, and Adobe Zeri.