CDNetworks

CDNetworks' Advanced Media Delivery Technologies



As an APAC-leading network with over 20 years of experience in content delivery, CDNetworks has successfully helped more than 1,000 global media companies provide their audiences with high-quality content and improved experiences. Our comprehensive content management system, industry-leading content distribution networks, and unmatched media streaming technologies empower businesses to create, process, deliver, and manage their media content effortlessly, without incurring additional expenses. This brochure highlights a few advanced technologies utilized by CDNetworks to enhance our customers' video streaming business.

Contact us at sales@cdnetworks.com or visit cdnetworks.com

H.266 SUPPORT

Bring a better viewing experience to your audience

H.266, also known as Versatile Video Coding, is the latest codec developed to support the future of video streaming, succeeding H.265. CDNetworks fully supports H.266, ensuring that your streaming experience is maximized. Whether you require immersive video streaming (360 Streaming), online video gaming, or video conferencing, you can rely on CDNetworks' Media Delivery platform with H.266 to kickstart your business.

Up to
50%
bitrate reduction compared to H.265 at the same perceptual quality.

Up to
50%
bandwidth savings when delivering the same quality video compared to H.265.

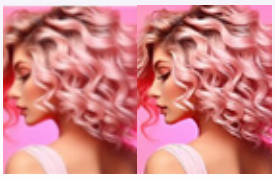
Up to
16K
streaming with less powerful processors and less available bandwidth.



AI SUPER RESOLUTION

Upscale your videos to 8K

CDNetworks leverages the power of AI technology to enhance the quality of your videos with our AI Super Resolution solution. By intelligently analyzing the video's features and leveraging this information, we reconstruct the video at a higher resolution, transforming blurry content into brilliant, dazzling viewing. With AI super resolution, you can impress and engage your audience effortlessly.



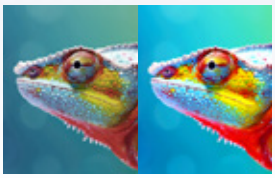
Boosted Video Quality

Eliminate blur, restore video details and enhance sharpness



Resolution Upscaling

Increase resolution up to 6x and deliver 8K videos to all your viewers



Color Enhancement

Balances colors, brightness, and saturation to recreate the original scene in dazzling reality



LOW BANDWIDTH HIGH DEFINITION

Stream high-quality video at lower bitrates

Transcoding typically converts high-quality streams to lower quality, which can diminish the viewing experience. CDNetworks' LBHD, our proprietary, in-house developed streaming technology, is designed to address this issue. By fine-tuning and adjusting the bitrate based on video content, LBHD transcoding slashes bandwidth costs for video service providers while providing users with optimal viewing experiences.





Scenario-based Transcoding

Generate and apply the ideal codec models tailored to scene complexity while transcoding to deliver high-quality streams at lower bitrates



Dynamic Bitrate Control

Dynamically compress videos using an adaptive bitrate control algorithm that allocates bitrates where it matters most.



Video Details Restored

Restore video details lost due to compression by denoising, sharpening, and improving contrast

8K TRANSCODING SUPPORT

Deliver End-to-End 8K Video Everywhere Your Viewers' Need

Global consumers are displaying an increasing appetite for engaging high-definition visual experiences. At the same time, many industries, such as entertainment, sports, gaming, and even monitoring & security, are increasingly adopting 8K live streaming for their events. However, transmitting 8K video content incurs higher consumption compared to low-resolution videos. CDNetworks' End-to-End 8K solution addresses these challenges and offers a number of benefits.



8K Distribution: Deliver your 8K content quickly and securely

Distributes your 8K video content with CDNetworks' CDN, delivering it quickly to your audience wherever they reside.

8K Transcoding: Guarantee 8k output at lower bandwidth costs

Supports transcoding your 8K videos into lower bitrates, reducing stringent network requirements for ultra-high-resolution videos for viewers.

8K Upscaling without concern for 8K resources

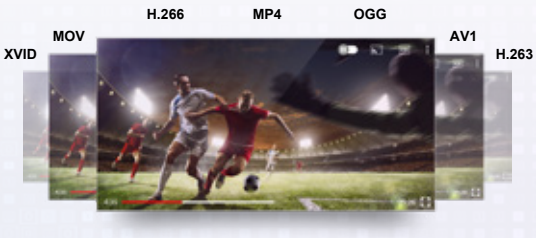
Supports upscaling and distribution of 8K through your existing 1080P or 4K images.

ENHANCED RTMP/FLV

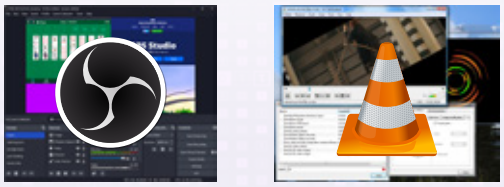
Open more possibilities for your live low-latency business



RTMP or FLV protocols are widely used in live streaming and low latency scenarios. These protocols rely on the FLV container format. **Over 75% of broadcasters use RTMP for ingestion**. However, the discontinuation of FLV standard updates means there is no support for newer encoding formats like H.265 and H.266. The newly introduced enhanced RTMP/FLV standard, which CDNetworks supports, addresses this issue. By utilizing our Enhanced RTMP/FLV, you can enjoy the benefits of RTMP/FLV's low-latency while freeing yourself from the limitations imposed on your streaming.



More video codecs available in Enhanced RTMP/FLV for you to choose, such as H.266, H.265, AV1, and VP9.



No plug-in development work when using Enhanced RTMP/FLV, which is supported by popular streaming software such as OBS and VLC.

QUIC PROTOCOL SUPPORT

Boost your connections even in challenging networks



Quick UDP Internet Connection (QUIC) is a low-latency internet transport protocol designed to improve network efficiency and reduce latency. CDNetworks offers comprehensive support for all versions of QUIC (iQUIC/gQUIC) and has implemented thorough quality optimization for the protocol to further addresses issues related to unstable video streaming quality resulting from poor network conditions across different regions.

Lightning-Fast Connections

0-1 RTT to reduce connection latencies and accelerate video startup times

Enhanced Security

Built-in TLS1.3 encryption to protect against eavesdropping and data tampering

Streamlined Multiplexing

Simultaneously handling multiple streams in a single connection to eliminate head-of-line blocking and enhance data transfer efficiencies and responsiveness

Revolutionized Congestion Control

Pluggable application-layer congestion control dynamically manages data to ensure smooth streaming, minimizing buffering and packet loss

Seamless Connection Migration

Smooth transition between disparate network environments to ensure uninterrupted streaming experiences over unstable networks

Forward Error Correction (FEC)

Dynamically adding FEC packets to enhance data transmission efficiency and effectively shorten video buffering time, improving user retention rate

EXPLORE CDNETWORKS MEDIA DELIVERY SOLUTIONS

Media Acceleration VoD
Ensure high-quality video along with fast & secure delivery of digital content anywhere in the world

Media Acceleration Live Broadcast
Deliver broadcast-quality live streams with ultra-low latency, high reliability and scalability

Cloud Streaming Solution (Cloud VoD/Cloud Live)
Boost your VoD and live streaming business with our all-in-one video streaming solution



Low Latency Streaming
Empower live streaming with ultra-low latency at a global scale

Object Storage
Provide customers with reliable, available and high-performance storage

TRUSTED BY GLOBAL COMPANIES

SONY LOTTE TikTok Hisense vivo

multicampus pandora.tv oppo 해커스인강

ENM bilibili IMC nc iQIYI K+ 17LIVE

CDNetworks

As a global-leading CDN (Content Delivery Network) and Edge Service provider, CDNetworks delivers fully integrated cloud and edge computing solutions with unparalleled speed, ultra-low latency, rigorous security and reliability. Our diverse products and services include web performance, media delivery, enterprise applications, cloud security, and colocation services — all of which are designed to spur business innovation.

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