

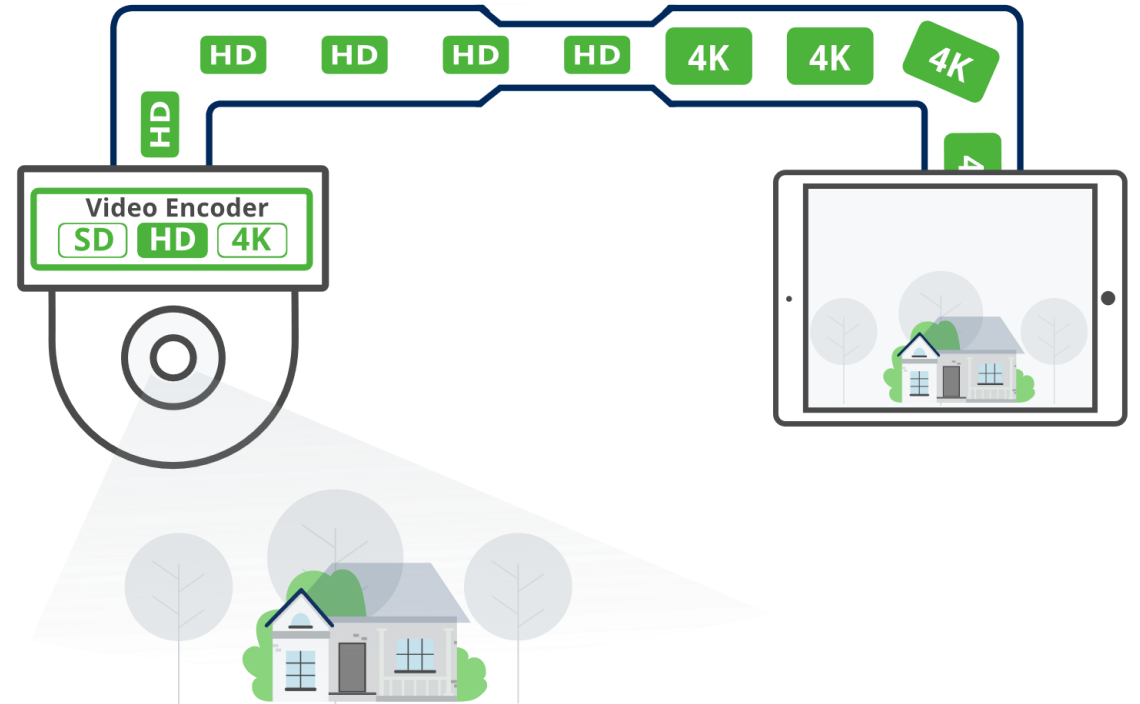
Adaptive Bitrate Streaming

Version 1.1 | As seen on [Adaptive Bitrate Streaming](#)

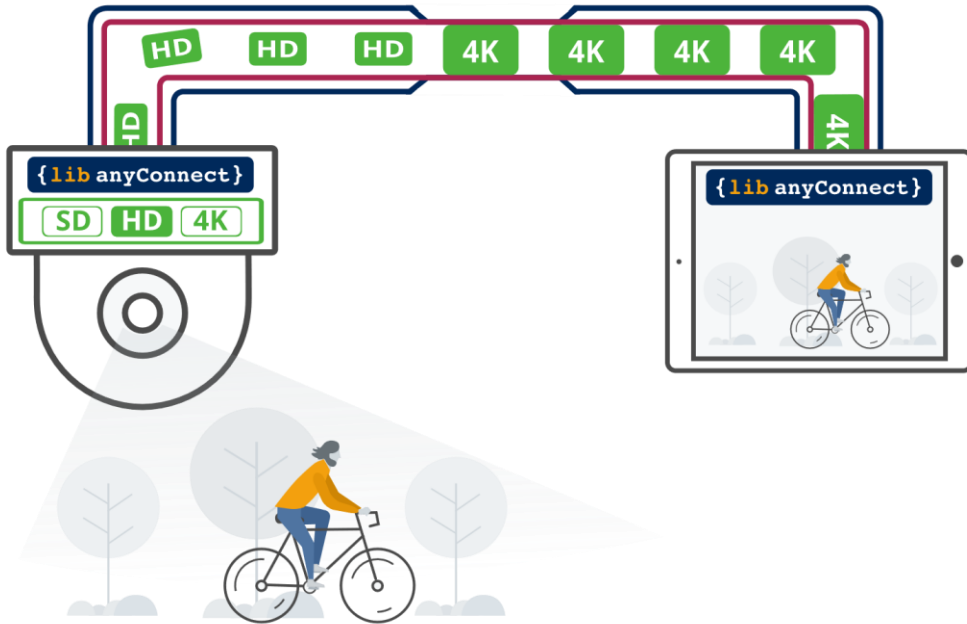
What is Adaptive Bitrate Streaming?

Adaptive bitrate streaming is a technique for streaming video over the Internet and to mobile networks. Adaptive bitrate streaming measures the real-time bandwidth and CPU capacity of each streaming device and adapts video quality accordingly.

Adaptive bitrate streaming requires a video encoder which can encode a single stream at multiple or variable bitrates. A streaming client switches or adapts the encoded video quality depending on its available bandwidth and CPU capacity, to deliver a good experience for every fixed or mobile network and device.



How AnyConnect Adaptive Bitrate Streaming Works

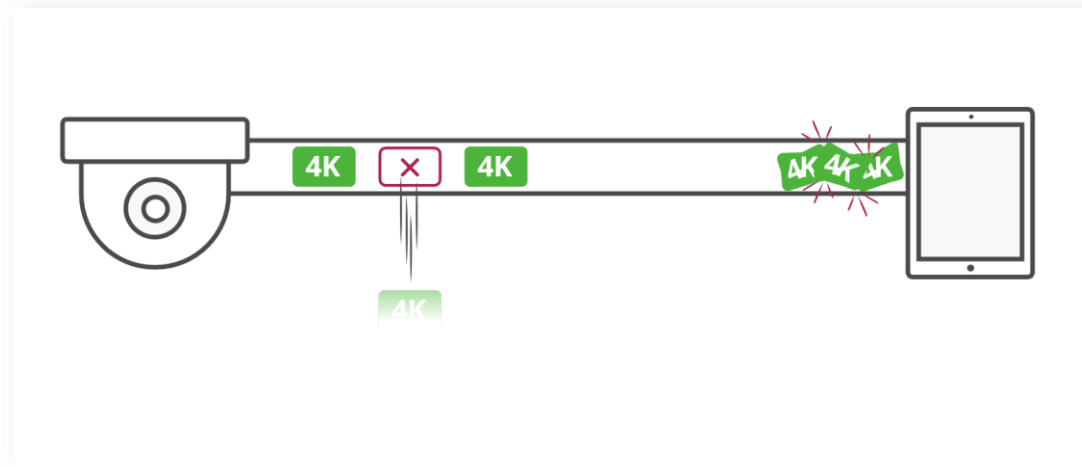


AnyConnect Adaptive Bitrate Streaming encodes video from a connected camera with multiple and variable bitrates in HD base and 4K UHD enhancement layers. Mobile apps adapt video quality based on their available network and CPU capacity.

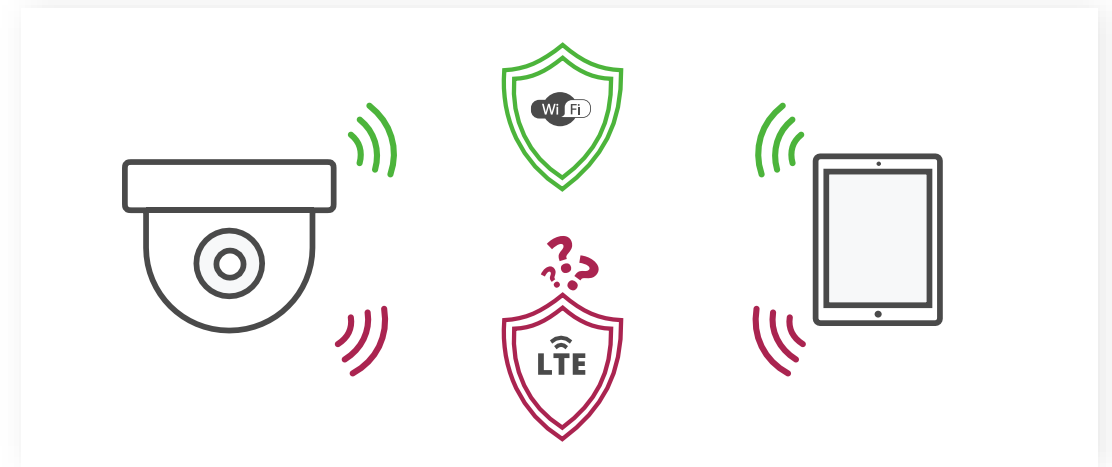
Adaptive Bitrate Streaming Challenges

There are many challenges to adaptive bitrate streaming, including bandwidth limitations, latency issues, and wireless networks:

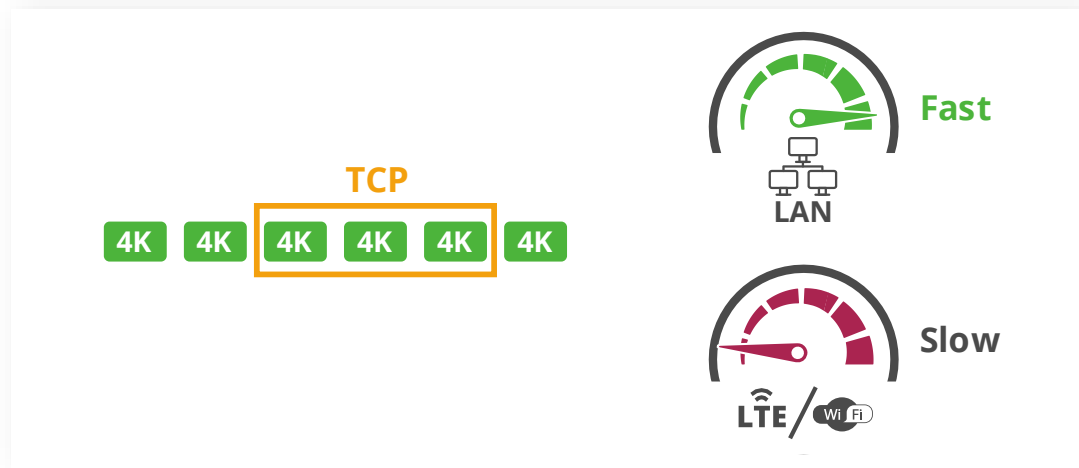
Latency, jitter, and packet loss



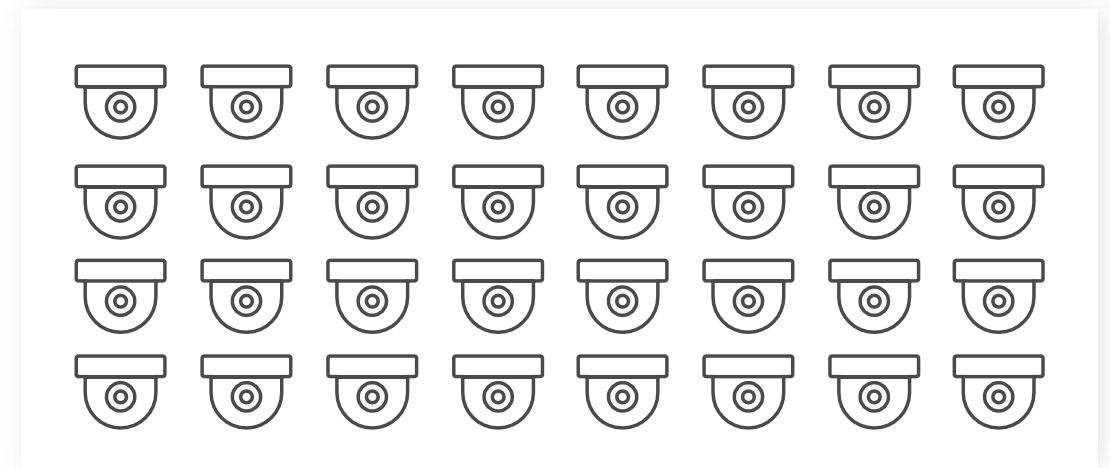
Network transitions



Wired and wireless networks

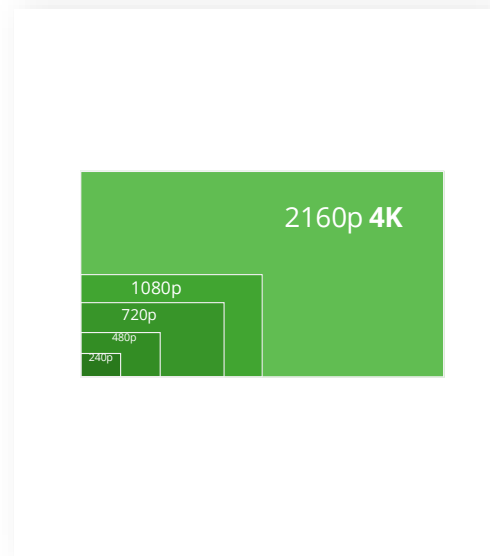


Scale

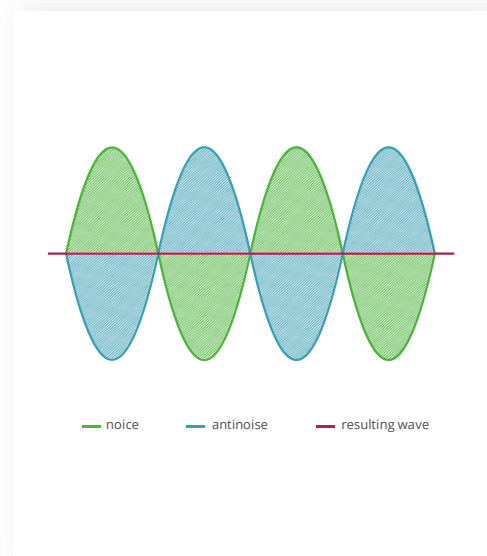


AnyConnect Adaptive Bitrate Streaming Benefits

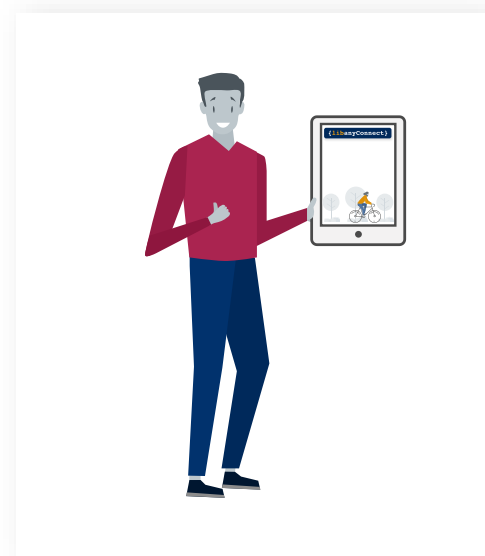
AnyConnect Adaptive Bitrate Streaming enables the best streaming experience on any fixed or mobile network and device. AnyConnect Adaptive Bitrate Streaming delivers:



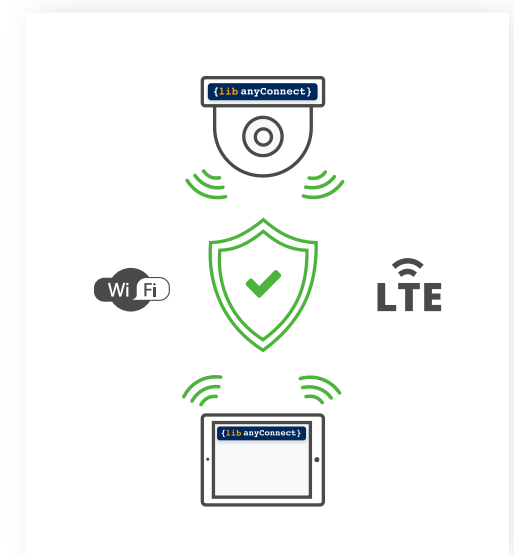
HD and 4K. With multiple and variable bitrates, AnyConnect supports streaming in HD and 4K UHD.



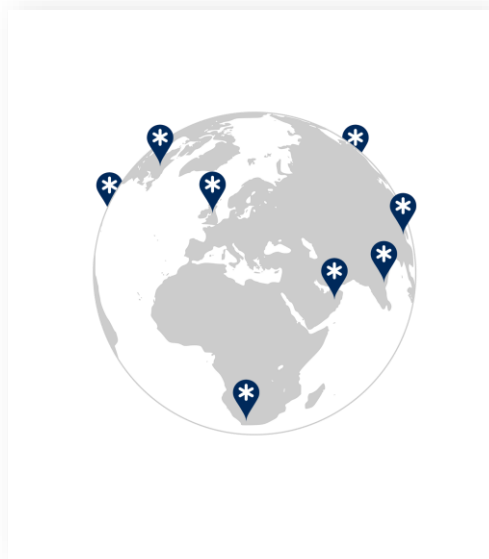
Audio quality. Audio Echo Cancellation, Automatic Gain Control, Jitter Buffering, Noise Cancellation, and Packet Loss Concealment to deliver the best possible video quality on any fixed or mobile network and device



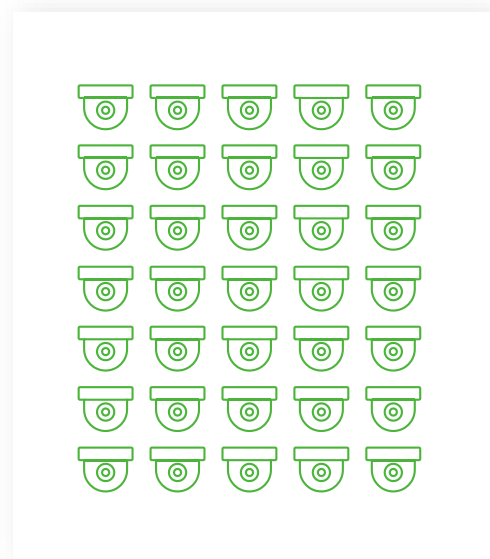
Video quality. Dynamically optimizes frame rate, resolution, and image quality to deliver the best possible video quality on any fixed or mobile network and device.



Network transition resilience. Keep streaming from WiFi to 4G and back!

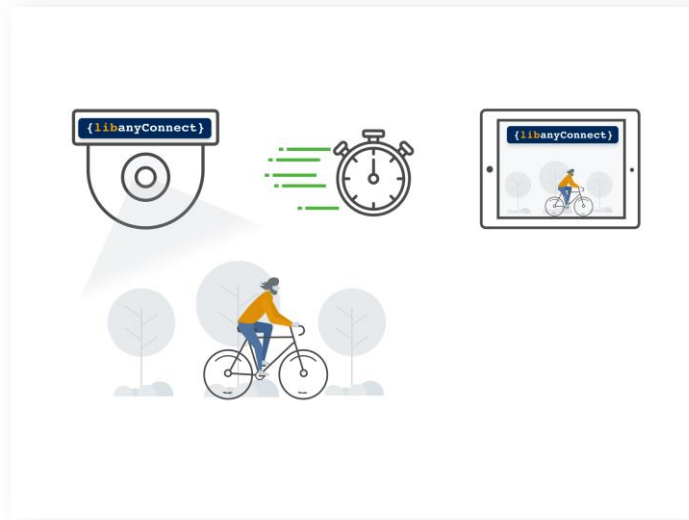


The best streaming experience between connected cameras and mobile apps ... on the same network or across the world.



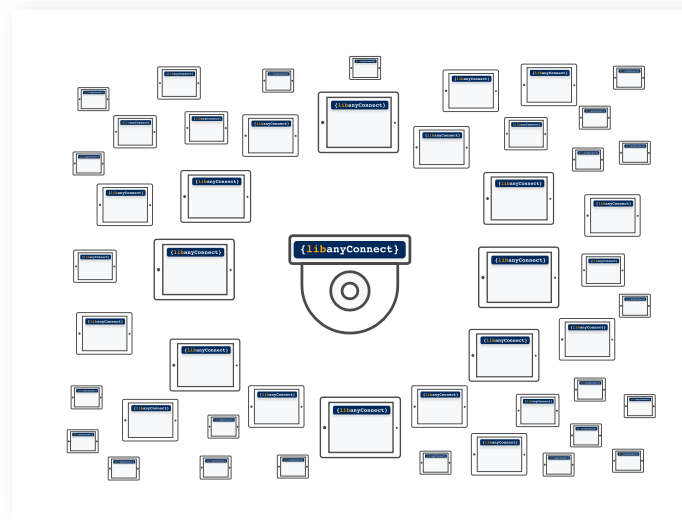
Capacity, reliability, and scale. Supporting tens of thousands of concurrent streams, AnyConnect is a trusted partner for the world's largest connected camera makers and service providers.

Additional Benefits of AnyConnect Adaptive Bitrate Streaming



Instant streaming

Combined with [AnyConnect Instant Connections](#), AnyConnect's Adaptive Bitrate Streaming delivers instant streaming between connected cameras and mobile apps.



One-to-many streaming

AnyConnect's Adaptive Bitrate Streaming supports one-to-many streaming with multiple and variable bitrates.

Get started with AnyConnect.

Ready to get started? Contact us

Talk to an expert