Vbrick Peer-to-Peer

HIGH-QUALITY LIVE VIDEO STREAMING WITHOUT THE HASSLE

Deliver uninterrupted live video without the need for complex configurations, installations, or additional hardware management with Vbrick Peer-to-Peer. This browser-based enterprise content delivery network (eCDN) solution optimizes bandwidth by redistributing video seamlessly among connected viewers.

USE THE COLLECTIVE POWER OF PEERS TO REACH ALL YOUR VIEWERS

Streaming video is the most impactful and cost-effective way to reach large enterprise audiences. Still, video consumes significant bandwidth, making it a challenge to reach viewers in every corner of your network.

A peer-to-peer eCDN creates a distributed network of end-user client devices, all streaming the same video. Video content is pulled onto the network a limited number of times and then shared among these end-user devices, or peers. This approach ensures high-quality video streams for viewers while minimizing network congestion.

WHEN TO USE PEER-TO-PEER

Live Events
Reliably stream live video to your entire enterprise audience

Quick Deployment
No intricate setup or configuration, making it suitable for a broad range of network architectures

Limited Infrastructure
Implement in locations without available server or computer resources
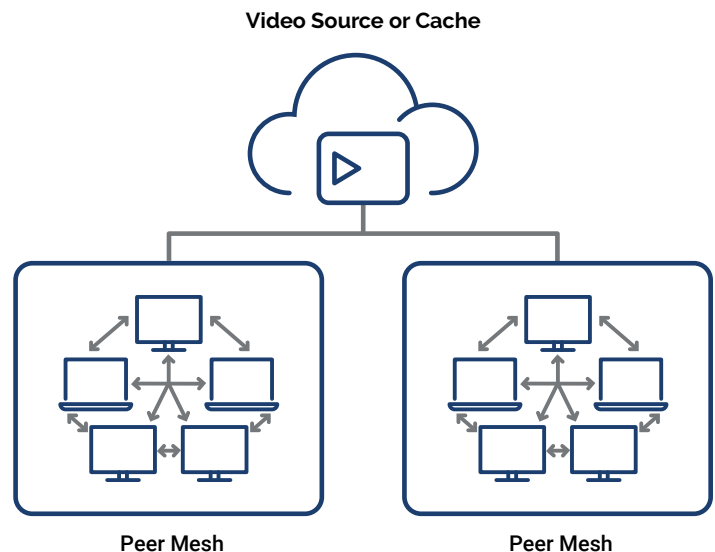
Wired Devices
Include any device that directly connects to the network without Wi-Fi

HOW VBRICK PEER-TO-PEER WORKS

Vbrick Peer-to-Peer uses WebRTC technology — a widely adopted communication standard integrated into modern browsers, devices, and operating systems — to establish end-user connectivity, dramatically reducing bandwidth. This approach eliminates the need for additional plugins or client software on the end-user device.

The peer-to-peer network controller, or server application, forms peer meshes of end-user devices based on geographic and network proximity as they come online. These meshes make it suitable to share content quickly and easily. When a user requests content, it checks with a peer mesh to determine if the content is already stored. If a peer is found, the content is available without connecting to video origin. This reduces bandwidth usage at critical network bottlenecks and ensures a higher-quality, more stable viewing experience.

Real-time and post-event analytics monitor your network performance, offering a comprehensive, data-driven perspective on your live events down to the individual end user.

Video Source or Cache

Peer Mesh   Peer Mesh

THE VBRICK PEER-TO-PEER ADVANTAGE

Vbrick Peer-to-Peer is a highly flexible and easily scalable solution suitable for a broad range of network architectures. Peering is easy to configure and doesn't require additional software or hardware, making it an ideal choice for swift rollout. Its compatibility with different network types allows deployment in diverse environments, ensuring scalability as your enterprise expands. The cloud console simplifies eCDN management, offering centralized deployment, configuration, monitoring, and analysis. With a user-friendly interface and the ability to fine-tune peer meshes, you have complete control over the flow of video across your network.

Whether for live events, locations without server resources, wired device connections, or quick deployments, Vbrick Peer-to-Peer is an ideal choice for optimal performance and efficiency. Maximize your network's potential by leveraging Vbrick Peer-to-Peer or a tailored combination of Vbrick Universal eCDN technologies to meet specific network and distribution needs.

VBRICK UNIVERSAL ECDN

Tap into the most versatile video distribution architecture available today to deliver exceptional video experiences to every person, every time. Vbrick Universal eCDN is the only solution on the market with three advanced eCDN technologies: peer-to-peer, edge caching, and multicast. Use any combination to deliver your message at scale without interruption while safeguarding the security of your video assets. Our portfolio of advanced technologies provides your enterprise with unparalleled flexibility to fit the needs of your network — today and in the future.

Flexible Network Support	Advanced Integration Capabilities	Simple Cloud Management and Analytics	Top-Tier Security and Compliance
⊙ Adaptable infrastructure for evolving network configurations and use cases	⊙ Deep partner integrations with Webex Webinars and Microsoft Teams, including town hall support	⊙ Provides a centralized platform for ongoing management, monitoring, and detailed analytics	⊙ FedRAMP-certified, SOC 2 Type II accredited, and GDPR-compliant
⊙ Future-proof your network with peer-to-peer, edge caching, and multicast technologies	⊙ Supports a multitude of streaming sources, protocols, and delivery methods	⊙ Comprehensive real-time and post-event analytics, down to individual end-user device	⊙ Encryption ensures video security both in transit and at rest
⊙ Operate our three advanced eCDN technologies independently or in unison	⊙ Set up custom or bespoke integrations for other video platforms using our software development kit (SDK)	⊙ High availability with heartbeat monitoring	⊙ Deployment behind the firewall

LEARN MORE

visit: www.vbrick.com/demo
or email: contactus@vbrick.com