

# Vbrick Ramp Peer-to-Peer

## HIGH-QUALITY VIDEO DISTRIBUTION FOR LOCATIONS WITH LIMITED INFRASTRUCTURE

Vbrick Ramp Peer-to-Peer is a WebRTC-based enterprise content delivery network (eCDN) that optimizes bandwidth by redistributing video among connected viewing devices.



## DECENTRALIZING ENTERPRISE VIDEO DISTRIBUTION WITH PEER-TO-PEER NETWORKING

The most impactful and cost-effective way to reach large enterprise audiences is through streaming video. But video consumes significant bandwidth and successfully reaching viewers in every corner of your network can be a challenge.

A peer-to-peer networking eCDN helps reduce the bandwidth needed to deliver live video on your network. The peer-to-peer eCDN creates a distributed network of end-user client devices that are all streaming the same video. The video content is pulled onto the network a limited number of times, then shared between these end-user devices (peers). As a result, viewers get a high-quality video stream while the network experiences significantly less congestion.

### When to Use Peer-to-Peer



#### Live Events

Reliably stream live video to distributed remote offices



#### No Infrastructure

Implement in locations without available server or compute resources



#### Wired Devices

Include any device that directly connects to the network without wifi

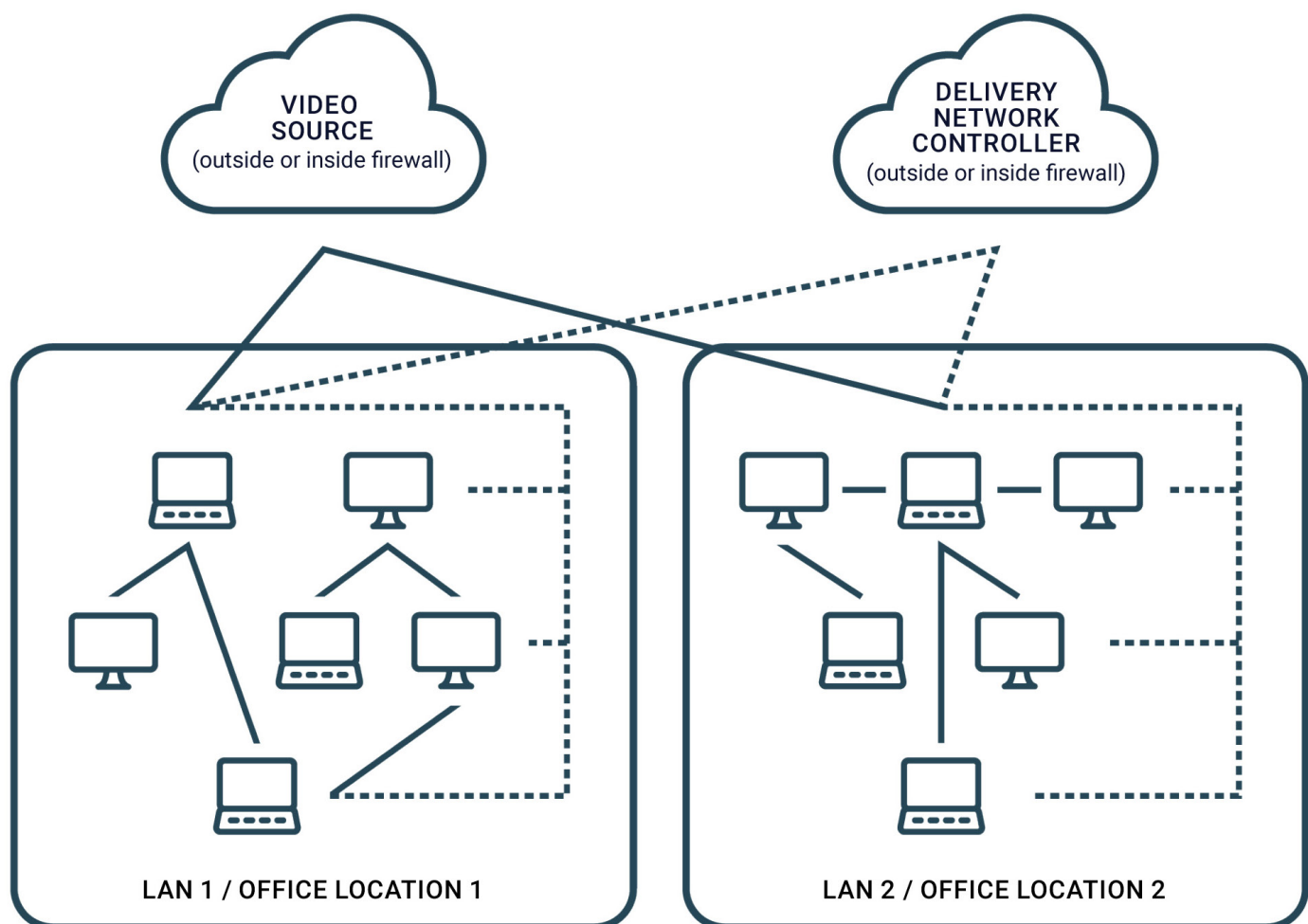


#### Quick Deployment

Easy installation — no software, network reconfiguration, or firewall changes

# High-Quality Video for Locations With Limited Infrastructure

Not all networks are created equal. Some are built on multicast while others are created using different types of infrastructure. One of the strengths of peer-to-peer networking is that it needs no infrastructure other than a centralized controller for orchestrating the peer network. Furthermore, Vbrick Ramp Peer-to-Peer is a WebRTC browser-based solution that requires no client software or plugin installations on the viewing devices. These features make it an ideal solution to deliver video to remote locations with a limited number of viewers or when there is little to no infrastructure available.



# How Vbrick Ramp Peer-to-Peer Works

Vbrick Ramp Peer-to-Peer uses WebRTC to establish a network of end-user devices. WebRTC is a widely adopted communication standard already integrated into all modern browsers, devices, and operating systems. Therefore, it can be used without a plugin or other client software installed on the end-user device.

A peer-to-peer network controller (server application) forms peer groups of end-user devices as they come online. The groups are based on geographic proximity, making the peers suitable to share content quickly and easily. The controller can be hosted as a cloud-based service or on-premises, depending on your organization's preference and security requirements.

When a user requests content, the peer-to-peer controller checks the peer group to determine if the content has been previously stored. If a peer is found, the content will be provided without connecting to the original video source.

The result is less bandwidth consumed at the critical network bottlenecks and a higher-quality, stable viewing experience.

Event statistics and video analytics let you monitor your network and webcast performance in real-time for a holistic, data-driven view of your live events.

## Vbrick Ramp Peer-to-Peer Benefits

- ◉ No client software or plugins
- ◉ Hosted in the cloud or on-premises
- ◉ Supports any device with a browser
- ◉ Scales automatically with demand
- ◉ Simple, one-time setup
- ◉ Encrypted, GDPR and DRM compliant
- ◉ Event statistics and video analytics
- ◉ Supports virtually any streaming video source
- ◉ Simultaneous support for multiple streaming platforms

## Vbrick Ramp: The Universal eCDN

Vbrick Ramp offers three eCDN technologies – multicast, edge caching, and peer-to-peer – to create a complete video distribution solution that meets the specific needs of your enterprise. Use any combination of eCDNs to securely and efficiently distribute video to every location and viewer on the corporate network.

**LEARN MORE**

visit: [www.vbrick.com/demo](http://www.vbrick.com/demo)  
or email: [contactus@vbrick.com](mailto:contactus@vbrick.com)



607 Herndon Parkway, Suite 300 ◉ Herndon, VA 20171 ◉ USA ◉ [www.vbrick.com](http://www.vbrick.com)

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