Vbrick Multicast

OPTIMIZE YOUR CORPORATE NETWORK FOR LIVE VIDEO STREAMING

Deliver superior-quality live broadcasts with Vbrick Multicast — the most efficient and modern multicast eCDN technology compatible with standard browsers. Utilizing your network's multicast protocol, it sends a single video stream to your entire audience without consuming more bandwidth than needed for one viewer.

REFINE LIVE BROADCASTING USING A SINGLE STREAM

Live video streaming has become an indispensable tool for connecting with your employees worldwide. Whether they're just a room away or on the opposite side of the globe, the power of visual communication cannot be overstated. The strain this places on your network, however, can be overwhelming, impacting video quality and your business-critical operations.

Multicast is a bandwidth-conserving, one-to-many network protocol that reduces traffic by distributing a single video stream for all users to watch. This technology ensures stable, reliable transmissions without compromising quality, making it the go-to choice for enterprises aiming to deliver seamless streaming experiences to a vast audience on the corporate LAN/WAN.

WHEN TO USE MULTICAST

Live Video Is the Priority
Use the most efficient way to live stream to large audiences

Existing Multicast Network
Implement the only modern multicast eCDN technology that plays in standard browsers

Security Is Critical
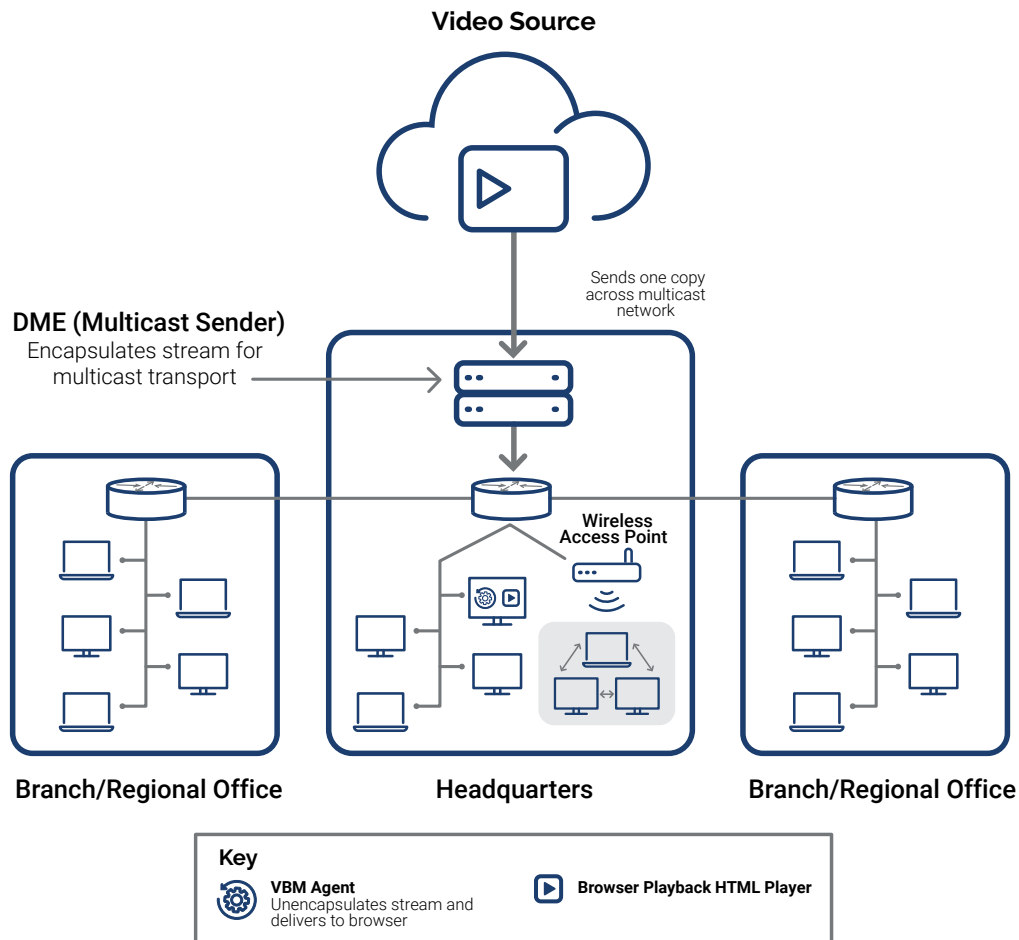Deployment behind the firewall and end-to-end encryption

Quick Viewer Accessibility
Predictable video delivery, even over Wi-Fi and in virtual desktop infrastructure (VDI) environments

HOW VBRICK MULTICAST WORKS

Vbrick Multicast serves the essential purpose of facilitating video playback in a browser through your multicast-enabled network. It is made up of two proprietary software components: DME (Distributed Media Engine) and Vbrick Multicast (VBM) Agent. Together, they manage video distribution over multicast in place of the typical unicast transport.

The multicast sender, or DME, functioning as server software within your network, retrieves live video streams from the source, encapsulates them for multicast transport, and sends them out over the multicast-enabled network.

Each network-connected viewing device, such as a personal computer, hosts the VBM Agent. This receiver allows the client to access multicast broadcast streams. Upon receiving video streams, the content is unencapsulated and made locally available to the browser, akin to content retrieval from any web server.

Video Source

Sends one copy
across multicast
network

DME (Multicast Sender)
Encapsulates stream for
multicast transport

**Wireless
Access Point**

Branch/Regional Office   **Headquarters**   **Branch/Regional Office**

Key

VBM Agent
Unencapsulates stream and
delivers to browser

Browser Playback HTML Player

THE VBRICK MULTICAST ADVANTAGE

Vbrick Multicast is a cutting-edge technology that overlays your existing network infrastructure for a superior video experience. It makes the best and most efficient use of your network bandwidth, providing a predictable and deterministic video delivery network across various sources, protocols, and methods. Serving as a unified backbone for enterprise streaming platforms, it streamlines delivery processes and grants control over your eCDN environment.

Tailor your eCDN by customizing it to any network topology, proxies, or VPN solutions you employ. Our proprietary design incorporates integrated encryption and forward error correction, enhancing the security and reliability of your video streaming. Adaptable to your current architecture, Vbrick Multicast is a cost-effective, efficient choice that eliminates the need for network upgrades or proprietary hardware.

The cloud console simplifies eCDN management, offering a centralized hub for deployment, configuration, monitoring, and analysis. The user-friendly interface allows provisioning and simulating live events, making Vbrick Multicast an advanced and versatile solution for your video streaming capabilities. Maximize your network's potential by leveraging Vbrick Multicast 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