RAMP MULTICAST+
Next-generation multicasting for live video

Live video streaming is an efficient and effective way to reach employees around the world. But streaming video to hundreds or thousands of people over the corporate internet connection can seriously impact the network. Ramp AltitudeCDN™ is a suite of software solutions for optimizing video traffic on enterprise networks.

AltitudeCDN™ Multicast+ takes advantage of the multicast protocol to send a single video stream to everyone in your audience without consuming any more bandwidth than is needed for one viewer. If you want a highly predictable and deterministic network, Multicast+ is undeniably your best choice for live video delivery. It's the only vendor-neutral multicast replacement for end-of-life multicasting technologies, including those based on Flash.

HOW MULTICAST+ WORKS WITH KALTURA

The integration of Multicast+ with Kaltura's webcasting and live streaming solutions makes it easy for you to configure live events to broadcast over your multicast network. Two software components—a Multicast+ Sender and Multicast+ Receivers—are required to orchestrate the distribution over multicast in place of the typical unicast transport.

The Multicast+ Sender is server software that sits on your network. It retrieves live video streams from Kaltura, encapsulates them for multicast transport, and sends them out over the multicast-enabled network.

Each viewing device on the network, such as a personal computer, hosts a Multicast+ Receiver. The Receiver makes the client capable of tapping into multicast broadcast streams. When video streams are received, they are unencapsulated and made available locally to the browser, the same way the browser would receive content from any web server.

BENEFITS

• Highly-predictable, deterministic video delivery network
• Only direct replacement for legacy multicast solutions
• Deploys 100% behind the firewall, no cloud controller
• Event simulations for silent network testing
• Best eCDN for live video over Wi-Fi
• Patented forward error correction and bandwidth smoothing
• High availability with heartbeat monitoring
• Centralized management, monitoring & insightful analytics
**PRODUCT FEATURES**

- **Next-generation multicasting**: Multicasting for live HTML5 video (HLS, DASH), including Kaltura, and the only direct replacement for end-of-life multicasting solutions.

- **Software-defined networking**: Lightweight, flexible software that runs and scales on your existing network without proprietary hardware or labor-intensive network upgrades.

- **Secure**: Multicast+ sits 100% behind your firewall and has a secure key exchange between senders and receivers to maintain security policies you already have in place. Even Altimeter, Ramp’s web-based management platform, stays inside your firewall to protect you from outside risks.

- **Vendor neutral**: Multicast+ supports any HLS or DASH video, so you can select streaming platforms based on your business requirements—now and in the future—without replacing your video delivery infrastructure.

- **Silent testing**: Create and schedule fully-functional event simulations, without recruiting people from different offices/geographies, to verify end-to-end network performance and QoE. With every simulation, you get detailed analytics, allowing you to make adjustments before the live event.

- **Reliable**: Ramp’s patented bandwidth-smoothing technologies, including forward error correction and heartbeat monitoring, add layers of resiliency to ensure a high-quality experience.

- **Insightful analytics**: Multicast+ gathers and exposes advanced diagnostics and insights giving administrators a complete view into key KPIs before, during and after each event. Analytics include aggregated and detailed data on the number of viewers, packet loss, missing segments, and the performance of individual receivers.

**ABOUT RAMP**

Ramp resolves network congestion created by live and on-demand streaming video. Offering multicasting and intelligent video caching solutions, our enterprise content delivery network (eCDN), securely and efficiently optimizes video behind the firewall to deliver the best quality viewing experience.

For more information visit: [https://ramp.com](https://ramp.com)

Get in touch: [info@ramp.com](mailto:info@ramp.com)

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**ABOUT KALTURA**

With the mission to power any video experience, Kaltura has emerged as the fastest growing video platform. Kaltura is deployed globally in thousands of enterprises, media companies, service providers, and educational institutions and engages hundreds of millions of viewers at home, at work, and at school.

For more information visit: [http://corp.kaltura.com](http://corp.kaltura.com)