Fuze Meeting Video Conferencing

Boardroom quality HD video conferencing to any internet connected device.
As video communications become mission critical to the enterprise, the limitations of legacy video conferencing solutions are becoming more acute. In one camp, we have dedicated high-end video conference systems, with specialized rooms, single purpose network facilities and proprietary standards—in other words, poorly utilized “island systems.” In the other camp are desktop-based solutions suffering from marginal performance such as choppy frames, long delays, broken pictures and other problems. Compounding the issue, these two distinct camps do not interoperate. Until now, enterprise customers expecting high-end video conference quality with desktop/mobile ubiquity have been disappointed.

With Fuze Meeting, the expectations for high definition, full featured, mobile collaboration can finally be realized. Fuze Meeting pairs a high-quality video experience delivered via SaaS for rapid deployment and universal access—all at a lower cost—over converged IP networks. Fuze Meeting is the first video conferencing and online meeting solution designed to work like the Internet itself. Out are the two legacy models highlighted above and in is the first solution for video conferencing designed specifically for the world of distributed computing—all thanks to Fuze Meeting’s cloud delivery model and unique video architecture.

Fuze Meeting takes the HD experience from the boardroom to remote offices, desktops, laptops, tablets and mobile phones. Finally, high quality video at your fingertips wherever you are.
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A better video conferencing experience starts with better technology
Fuze Meeting video leverages the recently approved H.264/SVC standard—Scalable Video Coding. This new technology makes it possible to separate video bitstreams into high-reliability and low-reliability channels. These different bit-stream components allow the system to dynamically adapt to varying network conditions such as packet loss, jitter, network bandwidth, network delay, and the like. Similarly, the use of multiple bit-stream components permits the flexibility to adapt to changing processing power for all participants.

Fuze Meeting’s unique approach signifies the advent of reservation-less HD video conferencing since participants can join a conference without first making elaborate arrangements. What’s more, they can connect from anywhere, using whatever device is available to them—whether a room system, a desktop computer or a mobile device.

Fuze Meeting brings high definition video conferencing, audio conferencing and content collaboration to the desktop—over converged IP networks! All you need is a broadband internet connection, a good-quality USB webcam, a Mac or PC, and you’re ready to participate in multi-point video calls with other participants, whether they’re gathered in special video conference rooms, sitting in front of a computer or on the road joining via a mobile device.

Fuze Meeting on the mobile—quality video conferencing from anywhere
Work doesn’t stop when you are out of the office so why should your video conference? All Fuze Meeting accounts include support for Apple iOS and Google Android mobile devices. This unparalleled mobile support ensure you can maximize productivity and utilization of your investments by extending video beyond the desktop to the next generation of mobile computing devices. Our unique implementation of h.264 SVC video means elastic video quality based on your connection speed. Join using the latest 4G wireless or wifi and enjoy best in class high frame rate, high resolution and low latency. Join with a 3G connection and Fuze Meeting will dynamically adapt with the highest quality video possible.
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Fuze Meeting Gateway—extending the life of your legacy investments

If your company made significant investments in telepresence systems, why not extend the life of the investment? Fuze Telepresence Connect lets you connect your Polycom, Tandberg or other MCU-based systems to any Fuze Meeting video session. The gateway supports H.323 and SIP. H.264 and H.263 are supported for video and wide band audio.

Now your telepresence rooms can communicate with our cloud infrastructure over low-cost, general-purpose IP networks to deliver a quality video conferencing experience to all participants regardless of their location.

Using Fuze Telepresence Connect, all the packet loss will occur in the low reliability channel utilized as purely as an enhancement layer while delivering the high-reliability channel—or baseline layer—intact. Thus even under extremely adverse conditions, telepresence participants in a video conference will continue to see crisp images and smooth motion.

By contrast, traditional video conferencing systems are highly sensitive to packet loss. Dropped frames add significant latency, which in turn makes for blurred motion and choppy images on the receiving end. As a consequence, other systems break with as little as 5% packet loss.
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Fuze Meeting cloud-based video router—a video conferencing breakthrough
At the heart of the Fuze Meeting Video Conferencing system is the Video Router, a breakthrough in video conferencing technology that introduces the first major architectural and deployment change in decades. All video encoding and decoding occurs at the endpoints—leaving only video routing to be accomplished within the Fuze Meeting cloud itself. Fuze Meeting's intelligent Video Router ensures packet-switching is handled with optimal efficiency—without either degrading the quality of the video or adding noticeable latency. The Video Router significantly improves network utilization efficiency by sending along only as many packets as an endpoint is capable of handling, due either to limitations in bandwidth, processing power or screen resolution. And because the amount of processing power and bandwidth available is dynamic, the Video Router constantly tests and recalibrates what it should be passing along ensuring that each endpoint is provided with the highest quality video it's capable of receiving—even as local conditions change from one minute to the next.

Since it’s built in our cloud, you don’t need to deploy costly video encoding and routing equipment in your enterprise. Instead, Fuze Meeting manages capacity, redundancy and global presence so all you need is an internet connection enjoy high definition video conferencing.

Features and Benefits

- SCALABLE MULTIPOINT HD VIDEO CONFERENCING: High resolution and high frame rate encode and decode at multiple frame rates and resolutions
- STANDARDS-BASED CODING TECHNOLOGY: H.264/AVC/SVC based
- ERROR RESILIENCE: Maintains continuous high-quality video without broken pictures or other artifacts in environments with high packet loss
- RESOLUTION AND RATE MATCHING: Supports sending video to multiple endpoints with different bandwidths and resolution capabilities without transcoding
- DYNAMIC RATE CONTROL: Automatically and continuously senses the current network condition and adjusts bit rates accordingly
- ERROR LOCALIZATION: Individual client network errors do not affect other conference participants
- BUILT-IN INVESTMENT PROTECTION: Allows for the incorporation of legacy video conferencing equipment
- FIREWALL/NAT TRAVERSAL: Embedded functionality that provides a safe and secure connection through any firewall with no feature loss and no additional equipment required
- EASY TO USE WEB-BASED INTERFACE: A consistent environment across endpoints with single-click action buttons
- PERSONAL VIDEO LAYOUT: Gives each user independent control over received video layout – as opposed to one prescribed layout for all in MCU-based system