VIEW EVENTS AND ACTIVITIES AS THEY HAPPEN

WAVE PTX STREAMING VIDEO

MOTOROLA SOLUTIONS

SEE A REAL-TIME VIEW OF EVENTS AS THEY HAPPEN

How many times has someone said, "if they could only see what I see" when trying to convey verbally to another person what's going on around them? That's because using words to paint a mental image of what's happening at that moment can be a frustrating and time consuming experience.

Whether someone is a shopping mall security guard watching a food fight grow, an HVAC technician experiencing problems with a new install procedure or an EMT dealing with a critical patient, the ability to stream video in real time is the key to increasing the speed and clarity of their communications.

Compliant with the 3rd Generation Partnership Project (3GPP) Mission Critical Video (MCVideo) standard, WAVE PTX Streaming Video makes it possible for users to push live video to individuals, groups, or dispatchers. The result is increased situational awareness for dispatchers, supervisors, and other recipients because they have a real-time view of events and activities as they happen.

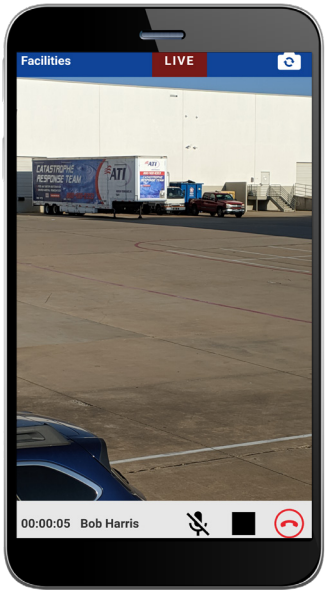
COMBINE VIDEO AND AUDIO IN A SINGLE, INSTANTANEOUS COMMUNICATIONS SESSION

The optional Streaming Video feature allows WAVE PTX broadband PTT mobile users to push live H.264 video, with audio, from their device's integrated camera(s). The streaming video recipients can be any assigned contacts or groups that are capable of receiving video calls. Each video session can have just a single originator, and each participant can have only one active video call at a time.

To stream video to an individual, the originator taps the Contacts button to display the list of contacts and selects the one with whom to start a video call. To start the one-to-one video call, the originator taps the video icon located to the left of the on-screen PTT button. When the contact accepts the incoming video call, streaming begins. To end the streaming video call, either the originator or recipient can tap the end call button.

To stream video to a group, the originator selects the talkgroup for the video call. To start the group call, the originator again taps the video icon located to the left of the PTT button. Streaming starts when the first member of the talkgroup accepts the incoming video call, and the stream is available to any member of the group that is configured to receive group video. Please note that originators can make a streaming video call to a talkgroup even if they are not configured to receive group video calls.

For both individual and group streaming, the PTT call audio and video audio can be mixed, or the PTT call audio can have priority. In addition, the originator has the option of choosing which camera, front or rear, to broadcast. The originator can also tap the video call screen to minimize the video, and tap the microphone icon to mute or unmute the audio sent with the live video stream.



THEY SEE WHAT I SEE

By integrating streaming video in a single push-to-talk application, originators have a tool that brings the robustness of face-to-face communications to remote communication.

Because recipients see what they are seeing, originators can combine video and voice in a single, instantaneous communications session to increase the speed and efficiency of their communication.

GET INFORMATION WHEN AND WHERE YOU NEED IT

Streaming video can be received as a one-to-one or talkgroup call via the WAVE PTX mobile and dispatch applications.

To receive a talkgroup video call, recipients must be configured to receive group video calls by the WAVE PTX administrator. One-to-one and quick group video calls, however, can be received as long as the intended recipients have the video streaming feature enabled. Recipients can receive streaming video calls from any talkgroup to which they are assigned and, unlike PTT voice calls, streaming video calls are received regardless of the selected talkgroup or talkgroup scanning mode.

Incoming streaming video calls will generate an alert on the recipient's device. From the Incoming Video Call alert, recipients can select Accept to receive the call or Decline to reject the call.

When a PTT call and video call are both active, the PTT call audio has priority over the video audio unless the recipient chooses to mix the PTT call and video audio. Recipients can also leave an ongoing video call and rejoin later from the WAVE PTX application history, assuming the streaming video call is still in progress.

Another unique capability of the WAVE PTX Streaming Video feature is its ability to adapt to different network conditions, including available bandwidth, to provide recipients with a continuous video stream.

NOW I UNDERSTAND

Streaming video and WAVE PTX broadband PTT make it possible for recipients to get information when and where they need it, enhancing their contextual understanding and increasing situational awareness.

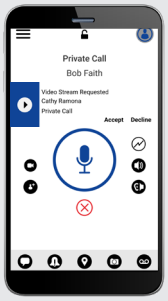
INITIATE VIDEO SHARING FROM THE DISPATCH APPLICATION

The optional Streaming Video feature also allows someone using the WAVE PTX dispatch application to "pull" live video from another user's device. The targeted user has the option of accepting or declining (based on the Auto Answer Video Call setting) when the incoming video stream request is received. If the user accepts the request, the video stream will be sent as a one-to-one call to the dispatcher.

To initiate a pull request, dispatchers click the Streaming Video icon next to the desired contact, or right click on the contact and select Open Video Stream. From the Message tab, dispatchers can also click the Streaming Video icon on the fleet member message block.

There may also be situations where a dispatcher wants to "pull" a video stream automatically. The WAVE PTX administrator must enable this function for the dispatcher before it can be used and the user's Allow Unconfirmed Video Transmission parameter must be set to ON.

Once video streaming starts, the video is shown within a separate block in the dispatch browser tab, with the option to move the block anywhere within the tab as needed.



WAVE PTX STREAMING VIDEO IN ACTION

Getting the right information to the right people when it is needed most is the key to improving the effectiveness and efficiency of personnel in the field. Whether broadcast by a user or pulled by a dispatcher, WAVE PTX Streaming Video increases clarity and improves situational awareness, resulting in faster, more accurate communication in the moments that matter. These use cases showcase how different roles can use WAVE PTX broadband PTT and Streaming Video to enhance the exchange of information.

PRIVATE SECURITY OFFICER

Private security officers are deployed in office buildings, shopping malls, stadiums, schools and other venues to protect people and property and enforce company rules. To function effectively, officers need to be able to communicate quickly and clearly with dispatchers and supervisors when an incident occurs.

For example, a security officer working in a shopping mall uses WAVE PTX and Streaming Video to quickly communicate with supervisors about a fight taking place in the food court. Because the officer is able to communicate the type of event and its location, along with video showing the intensity of the fighting, supervisors are able to quickly understand the true nature of the incident and organize an appropriately sized response.

HVAC TEAM SUPERVISOR

An HVAC installation team at a customer site needs assistance with the startup procedure for an air conditioning system with a new central controller. This is the first time the new controller is being installed and the instructions in the field manual aren't working.

The crew supervisor uses broadband PTT and streaming video to communicate with an engineer at headquarters, showing the engineer in real time the difficulties encountered when they follow the procedure. As a result, the engineer is able to quickly identify the problem and communicate a correction to the supervisor. By using WAVE PTX and Streaming Video, the time to correct the mistake is reduced, a second site visit is avoided and the productivity of the crew is increased.

EMERGENCY MEDICAL TECHNICIAN

Emergency Medical Technicians (EMTs) are responsible for providing medical assistance to accident victims and other patients during transport to a hospital. EMTs must quickly assess and communicate a patient's condition to trauma center physicians and other specialists.

WAVE PTX and Streaming Video provide EMTs with the speed and efficiency of push-to-talk combined with the power and flexibility of video communications. With this combination, EMTs can simultaneously share a patient's information, such as heart rate, blood pressure, and temperature, while also providing trauma center personnel with a real-time view of their skin color, facial expression and alertness. Providing doctors with the complete picture of a patient's condition before arrival is key to getting them the care they need quickly.

For more information about WAVE PTX, visit: motorolasolutions.com/wave

NEXT GENERATION EVOLUTION WITH A DEDICATED TECHNOLOGY LEADER

We build software for mission-critical environments where every second matters. WAVE PTX Streaming Video and other applications in our CommandCentral software suite unify data and streamline workflows from call to case closure in order to put your information to better use, improve safety for critical personnel and restore your focus on the communities you serve. Backed by a trusted, 90-year veteran with proven public safety leadership and the industry's first and only mission-critical ecosystem, our suite is transforming the public safety experience. Combined with unified radio and broadband communications, video intelligence and analytics and world-class services, our ecosystem is the technology lifeline your mission depends on. Our mission is to never stop advancing it.

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