

# WAVE PTX EMEA

## Information

### Solution Overview

WAVE PTX is an operator-independent multimedia communication subscription service that instantly connects your team at the push of a button. Hosted on the Microsoft Azure cloud, WAVE PTX is a secure and robust service allowing customers to securely connect their geographically distributed & diverse workforce in order to be more productive.

Personnel can communicate with WAVE PTX from a variety of user devices, including smartphones, tablets, computers, or purpose-built broadband radios from Motorola Solutions. Each device licensed to use WAVE can transmit and receive PTT voice communications and access a set of data features. The exact features available depend on the software and user devices connected to WAVE PTX. Motorola Solutions is proposing an initial package of WAVE PTX licenses to enable you to operate a device fleet with the features required by your users.

#### INSTANT COMMUNICATION

Get the speed and simplicity of professional radio PTT communication  
or share the details via text, photo, video or file attachment.

#### EUROPEAN-WIDE SERVICE

Connect your professional radio system  
to WAVE and reach more team members  
over a wider service area.

#### PREDICTABLE COSTS

Manage your cash flow with low-cost-per-user subscriptions, no capital expenses and no long-term commitments.









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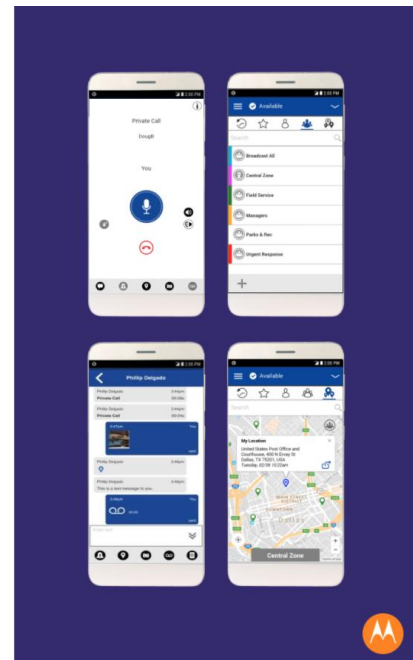
## Information

### WAVE PTX Key Features

#### WAVE PTX MOBILE APPLICATION

SINGLE APPLICATION. MULTIPLE MEDIA.

-  PTT Communications
-  Text Messaging
-  Location Services
-  Photo and Video Sharing
-  Real-Time Presence
-  Voice Message Fallback



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**PTT Communications** – Fast, secure and reliable PTT voice communication at the touch of a button. Collaborate with an individual, predefined group or ad-hoc groups created on the fly.

**Integrated Secure Messaging** – Push text, video, audio, photos and files to individuals or groups. See threaded history for communication details. Store and forward is supported for offline use.

**Mapping and Location** – Find an address, coordinate a meeting place or share your location with others.

**Photo and Video Sharing** – Take a photo or record a video and share with your team for instant clarity of information.

**Voice Messaging** – Leave a message when a contact or group members are unavailable. WAVE will automatically deliver the message when users become available.

**Real-Time Presence** – Set your status and see who is available with real-time presence information – Available, Do Not Disturb or Offline.








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### WAVE PTX SafeGuard Key Features

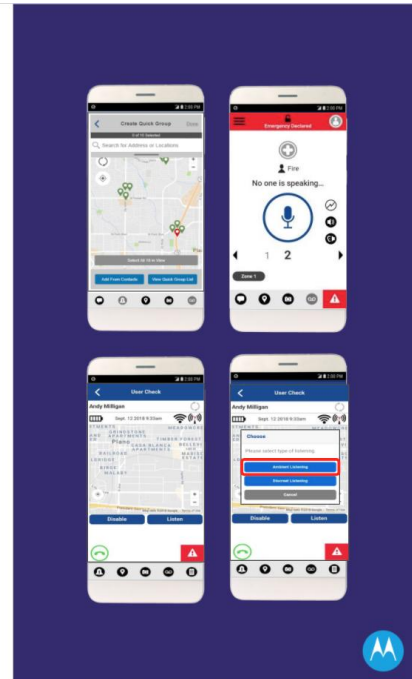
#### WAVE PTX SAFEGUARD FEATURE SET

ENHANCE SAFETY. IMPROVE SITUATIONAL AWARENESS

- |  |  |
|--|--|
|  Emergency Calling    |  Remote User Check            |
|  Ambient Listening*   |  Enable/Disable               |
|  Discreet Listening*  |  Location based communication |
|  LMR Interoperability |  |

\* Your agreement with us requires you to comply with applicable law as an authorized reseller or distributor of Motorola Solutions' products and services. If you intend to make these features available to your customers, you should seek guidance on any requirements or restrictions on the sale or enablement of these features in the territories within which you sell.

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The WAVE PTX SafeGuard subscription packages provides the following additional functionality

**Emergency Calling & Alerting** - Users press hard or soft dedicated button to initiate emergency call

**Remote User Check** - Monitor health of user's device, including battery, signal, and location

**Ambient Listening** - Check on user's well-being by remotely opening device's microphone

**User Enable/Disable** - Remotely enable or disable PTT function on specific devices

**Discreet Listening** - Monitors PTT calls between targeted user and other callers

**Location-based Communication** - Select users from map for ad hoc PTT calling

**LMR Interop** – connect to MOTOTRBO system to expand communication

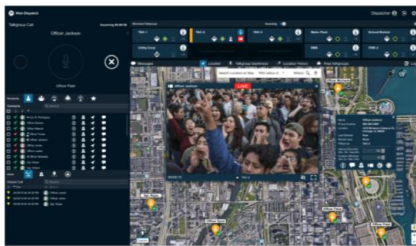
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### WAVE PTX Video Streaming Add On

This is an Add On, which provides video streaming capabilities from the WAVE Mobile App, allowing the user to stream to other WAVE Mobile App users and WAVE Dispatch users. This add on must be purchased as well as a WAVE PTX Mobile App or WAVE PTX Dispatch subscription

#### **I STREAMING VIDEO OVERVIEW**



- Push Video – mobile user initiated streaming
- Pull Video – dispatcher initiated video
- Video streamed to individuals, defined groups or ad hoc groups
- Simultaneously stream video and initiate/receive PTT calls



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### Solution Components



All of these components are managed through the WAVE PTX Admin Portal

### WAVE PTX Mobile App

The WAVE PTX Mobile App enables a smart device to function as a full-featured business PTT handset. Teams can take advantage of data communication for better coordination, using features like multimedia data messaging, presence sharing, and location sharing. In addition to the basic capabilities, the WAVE PTX Mobile App enables advanced functions on the user's smart device.

- **Integrated Secure Messaging** – Enables users to exchange secure text messages, multimedia content, and location information with other users on the network.
- **Broadcast Calling** – Allows designated PTT users to initiate a preemptive one-way call to a large group of people at the same time.
- **Background Call Mode** – Alerts users to incoming PTT calls while they are using applications other than the client.
- **Priority Talkgroup Scanning** – Enables users to select up to eight talkgroups to monitor, with up to three set up as prioritized groups. When a call is active on one of the talkgroups, the device automatically joins it.
- **Voice Message Fallback** – Automatically records and sends a voice message when a user initiates a PTT call but the recipient is not available.
- **Talker Priority** – Supervisors of a group can preempt other talkers during a group call.
- **Location Sharing and Tracking** – Allows users to track team members' location and share their own location, enhancing team safety and awareness.
- **Presence** – Shares user presence & status provides the presence status of other users.
- **Quick Groups from Map** – Quick groups of up to 10 devices can be built from the map in the client application.
- **Geofencing** – Defines a virtual boundary that allows a supervisor to monitor location activity for all talkgroup members, with alerts generated any time a member crosses the fence boundary.

Depending on the user's needs, the WAVE PTX Mobile App can be configured with a smartphone or Push-To-Talk radio-style interface that determines user navigation and access to functions.

### WAVE PTX Dispatch

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WAVE PTX Dispatch enables your dispatchers to efficiently manage teams, communicating key information to field users via PTT and multimedia messaging. Whether they are in the office, at home, or in the field, dispatchers can use WAVE PTX Dispatch to coordinate teams.

In addition to direct communication, dispatchers can retrieve user info, user location tracking, device location history, informational map layers, and network logs. With this application, your dispatchers receive the following advanced features.

**Integrated Secure Messaging** – Enables dispatchers to exchange secure text messages, multimedia content, and location information with other users on the network.

**Broadcast Calling** – Allows dispatchers to initiate a preemptive one-way call to a large group of people at the same time.

**Priority Talkgroup Scanning** – Allows dispatchers to select up to 20 talkgroups for monitoring, with three that can be set up as prioritized groups. When a call is active on one of the talkgroups, the device automatically joins it.

**Voice Message Fallback** – Automatically records and sends a voice message when a user initiates a Push-To-Talk call but the recipient is not available.

**Talkgroup Priority** – Dispatchers can preempt other talkers during a group call.

**Presence** - Dispatchers can share their presence status and check the presence status of other users.

**Quick Groups from Map** – Quick groups of up to 10 devices can be built from the map in the client application.

**Geofencing** – Defines a virtual boundary that allows a dispatcher to monitor location activity for all talkgroup members, with alerts generated any time a member crosses the fence boundary.

**Location Tracking and History** – Dispatchers can track the path traversed by the user devices on the network. The traversed path's points will show the device name, phone number, near location, arrival time, departure time, and time spent at that particular location.

**Logs** – Provides dispatchers with access to information on recent activities, including alerts, PTT calls, audit logs, geofence logs, location reports, and recorded calls.

**On Demand Location Updates** – Dispatchers can retrieve the location of a user device whenever needed, either on demand or periodically with a set cadence.

As a cloud-based application, WAVE PTX Dispatch is accessed by logging in securely from Windows 8.1/10 devices with an internet connection and a Chrome/Internet Explorer web browser.

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### WAVE PTX Radio TLK 100

Get all the benefits of WAVE and a rugged two-way radio. Purpose-built for business, everything about the WAVE PTX TLK 100 radio is designed to improve worker communication and effectiveness. Whether it's location tracking and Wi-Fi calling, or the rugged design without an attention-diverting screen. Add accessories that fit the way you work and extend the value of previous purchases with compatible MOTOTRBO SL1600 accessories.

**Powerful and slim design** - Move seamlessly from the field to the office with a streamlined device that supports one-handed use. Communicate with a single co-worker or the entire team using the push-to-talk button. Hear conversations clearly in noisy environments with loud and clear audio.

**Built tough** - Never worry about rain, dust, extreme temperatures or even the occasional drop. The WAVE radio is designed to perform in harsh working environments.

**Location tracking** - Easily manage your workforce using GPS to maximise safety, check project status, find faster routes, modify tasks, and position team members where they're needed most.

**Wi-Fi connectivity** - Stay in touch inside industrial buildings and other environments where cellular coverage may be limited by sending and receiving push-to-talk calls over compatible Wi-Fi networks.

**Long battery life** - Rest assured that you'll have power when you need it most. With a battery that is designed to last 18 hours, you can focus on the project instead of worrying about recharging.

**Screenless design** - Maximise productivity by minimising the distractions of email, text and other apps while empowering your team to focus on the job at hand.

## Security

The WAVE PTX service is a secure offering which provides multiple levels of protection at each layer of the solution. you can rest assured that your voice & data communications are secure.

**Cloud security** - Azure Portal administration and back-end OAM PTT application server access is protected through Azure's Multi-Factor Authorization (MFA) service and through MSI's 2-Factor and AD authentication for operational users accessing OAM VLAN ports respectively.

**Role based access control** - The WAVE EMEA solution has multiple types of account access: Operational VM users, Operational EMS users, Customer Care Web users (WCSR), WAVE Administration Portal users to manage customers, contacts & groups, and WAVE Dispatch users.

**Subscription security** - Mobile subscribers for PTT service are provided one-time activation codes from the WAVE Administrator during the on-boarding and provisioning process. Activation codes are time sensitive and are sent securely over email to PTT recipients.

**Client encrypted communications** – Motorola's WAVE Mobile App utilizes FIPS 140-2 Level 1 compliant cryptographic algorithms to protect users from unauthorized call interception and monitoring, as well as providing secure alerting and contact management. The WAVE application and server negotiates the level of security supported during both signalling and media sessions. Call signalling, media, integrated secure messaging and contacts/groups management sessions negotiate with servers using FIPS 140-2 level 1 validated ciphers: Advanced Encryption Standard (AES)-256 within TLSv1.2



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WAVE PTX FEATURES	WAVE PTX			WAVE PTX SAFEGUARD		
	BYOD	DISPATCH	TLK-100/150	BYOD	DISPATCH	TLK-100/150
PTT (PRIVATE AND GROUP CALLING)	●	●	●	●	●	●
PRESENCE	●	●	ONLY REPORTING (ON/OFFLINE) + DND TLK150	●	●	ONLY REPORTING (ON/OFFLINE) + DND TLK150
INSTANT PERSONAL ALERT (IPA)	●	●	●	●	●	●
SECURE MESSAGING - TEXT, IMAGE, VIDEO, LOCATION, DOCS	●	●		●	●	
VOICE MESSAGING	●	●		●	●	
TALKGROUP MONITORING		●			●	
PRIORITY TALKGROUP SCANNING	●	●	●	●	●	●
BROADCAST CALLING/MESSAGING	●	●	ONLY VOICE	●	●	ONLY VOICE
GEOLOCATION	●	●	ONLY REPORTING	●	●	ONLY REPORTING
LOCATION HISTORY		●			●	
LOGS (AUDIT, CALLS, MESSAGES, LOCATION)		●			●	
GEOFENCE	●	●		●	●	ONLY REPORTING
QUICK GROUP FROM MAP	●	●		●	●	
EMERGENCY CALLING AND ALERT				●	●	● TLK-100 NO PROG. BUTTON
AMBIENT AND DISCREET LISTENING				●	●	●
USER-CHECK AND USER-MONITOR				●	●	ONLY REPORTING
AREA BASED DYNAMIC GROUP				ONLY REPORTING	●	ONLY REPORTING
WAVE PTT LMR INTEROP				●	●	●
WAVE PTT STREAMING VIDEO	ADD ON	ADD ON		ADD ON	ADD ON	