New Trends for Critical Communications

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AGENDA

TRENDS & CHALLENGES

SOLUTION OVERVIEW

Q&A
ADOPTION OF NEW DEVICES AND NETWORKS

Broadband Everywhere
- Public and Private 3G/4G LTE
- Public and Private WiFi
- Enterprise LAN/WAN

Smartphones & Tablet growth
- BYOD Movement - Android, iPhone
- Consumer & Customized
Emergency Response

- Responders and agencies not always prepared for joint operations/responses

Variety of LMR equipment in use

- UHF, VHF, 800Mhz, P25
- Various analog/digital systems

CONNECT LMR SYSTEMS FOR BETTER COLLABORATION
I NEED TO DO **MORE WITH LESS**

How do I get more out of existing resources?

How do I meet the growing expectations of my community?

How do I better utilize my IT investments?

How can I better leverage LMR?
MOTOROLA’S VISION

Extend LMR communication effectively, securely, reliably and in real-time regardless of network, carrier or device!

WAVE – Wide Area Voice Environment
WAVE ENABLES UNIFIED WORK GROUP COMMUNICATIONS

Purpose-built Radio on Public Safety and Government Service Radio System

Specialized Smartphone on Optimized Broadband Network

Consumer-grade Broadband Device on Broadband Carrier

CRITICAL COMMUNICATIONS ACROSS ANY NETWORK ON ANY DEVICE

Land Mobile Radio

Public Safety LTE

Broadband Carrier/WiFi
THREE PILLARS OF WAVE

Extend
Radio to Broadband
Extend communications beyond radio to include modern devices and broadband networks ensuring greater workforce connectivity and interoperability

Broadband PTT
Broadband to Broadband
Secure, over-the-top PTT applications over public or private broadband networks provide customers greater device, network and use-case flexibility

Connect
Radio to Radio
Connect disparate land mobile radio systems and remove barriers to interoperability and mutual aid
A COMPREHENSIVE COMMUNICATION SOLUTION

EXTENDING REACH to radio users beyond the radio system, enabling connectivity to broadband networks and other radio systems.

ENHANCING CHOICE for users who cannot or do not carry a radio, but still need occasional interoperability with radio users.

INCREASING PRODUCTIVITY by enabling non-radio users to collaborate efficiently via secure voice and data.
WAVE Communicators Provide the User Interface to a WAVE Communications System

WAVE Mobile Communicator
- Consumer Grade
- Custom Device

WAVE Desktop Communicator

WAVE Dispatch Communicator

WAVE Web Communicator

WAVE Lync & WAVE SharePoint Communicators
• Android and iOS, BYOD Support

• Public PTT for team communications

• Private PTT for individual conversations

• Multichannel Support

• Tabbed Interface
  • Channels
  • History
  • Status & Presence
  • Maps

• AES 256 Encryption
MOTOROLA LEX L10

Purpose built public safety device, consumer based smartphone

Key Features:

• Motorola’s leading Public Safety optimized phone

• Full tactile PTT button

• Best in class audio with 1w dual speakers

• Best in class security FIPS 140-2 Level 3 CRYPTR

• Secure boot & hardened Android

• PS LTE band (B14) and Carrier LTE, Dual SIM

• X-Cap Battery – 20 hours

• IP67 / MIL-810G (4 ft. to concrete)

• Bright 4.7” HD display
- Instant Channel Replay
- Alert Broadcast
- Visual Activity Indication
- Call History and Presence
- Location Map
- Softphone Interface
• Basic Dispatching
• Selectable Audio
• Radio Channel Patching
• Phone Call Patching
• Broadcast Alerts
• Tone Alerts
• Tabbed Interface
• Audio Replay
• Softphone Interface
• Channel History
• Location Map
WAVE WEB/LYNC COMMUNICATOR

- Unique Profile for Every User
- Same User License for all Clients
- Group Calls across Systems
- Visual Activity Indication
- Call History
- Secure Communications
- Any Internet connection
One Device  4 uses

• Local – District Chat Channel
• School Bus Radio Channel (TRBO)
• Resource Officer Channel (P25)
• Emergency Channel (P25)
WAVE SECURITY

• **Secure Communicators**
  - Username and password for each user
  - AES 256 bit encryption on voice & data
  - Audio, control and credentials are all encrypted over broadband network

• **Secure System Operation**
  - Centralized system management and configuration
Q & A
THANK YOU