



WAVE™ Motorola Communications Platform

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COMPANY HISTORY



- **Twisted Pair established in 1999, Seattle-based software company with a global sales and services organization that is a whole-owned subsidiary of Motorola Solutions**
- **The most deployed Radio over IP (RoIP) interoperability and communications solution globally**
- **Defacto standard in defense markets transporting millions of secure PTT conversations in the most demanding and life threatening situations**
- **Acquired by Motorola January 2014**

Our WAVE® Software:

- **Provides secure, real-time communication anywhere across any device**
- **Delivers voice, location, presence and other forms of data via any data networks**
- **Built upon a battle-tested communications platform (AES Encrypted)**
- **Deployed within enterprise systems, private clouds and public cloud networks**
- **Meeting the needs of Commercial, Public Sector & Defense organizations worldwide**



TODAYS CHALLENGES



- **Budget Cuts**
- **Need to do more with less**
- **BYOD (Bring your own Device)**
- **BYOC (Bring your own Carrier)**
- **Outsourcing (you don't own the infrastructure or budget)**
- **Need for Cross Domain communication**
- **How do you leverage what you own?**



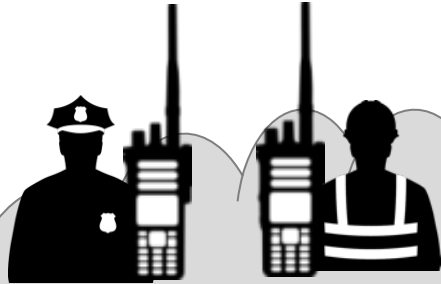
MARKET CHANGES



- **Sprint/Nextel orphaned over 6 million users**
- **Networks are more and more everywhere 3G,4G, LTE's,WiFi**
- **Smart phones and Tablets are common place**
- **Mobile devices are the new desktop (Line Of Business Applications)**
- **Many vendors – Why Motorola?**



WAVE ENABLES UNIFIED WORK GROUP COMMUNICATIONS



First Responders
Harsh Environments
Mission Critical



Covert Operations
Administrative
Traveling Personnel
Off-Duty/On-Call
Business Critical



Contractors
Temporary Staff
Key Operational
Local/State/Federal

CRITICAL COMMUNICATIONS ACROSS ANY NETWORK ON ANY DEVICE



Land Mobile Radio



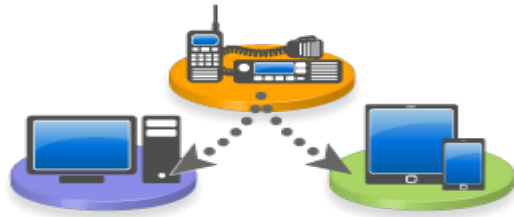
LTE's



Broadband Carrier/WiFi



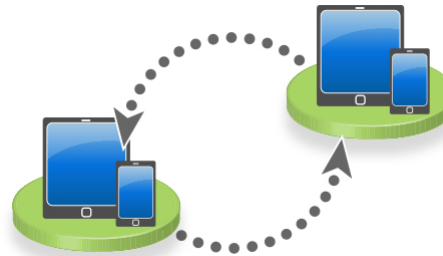
THREE PILLARS OF WAVE



Extend

Radio to Broadband

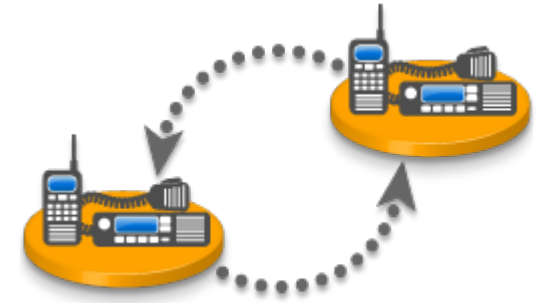
Extend communications beyond radio to include modern devices and broadband networks ensuring greater workforce connectivity and interoperability



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



Interoperability

Radio to Radio

Connect disparate land mobile radio systems and remove barriers to interoperability and mutual aid





WAVE COMMUNICATORS



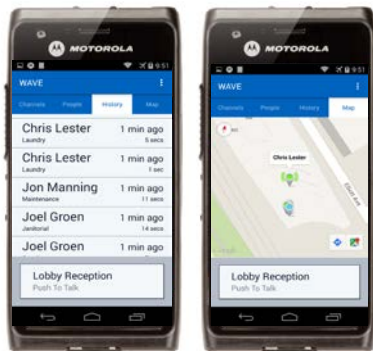
WAVE Communicators (The right tool, for the right job!)

WAVE Mobile Communicator

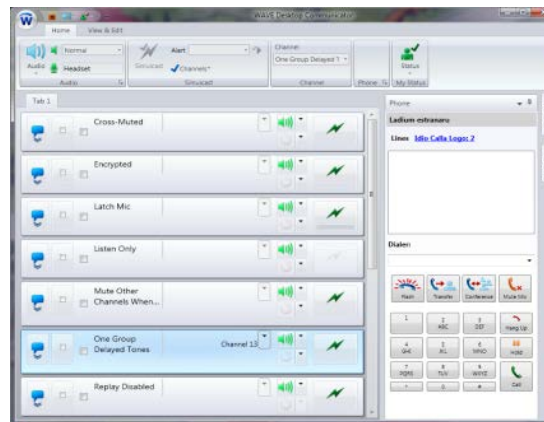
Consumer Grade



Custom Device



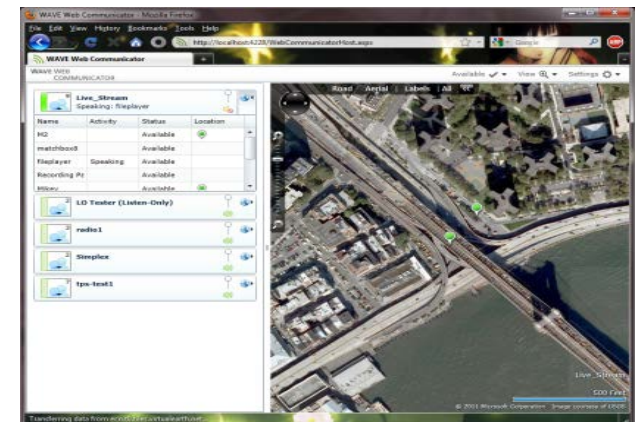
WAVE Desktop Communicator



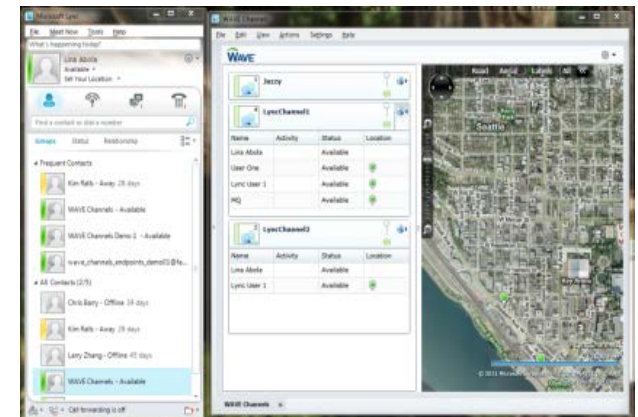
WAVE Advanced Desktop



WAVE Web Communicator



WAVE Lync & WAVE SharePoint Communicators



WAVE MOBILE COMMUNICATOR



Android and iOS, BYOD Support

Supports Public PTT for team communications
and Private PTT for individual conversations

Multichannel Support

Channel Filter & Channel Volume Controls

Selected Channel

- History

- Status & Presence

- Maps

Individual Calls

Settings

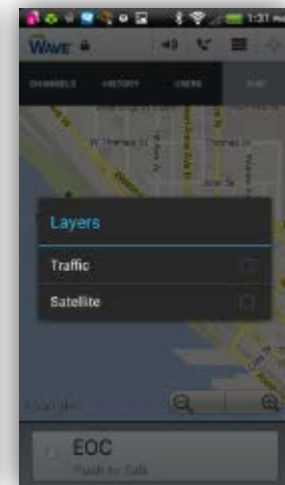
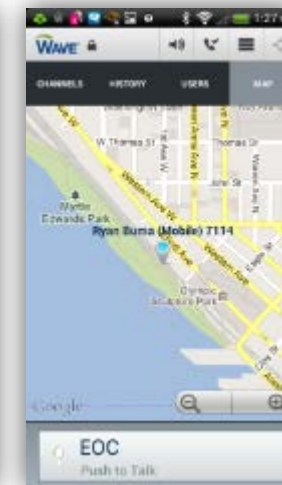
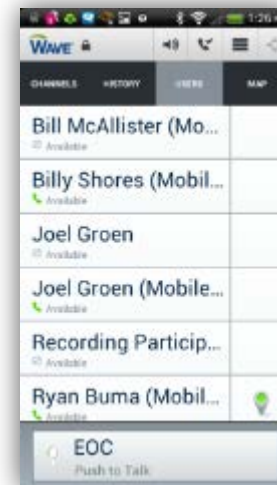
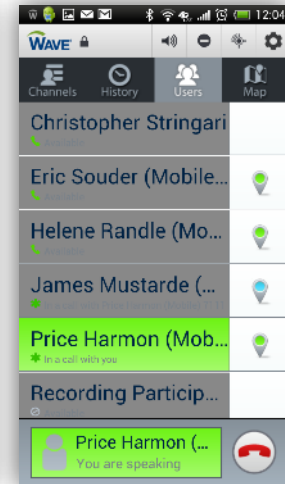
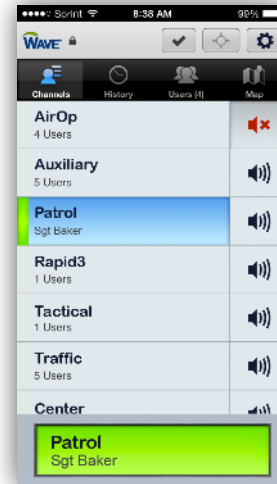
- Auto Start

- Auto Login

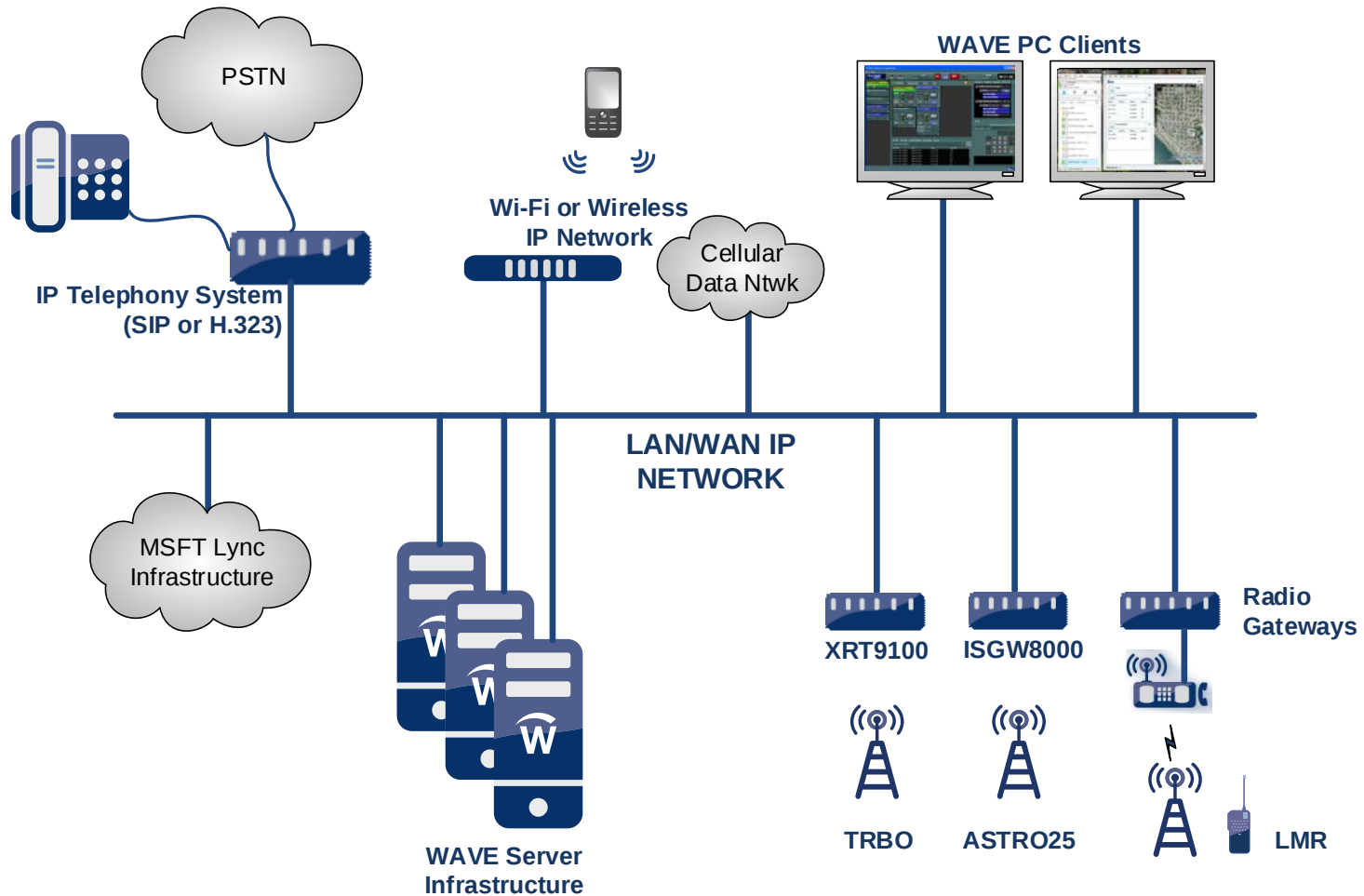
- Share Location

- Map Layers

Encryption Support up to AES 256



WAVE Architecture



WAVE CERTIFICATIONS



- DIA ATO for use on JWICS – Approved
- US Army Certificate of Networthiness – NIPR – Approve
- US Army Certificate of Networthiness – SIPR – Approved
- NATO Approved Fielded Products List
- US Navy ATO Site Specific to Keyport Navy Base Sponsor – DADMS ID 80812
- USAF ATO for use on SIPR – Pending – At AFNIC (UAS Sponsor Testing June – July 2012 as MacDill AFB)
- USAF ATO for use on NIPR – Pending – At AFNIC (Langley AFB ACC Sponsor)
- JITC UC APL – ‘Radio Gateway’ category to be added to UCR2013 (US Army Pacific Sponsor)



LEX L10 MISSION CRITICAL HANDHELD



Features ergonomics, durability and user interface designed for use in public safety

Interface

Tactile PTT button functions with Broadband PTT WAVE client

Loudest, most clear audio through dual 1W front facing speakers

Best in class noise suppression via 3 microphone echo cancellation

4.7" outdoor readable display with glove and water touch

Connectivity

Connects with Motorola P25 radios via mission critical bluetooth

Verizon 3G/4G LTE (auto fallback) and FIRSTNET LTE B14 (roaming)

Secure bluetooth pairing, WiFi 802.11n, GPS

Built Tough

Best in class security with FIPS 140-2 Level 3, secure boot, hardened Android and optional hardware CRYPTR Micro

Removable battery with 20 hours of use and 2x battery optimized

IP67 sealing – with inherently sealed connectors and plugs

Rugged charge & detect contacts for charging cradles

Gorilla Glass 3 - Scratch, pressure, impact, bacteria, chemical resistant





INTUITIVE OPERATION AND RUGGEDIZED



FRONT VIEW



Rubberized
Power/Mode Button

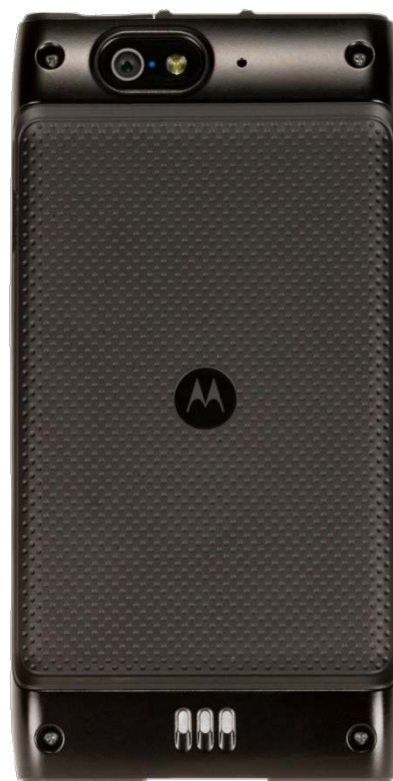
Tactile PTT Button

Up/Down Volume

4.7" Touch Screen

GORILLA GLASS 3
Scratch, pressure,
impact, bacteria,
chemical resistant

REAR VIEW



Rubberized Top
Surface

Removable Battery
Cover

IP67: 1 m, 30 min water
immersion

No-slip Grip Texture

Charger Docking Pins

Rubberized Bottom
Surface

MIL-STD 810G: 4 ft drop to concrete

SUMMARY

WHY MOTOROLA



- Enterprise Software Services for your communication needs
- Device Independence
- Network Independence
- Markets most flexible licensing
- Leverage What You Own
- Industry leading end to end communication platform from a Single Vendor



**THANK
YOU**