EXTENDING P25 TO BROADBAND

UNIFIED PUSH-TO-TALK

First responders will continue to rely on Project 25 (P25) radios for Push-To-Talk (PTT) communications for years to come. However, P25 users are also interested in extending PTT communications over 3G and 4G networks. This functionality allows broadband users to communicate with each other on their broadband devices, or their colleagues with P25 radios using talkgroups, and enables interoperability across the public safety enterprise, as well as with other agencies and organizations.

With Motorola Unified Push-to-Talk, agencies can now extend their PTT communications beyond an agency's LMR coverage footprint. It provides access for personnel in P25 local and regional talkgroups who are using broadband devices or smart phones on commercial carrier 3G/4G networks. And connecting for day-to-day tasks with Unified Push-to-Talk over 3G/4G networks preserves the P25 network for mission critical communication.

Chiefs and supervisors who may not always carry a radio or prefer a smaller form factor can monitor incidents and manage personnel from anywhere they have broadband coverage. And those who require covert operation or wish to remain discreet will also benefit from the ability to communicate with P25 users, without the need to carry a radio.

UNIFIED PUSH-TO-TALK

INSTANT COMMUNICATIONS

- One-to-one communication with alert call and barge call
- Group communication with enterprise and personal talkgroups
- Late call entry
- Talkgroup scanning with priority group override
- Selective group monitoring
- User presence with online/offline/busy status

INTEROPERABILITY

- Unified PTT across 3G/4G carrier networks and Public Safety 4G LTE (Band 14) networks
- Connect directly to ASTRO™ 25 or other P25 systems using ISSI
- Common talkgroups between P25 and broadband users
- Communicate between Public Safety LTE users, P25 users and users on 3G/4G commercial carrier networks

AGENCY MANAGEMENT AND CONTROL

- Contact list and talkgroups centrally managed and stored on server
- Easy and fast over-the-air programming for broadband handheld devices
- Quality of Service (QoS) controlled via Priority Manager on a Public Safety LTE network

MOTOROLA EXPERIENCE

One of the first companies to develop PTT capabilities over broadband cellular systems, Motorola has extensive experience designing, deploying and optimizing state-of-the-art PTT over cellular and wireless. Our public safety PTT service for broadband is a fully redundant client-server solution that connects to Public Safety LTE, P25 and 3G/4G commercial carrier networks to enable interoperability across multiple networks.

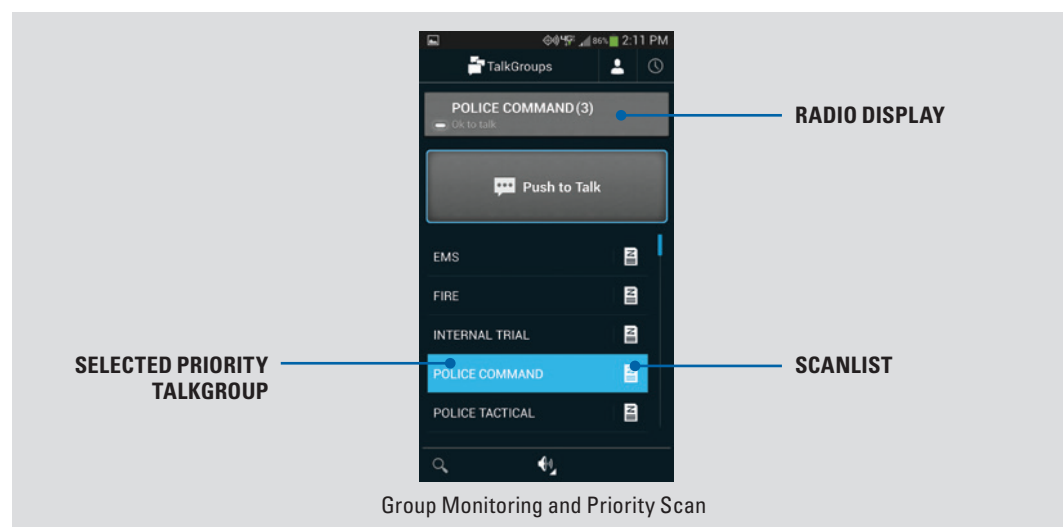## HARDWARE SPECIFICATIONS

REDUNDANT PTT SERVERS	
Platform	HP ProLiant™ DL380p G8
Power	Two 460W power supplies per server 120-240 VAC, 50-60 Hz
Rack Units	2 RU per server
SAS STORAGE ARRAY	
Platform	Dot Hill® SAS 2522
Power	436W power supply 100-240 VAC, 50-60 Hz
Rack Units	2 RU
PTT GATEWAY	
Platform	Oracle® Sun™ Netra™ X4270
Power	100-240 VAC 50-60 Hz Hot-swappable 760W power supplies
Rack Units	2 RU

Group Monitoring and Priority Scan

MOTOROLA