



Journey to MCPTT The Commercial Reality

IWCE 2017

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QoS / Priority



Voice Quality



Call Setup



Ruggedized



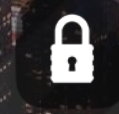
Network Coverage



PS Interoperability



Location Support



Security



Static QoS

- Resources committed and reserved ahead of calls based on user's provisioned level of service

Dynamic QoS

- Resources assigned dynamically when calls establishment

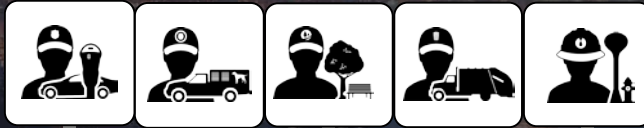
Policy-based QoS

- Dynamically based on policies in place:
 - User role
 - Application type
 - Location

Mission Support

Mission Critical

Use Cases



MCPTT Software & Network Capabilities



High Availability



LMR Interoperability



QoS Prioritization



App Program Interface



Location Support



End-to-End Security



Isolated Ops (IOPS)



Direct Mode (ProSe)



MC Video



MC Data



Elastic Scalability



Broadcasts (eMBMS)

2016 – 2017

2017 – 2018

2019 – 2020

Critical Patients Get Priority



Case

PTT communications from ambulances transporting critical patients require a higher priority.



Challenge

Ambulance QoS/prioritization needs to reflect its changing role, low for non-critical transport, higher when critical patients are onboard.



Solution

Policy-based QoS makes it possible to modify QoS/prioritization as the ambulance's role, location, or call type change.



Benefits

Network resources can be allocated selectively to those who need them most, such as ambulances transporting critical patients, rather than generically to all ambulances.



Courier Service



Case

A local courier service offers on demand pickup with same day delivery to its customers.



Challenge

Dispatcher receives last minute request for pickup and needs to quickly identify and communicate the order to a driver.



Solution

Using Broadband PTT, the Dispatch Console, Location information and Presence, a dispatcher quickly identifies the closest available driver and communicates the pickup information.



Benefits

Greater efficiency as the dispatcher can use one application to locate, assess availability and communicate with drivers, and increased customer satisfaction with reduced response times.

Fire Chief Out of Coverage



Case

Fire Chief out-of-town when large storm causes major flooding, requiring department-wide effort to rescue and evacuate residents.



Challenge

The Chief is out of coverage of the LMR network but still needs to communicate with front-line personnel on radios to help coordinate search and rescue efforts.



Solution

LMR interoperability and broadband PTT allow the Chief to use his smartphone to communicate directly with Battalion Chiefs and other front line commanders.



Benefits

A much more efficient and effective response, with the Chief helping to coordinate unit assignments and providing updates on resources coming from other departments.



Tracking Trades for Construction



Case

Site supervisors need to track which tradesmen are on a major construction site and which have left.



Challenge

Tradesmen and contractors cannot be depended on to let Supervisors know when they arrive or depart.



Solution

The Supervisor uses Broadband PTT with Location on Device to draw a geofence around the construction project, tracking when tradesmen in different groups come inside the fence or leave.



Benefits

Increased efficiency to easily identify who is on the site and quickly assign them to different projects.



An aerial night view of New York City, showing the dense skyline of Manhattan with numerous illuminated skyscrapers. The Hudson River is visible in the background, and the city lights create a vibrant, glowing effect against the dark sky.

KODIAK

Thank you

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