MISSION CRITICAL PUSH-TO-TALK

Will Land Mobile Radio, Ever Go Away?

LEE MASON

Mission-Critical Communications Account Manager ANZ

What is Mission Critical Push to Talk (MCPTT)

MCPTT is the global standard for PTT over Broadband
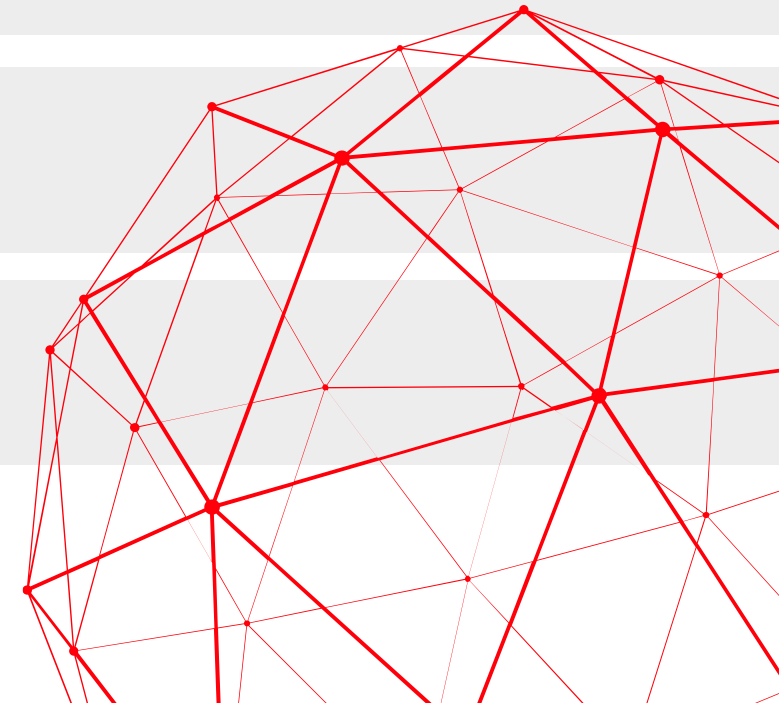
Based on 3GPP (The LTE Standards Body)

Ability to support priority and ruthless pre-emption

MCQCI's

Standalone service

Does not require a P25 network – Subscription license

Currently supports a limited feature set

MCPTT is Part of MCX

MCX refers to the stringent requirements for broadband critical communications for first responders.

MCX Services include:

- **MCPTT : (Mission Critical Push-To-Talk)**
  - Allows for establishing priority over the broadband network

- **MCData :(Mission Critical Data)**
  - Tank pressure, skin temperatures, heart rate, and other data points responders need to make effective decisions & situational awareness

- **MCVideo: (Mission Critical Video)**
  - "Groupified" Video from Dashcams, Body Cams, and any other camera streamed to your device to help in your mission

9 News, viewed 07 July 2024, https://www.9news.com.au/national/mark-veneris-denied-bail-over-christmas-day-brisbane-crash/dfdfc2da-38f6-4b01-9231-904eae6463ad

MCPTT Core Services

MCPTT provides core features you can expect from almost any broadband PTT service.

Real-time Presence: Know who is available to talk, who is offline or who is set to do-not-disturb mode.

TX / RX Permissions: Manage which users can initiate or receive calls for each talkgroup.

1:1, Group & Ad Hoc Group Calling: Select a preset talkgroup, create one on-the-go or select from your contacts list.

Supervisory Override: Allow designated users to prioritise their PTT at any time, even when others are talking.
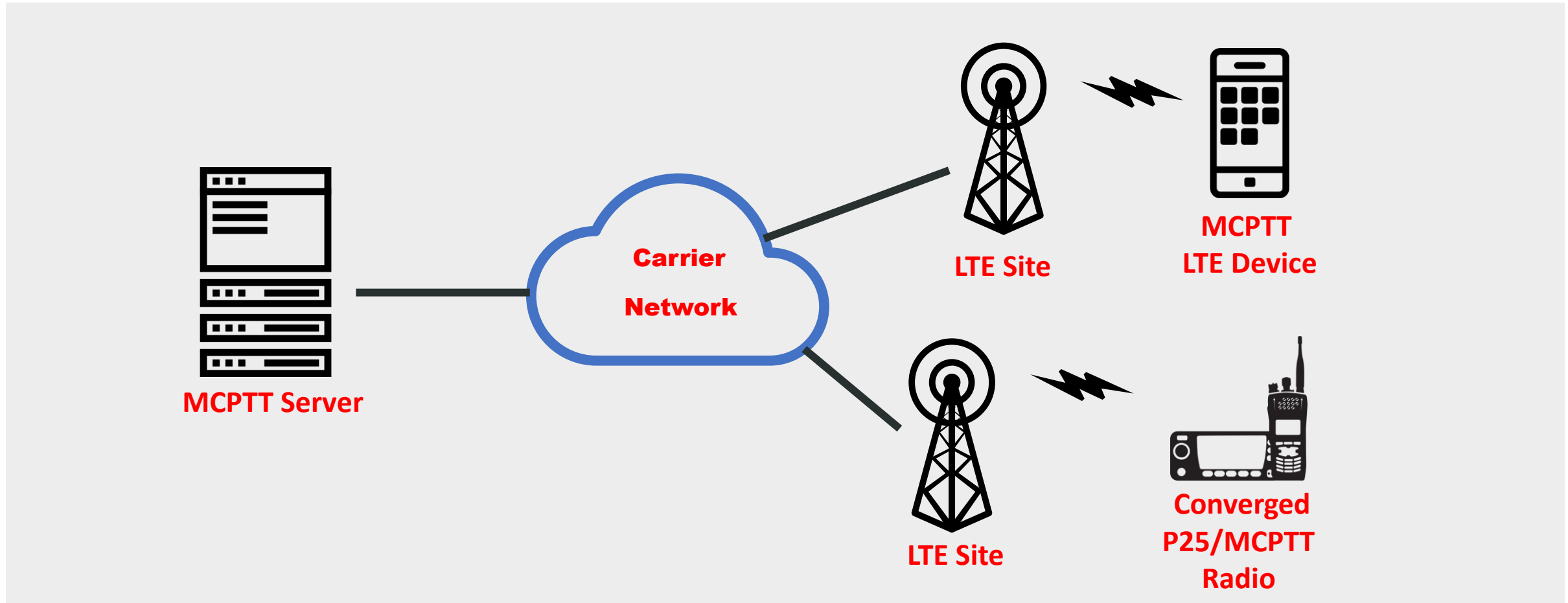
Personal & Missed Call Alerts: Request a call back or display a missed call alert.

Contact & Talkgroup Administration: Create, assign and update PTT contacts with user devices wirelessly, in real time.
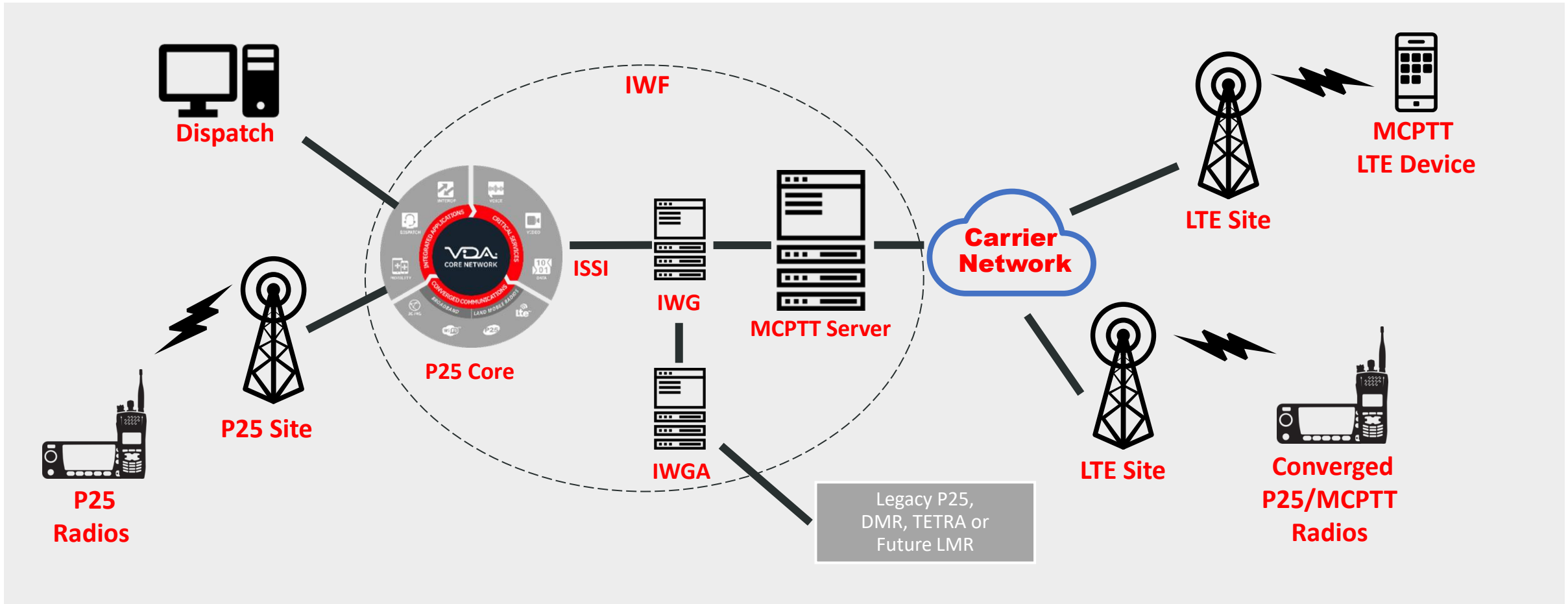
MCPTT Implementation Example

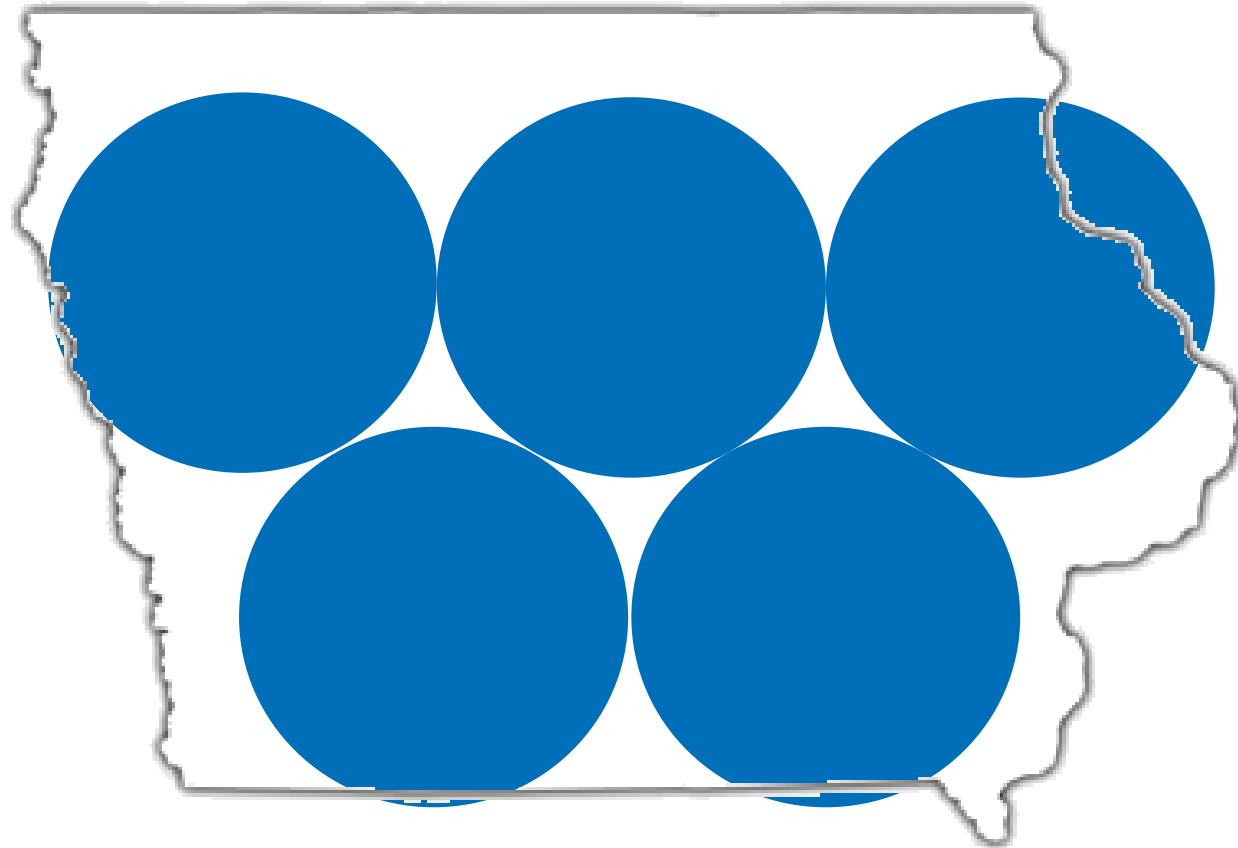**Connecting multiple public safety agencies operating on MCPTT**

MCPTT Server

Carrier Network

LTE Site

MCPTT LTE Device

LTE Site

Converged P25/MCPTT Radio

P25 Interworking with MCPTT Implementation Example

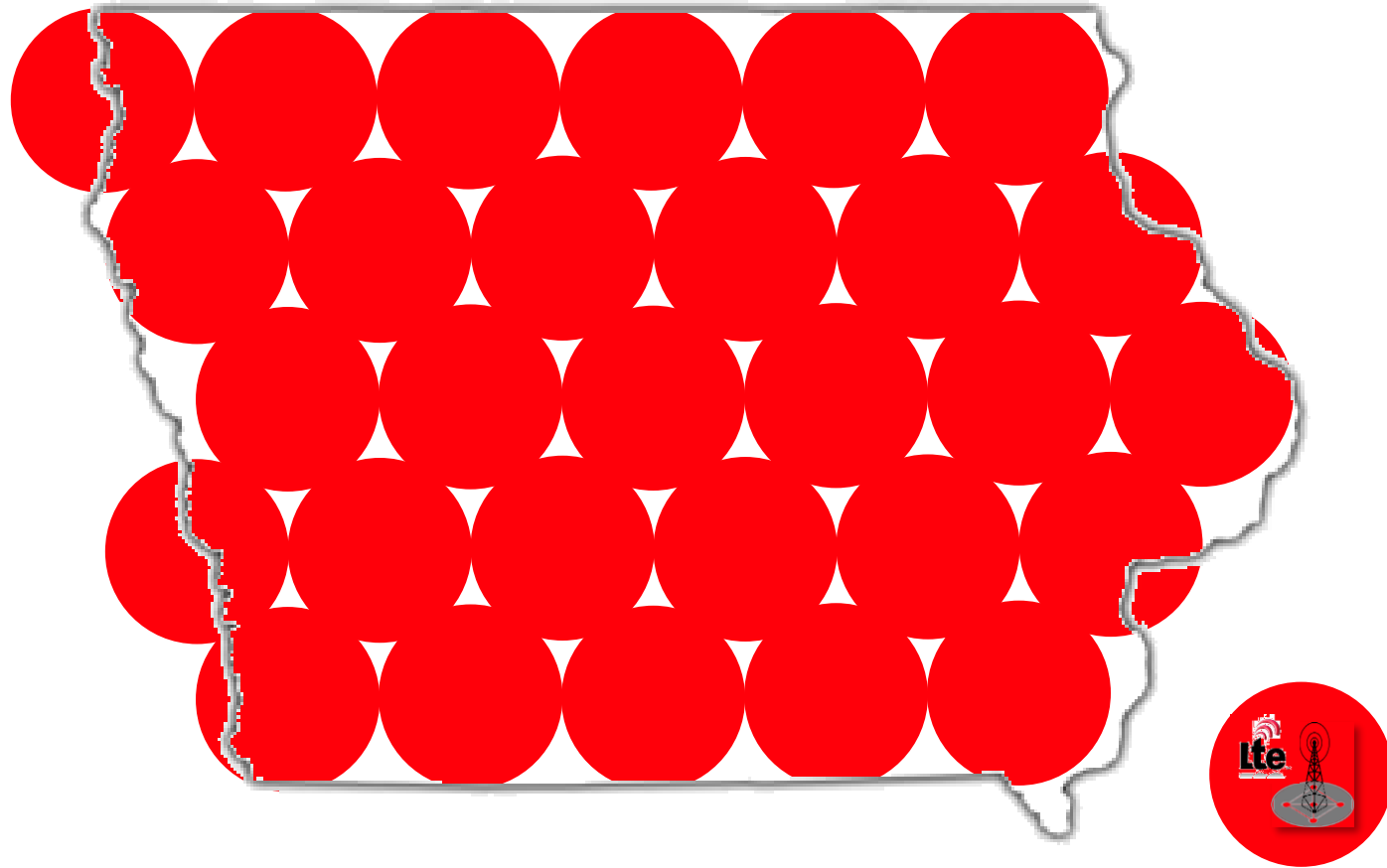**Connecting multiple public safety agencies operating on P25 networks and MCPTT**

LMR Only

- Traditional LMR Radios only

- Limited bandwidth for narrow band data comms (GPS & IOT devices)

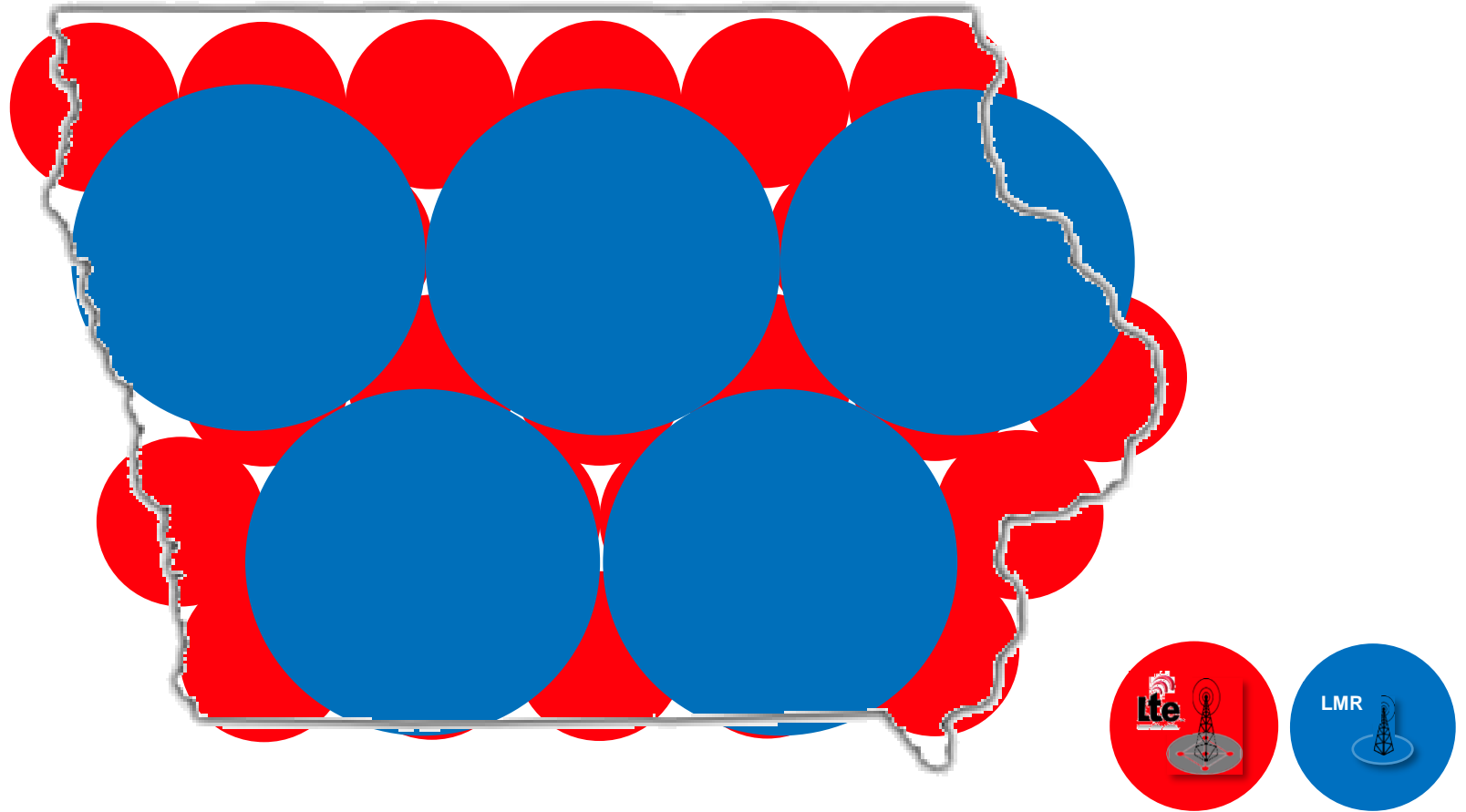

LMR

Broadband LTE Only

- Smartphones, Tablets & PCs, Routers
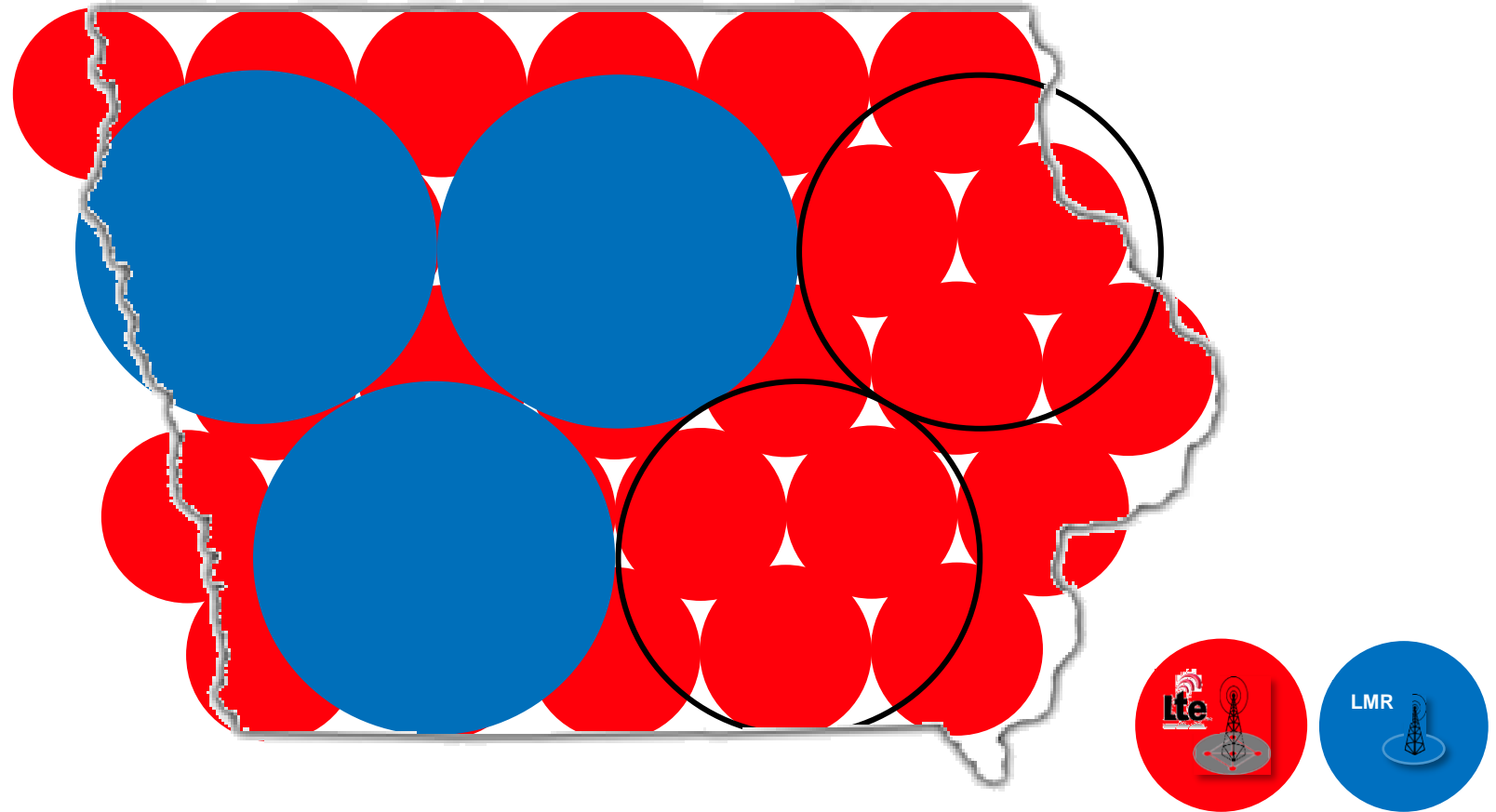
- Expanded bandwidth for data

Converged Network (LMR + LTE)

- Enhance/Extend coverage

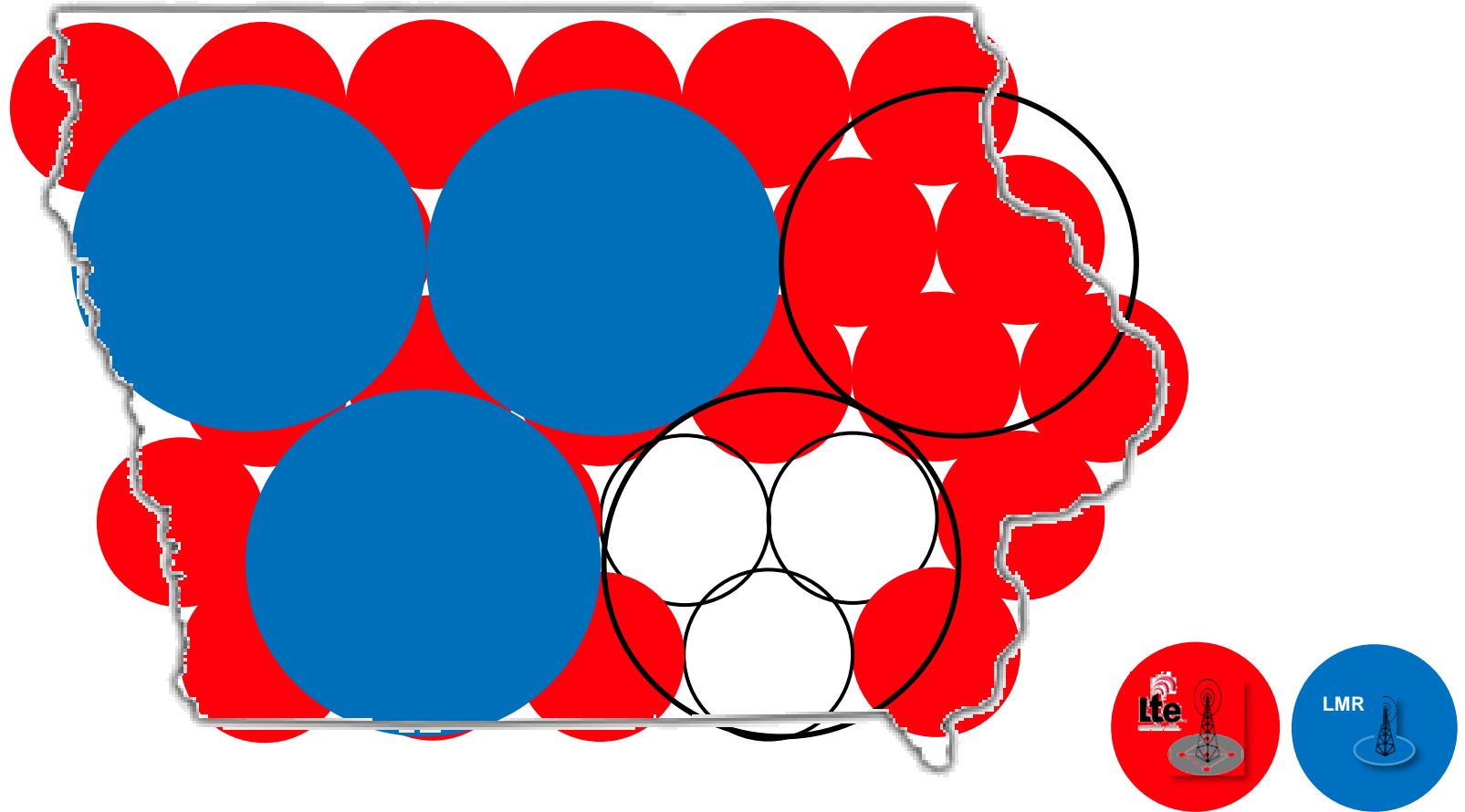- Converged Radios utilise LMR first, LTE second

Converged Network (LMR + LTE)

- Reduced LMR outages

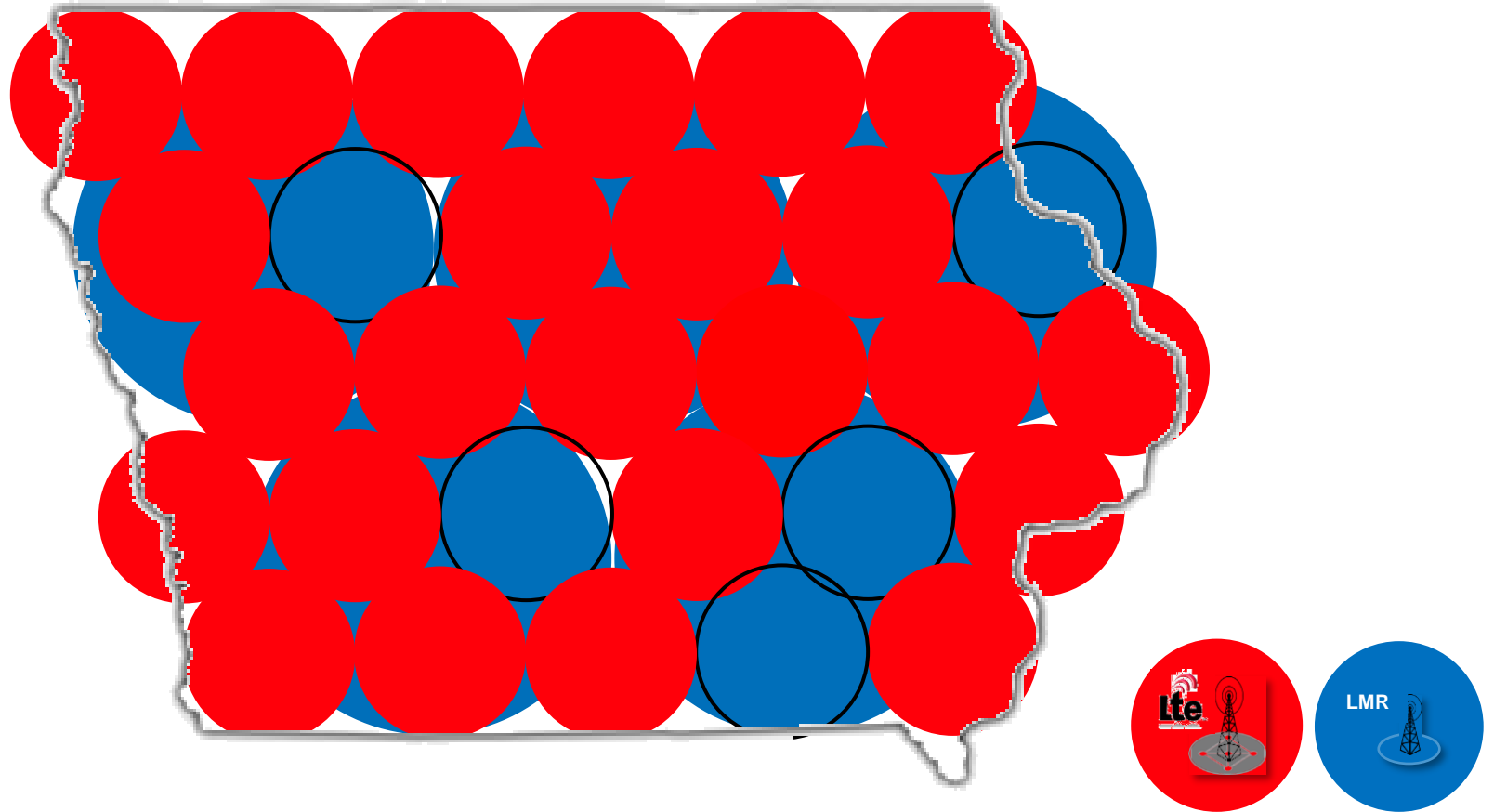- Converged Radios move to LTE when LMR is down

Converged Network (LMR + LTE)

- Reduced LMR + LTE outages

- Converged radios utilise peer-to-peer voice communications
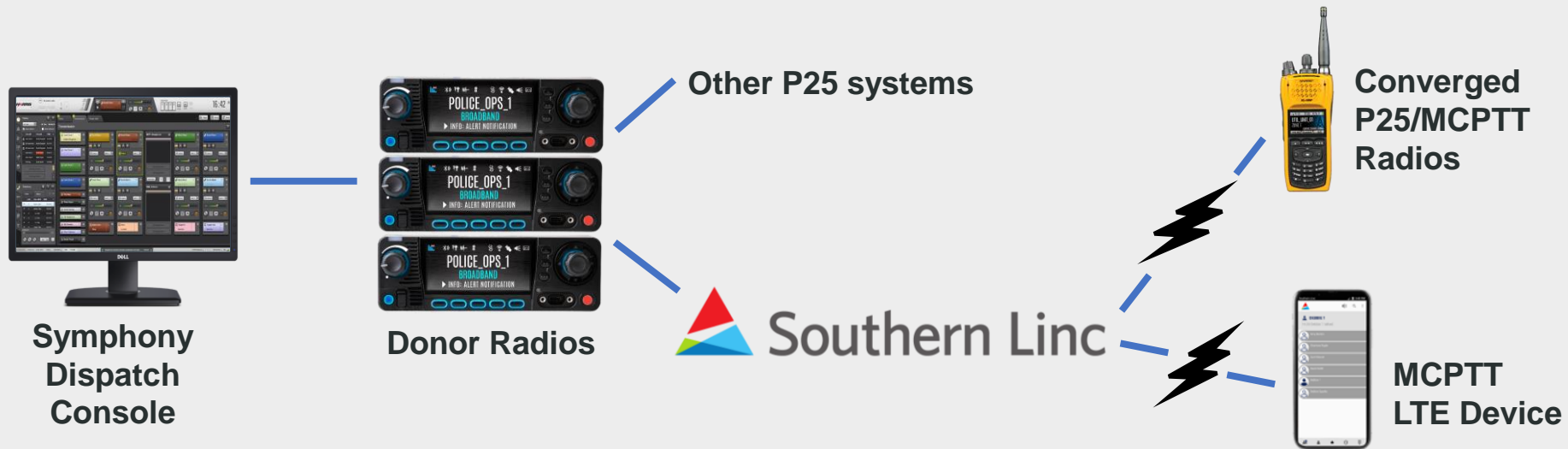
Converged Network (LTE + LMR)

- Future proof with option to "flip the script"

- Converged Radios utilise LTE first, LMR second

MCPTT – Real World Case Study

State of Georgia

- Southern Linc is a U.S. public safety broadband network services Georgia, Mississippi, and Alabama solutions dedicated to first responders and those who support them.

- There were 4000+ radios deployed to the state of Georgia (combination of Mobile and Portable) using Southern Linc MCPTT. The radios started deployment in March of 2023.

- Extended interoperability to existing P25 infrastructure around the state of Georgia with primary communications being MCPTT.

L3Harris Role in the MCPTT World

L3Harris is first to market with MCPTT in a P25 radio

- Durable

- Secure

- Long Battery Life

- Certified on Nationwide Networks

- LTE & LMR Convergence

- High Power Talk Around

Questions?

For more information on MCPTT

Please contact your L3Harris representative

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Stay Focused. Save Time. Save Lives.

THANK YOU