

WideBridge™

Mission-critical Broadband Services for First Responders



Reliable, Secure, and P25-compliant Smartphones interoperate over LTE with Land Mobile Radio handsets in the field, extending situational awareness, first responder safety, and value to the communities they serve. The next evolution of public safety communications is now available with FirstNet-Ready WideBridge™.



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Introduction

Public safety users can gain access today to the most advanced mobile broadband technologies, delivering real-time, multimedia operational information while on the go to enhance their situational awareness.

LTE (Long-term Evolution) has been selected for the next generation of public safety mobile broadband technology. Public Safety LTE networks are able to deliver wideband IP channels to enormous numbers of connected, and geographically dispersed mobile devices.

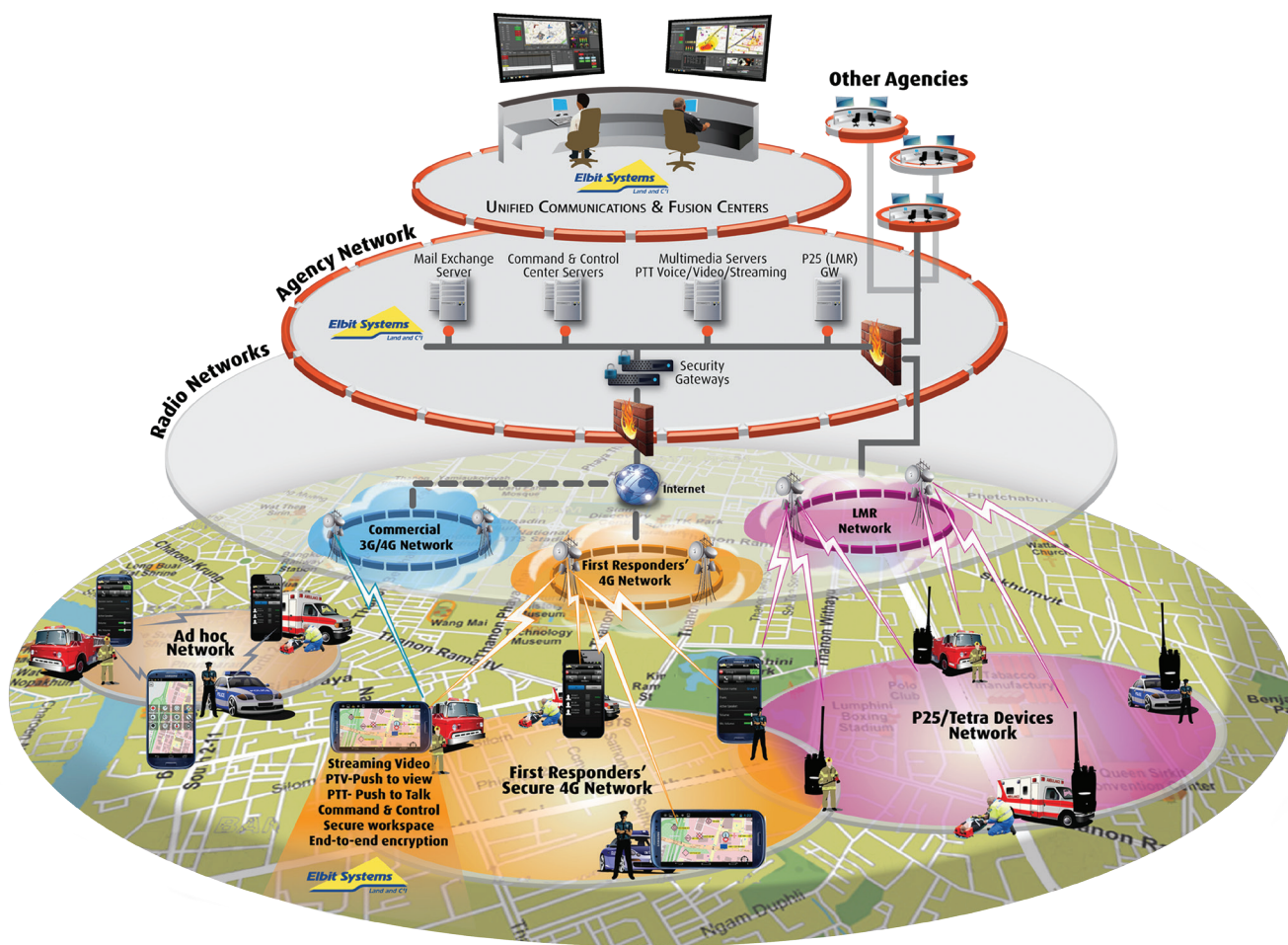
Elbit Systems' WideBridge provides a comprehensive solution for mission-critical, multimedia voice, video, and data information access to first responders, using LTE networks, while having legacy land mobile radio (LMR) system interoperability.

Elbit Systems' vast experience in deploying large-scale digitization programs, supports and enhances the WideBridge system's operational concepts and capabilities.

Interoperability

Connect public safety LTE users with P25 (LMR) users, using secure, high-performance voice PTT services. WideBridge system supports true interoperability in multi-vendor LMR networks.

By using open standards such as the ISSI & CSSI, WideBridge system enables a reuse of existing narrowband radio assets and integrates them fully with new LTE handsets, delivering heterogeneous mission teams (police, fire support, medical, etc.) coexistence and collaboration.



The WideBridge system's open architecture:

- Provides a network and user device agnostic solution for secure IP services. A set of software systems and servers, installed at the agency network or on a government cloud, enables unified fusion center users to have access to live broadband operational information (voice, data & video) projected from the area of operation.
- Servers create secure connectivity and interoperability between heterogeneous networks users (LMR and IP broadband networks) with a P25 gateway.
- Provides user devices remote configuration and control by a centralized mobile device management (MDM) server. Together with multimedia (IMS) server, digital mapping and C2 server, WideBridge™ agency network servers provides a comprehensive solution for broadband multimedia services.
- Servers automatically interact with other agencies, delivering a Self-Organizing Network (SON) capability
- Unified Communications, Fusion Center, CAD and Incident Management Software Systems Integration



Unified Communications, Fusion Center, CAD and Incident Management Software Systems Integration

- All sources Complex Events Processing (CEP)
- Automatic incidents generation and queuing—sorting, merging, prioritizing, load balancing, assign to dispatcher
- Optimized units assignment and tasking
- Automatic units location & situation reporting
- Automatic retrieve and display any incident relevant data
- SOP—initiating, guidance & control
- Automated Log
- Timeline oriented de-briefing & investigation
- Multi-channel synchronized timeline
- Incidents & events history map

iTalk: WideBridge™ User Multimedia Applications Pack

- Mission critical secure PTT group call
- Users presence display
- Automatic synchronized address book
- Secure dynamic VoIP conference call
- Operational secure live video player
- PTV: video & audio group call session
- Private video & audio call (full duplex)
- Secure messaging, E-mail and SMS
- HLS situational awareness, Information Sharing, and access to data layers over dynamic digital mapping
- “Direct Mode” communication: voice and video PTT & PTV
- Secure “sand box” perimeter. AES-256 encrypted
- Diverse codec support



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