

# KENWOOD

## VIKING<sup>®</sup> CONNECT

POWERED BY ESCHAT<sup>®</sup>



# VIKING CONNECT

**VIKING CONNECT, POWERED BY ESCHAT, IS A BEST-IN-CLASS, MISSION-CRITICAL, PUSH-TO-TALK (PTT) SOLUTION TRUSTED BY EMERGENCY RESPONDERS WORLDWIDE.**

It delivers reliable, secure broadband PTT communications by combining proven ESChat technology with the KENWOOD Land Mobile Radio (LMR) portfolio. The result is a unified solution that provides an LMR Push-to-Talk experience over broadband networks, including Wi-Fi, Ethernet, LTE, 4G, 5G, and satellite.

**Viking Connect integrates an optimized ESChat client directly into the operating system of KENWOOD Viking VP8000 and VM8000 radios.**

This allows the radios to operate on their native LMR systems and automatically switch to broadband when LMR coverage is unavailable or whenever broadband is the preferred option.



## **OPTIMIZED ESCHAT CLIENT EMBEDDED IN KENWOOD VIKING RADIOS**

- Radios can transmit on LMR or broadband networks using a broadband connection to ESChat servers or service
- Enables calling to ESChat broadband clients, such as consoles, radios, and cell phones



## **CONNECTS P25 SYSTEMS WITH CELLULAR/BROADBAND SYSTEMS USING THE ESCHAT SERVICE**

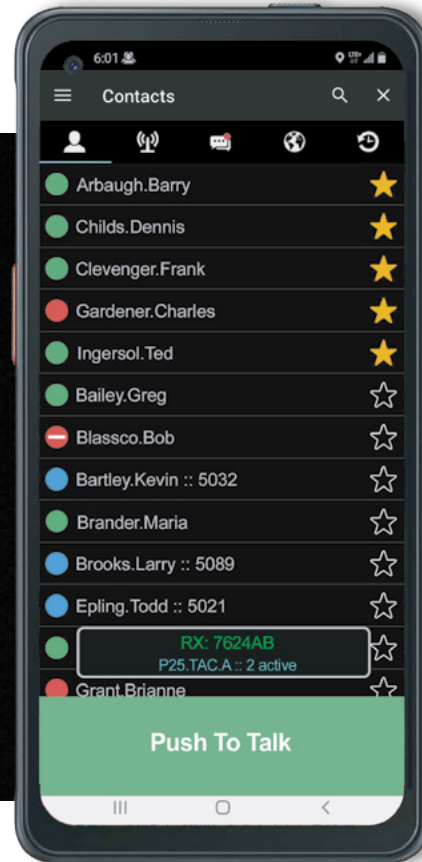
- Leverages ISSI or the Viking Connect Broadband gateway to connect the LMR and Broadband system - to route calls to/from the LMR network

## LMR TALKGROUPS ARE SEAMLESSLY LINKED TO ESCHAT GROUPS, GIVING USERS CONTINUOUS ACCESS WITHOUT CHANGING RADIO SETTINGS.

By combining the KENWOOD ATLAS platform—or other standards-based P25 networks—with ESChat services, these talkgroups can include users on your LMR system, Viking Connect-enabled radios on a broadband service, and ESChat users on cellular or other connected devices such as Android, iOS, and PC.

### ESChat Service Hosting Options:

- On-premises
- Commercial Cloud
- FedRAMP



## KEY BENEFITS

- Seamless interoperability between LMR / cellular users
- Familiar push-to-talk experience across devices
- Extended coverage beyond available radio infrastructure
- Scalable solution for public safety, government, utilities, and transportation users
- Secure, encrypted communication suitable for mission-critical operations

## COMPATIBILITY

KENWOOD Viking radios are engineered for durability, clarity, and high performance in demanding environments. When enabled with Viking Broadband Voice, they communicate seamlessly across KENWOOD ATLAS and other vendors' LMR systems.

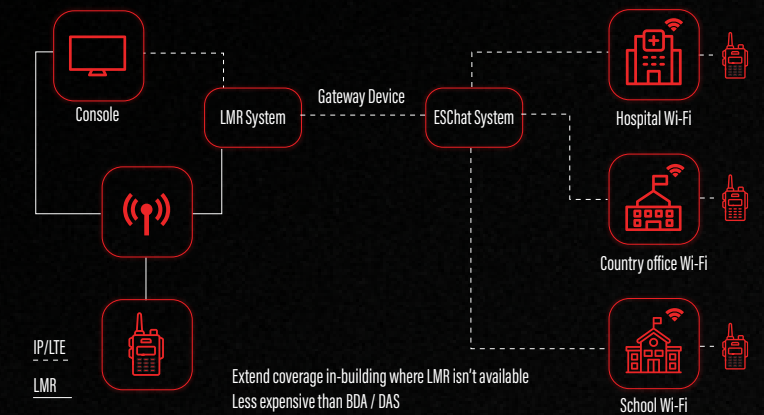
Using Wi-Fi or Ethernet, Viking radios can connect to appropriately configured broadband networks that utilize commercial wired, cellular, or satellite backhauls.



## USE CASES

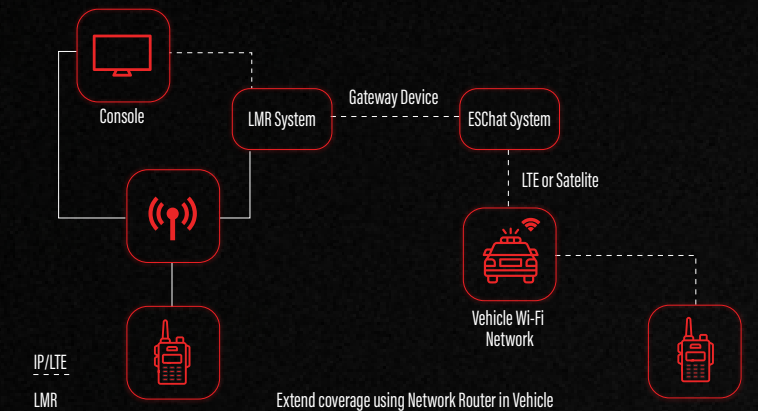
### EXTEND IN-BUILDING COVERAGE AND ELIMINATE LMR DEAD ZONES

LMR signals can struggle to penetrate dense structures such as hospitals, schools, and government facilities. Viking Connect addresses this challenge by leveraging existing enterprise Wi-Fi networks to extend reliable coverage deep inside buildings.



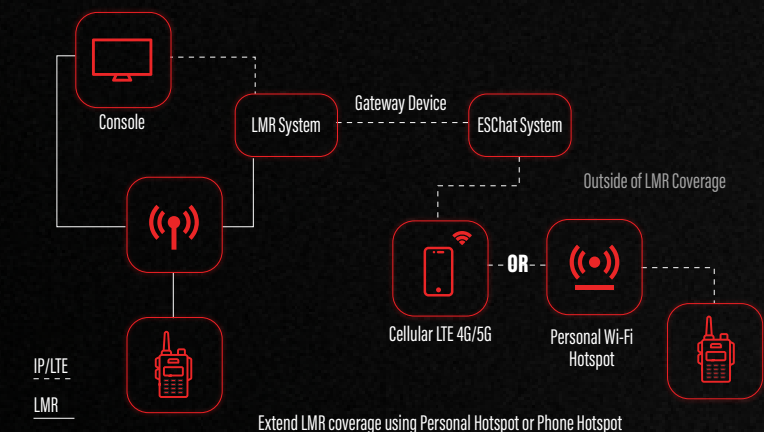
### EXTEND COVERAGE USING A VEHICULAR NETWORK ROUTER AND WI-FI

Viking Connect keeps you connected to your LMR network even outside normal coverage areas. With a vehicle-based network router, you create a mobile "bubble" of coverage wherever your vehicle travels. Viking Connect is also compatible with KENWOOD's Enhanced Vehicular Repeater System (EVRS) to further expand operations beyond Wi-Fi range.



### ENABLE ON-THE-GO COVERAGE WITH WI-FI OR PERSONAL HOTSPOT

Viking Connect supports Wi-Fi and personal hotspot operation to provide reliable "on-your-belt" coverage when you're away from your vehicle or outside of Wi-Fi network range.



POLICE

Simply push to talk and the call will go out on either broadband or LMR—maintaining the same talkgroup

# VIKING CONNECT MOBILE GATEWAY

Connecting LMR systems with broadband PTT systems typically requires a gateway made up of multiple devices. In most cases, a control station radio and a separate Radio over IP (RoIP) interface are linked by a four-wire audio connection. While this approach works, it can be complex to deploy and usually allows only basic audio to pass between systems.

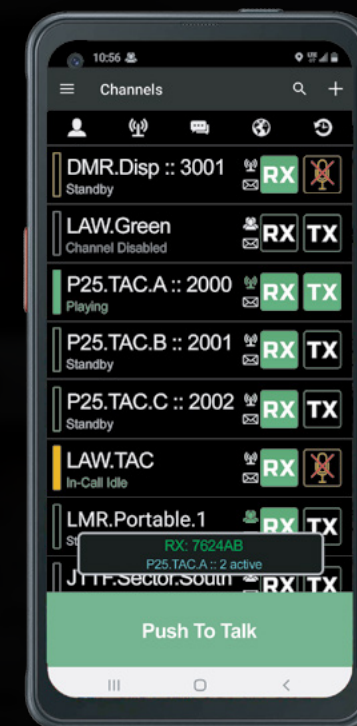
The Viking Connect Mobile Gateway simplifies this setup by combining these functions into a single integrated device that enables more intelligent communication between networks.

This integration allows the gateway to support talkgroup scanning while sharing critical information, such as unit ID and emergency status, between the LMR and broadband networks.

Future updates will expand these capabilities even further.

## VOICE FEATURES

- PTT Service with mission-critical service availability
- Simply push to talk and the call will go out on either broadband or LMR—maintaining the same talkgroup
- Dedicated ESChat infrastructure available for large systems
- Multiple gateway device options for connection to cloud server for small systems
- FedRAMP-authorized ESChat service for government users
- Viking LMR, Android, iOS, IoT and PC-based clients available
- Interoperable with KENWOOD ATLAS and most other P25 systems via ISSI with E2EE via KMF/OTAR
- Wireless Carrier agnostic and cross carrier capable
- Satellite connectivity via Starlink and the Iridium Certus Network
- AIS integration for KENWOOD and other DMR networks
- NXIP integration for KENWOOD NEXEDGE networks
- Easy platform management for customer administrators





**KENWOOD**



EF Johnson Technologies, Inc.  
a JVCKENWOOD Company

1440 Corporate Drive, Irving, TX 75038-2401  
Phone: 800.328.3911 • efjohnson.com

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