KG Communications Enhanced Push-to-Talk with Integrated Dispatch

Transportation Industry

Snapshot of the transportation industry

Key Facts

- $1.3 trillion in revenue (8.3% of US GDP
- 3 Million large trucks on the road and 5.3 million commercial trailers registered in2006
- 3.46 million truck drivers with total industry employment of 8.9 million
- Over 290,000 for-hire carriers and more than 504,000 private carriers

Overall business challenges

- Compliance with ever-changing government regulations
- Efficiency of fleet utilization and route optimization
- Tracking asset inventory and performance
- On-time delivery
- High operational expenses

Key communication challenges

- Instant communication between dispatchers and field workers
- Real-time visibility to customer orders and shipment status
- Application integration on the same device
- System interoperability
- Communication cost control

Issues with existing mobile communications services in the transportation industry
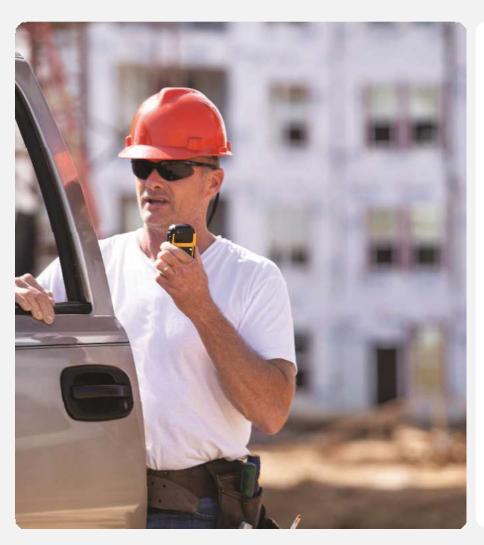
- Two-way Land Mobile Radios (LMR) are unable to support mobile broadband data applications.

- Two-way LMRs also have geographic coverage constraints, complexity of talk group set-up/updates, inefficient system resources for 1:1 private calls, and high total cost of ownership.

- Existing 3G-based PTT-over-cellular services only work on older handsets and have limited device choices, with no support for 4G LTE.*

- Employees who need to use a two-way radio for PTT and a smartphone for data must carry two separate devices, which can increase costs and inconvenience.

LTE is a trademark of ETSI. 4G LTE is not available everywhere.

Fragmentation of existing voice/data communications in the transportation industry

Device	Supported	Not Supported
Wireline PBX Phone	Voice communication on the desktop	• Mobile voice • Instant voice • Computing/data applications
Legacy Paging Device	One-way text messaging	• Voice communications • Computing/data applications
Traditional PTT Paging Devices (e.g., two-way radios)	• Instant mobile voice communications • Limited messaging	• Computing • Broadband data
PC, Laptop, or Tablet	• Personal computing • Data and line-of-business apps	• Voice communication • Text messaging
Feature Phone with regular cellular service	• Cellular voice • Messaging	• Instant group voice communication • Computing/data applications
Smartphone with regular cellular services	• Cellular voice • Messaging and email • Web browsing • Access to line-of business applications	• Instant mobile voice communication (especially group calls)

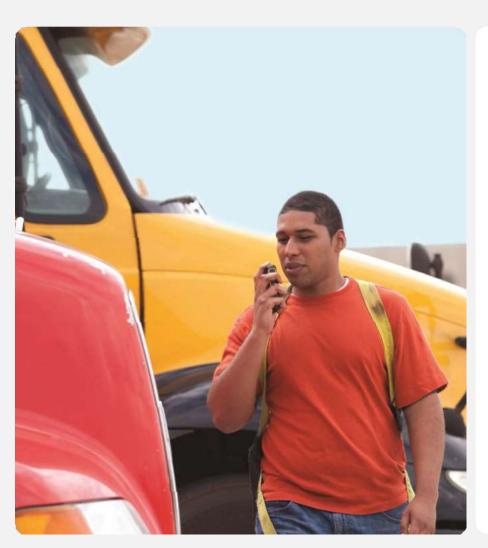# How KG Communications EPTT helps the transportation industry

Key capabilities of KG Communications EPTT

- PTT over latest cellular network and Wi-Fi*

- Interoperability with LMR **

- Broad device choices, including smartphones, feature phones, and desktop PC

- Application integration on the same device

- Centralized and on-the-fly contact and group management

- Sub-second call set-up

- Other advanced features, including real-time presence, talker priority (supervisory override) and talk group late entry/re-entry

*Wi-Fi requires compatible network configuration

**LMR interoperability requires equipment not available from KG COMMUNICATIONS

How KG Communications EPTT helps the transportation industry, continued

Key potential benefits

- Converged communications on the same network

- A single device for all mobile voice and data communication needs

- Broad network coverage and system capacity

- Enhanced communication efficiency

- Centralized and on-the-fly contact and group management

- Reduced communication costs through device and network consolidation

KG Communications EPTT for major roles of transportation

Drivers	Dispatchers	Coordinators	Service Personnel
• PTT over Wi-Fi • Feature phone • Smartphone • Group calling • Single converged device • Productivity app integration • Remote Speaker Microphone (RSM)	• PTT over Wi-Fi • PTT over 3G/4G cellular • Feature phone • Ruggedized phone • Group calling • Single converged device • Productivity app integration	• PTT over Wi-Fi • PTT over 3G/4G cellular • Feature phone • Ruggedized phone • Group calling • Single converged device • Productivity app integration • Remote Speaker Microphone (RSM)	• PTT over Wi-Fi • PTT over 3G/4G cellular • Feature phone • Ruggedized phone • Group calling • Single converged device • Productivity app integration • Remote Speaker Microphone (RSM)