

KG COMM Enhanced Push-to-Talk with Integrated Dispatch

Manufacturing Industry

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Snapshot of the manufacturing industry

Key Facts

- Contributed \$2.09 trillion economic
- Supports an estimate 17.9 million jobs in the US
- US manufacturers are the most productive in the world
- US manufacturing equals the 9th largest economy in the world

Overall business challenges

- Line-side uptime and production yield
- Employee productivity
- Work order management
- Process management and quality control
- Asset maintenance and management
- Inventory management
- Operating profit

Key communication challenges

- Reaching the right employee or group any time
- Mobile access to real-time data
- Application integration on the same device
- System interoperability
- Communication cost control

Issues with existing mobile communications services in the manufacturing 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 manufacturing industry

| Device | Supported | Not Supported |
|---|--|--|
| Wireline PBX Phone | Voice communication on the desktop | <ul style="list-style-type: none"> • Mobile voice • Instant voice • Computing/data applications |
| Legacy Paging Device | One-way text messaging | <ul style="list-style-type: none"> • Voice communications • Computing/data applications |
| Traditional PTT Paging Devices (e.g., two-way radios) | <ul style="list-style-type: none"> • Instant mobile voice communications • Limited messaging | <ul style="list-style-type: none"> • Computing • Broadband data |
| PC, Laptop, or Tablet | <ul style="list-style-type: none"> • Personal computing • Data and line-of-business apps | <ul style="list-style-type: none"> • Voice communication • Text messaging |
| Feature Phone with regular cellular service | <ul style="list-style-type: none"> • Cellular voice • Messaging | <ul style="list-style-type: none"> • Instant group voice communication • Computing/data applications |
| Smartphone with regular cellular services | <ul style="list-style-type: none"> • Cellular voice • Messaging and email • Web browsing • Access to line-of business applications | <ul style="list-style-type: none"> • Instant mobile voice communication (especially group calls) |

How KG COMM EPTT helps the manufacturing industry



Key capabilities of KG Comm EPTT

- PTT over latest cellular network and Wi-Fi*
- Interoperability with LMR **
- Broad device choices, including smartphones, featurephones, 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 COMM

How KG COMM EPTT helps the manufacturing 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 COMM EPTT for major roles of manufacturing

| Production workers | Shipping & Receiving | Plant managers/ Foreman | Maintenance/ Service | Executives |
|--|--|---|---|---|
| <ul style="list-style-type: none"> • PTT over Wi-Fi • Feature phone • Smartphone • Group calling • Single converged device • Productivity app integration • Remote Speaker Microphone (RSM) | <ul style="list-style-type: none"> • PTT over Wi-Fi • PTT over 3G/4G cellular • Feature phone • Ruggedized phone • Group calling • Single converged device • Productivity app integration | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • PTT over 3G/4G cellular • Smartphone • Group calling • Single converged device |