

KG Communications Enhanced Push-to-Talk with Integrated Dispatch



AT&T Partner Exchange
Platinum Solution Provider



Snapshot of the energy industry

Key Facts

- 2.6 million employees within the Energy industry
- 7 million additional jobs through indirect impact
- \$481+ Billion in direct contribution to the economy
- \$1.1 trillion in total impact to the US GDP (5% of the total)

*Source:

<http://marketing.web.att.com/oil/download?oilID=77a5b4ee83798f>

Overall business challenges

- Compliance with changing regulations
- Supply and demand
- Environmental Accountability & energy security
- Employee and customer
- Asset management
- ROI and operating

Key communication challenges

- Communication network coverage and capacity
- Mobile data communications in addition to voice
- Application integration, efficiency and intrinsically safe communication
- System interoperability

Issues with existing mobile communications services in the energy industry

- Two-way Land Mobile Radios (LMR) are unable to support mobile broadband data applications. Some employees may have to carry two devices to stay connected.
- 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.*
- Existing communications solutions do not support centralized contact management and “on the fly” group communications, despite demand to accommodate a diverse workforce and temporary workers during busy seasons.

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

Fragmentation of existing voice/data communications in the energy industry

Device	Supported	Not Supported
Two-way radio	<ul style="list-style-type: none"> Instant mobile group voice calls Limited messaging/data 	<ul style="list-style-type: none"> Mobile computing Mobile broadband data
Legacy Carrier PTT	<ul style="list-style-type: none"> Instant mobile 1:1 group voice calls Limited messaging/data 	<ul style="list-style-type: none"> Mobile computing Mobile broadband data
Tablet	<ul style="list-style-type: none"> Personal computing Data and line-of-business apps 	<ul style="list-style-type: none"> Voice communication Mobile text messaging
Feature phone, with regular cellular service	<ul style="list-style-type: none"> Cellular voice Messaging 	<ul style="list-style-type: none"> Instant 1:1 and group voice communication Computing/data applications
Smartphone, with regular cellular service	<ul style="list-style-type: none"> Cellular voice GPS location Messaging & Email Web browsing Access to business applications 	<ul style="list-style-type: none"> Instant 1:1 and group voice communication Computing/data applications
GPS devices	<ul style="list-style-type: none"> GPS-enabled navigation Dispatch and route optimization 	<ul style="list-style-type: none"> Voice communication Computing/data applications

How KG Communications EPTT helps the energy industry



Key capabilities of KG Comm's AT&T EPTT

- EPTT 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 AT&T

How KG Communications EPTT helps the energy 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 energy

Facility / Rig manager	Field personnel	Operations managers	Field / Emergency response engineers	Executives
<ul style="list-style-type: none"> • 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 • Feature phone • Ruggedized phone • Single converged device 	<ul style="list-style-type: none"> • 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 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 • Smartphone • Group calling • Single converged device • Productivity app integration