



UNEARTH THE LATEST MINING COMMUNICATIONS TRENDS

2018 Motorola Solutions Mining Communications Survey Report

In an occupation known for its dangers, being on the front end of key information is critical in order to ensure mine workers' safety and operational efficiency. The demand for raw minerals continues to grow, putting an emphasis on the technology and innovative investments mining companies make. Advanced mining operations today need more than just a reliable communication system, but rather an end to end communication solution focused on delivering efficiency, cost savings, and safety improvements.

Leaders in the mining sector are leveraging the advantages of Industrial Internet of Things (IIoT). From safer work environments to operational efficiency to faster responses in the event of a disaster, the operational insights of IIoT deliver real payoff within the mining value chain through data-driven decision making. Without IIoT Solutions, companies are letting useful data go to waste jeopardizing their competitive stance within the mining industry. Motorola Solutions has recently done an industry survey of over 400 energy workers which includes various job functions and management levels within the mining sector. The survey set out to uncover current communication technologies used by energy workers along with their knowledge and usage of the Industrial Internet of Things. Through a series of questions, the survey revealed that most companies are not taking advantage of IIoT technologies.

Mining Voice Communications

Mining workers indicated that they communicate with a variety of different devices among two-way radios, ruggedized cell phones, smartphones, and other technologies. 100% of mine workers within the survey reported using multiple devices to communicate with coworkers on a daily basis.

All mining respondents felt being capable of communicating seamlessly across all devices and networks was important or very important. The entire energy industry within the survey also stressed the same level of importance with seamless communication capabilities. Motorola Solutions WAVE™ Push-to-Talk application enables all devices to communicate instantly, making concerns about device or network be a thing of the past.

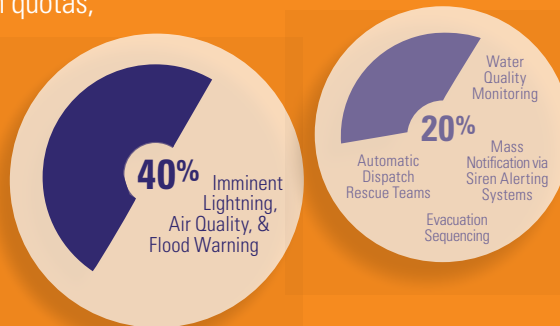
Are Most Workers Within Your Operation Using Multiple Devices to Communicate with Each Other?

Yes	100%
No	0%
Do Not Know	0%

Industrial Internet of Things (IIoT)

With Unified Workgroup Communications from Motorola Solutions, voice communication is just the start to enhancing mine operations. Buried within mounds of data is the competitive edge needed by mining companies to increase efficiency, save money, and even lives. While 60% of survey respondents having heard of IIoT, only 20% are using IIoT solutions in their daily operations. The rest could be letting valuable data insights into key decision making and efficient operations slip away. Could this be the difference between a successful year or falling behind competitors? Timely maintenance or a breakdown at the worst possible time? Smooth operations or a tragic accident? Being proactive instead of reactive is the core of IIoT capabilities, allowing production quotas, efficiency, and safety to reach optimal levels.

Of the following IIoT enabled Capabilities Listed below – Mining workers were most interested in the following:



Mine workers expressed most interest in imminent lightning, air quality detection, and flood warning out of available IIoT capabilities. IIoT solutions increase the abilities of Unified Team Communications by allowing valuable information to reach the right person at the right time. In order for information to be relayed between individuals, however, the devices must be performing at optimal levels.

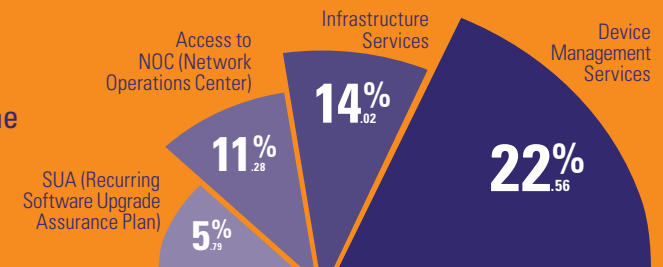
Managed and Support Services

Mine workers are put to the test everyday when it comes to the conditions and physically tasking work required to do their job. Their radios also perform under the same stress, making it critical for the devices to continue to function in case of a life-threatening situation. As our radios become more intelligent, the need to keep the software of these devices up to date is more critical than ever.



Through the survey, respondents expressed preference for Device Management Services offered by Motorola Solutions. Outsourcing your radio management to expert technicians at Motorola allows your personnel to dig in to their daily jobs with confidence.

Would You Be Interested in Any of the Following Services?



(SUA) Periodic Motorola Solutions validated software updates delivered or deployed for you
 (NOC) Motorola Solutions 24/7, 365 network operations center monitors the health and status of your system
 (Infrastructure Services) Access to on-site support to repair any damage to radio infrastructure
 (DMS) Remote management of your radios by Motorola Solutions

Today, organizations are looking to bring together a variety of different devices and seamlessly allow multiple networks to communicate anytime, anywhere. Mine workers need the ability to communicate at any instant, and bridge all communication gaps. Motorola Solutions Unified Team Communications is the key to safer work environments and more productive operations. Voice communication combined with data through IIoT helps the right information reach the right person at the right time.

This means that mine personnel can know when the air quality of a mine is dangerous. When production levels are below average. When a critical piece of equipment needs maintenance. When is the right time to make a strategic investment in data analytics?

To learn more about Team Communications for Mining, please visit:
https://www.motorolasolutions.com/en_xl/solutions/mining.html



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