

PARTNER SOLUTION OVERVIEW

Aruba & Mobilaris

Location Is Everything; Intelligent Location-Based Worker & Equipment Safety Systems

Worker safety is a top priority in industrial, manufacturing, mineral extraction, and material processing, applications. The consequences of an on-the-job injury can be both personally devastating for an employee and financially impactful for the employer. Every industry has its own unique environments and hazards, above- and below-ground, including the risk of explosions, extreme temperatures, strong magnetic fields, and deafening noise levels. While the environmental conditions may vary, most deployments have production equipment, vehicles, machines, and people interacting over geographically spread out sites. As sites digitally transform and use more automated machinery, the risk of injury to nearby workers rises, too. Background noise can make it difficult to know the speed and direction of oncoming machines like front loaders, earth movers, and process cranes.

Real-time location services, coupled with workflow monitoring, can help maintain safe distances between people and machines while guiding workers to safety should disaster strike. Combining location awareness with emergency services can reduce evacuation times by 25-50%.

Aruba's Edge Services Platform (ESP) unifies Internet of Things (IoT), IT, and Operational Technology (OT) networks into a fully programmable platform that jumps beyond connectivity and actually generates contextual information – including real-time location and identity – to power hyper-aware facilities that are safer, more adaptive, and enhance productivity. "Connected facilities" only provide basic connectivity for specific control services, whereas Aruba ESP-powered hyper-aware facilities dynamically adapt a facility to its occupants and

WHY ARUBA & MOBILARIS?

- Real-time location of workers and assets for increased safety and productivity
- 3D mapping with granular visualization
- Automated notification of muster events
- Worker alerts when the movement of nearby machines threaten safety
- Leverages existing wireless infrastructure for lowered cost of deployment
- Certified interoperability

operating environment. Used in conjunction with devices and applications from Aruba's technology partners, Aruba ESP helps customers better manage hazardous operating environments and safety needs.

MOBILARIS

Based in Sweden, Mobilaris is a leading location-based intelligence and decision support solution company focused on mining and industrial safety and productivity solutions. The Mobilaris Industrial Solutions is a leading location-based intelligence and decision support solution company whose Industrial Intelligence Platform addresses mining and industrial safety and productivity solutions. Mobilaris' industrial workforce safety suite synchronizes real-time information about what's happening in the workplace to provide control over both workforce safety and productivity.

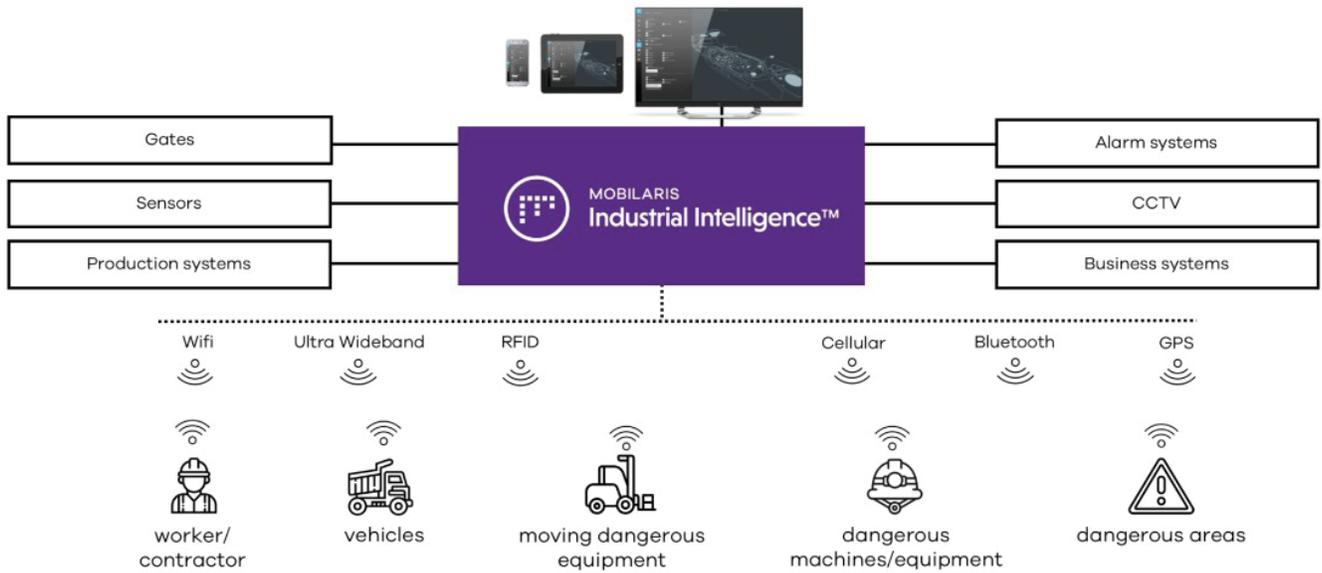


Figure 1: Mobilaris Industrial Intelligence Platform

The Mobilaris Mining Intelligence suite helps operations digitalize subsurface operations with increased safety and double digit productivity increases. The mining suite delivers real-time 3D situational awareness by tracking the location of people and assets, and provide automated ventilation, geofencing, and vehicular navigation systems. In the event of an emergency, and to reduce evacuation time, Mobilaris reduces evacuation time by providing emergency alerts, navigation support to underground rescue chambers, and positioning information to the rescue personal.

Aruba and Mobilaris have partnered to integrate Aruba wireless 802.11ax (Wi-Fi 6) and 802.11ac (Wi-Fi 5) access points with Mobilaris' Industrial and Mining Intelligence Platforms to address real-time workforce, employee, contractor and visitor safety and asset tracking in mining, civil engineering, industrial applications.



Figure 2: Mobilaris Site Overview Dashboard

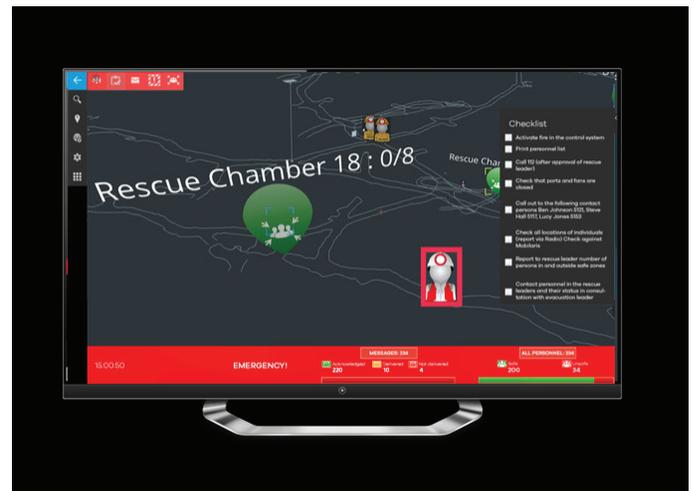


Figure 3: The Emergency application can display the real-time status of refuge chambers, showing who is in and who is not but close



Figure 4: Mobilaris Pocket Mine

BETTER TOGETHER

Real-time location data gathered by Aruba access points from tags on workers and equipment are relayed over a secure tunnel from Aruba controllers to the Mobilaris system, and then on to workforce safety situation awareness applications.

Aruba's wireless infrastructure is both extensible and adaptable to different deployment scenarios. Aruba's Class 1 Division 2 and ATEX Zone 2 Wi-Fi access points can operate in specified explosive environments without an additional protective enclosure. Class 1 Division 1 and ATEX Zone 1 applications can be addressed using external enclosures from Analynk, Bartec, Extronics, and R. Stahl. Mesh networking is supported to simplify challenging deployment scenarios, while FIPS 140-2 and Common Criteria validated access points address government and other high-security applications.

Access to real-time information about personnel location enables those in evacuation zones to be instantly notified of the situation, and told how and where to muster. Status information is visualized on a 3D site map supplemented by safety status lists, allowing rescue personnel to focus on the most critical locations and tasks. Access to accurate real-time information is the key to make the right decisions during an emergency situation.

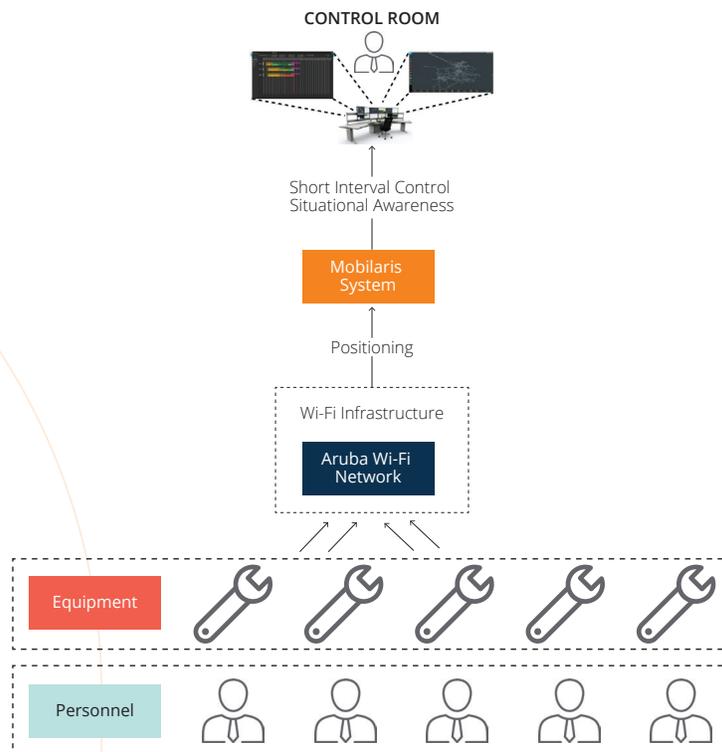


Figure 5: Aruba & Mobilaris Joint Solution Diagram



Industrial worker safety is also monitored using real-time location data. If a worker moves too close to a dangerous machine, overhead crane, vehicle or hazardous area, they are instantly notified via a vibrating tag, flashing light, or blinking safety vest so an accident can be averted. The more workers and contractors employed at the site, the greater the need for automated notifications.

The Mobilaris system provides real-time safety information on:

- Machines
- Areas
- Vehicles
- Equipment
- Muster locations
- Rescue showers

Mobilaris has demonstrated that real-time situational awareness can reduce evacuation time by up to fifty percent.

CERTIFIED INTEROPERABLE

Since the solution uses existing Aruba infrastructure, it is economical to deploy and can do double-duty for other IIoT, voice, video, and data applications. Set-up is a straightforward so joint deployments go in faster and are easier to maintain.

SUMMARY

Aruba's secure infrastructure is the ideal way to support Mobilaris workforce safety solutions in mining and industrial applications. Contact your local sales representative to see how together, Aruba and Mobilaris deliver the most cost-effective mining and industrial solutions in the industry.

To learn more about Aruba wireless, please visit:
www.arubanetworks.com/products/networking/access-points/

DEPEND ON MOBILARIS



Mobilaris creates location-based intelligence and decision support solutions focused on mining and industrial safety and productivity solutions. They are currently headquartered in Sweden.

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