ABB Mine Location Intelligence™, powered by Mobilaris, is a software product for location based decision support system that provides real-time positioning and information of vehicles, equipment and personnel in underground mines to maximize the safety and productivity of your mine operation.

**Main features**

ABB Mine Location Intelligence™ provides mine operators all information needed in underground mines to work safely and efficiently. The system can be used either on a PC, a tablet or a smart phone via a web browser. It is a cost efficient and scalable solution that fits mining operation’s evolving requirements depending on their current maturity. The system has the following features:

- Web based user interface with a 3D map showing real-time position and information of mobile machines, equipment and personnel
- Advanced data mining and analysis
- Tools for creation and management of geofences
- Powerful information and filtration of mine equipment and facilities
- Spatial search function (whole mine or “near me”)

Robust position based support middleware is another important feature to optimize positioning precision from multiple technology positioning sources as well as from adjacent positioned items which includes

- a dynamic updated GIS solution
- a set of valuable services that simplify the integration/implementation of higher layer applications
- maintenance functionality and verification/validation of the positioning functionality
- a 3D GUI visualization component for use in integrated applications

**Typical deliverables**

ABB Mine Location Intelligence™, MLI, system includes the following components:

- Server hardware with MLI software
- System configuration and set-up such as import of mine maps, access point import, etc.
- Commissioning on-site
- Training
- Remote support

In addition, a number of options are available such as

- Advanced geofencing
- Automatic map manager
- Emergency evacuation
- Guided navigation
- High availability solution
- IT management
- Location based notes
- Mass location
- Tablet version
- Traffic report package
- Visualized history log
- Voice/Text communication
Benefits of choosing ABB MLI solution
ABB can deliver the MLI system as a key component in a mining operation center that
- increases the overall productivity between 10–20%
- lowers operational costs

A new dimension to personal safety
- Minimize the time for evacuation by determining the best emergency escape routes and send this information to the personnel at the locations.
- Automate the surveillance of dangerous areas by geofences that limit access to recently blasted areas, areas with dangerous gases, unsecure areas, etc.
- Simplify your permission access, e.g. limit access for personnel to certain areas using geofences.
- Position personnel more accurately by integrating multiple position sources which increases the quality of the position data and hence makes better and safer decisions.

A new dimension to process automation and control
- Increase the situation awareness by enabling real-time positioning of vehicles, equipment and personnel together with visualization in 3D maps.
- Increase the level of automation by providing the System 800xA control system with real-time location information for position based ventilation control, traffic control, etc.
- Take better decisions for dispatching, traffic management and production control by using the 3D visualization.
- Improve collaboration between personnel in underground mines by integrating voice, messages and CCTV services from the 3D view of the mines.

For more information, please contact:

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ABB’s mining business is represented in the following countries: Australia, Brazil, Chile, China, Germany, North America, Peru, South Africa, Sweden and Switzerland.

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