Automated Wireless Asset Tracking for Underground Mines

Use Case Specification: View Member Position

Version 1.0

Revision History

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Use Case Specification: View Member Position

# Brief Description

Miners traverse the underground mine holding end devices that connect to strategically placed routers throughout the mining tunnels. A router has a location property which is also the member’s location when the member passes by and connects to that router.

# Participating actor

## User

The TMS user that is tracking miners or mining equipment.

# Entry conditions

## Physical network set up

The coordinator, routers, and end devices must be properly placed throughout the tracking area.

# Flow of Events

## User selects a member

* The user selects a member from the list of active members in the mine or my clicking the map.
* The member is only selectable if they are associated with a tag.

## Display member position

* The member is cross referenced with the router it is at and the router’s position in the mine is displayed alongside the member information.
* The member’s information is displayed on the map.

# Exit Conditions

## Member position is displayed

* A tabular view displays the member’s location.

# Quality requirements

## <Quality requirement one>