Automated Wireless Asset Tracking for Underground Mines

Version 1.0

Revision History

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| **Date** | **Version** | **Description** | **Author** |
| 10/10/14 | 1.0 | Completed use case. | Philip Kurowski |
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# Brief Description

A person using the TMS can send a text message to a member with an end device. The message is encapsulated and sent through the ZigBee network to the appropriate member.

# Participating actor

## User

The TMS system user.

## Coordinator

The central node of the ZigBee network. The coordinator contains all information of routers in the mine and is able to return their location and end device connections.

# Entry conditions

## User logged in

The user has completed the LogIn use case.

## The TMS is online

The network is active and the TMS server is connected to the coordinator.

# Flow of Events

## Start up

* The user initiates the use case by selecting the Send Text option from the messaging module.

## Enter message content

* The user is presented with an input dialog for a member and a text message
* The user selects the addressee from a list and types in a message.

## Confirm & Send

* Message content is confirmed
* The addressee and message are encapsulated and sent to the coordinator

# Exit Conditions

## Coordinator receives message

The coordinator has received the message packet and proceeds to send it to the appropriate end device.

# Quality requirements

## <Quality requirement one>