Use Case Specification: Create Alert

Version 1.0

Revision History

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Use Case Specification: Create Alert

# Brief Description

Alarms are received by miners on their end devices. This use case allows the user to define alarm contents and conditions for which the coordinator will send an alarm to miners.

# 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 authenticated

The user has logged in to the system.

## Network implemented

The coordinator and routers are placed throughout the network.

# Flow of Events

## Start up

* The user initiates the use case by pressing a Create Alert option.

## Input Dialog Window

* An input dialog window appears
* The user enters the contents of the alarm message
* The alarm contents are saved to the TMS database for use in message details reports.

## Coordinator receives alarm

* The coordinator receives the packet containing the alarm data and generates the appropriate functions to set the alarm.

# Exit Conditions

## The Coordinator received alarm

The coordinator is now prepared to send alarm messages to active end devices.

## The Alarm is saved

The alarm is saved to the database.

# Quality requirements

## <Quality requirement one>