Tracking and Monitoring Software

Version 1.0

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 04/05/2015 | 1.0 | Completed test case. | Philip Kurowski |
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# Master Module

# Test items

## Adding Members

A new member should be added to the database if all input is correct.

## Adding Routers

A new router should be added to the database if all input is correct.

## Adding Sensors

A new sensor ID should be added to the database if all input is correct.

## Adding Tags

A new tag ID should be added to the database if all input is correct.

# Input specifications

## Adding Members

### Valid member data

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MemberID** | **Is Vehicle** | **Pin No** | **Tag** | **First** | **Middle** | **Last** | **Address** | **Province** | **City** | **Phone** | **Mobile** |
| M0001 | False | 111111 | E0001 | Mark | “” | Miner | 12 Addr Ave | ON | London | (555)555-555 | “” |

### Invalid member data

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MemberID** | **Is Vehicle** | **Pin No** | **Tag** | **First** | **Middle** | **Last** | **Address** | **Province** | **City** | **Phone** | **Mobile** |
| M0001 | False | “” | E0001 | Mark | “” | Miner | 12 Addr Ave | ON | London | (555)555-555 | “” |

Invalid because the Pin No is mandatory but null.

## Adding Routers

### Valid router data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Router ID** | **Address** | **Location** | **Position X-Y** | **Is Blocked?** |
| R0001 | Address 1 | 1 | 20-100 | false |

### Invalid router data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Router ID** | **Address** | **Location** | **Position X-Y** | **Is Blocked?** |
| R0001 |  | 1 | 20-100 | false |

Assuming that a router with ID “R0001” already exists.

## Adding Sensors

### Valid sensor ID

|  |
| --- |
| **Sensor ID** |
| S0001 |

### Duplicate sensor ID

|  |
| --- |
| **Sensor ID** |
| S0001 |

Assuming that a sensor with ID “S0001” already exists.

## Adding Tags

### Valid tag ID

|  |
| --- |
| **Sensor ID** |
| E0001 |

### Duplicate tag ID

|  |
| --- |
| **Sensor ID** |
| E0001 |

Assuming that a tag with ID “E0001” already exists.

# Output specifications

## Adding Members

### Valid member data

The input fields are cleared and the new member is added to the list and database.

### Invalid member data

Message box appears notifying user of invalid input.

## Adding Routers

### Valid router data

The input fields are cleared and the new router is added to the list and database.

### Invalid router data

Message box appears notifying user of invalid input.

## Adding Sensors

### Valid sensor ID

The input fields are cleared and the new sensor is added to the list and database.

### Duplicate sensor ID

The submit button is disabled, disallowing users from submitting an invalid ID.

## Adding Tags

### Valid tag ID

The input fields are cleared and the new tag is added to the list and database.

### Duplicate tag ID

The submit button is disabled, disallowing users from submitting an invalid ID.

# Environmental needs

## Computer running Windows with the Tracking and Monitoring Software (TMS) installed

A fresh install of the TMS is required with an empty database.

# Special procedural requirements

# Intercase dependencies

## Adding tag must succeed before adding member can succeed

There must be a valid tag in the system for a member to be added because a member requires an assigned tag.