Sentient VOC Monitoring System

Add Monitor to Monitoring System

Version <1.0>

Revision History

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Use Case: Add monitor to monitoring system

# Add monitor to monitoring system

## Brief Description

This use case gives the ability to add monitors to an existing monitoring system. This will allow an upgrade from a small, three monitor system, to a five or greater sized monitoring system in order to expand VOC sensing range.

## Requirements Trace

13, 14

## Involved Actors

VOC Monitor Manager

VOC Web Manager

## Preconditions

* The pre-existing system is functioning.

## Post conditions

* The system had been upgraded to a larger size.

## Invariants

None

# Flow of Events

## Basic Flow

This use case starts when the VOC Monitor Manager wishes to increase the size of an existing monitoring system.

1. VOC Monitor Manager travels to new monitor location.
2. VOC Monitor Manager records the longitude and latitude of location.
3. See extension point use case “Initialize Monitor”.
4. VOC Monitor Manager records monitor’s serial number.
5. VOC Monitor Manager secures monitor to location.
6. VOC Monitor Manager notifies VOC Web Manager of monitor addition and serial number.

## Alternate Course – None

# Extension Points

Use case “Initialize Monitor” causes monitor state to change at step 3.

# Scenarios

## Happy Day

Assumptions: VOC Monitor Manager – Curious George

VOC Web Manager- Silly Sally

Current System Size- 3 monitors

New System Size- 4 monitors

Steps:

1. Curious George travels to new monitor location.
2. Curious George records the longitude at 40.3 and the latitude at 30.2 of monitor location.
3. See extension point use case “Initialize Monitor”.
4. Curious George records monitor’s serial number: 23521.
5. Curious George secures monitor to location on volunteer’s house.
6. Curious George notifies Silly Sally of monitor addition and serial number.

## Rainy Day 1 – VOC monitor doesn’t have a serial number

Assumptions: VOC Monitor Manager – Curious George

VOC Web Manager- Silly Sally

Current System Size- 3 monitors

New System Size- 3 monitors

Steps:

1. Curious George travels to new monitor location.
2. Curious George records the longitude at 40.3 and the latitude at 30.2 of monitor location.
3. See extension point use case “Initialize Monitor”.
4. Curious George attempts to record serial number but the monitor doesn’t have one on it.
5. Curious George notifies Sentient management of mistake.
6. (LONG, would I add that the management would give the monitor a serial number and George would attempt to add it again?)