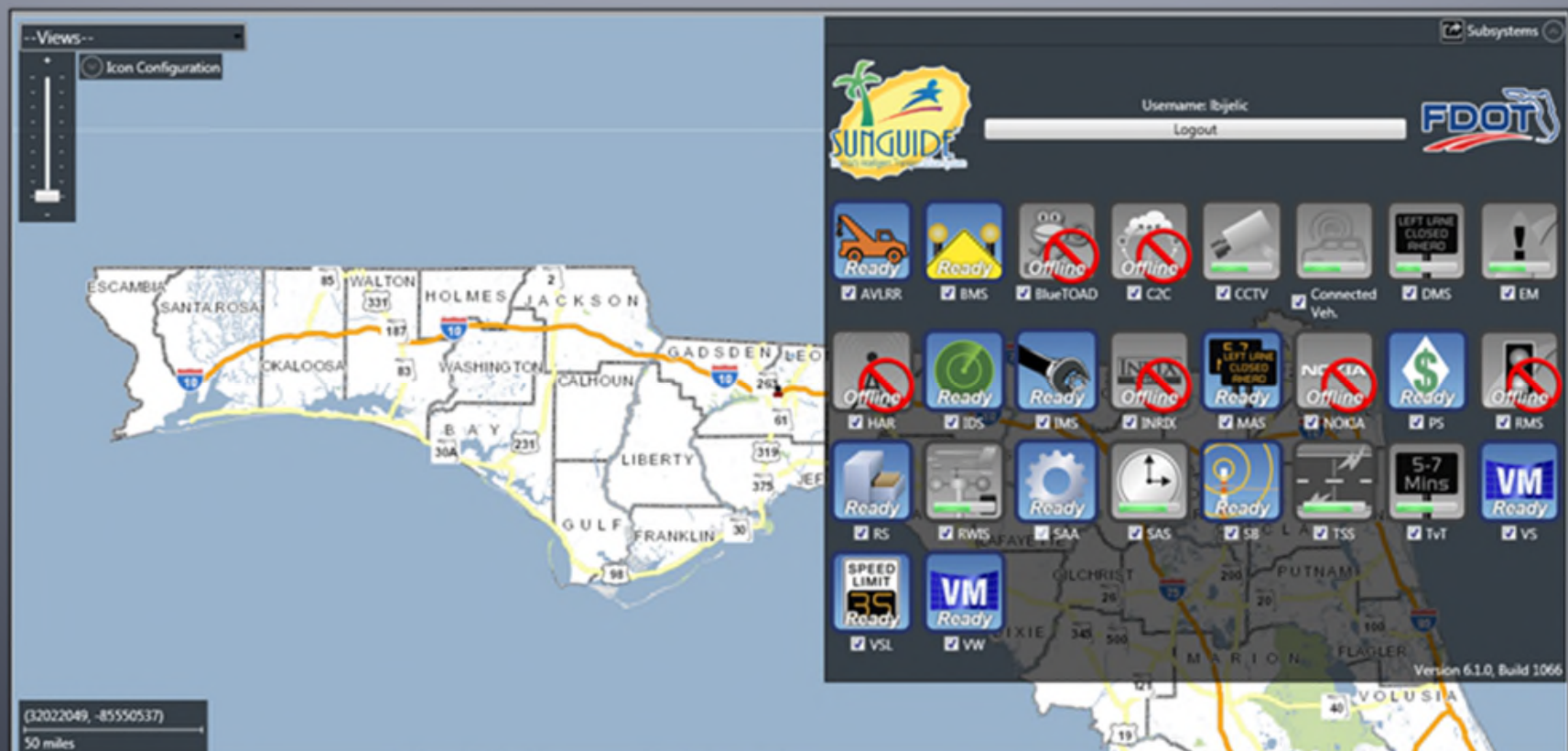Release 6.1
SunGuide Operator Training
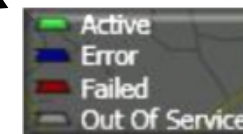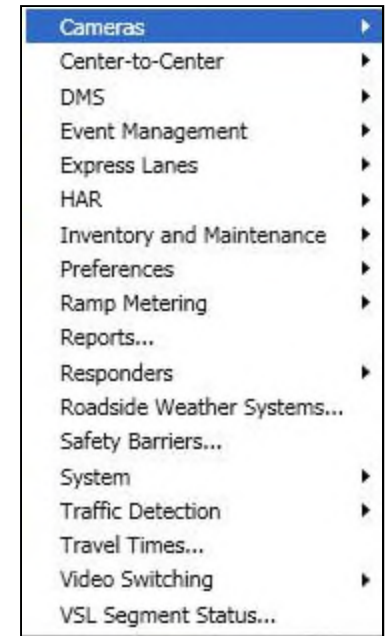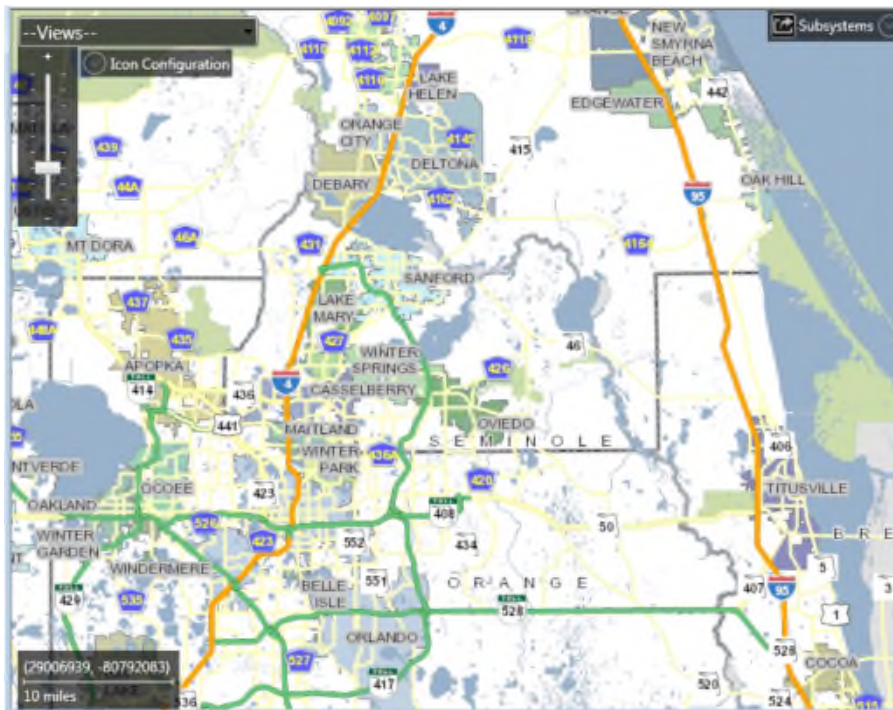Dates of Training, 2015

Operator Map

Map: General Concepts

- Main Context Menu
  - Right click on background of map
- Common functionality for each subsystem
- Device Status
  - Active: Operating normally
  - Error: Communication or other problem, will be polled normally
  - Failed: Several consecutive errors, will no longer be polled normally
  - Out of Service: Manually disabled
  - Device icons typically colored based on status
- Device / Event Icons
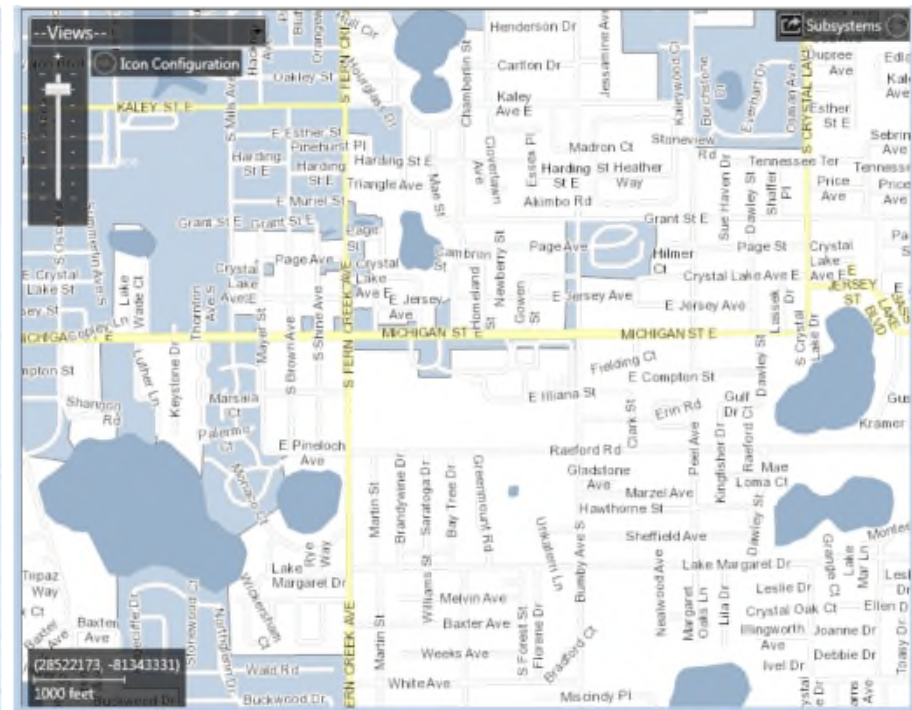 - Left click: Status
  - Right click: Context menu for item

Cameras
Center-to-Center
DMS
Event Management
Express Lanes
HAR
Inventory and Maintenance
Preferences
Ramp Metering
Reports...
Responders
Roadside Weather Systems...
Safety Barriers...
System
Traffic Detection
Travel Times...
Video Switching
VSL Segment Status...

Active
Error
Failed
Out Of Service

New Map Tiles

- County Border
- City Border
- Shields

- Arterial Road Names
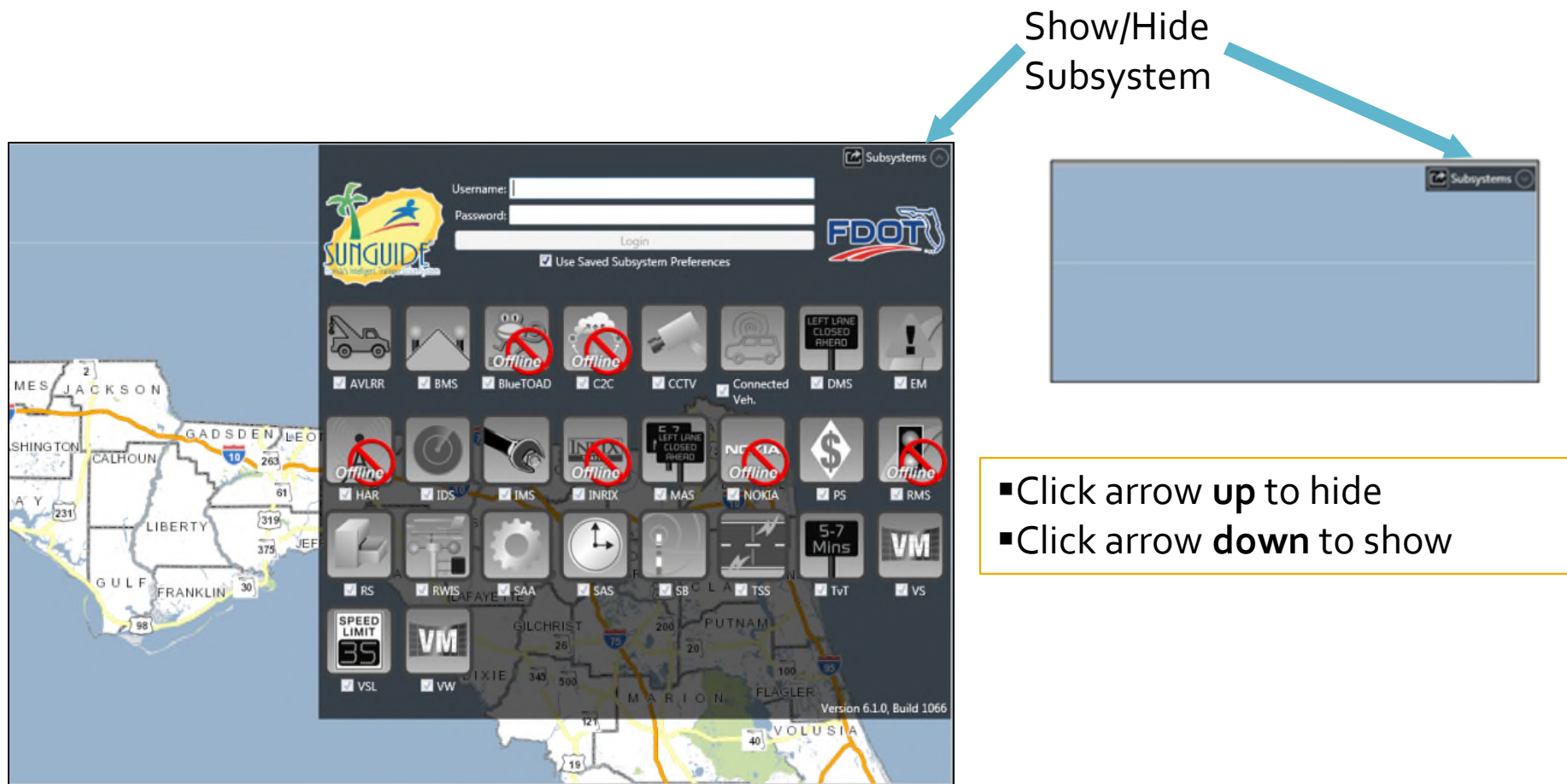- City Road Names

Embedded Log In/Subsystems Status

Show/Hide Subsystem

- Click arrow **up** to hide
- Click arrow **down** to show

Map: Managing Your View

- Zooming:
  - Zoom buttons in Navigation Pa...
- Panning:
  - Click and drag map
- Jump to Views:
  - Cities
  - Districts
  - Areas of Interest
  - Drop down box in panel

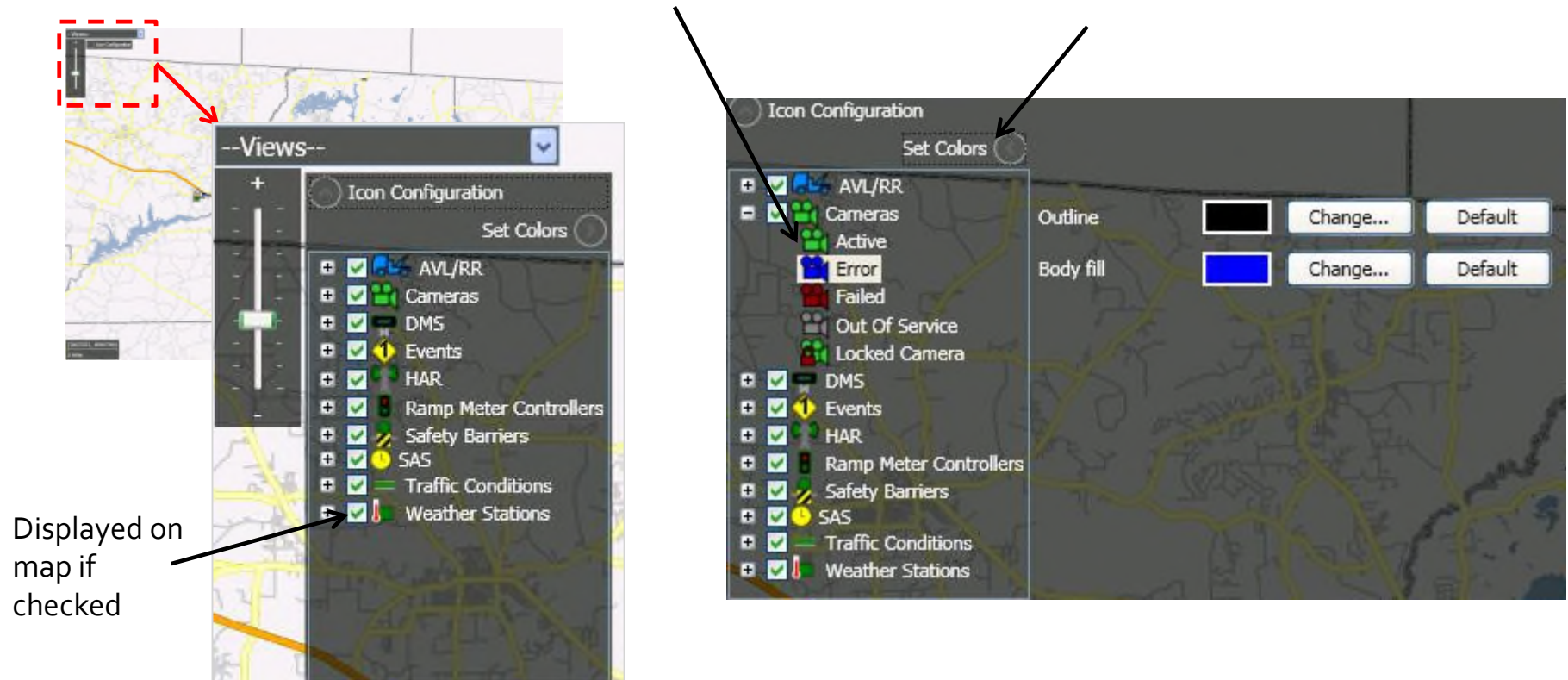Zooming
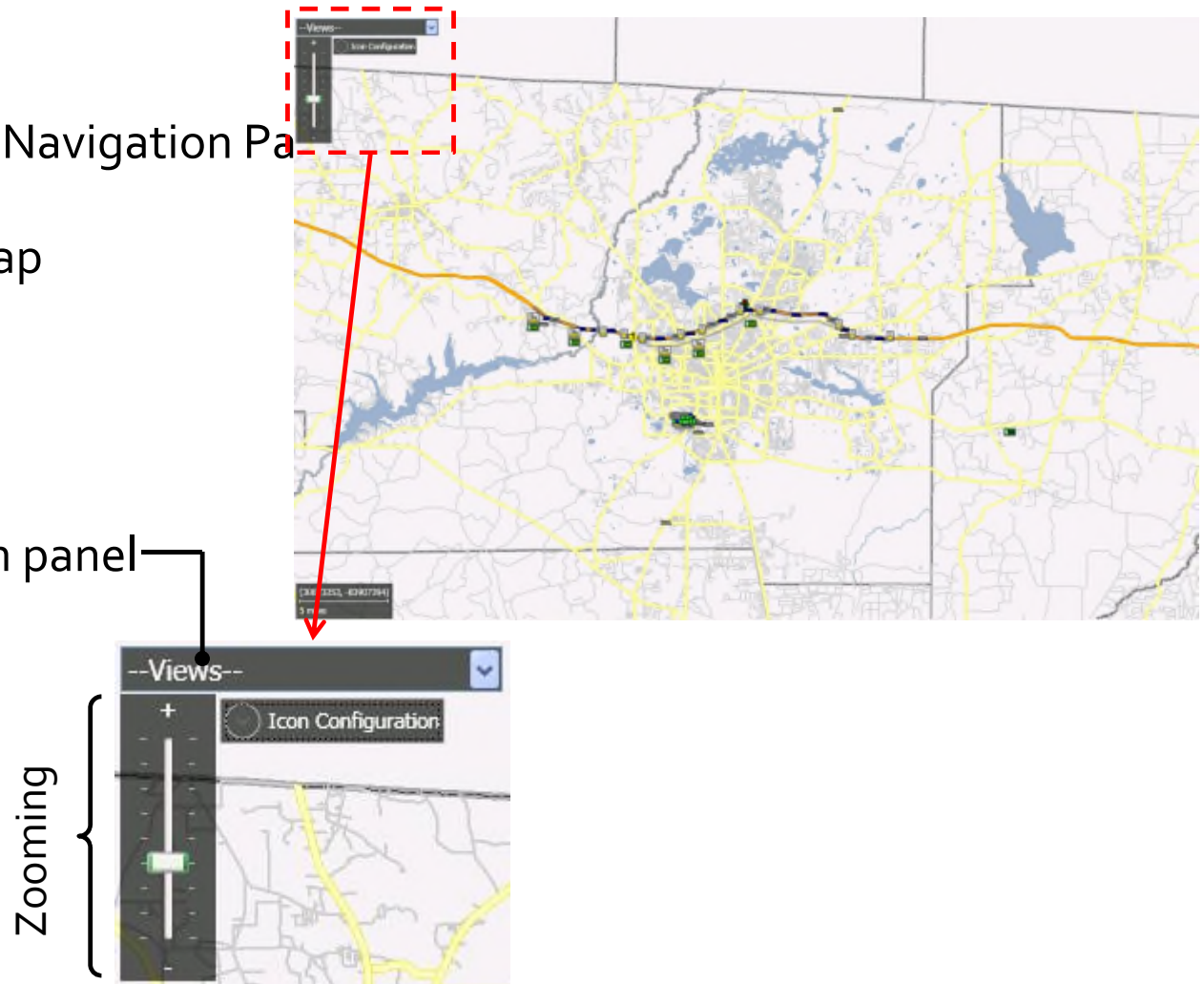
Map: Preferences

- Preferences Menu
  - Save Current Map View
    - Re-centers zoomable area of map
  - Save Current Window Positions
    - Windows will reopen to current position
    - General windows will reopen on login
  - Subsystems
    - Opens the window listing the subsystems that the user is logged into
  - Tile Sets
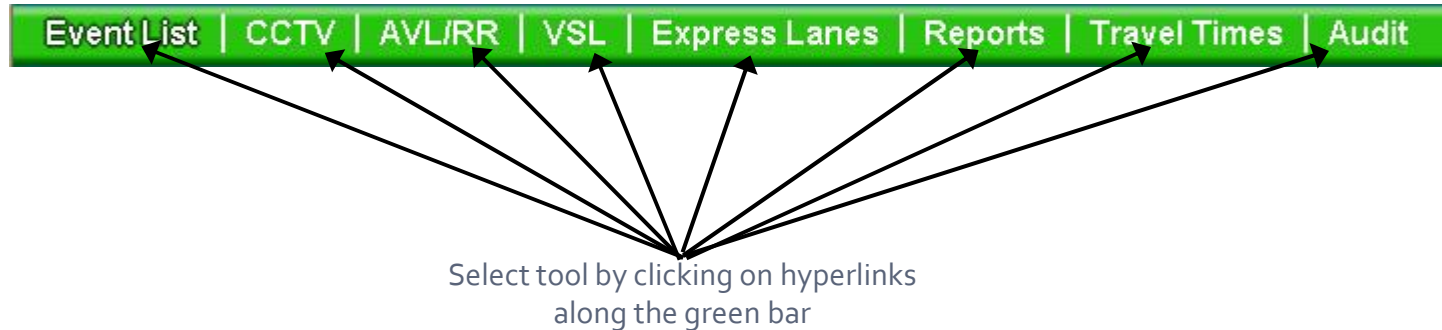   - Allows user to change the "tiles" used to draw the map
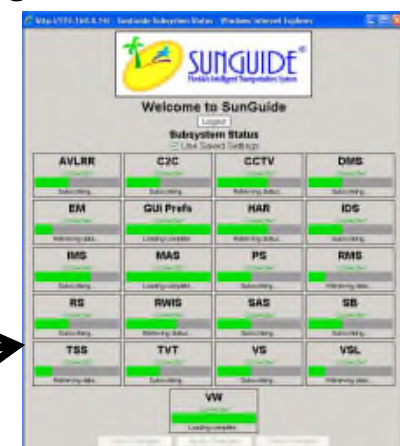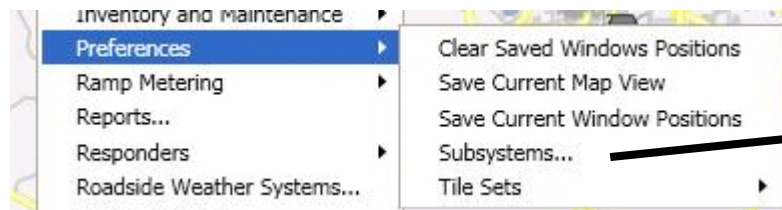
Map: Icon Configuration

- Icon Configuration is found at the top left corner of the map
- Selected icons are displayed on the map
- The color of icon states can be altered

Displayed on map if checked

Map: Tabbed Window

| Event List | CCTV | AVL/RR | VSL | Express Lanes | Reports | Travel Times | Audit |

Select tool by clicking on hyperlinks
along the green bar

- To open the Tabbed GUI window, Right-click on Map
  - Event Management->Event List
- The Tabbed GUI window contains a common "utility bar" at the top of the window.
  - Allows operators to toggle between different SunGuide tools within the same window without having to go back to the operator map

WPF Windows and Lists

- Dialog windows are being converted to Windows Presentation Framework

  - Abandoning Internet Explorer, HTML, javascript for more robust GUI with richer user experience

- Ribbons on top and context menus on items provide access to functions to be invoked on the device

- Lists on top have multiple columns that support sorting, quick filtering, and advanced

- Details on bottom have tabs corresponding to selected item in the list

- Status bar on bottom provides acknowledgement or error messages

- Slider bar in between list pane and details pane can adjust real estate between the panes

WPF Window Features

Sort Button

Ribbon Controls

Filter Button revealing filter menu

Ribbon Controls

List Pane

Details Pane

Status Bar

Hover mouse between list and details pane to reveal slider bar for resizing between panes

RWIS Station Status

Set Op Status · Refresh Status · Find on Map · Stations · Thresholds

Station · Configure

Name ▲	Op Status	Roadway/Directi...	Temperature	Average Wind Spe...	Avg. Wind D
RWIS_I10MM193.5...	Failed	I-10 Westbound		0	N
RWIS-2	Out of Service	I-10 Eastbound			

(Blanks)
(Non blanks)
I-10 Eastbound
I-10 Westbound

Overview | Air/Visibility | Pavement | Precipitation | Ten...

Temperature: **N/A** °F   Wind: **0** MPH **N**

Relative Humidity: **0** %   Air Pressure: **0.00** in Hg

Precipitation Type: **Invalid Value**   Visibility: **Fog**

Precipitation Rate: **0.00** in/hr   Last Poll: **08/05/2015 17:27:03**

ⓘ 0 ✓ 0 ✖ 0   ⓘ No status messages reported.

What's New?

- Release 6.1 Major Enhancements:
  - SAA User Management
  - NOKIA Interface
  - ONVIF CCTV Driver
  - Wrong Way Driving Interface/Alarms
  - Beacon Management Subsystem and Driver
  - RWIS NTCIP v2 and v3 and GUI Improvements
- Several Minor Enhancements and Footprint Fixes
- Release 6.1 Features List Webpage:

  http://sunguidesoftware.com/releases/release-6-1-current

New Map Tiles

- County Border
- City Border
- Shields

- Arterial Road Names
- City Road Names

Embedded Log In/Subsystems Status

Show/Hide Subsystem

- Click arrow **up** to hide
- Click arrow **down** to show

VoD: Camera List (FP 2716)

- Camera List on left side as alternative to map icons

- Translucent button to show/hide:

VoD: Camera Controls with New Digital Zoom

Lock Camera

Pan/Tilt

Zoom

Right click

Focus

Presets

VoD: Additional New Features

- Improved VOD PTZ (FP 2730, 2887)
- VLC Digital Interactive Zoom Functionality from VOD (FP 2508)
- Add ability to add a camera for Video on Desktop purposes but has no camera controls (FP 2730)
- Added ability to configure and use remote center CCTV video streams within Video on Desktop
- Added option stretch Video on Desktop windows by default (FP 2458)

TSS: Nokia / HERE.com Data

- ## What is Nokia / HERE.com?

  - Third Party Vendor that FDOT has paid to provide travel speed data

  - Data purchased includes travel speed data to FDOT for all of I-10 and the northern end of I-75

  - Available to all districts
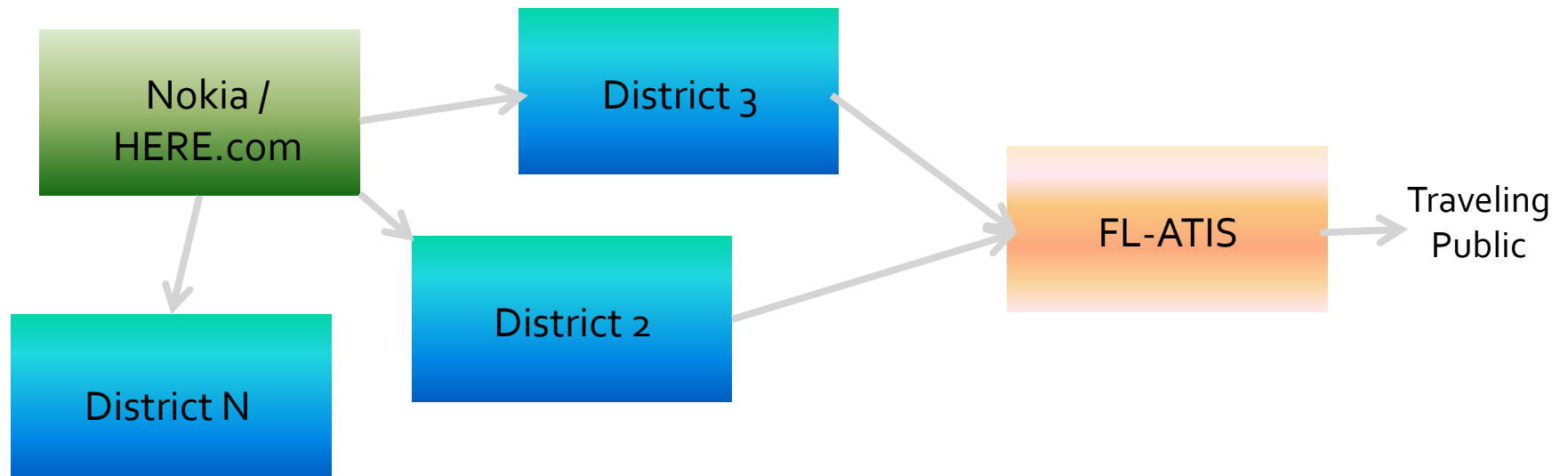
TSS: Nokia / HERE.com Data

- Data includes average per lane speeds, time/date and link names only
- Does not include occupancy, volume, polled values, or device status
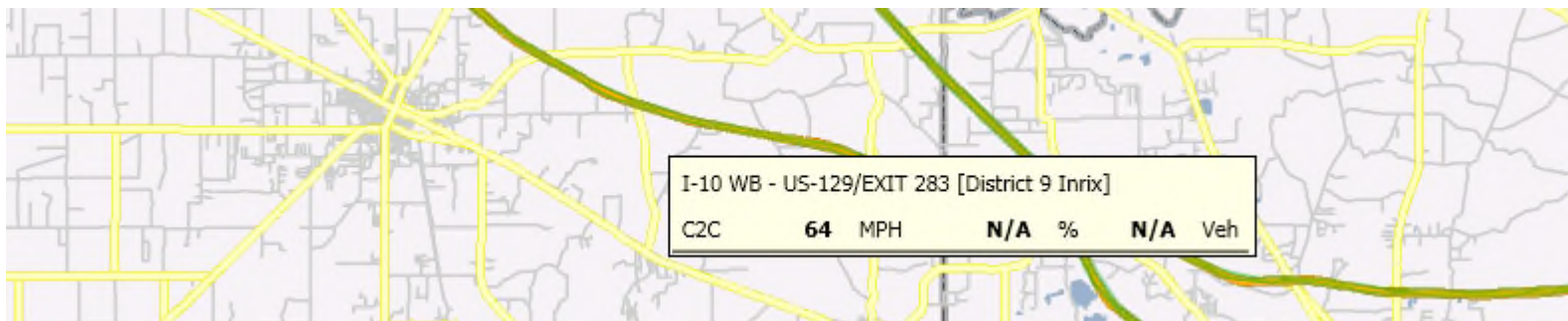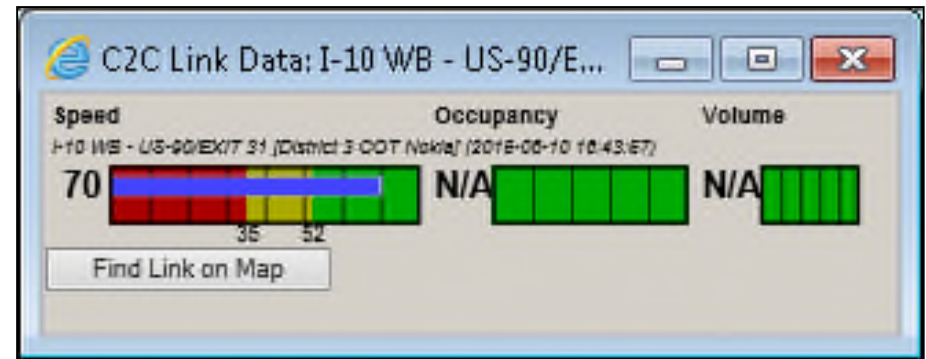
TSS: BlueTOAD

- BlueTOAD (Bluetooth Travel-time Origination And Destination) detects anonymous MAC addresses through Bluetooth.
- The system calculates travel time through analysis of subsequent detections.
- Data received in SunGuide in a similar fashion to INRIX.
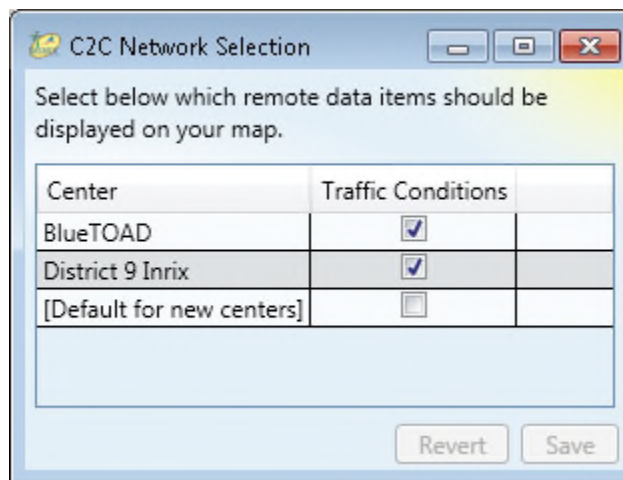
DMS Groups

- Add, Delete, or Rename Groups up top
- Add or remove DMSs in the selected group at the bottom
- Be sure to click save and verify a successful message in the status messages at the bottom
- Use Groups in place of single DMSs elsewhere in SunGuide – manual messaging, response plan, SAS schedules, etc.
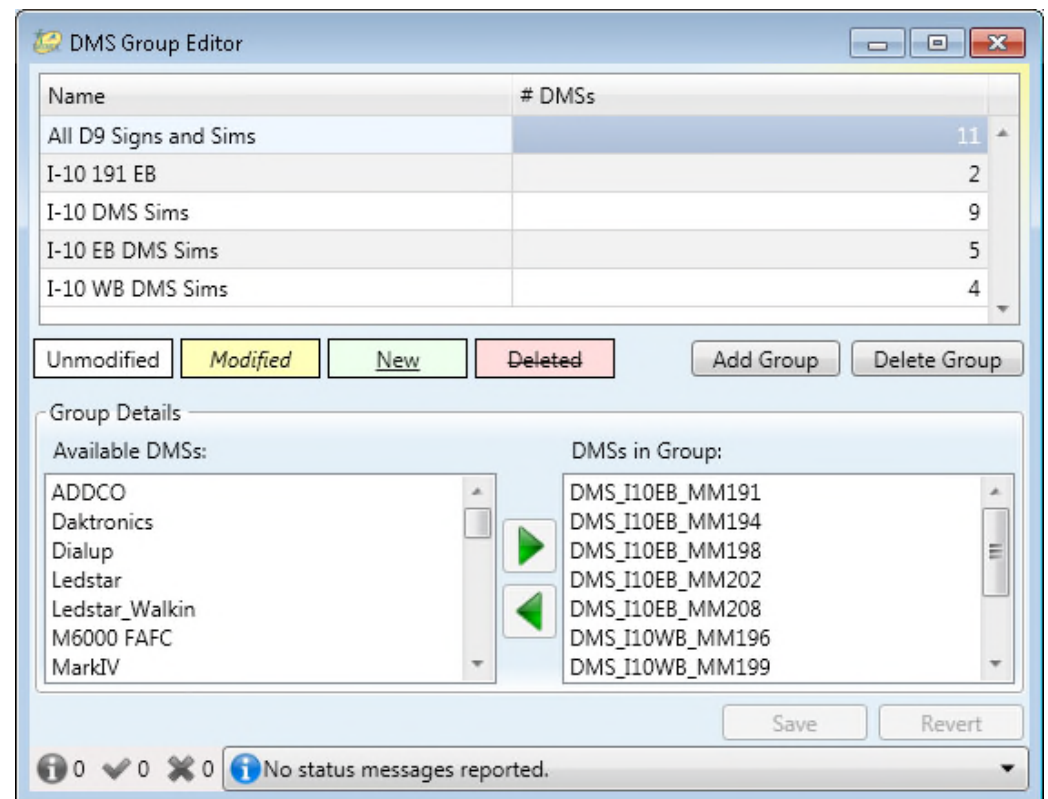
DMS Groups: Manual Message

1. Select DMS Group to filter DMS Device Status Window

2. Click Add Message
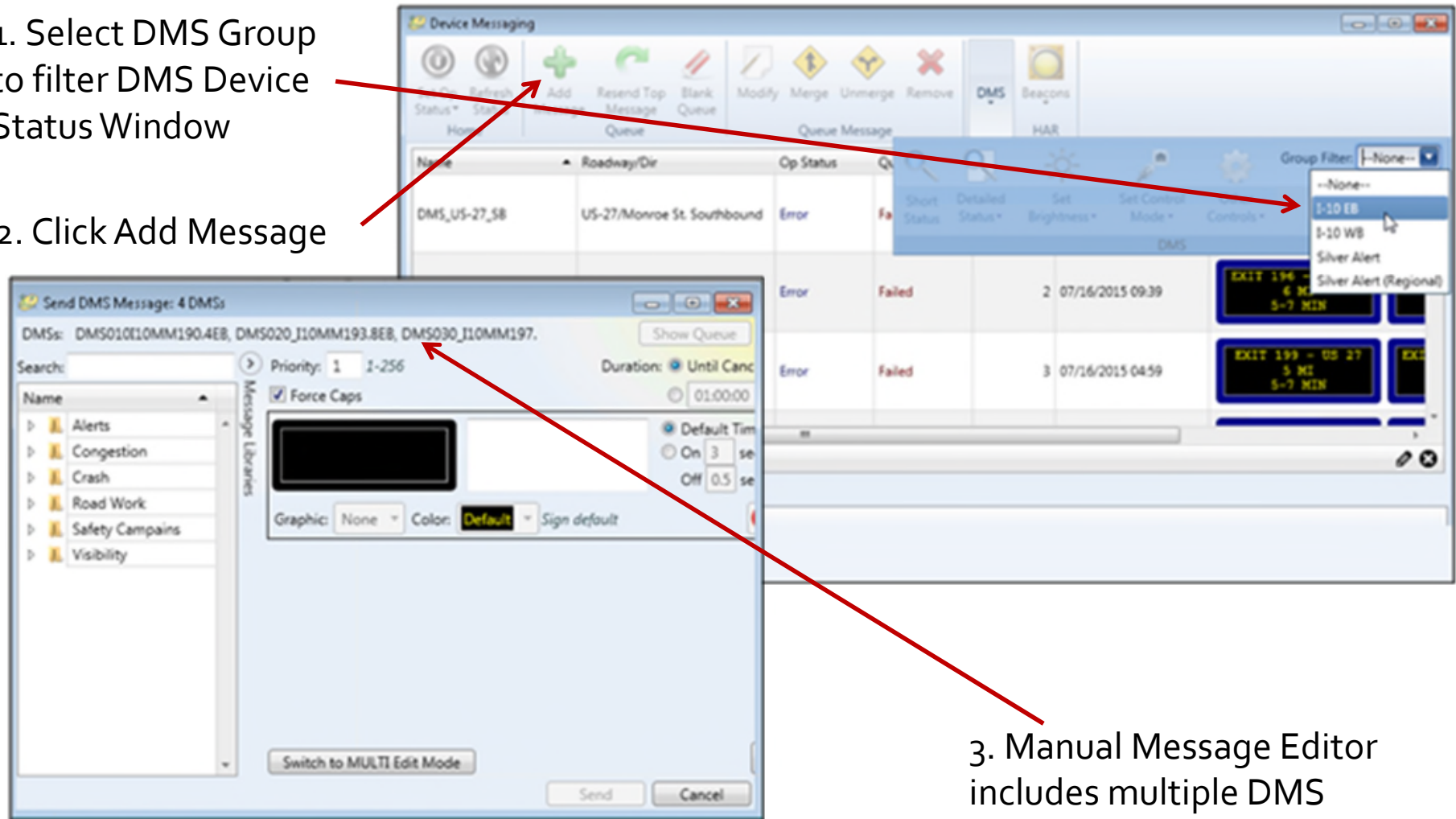
3. Manual Message Editor includes multiple DMS

DMS Groups: Predefined Plan

1. Filter
DMSs
by DMS
Group
Filter
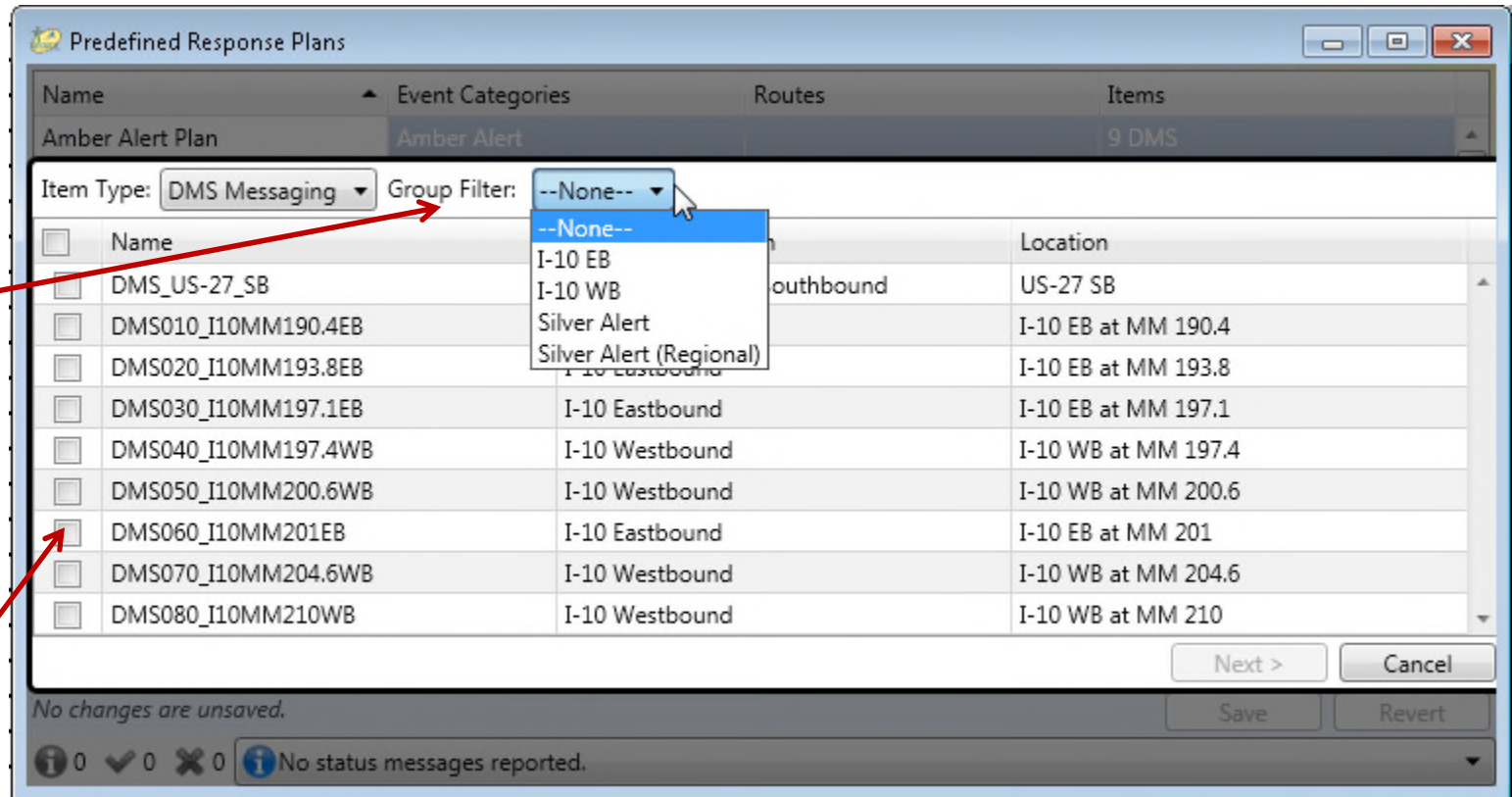
2. Select DMSs to add to plan
Note: DMSs within the group are added
individually, not as a group object

DMS Groups: Response Plans

1. Add DMS Group item to Reponses Plan
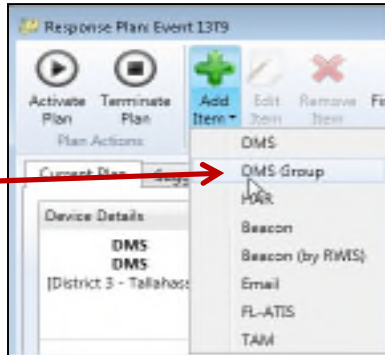
2. Select which group to add to response plan
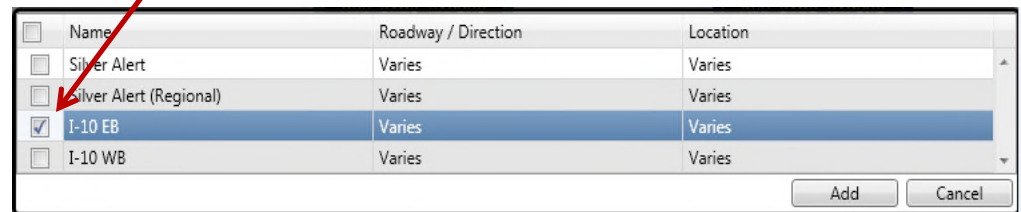
3. DMSs added individually to response plan. Note: not added as a group
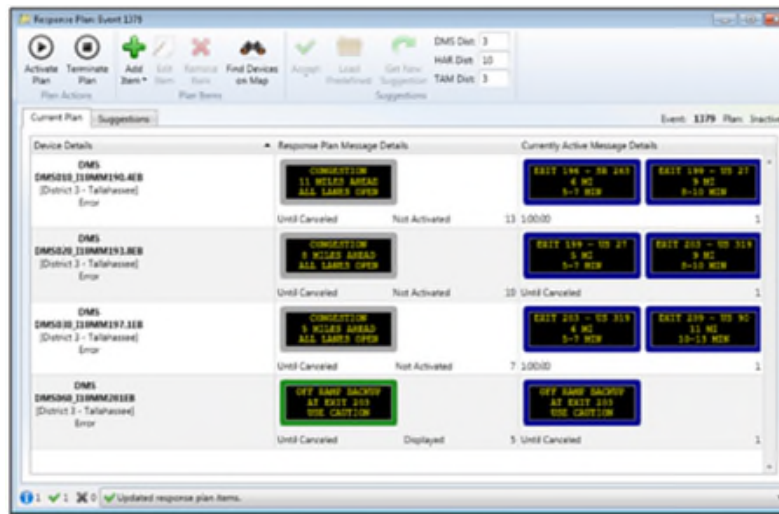
4. DMSs can be multiple-selected and have their message changed

DMS Groups: Scheduled Items

Add Group to Scheduled item

DMS: Contractions as Approved Words

- Send message
  - From Short Status Window
  - Or, from "Add Message" button within the Device Messaging Window
  - "IT'S" and other contractions can now be added as an approved word
- Ability to create messages with:
  - Multiple pages
  - Graphics
  - Custom Colors
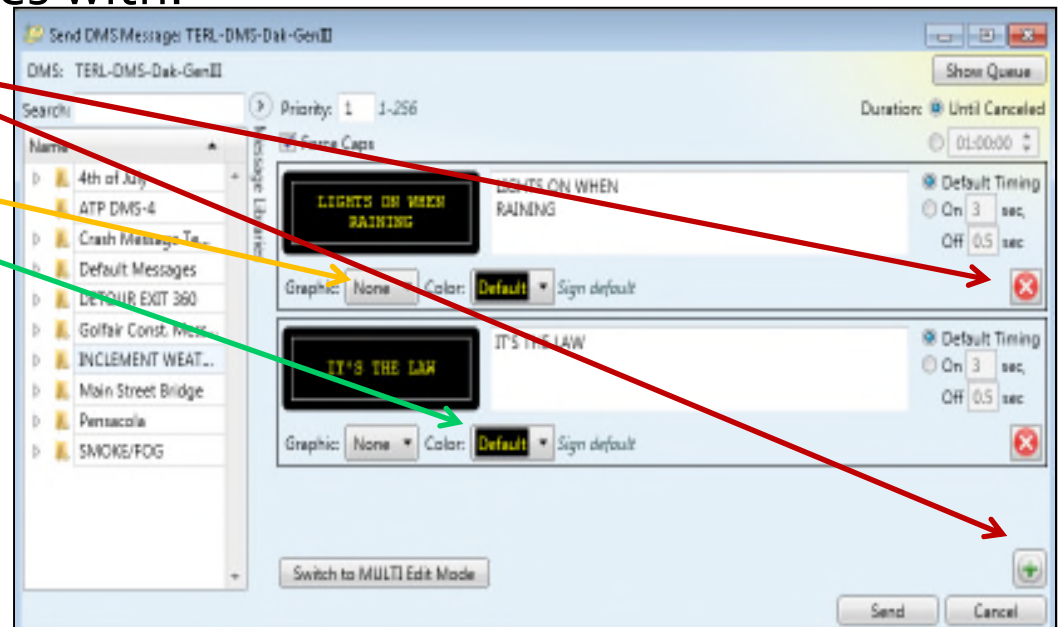
FL-ATIS: Re-Publish

- List is filtered to not include closed events

EM: Response Plan Status

Add New Schedule Item: Response Plan Actions

- For response plans, the user chooses an event on the items tab.
- The action choices are to activate or deactivate the response plan for the chosen event.
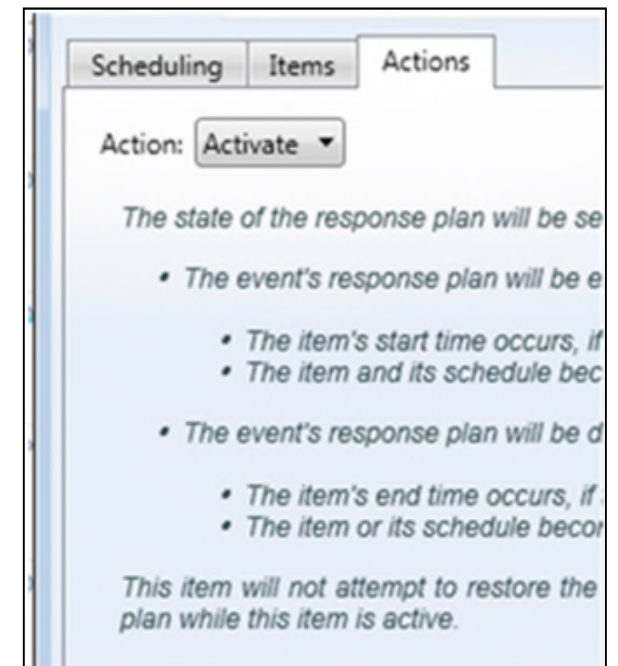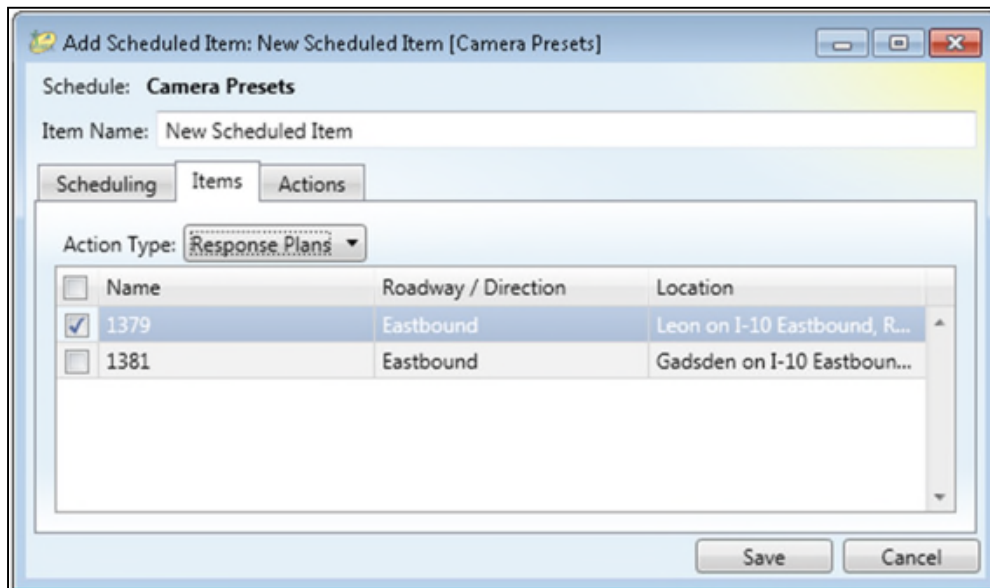
How Do Beacons Work?

- Beacons indicate that a static message is active, i.e. "Fog Advisory When Flashing"
- Activations are treated like messages in the MAS queue – one or more messages present will activate the beacon
- SunGuide can activate / deactivate Beacons manually or from a response plan or schedule

Beacon: Context Menu Options

- **BMS Device Context Menu**
  (right-click on local BMS device)

- **BMS Context Menu**
  (right-click on Operator Map)
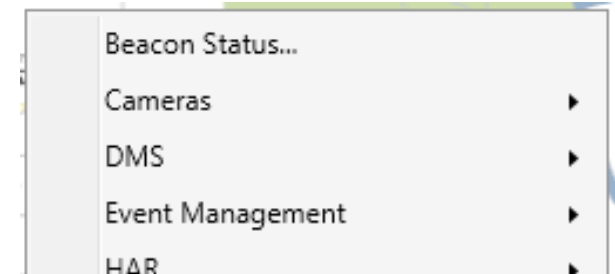
Beacon Configuration

- Add, Edit, Remove beacons
- Enter typical name and communications info
- Specify Sign Type to match static sign text
  - Used for including beacon in response plans

Beacon Device List and Queue Status

- **Device status on top in columns**

- **Status of selected device's queue on bottom**

Beacon: Manual Activation

- Select Beacon

- Click "Add Message"

- Select Priority

- Click Send
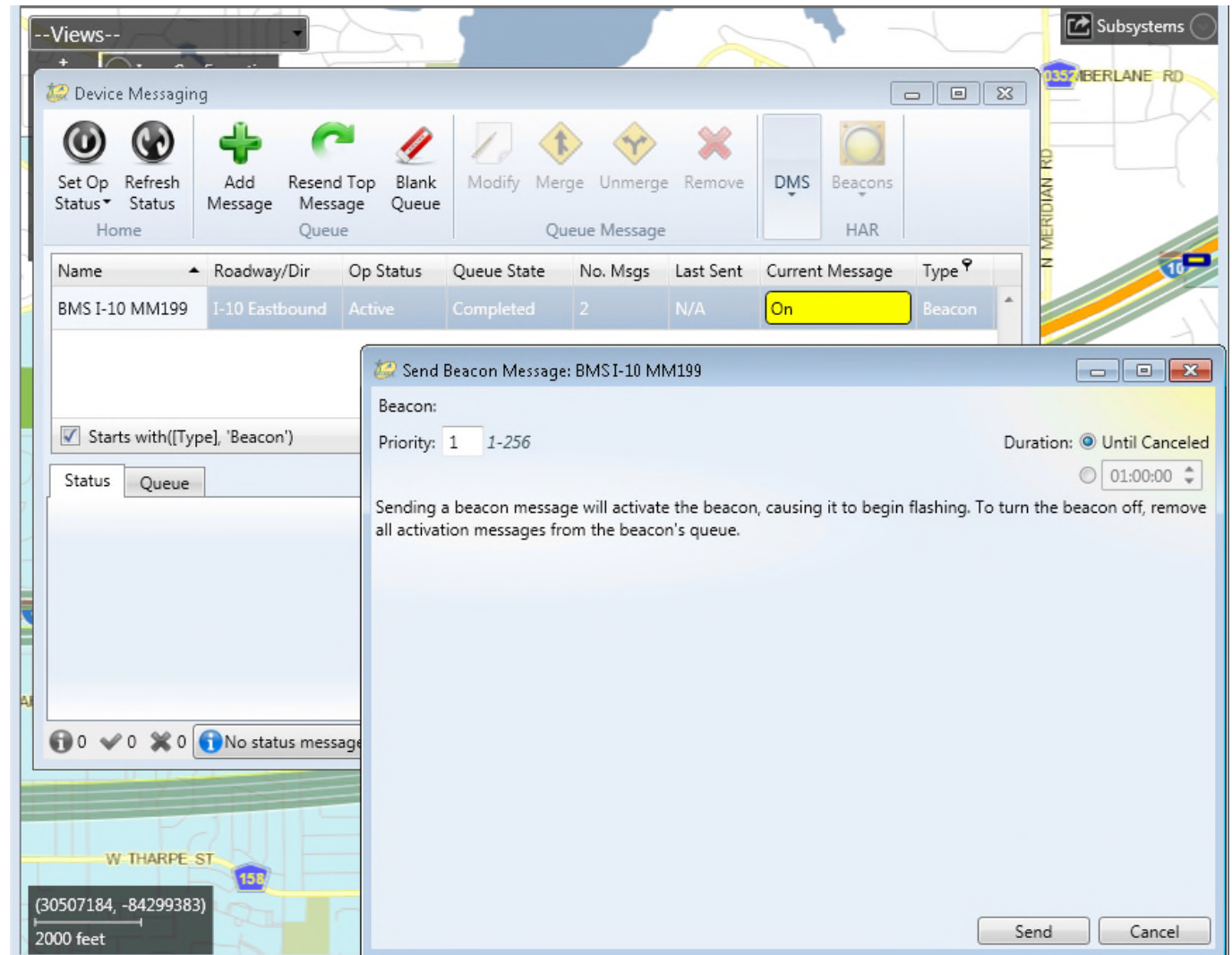
RWIS: Status

- **Weather Conditions at RWIS Station**
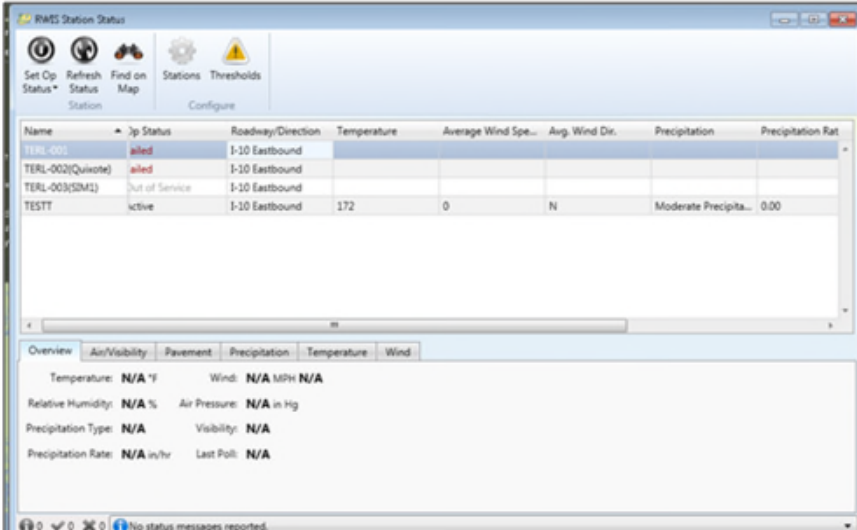 - **Air**
    - Air Pressure
    - Visibility
    - Situation (clear, cloudy)
  - **Pavement**
    - Temperature
    - Freezing Point
    - Black Ice
    - Surface Treatments
  - **Precipitation**
    - Precipitation Type
    - Current Depth
    - Accumulation Rate
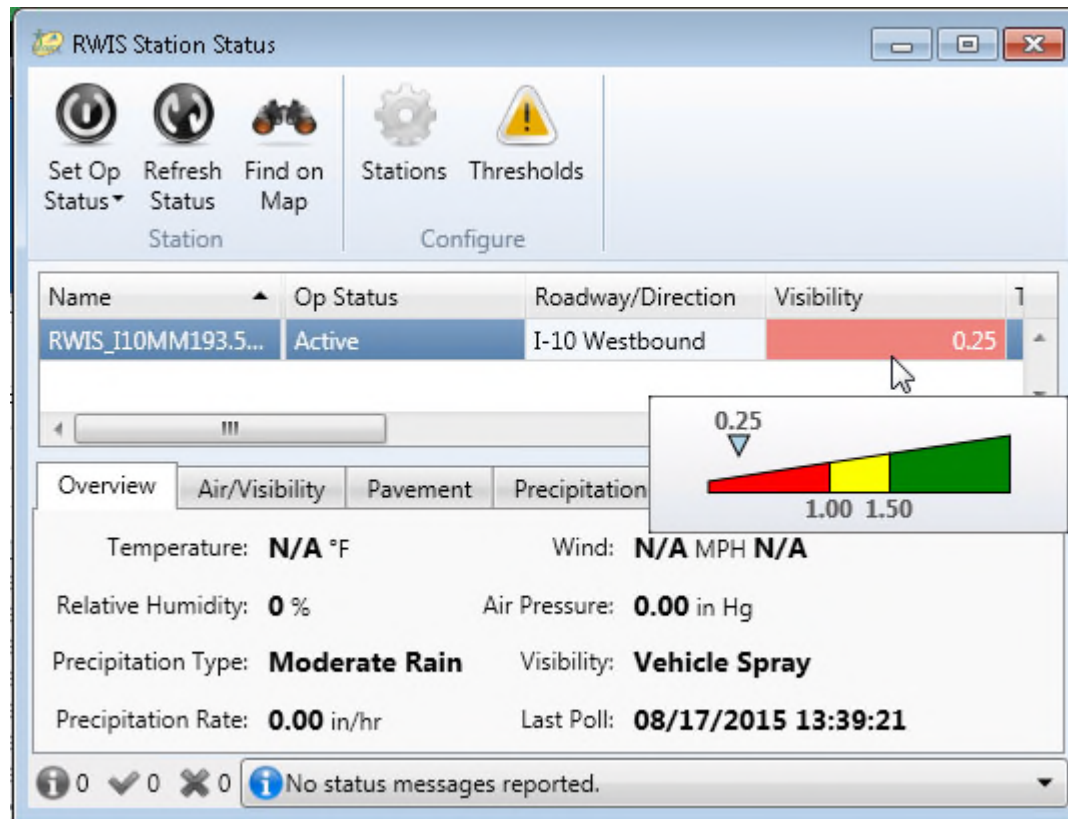   - Humidity

- **Temperature**
  - Air temperature
  - Dew point
- **Wind**
  - Average Speed / Direction
  - Current Speed / Direction
  - 10 Minute Gust Speed / Direction
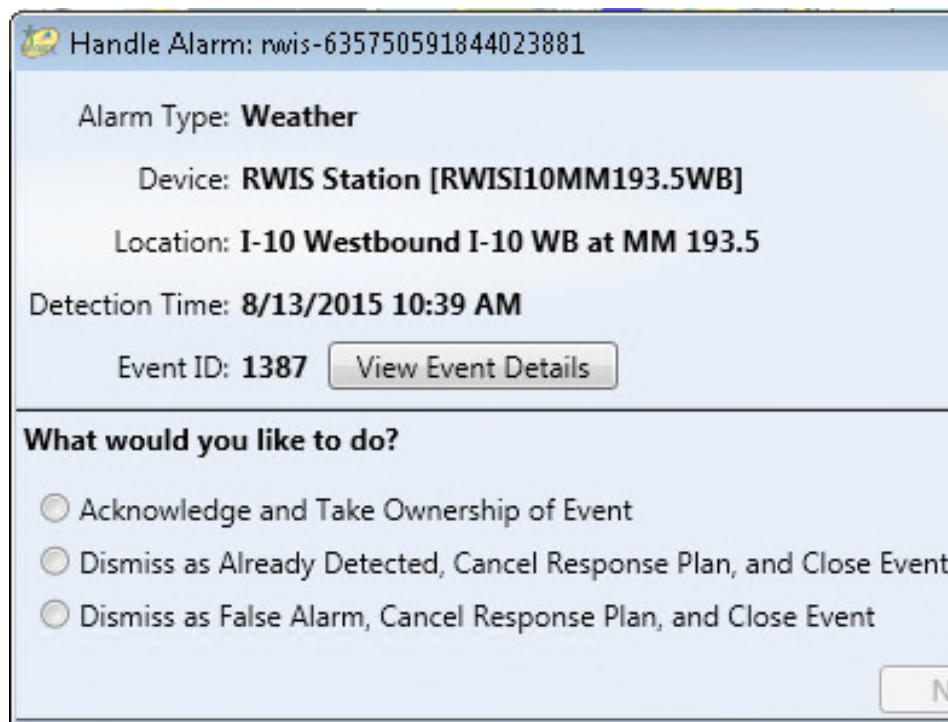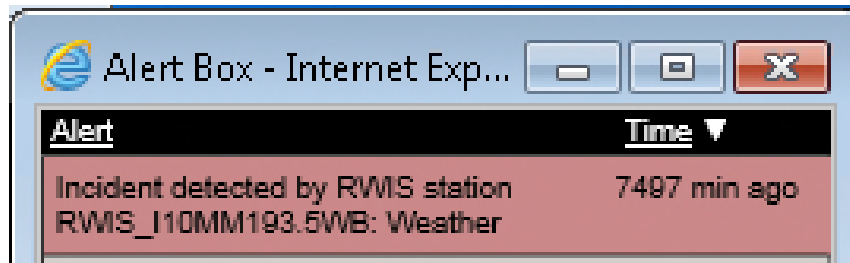
RWIS Data Exceeding Threshold

- Data exceeding a threshold generates an alarm

- Data is highlighted in the list
- Mouse hover shows the value of the alert relative to threshold

RWIS Alert

Alert Box - Internet Exp...

Alert	Time ▼
Incident detected by RWIS station RWIS_I10MM193.5WB: Weather	7497 min ago

Handle Alarm: rwis-635750591844023881

Alarm Type: Weather

Device: RWIS Station [RWISI10MM193.5WB]

Location: I-10 Westbound I-10 WB at MM 193.5

Detection Time: 8/13/2015 10:39 AM

Event ID: 1387 [View Event Details]

What would you like to do?

○ Acknowledge and Take Ownership of Event

○ Dismiss as Already Detected, Cancel Response Plan, and Close Event

○ Dismiss as False Alarm, Cancel Response Plan, and Close Event

[Next >]   [Cancel]

- **RWIS Alert Handling dialog when alert is clicked**
  - **If RWIS is configured for auto-activating a response plan,**
    - operator can take ownership of the event
  - **If RWIS is not configured for auto-activating a response plan**
    - operator can create a new event
    - Alerts in either case can be Dismissed

Beacon in Response Plan

- **Beacons can be added to response plans**

What's New?

- Release 6.2 Major Enhancements:
  - BlueMac TCP Server
  - Stale Remote/C2C TSS links Gray on Map
  - Independent toggle for local/C2C link display
  - Suppress Redundant C2C Alerts
  - Generate TSS-like alerts for C2C Data sources
  - DMS Force Blank in Status on Failure
  - DMS GUI Force Capital Letters
  - Use FHP CAD Direction to Filter Location
  - Operator Map for IE to WPF Conversion
  - Find on Map for Alerts
  - Add comments to closed events via audit

What's New?

- Release 6.2 Major Enhancements:
  - Ignore Spaces in EM Tag Lookup
  - Display vehicle beat on EM dialog
  - Discontinuous Lane Blockage
  - Highlight events owned by operators in the event list
  - Dismiss Upstream Redundant TSS Alerts
  - Add Year Field to Involved Vehicle and Response Plan
  - Event type templates & head & tail tags
  - Per-event type templates
  - Several Minor Enhancements and Footprint Fixes

- Release 6.2 Features List Webpage:
  - http://sunguidesoftware.com/releases/release-6-2-future