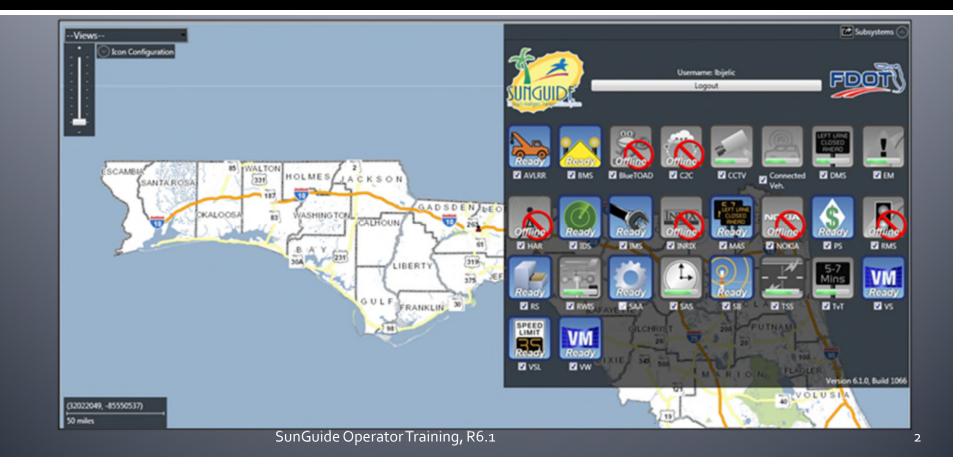






Operator Map



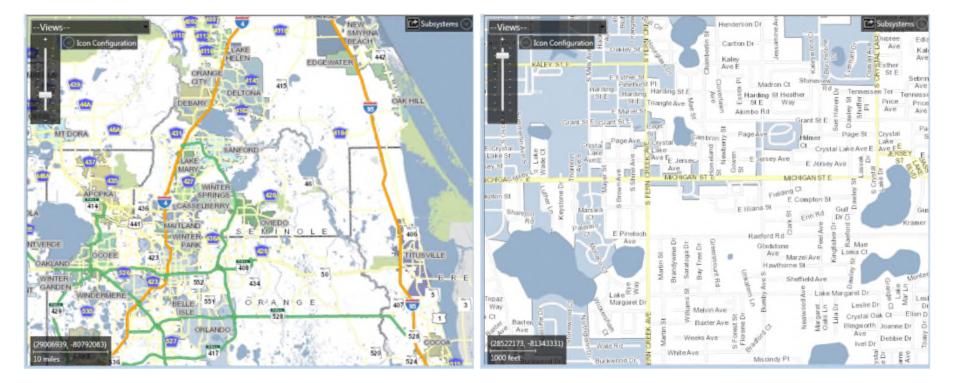
Map: General Concepts

- 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





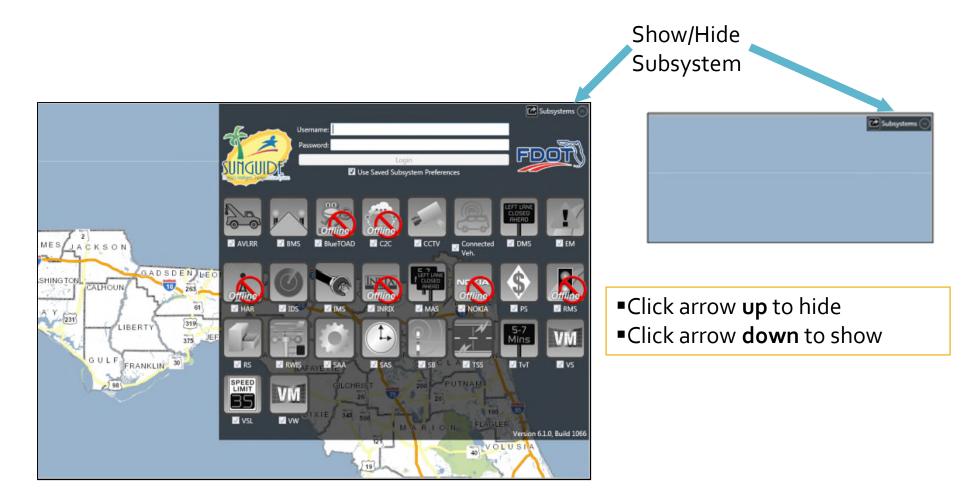
New Map Tiles



County BorderCity BorderShields

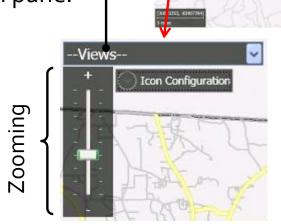
Arterial Road NamesCity Road Names

Embedded Log In/Subsystems Status



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.



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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



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SUNGUIDE

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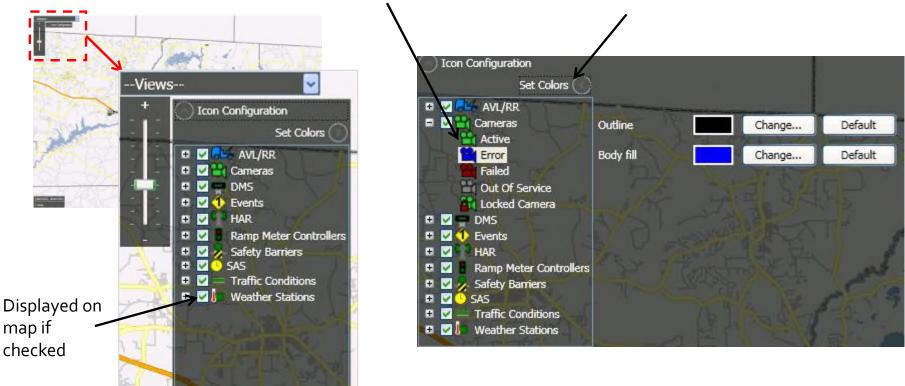
IDE

AVLR

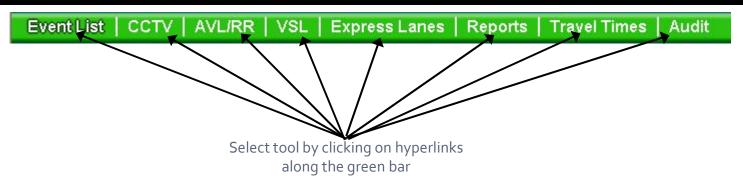
GUI Prefi

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



Map: Tabbed Window

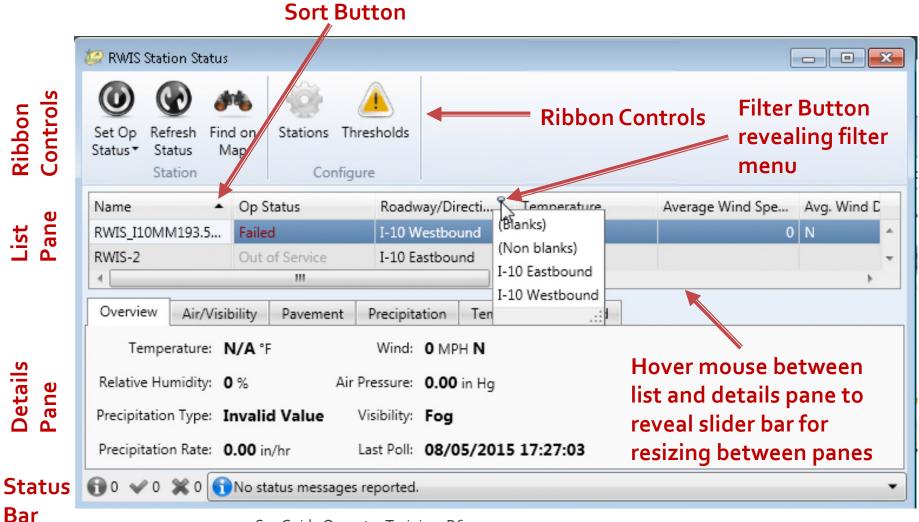


- To open the Tabbed GUI window, Right-click on Map
 - Event Management->Event List
- The Tabbed GUI window contains a common "utility bar" at the top of the window.
 - Allows operators to toggle between different SunGuide tools within the same window without having to go back to the operator map

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



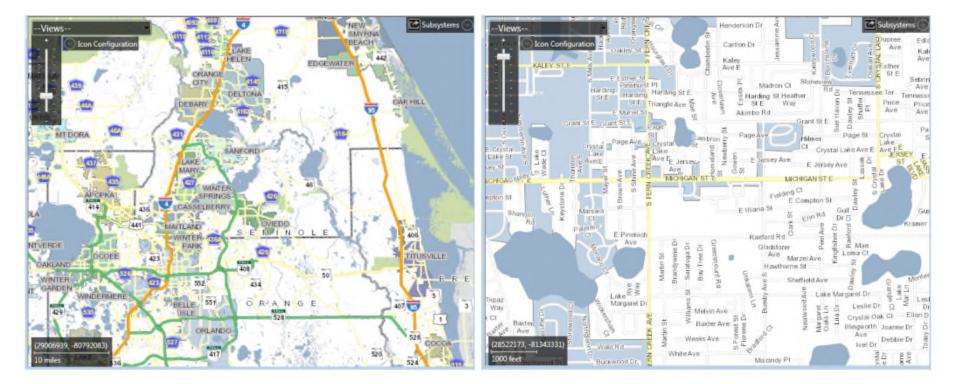
What's New?

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

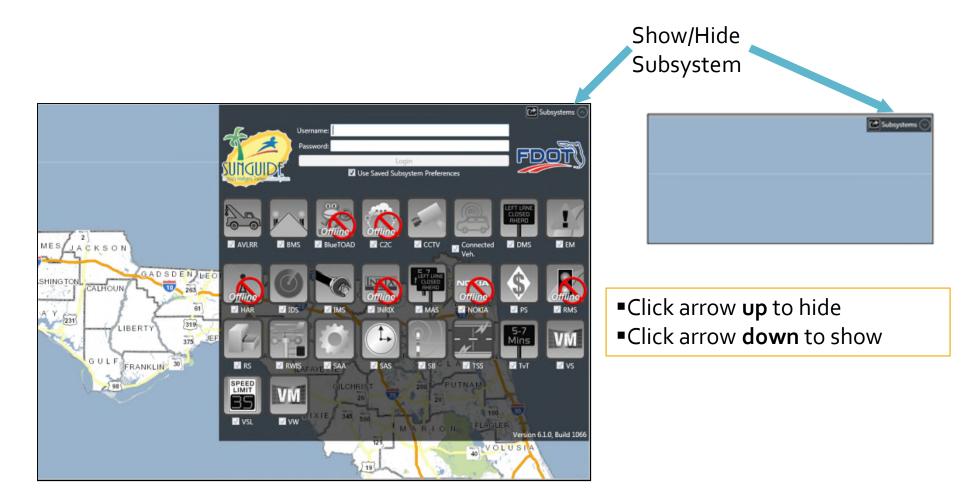
New Map Tiles



County BorderCity BorderShields

Arterial Road NamesCity Road Names

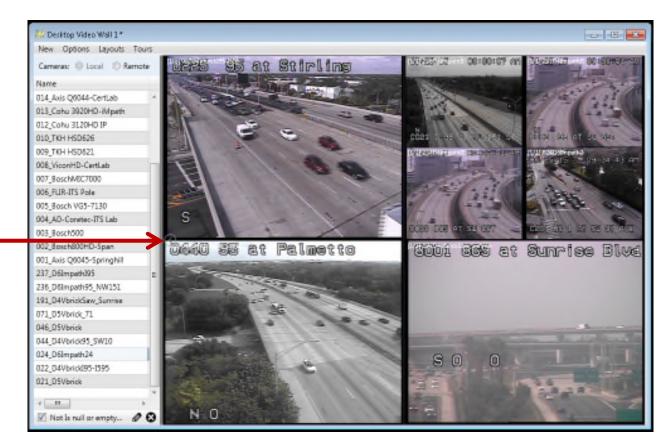
Embedded Log In/Subsystems Status



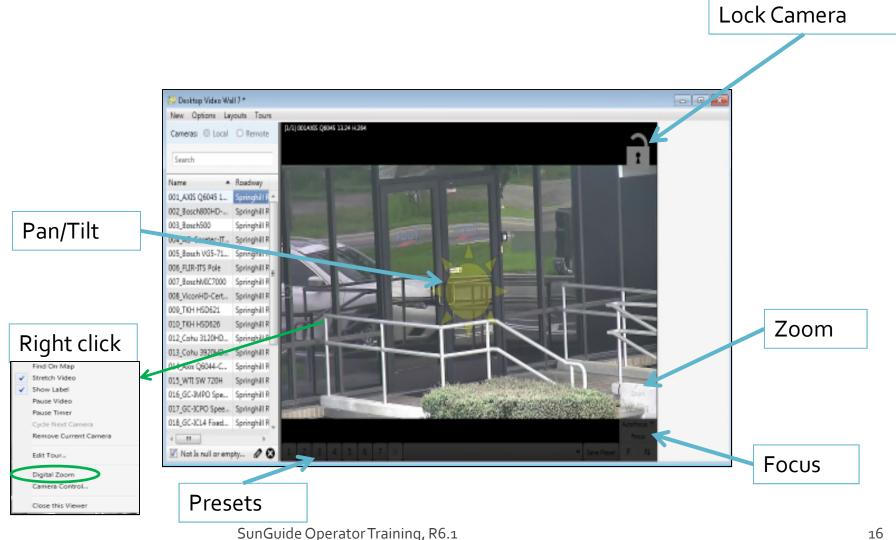
VoD: Camera List (FP 2716)

- Camera List on left side as alternative to map icons
- Translucent button to show/hide:





VoD: Camera Controls with New Digital Zoom



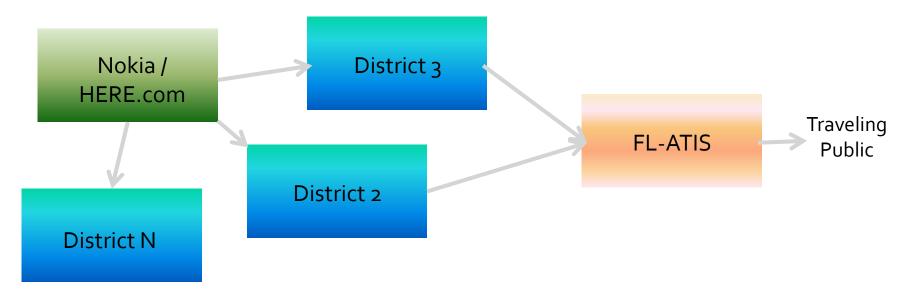
¹⁶

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)

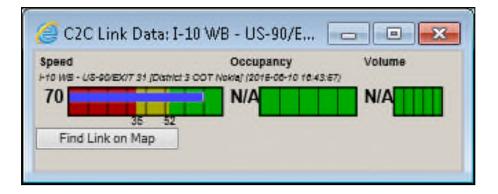
TSS: Nokia / HERE.com Data

- 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.

Center Traffic Condition	
BlueTOAD 🛛	
District 9 Inrix	
[Default for new centers]	

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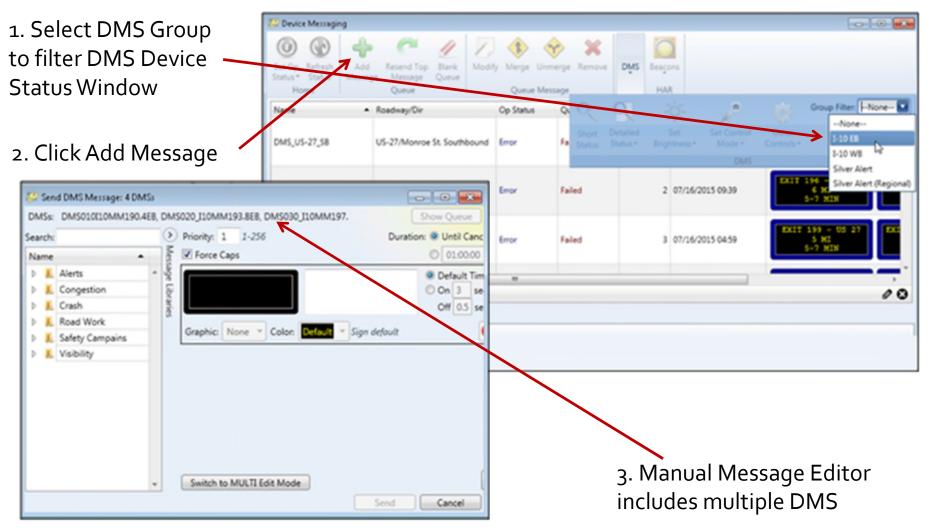
DMS Groups

- 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.

Name	# DMSs	
All D9 Signs and Sims		
I-10 191 EB		2
I-10 DMS Sims		9
I-10 EB DMS Sims		5
I-10 WB DMS Sims		4
Group Details		
	DMSc in Groups	
Available DMSs:	DMSs in Group:	
	DMS_I10EB_MM191	
Available DMSs: ADDCO		Γ
Available DMSs: ADDCO Daktronics	DMS_I10EB_MM191 DMS_I10EB_MM194	Γ
Available DMSs: ADDCO Daktronics Dialup	DMS_I10EB_MM191 DMS_I10EB_MM194 DMS_I10EB_MM198	-
Available DMSs: ADDCO Daktronics Dialup Ledstar	DMS_I10EB_MM191 DMS_I10EB_MM194 DMS_I10EB_MM198 DMS_I10EB_MM202	Γ
Available DMSs: ADDCO Daktronics Dialup Ledstar Ledstar_Walkin	DMS_I10EB_MM191 DMS_I10EB_MM194 DMS_I10EB_MM198 DMS_I10EB_MM202 DMS_I10EB_MM208	Г

DMS Groups: Manual Message

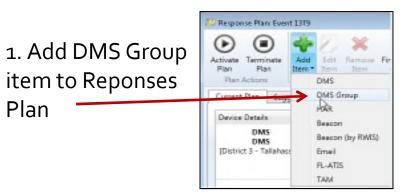


DMS Groups: Predefined Plan

	💯 Predefined Response Plans		
1. Filter	Name	gories Routes	Items
DMSs	Amber Alert Plan Amber Ale	t	9 DMS
by DMS	Item Type: DMS Messaging 🔹 Group Filter		
Group	Name	I-None	Location
	DMS_US-27_SB	I-10 WB outhbound	US-27 SB 🔦
Filter	DMS010_I10MM190.4EB	Silver Alert	I-10 EB at MM 190.4
-	DMS020_I10MM193.8EB	Silver Alert (Regional)	I-10 EB at MM 193.8
	DMS030_I10MM197.1EB	I-10 Eastbound	I-10 EB at MM 197.1
1	DMS040_I10MM197.4WB	I-10 Westbound	I-10 WB at MM 197.4
1	DMS050_I10MM200.6WB	I-10 Westbound	I-10 WB at MM 200.6
]	DMS060_I10MM201EB	I-10 Eastbound	I-10 EB at MM 201
	DMS070_I10MM204.6WB	I-10 Westbound	I-10 WB at MM 204.6
	DMS080_I10MM210WB	I-10 Westbound	I-10 WB at MM 210 👻
			Next > Cancel
	No changes are unsaved.		Save Revert
	🕤 0 🛩 0 💥 0 🕤 No status messages re	ported.	*

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

DMS Groups: Response Plans



2. Select which group to add to response plan

Name Name	Roadway / Direction	Location
Silver Alert	Varies	Varies
ilver Alert (Regional)	Varies	Varies
I-10 EB	Varies	Varies
I-10 WB	Varies	Varies

3. DMSs added individually to response plan. Note: not added as a group

nd Devices on Map	HAR Dire	10	
			ent 1379 Par Just
· Response Plan Messe	ge Details	Currently Active Message Details	
ALL LARGE OF	A#	4 M2 5-7 M20	117 180 - 115 21 3 82 8-10 828
Uvtil Carveled	Not Activated	13 100:00	1
		6411 1349 - 105 27 5 MG 5-7 MDM	17 263 - 00 313 9 82 8-10 828
Until Canvaled	Not Activated	10 Until Cancelled	1
CONDECTION 5 MILES AND ALL LANCE OF	2	6 HE 1 253 - 53 354	11 419 - 13 90 11 80 11-13 808
Until Canceled	Not Activated	7 100/0	1
AT EXIT 20		OFF BARE BACKET AT EXIT 100 UNE CARTION	
Until Cancelled	Deplayed	5 Until Carcolled	1
	en May	HALDER HALDER	en Mag Suggestions TAM Dist 3 Suggestions Tam Dist 3

4. DMSs can be multiple-selected and have their message changed

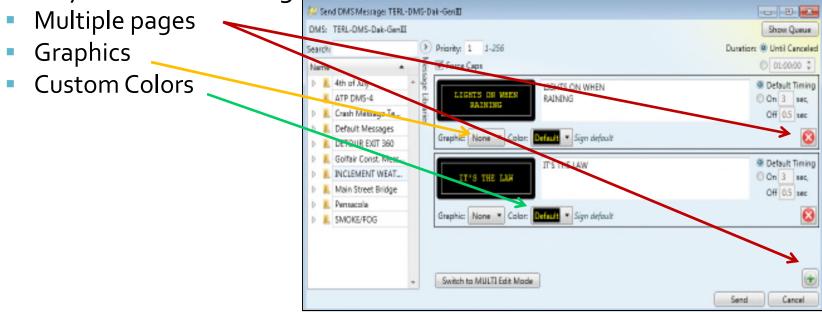
DMS Groups: Scheduled Items

Add Group to Scheduled item

Item Name: New	Scheduled Item			
Scheduling Ite	ems Actions			
Action Type: D	MS Group Messaging 🔻			
Name	CTV PTZ/Preset MS Messaging	vay / Direction	Location	
Silver At D	MS Group Messaging		Varies	
Silver Ale Sc	hedule Activation		Varies	
	avel Time Devices		Varies	
I-10 WB Re	avel Time Systemwide eports		Varies	
Re	esponse Plans			

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:



FL-ATIS: Re-Publish

List is filtered to not include closed events

http://192.168.8.114/ - Republish FL-ATIS Events - Windows Internet Explorer

Republish Events to FL-ATIS

11969 05/18/2015 16:19 Emergency Road Work Leon on I-10 Eastbound, At MM 206

11969 05/18/2015 16:19 Emergency Road Work Leon on I-10 Eastbound, At MM 206

11971 06/18/2015 11:35 Crash Leon on I-10 Eastbound, At US-27 11972 06/18/2015 12:36 Weather Leon on I-10 Eastbound, Ramp From US-27 Ramp From 11977 08/06/2015 08:50 Wrong Way Driver Leon on I-10 Westbound, At MM 214

- • X

EM: Response Plan Status

tivate Plan Plan Actions	on Map Predefined Suggestion TAM Dist 7	
Current Plan Suggestions Device Details	Response Plan Message Details Currently Active Message Details	11972 Plan Ac
511 ATIS	Weather Event in Leon county, going Eastbound on I-10 rampFrom US-27 Ramp From with All lanes blocked Last updated 7/27/2015 4:10:19 PM	
Beacon BMS I-10 MM199 [District 9] Failed	On Until Canceled Unknown (No MAS Queue) 255 Until Canceled	255
Email	Email Groups: 4.2.2 IVV Mail list, IV&V Mail List, Test Cas Subject: Title: Weather Alert: Location: LEON I-10 EB Ramp From Exit 199199 US-27 Body: All Lanes Blocked, Left Shoulder Open	
HAR HAR [District 9]	WEATHER ALERT RAMP FROM US-27[NL] ON I-10 EASTBOUND[NL]ALL LANES BLOCKED. Until Canceled Unknown (No MAS Queue) 7	

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 choices are to activate the response plan for the choices are the response plan for the response plan for the choices are the response plan for the choices are the response plan for the respon

	Sellevel	<u>IL.</u>
Add Scheduled Item: New Sci	neduled Item [Camera Presets]	
Schedule: Camera Presets		
Item Name: New Scheduled Ite	em	
Scheduling Items Action	ns	
Action Type: Response Plans		
Name	Roadway / Direction	Location
1379		Leon on I-10 Eastbound, R 🔺
1381	Eastbound	Gadsden on I-10 Eastboun
		Save Cancel

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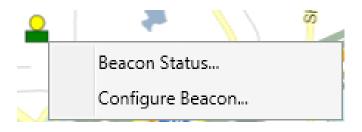
Scheduling	Items	Actions	
Action: Acti	ivate 🔻		
The state of	of the res	ponse plan	will be se
• The e	event's re	sponse pla	n will be e
		s start time and its sch	
• The e	event's re	sponse pla	n will be d
		s end time or its sche	
This item plan while		tempt to re is active.	store the

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 Status		
Cameras	•	
DMS	•	
Event Management	•	
HAR		

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 Configur	ration											[- • •
New Delete Beacon Beacon Beacons	Find on Pla Map Beacon Loc	Map											
Name	Sign Type	Host/IP	Port	Protocol	Driver	Poll Cycle	Roadway	Direction	Latitude	Longitude	Location Desc. 🔺	Manufacture	r
BMS I-10 MM199	High Winds	192.168.8.114	50101	WebRelay	WebRelayDriver	12	I-10	Eastbound	30488621	-84311141	I-10 WB MM 199	Xytronix	*
													-
Unmodified M	odified	New	Deleted										
No changes are unso	ived.											Save	Revert
€ 0 √ 4 % 0	✓ Modified	beacon BMS I-1	0 MM19	9									•

Beacon Device List and Queue Status

- Device status on top in columns
- Status of selected device's
 queue on bottom

Set Op Refre Status▼ Statu Home		Add essage	Resend Messa Queu	age Queue	-	ge Unmerge ieue Message		DŲJS	Beaçons HAR	
Name	▲ R	loadway/	/Dir	Op Status	Queue State	No. Msgs	Last Sent	Current	t Message	Type 🕈
BMS I-10 MM1	199 I			Active				On		Beacon
Starts with		'Beacon')							0
	eue	'Beacon' essage	') Owne	r	Event	Exp	iration			Ø
Status Que	eue	essage			Event		iration til Canceled			0

Beacon: Manual Activation

SelectBeacon

 Click "Add Message"

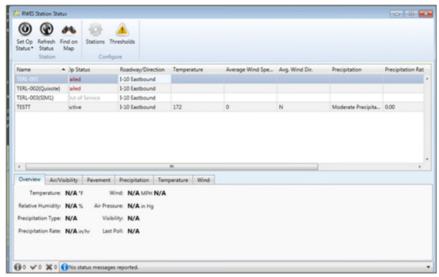
SelectPriority

Click Send

Views			C Subsystems
😂 Device Messaging			BERLANE RD
	Blank Image: Constraint of the second s	• •	MERIDIAN RD
Name A Roadway/Dir Op St	tatus Queue State No. Msgs	Last Sent Current Message 1	Type 🕈 🔰 🚺
BMS I-10 MM199 I-10 Eastbound Active		N/A On E	Beacon
Starts with([Type], 'Beacon') p Status Queue Se	eacon: riority: 1 1-256 ending a beacon message will activat I activation messages from the beaco		Duration: Until Canceled O1:00:00 shing. To turn the beacon off, remove

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

🤣 RWIS Station Status	
Set Op Refresh Find on Status* Status Map Station Configure	esholds re
Name Op Status	Roadway/Direction Visibility 1
RWIS_I10MM193.5 Active	I-10 Westbound 0.25 *
Overview Air/Visibility Pavement	Precipitation 1.00 1.50
Temperature: N/A °F	Wind: N/A MPH N/A
Relative Humidity: 0 % Air	r Pressure: 0.00 in Hg
Precipitation Type: Moderate Rain	Visibility: Vehicle Spray
Precipitation Rate: 0.00 in/hr	Last Poll: 08/17/2015 13:39:21
🚯 0 🛩 0 💥 0 🚺 No status messages r	reported.

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

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RWIS Alert



💯 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?

- O Acknowledge and Take Ownership of Event
- O Dismiss as Already Detected, Cancel Response Plan, and Close Event
- O Dismiss as False Alarm, Cancel Response Plan, and Close Event

- RWIS Alert Handling dialog when alert is clicked
 - If RWIS is configured for autoactivating 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

Cancel

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Next >

Beacon in Response Plan

Beacons can be added to response plans

Response Plan: Ever	nt 1387					
kctivate Plan Plan Actions	Add Edit Item Titem	Remove Item Find Devices on Map	Accept Load Predefined	H Get New	MS Dist: 3 AR Dist: 10 AM Dist: 3	
	gestions	 Response Plan Messa 	a Datalla Cur		nt: 1387 Plan:	Active
Device Details		 Response Plan Messa 				
Beacon BMS I-10 and US [District 3 - Tallahas Active		On	Activated 255 0:00			

What's New?

- Release 6.2 Major Enhancements:
 - BlueMacTCP Server
 - Stale Remote/C2CTSS 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