Change Management Board Meeting

Tuesday, September 25, 2018

Audio: 1 (646) 749-3112,

Access Code: 954-385-813

Do NOT Put On Hold Call is Being Recorded

GoToMeeting:

https://global.gotomeeting.com/join/954385813

Welcome and Call for Quorum

Bryan Homayouni, P.E., CMB Chairman

Agenda

Time	Item	Lead
1:30 – 1:35	Welcome and Call for Quorum	Bryan Homayouni
1:35 – 1:45	Previous Meeting Recap & Action Item Review	Bryan Homayouni
1:45 – 2:00	SunGuide Software Update	Derek Vollmer
2:00 – 2:15	Vehicle Position Data Across C2C Connection (VOTE)	Mark Dunthorn
2:15 – 2:30	Sending messages to non-color and color sign via SAS (VOTE)	Derek Vollmer

Agenda

Time	Item	Lead
2:30 – 2:45	Small-Effort JIRA Issues: 4015, 4187, 4301 and 4302 (VOTE)	Derek Vollmer
2:45 – 3:00	TAPCO Blinklink Interface to SunGuide (VOTE)	Derek Vollmer
3:00 – 3:15	Wavetronix HD Modification for WWD Reporting/Archiving (*Possible* VOTE)	Dan Smith
3:15 – 3:30	Cloud-Based Solutions with SunGuide	Chrissie Collins
3:30 – 3:50	Open Discussion	Bryan Homayouni
3:50 – 4:00	Review Action Items	Bryan Homayouni

CMB Agenda, slides, and attachments posted here:

http://www.dot.state.fl.us/trafficoperations/ITS/Projects_Deploy/CMB.shtm

Previous Meetings Recap and Action Items Review

Bryan Homayouni, P.E., CMB Chairman

Previous Meeting Action Items

Owner	Action Item
Romona Burke	Reach out to Alan El-Urfali about the RWIS developmental specification.
Mark Dunthorn	Update Travel Time Document to reflect how travel times are currently handled within SunGuide.
Derek Vollmer	Add RWIS to the SSUG meetings.
Derek Vollmer	Keep Districts in the loop on the Architecture update process.
Derek Vollmer	Look into adding 3986 and 4183 into the 7.2.0. release.
Derek Vollmer	Bring up bridge closures and executive notifications up at the SSUG meeting.
Derek Vollmer	Take the idea of adding images to the executive notifications to the SSUG meetings.

Previous Meeting Action Items

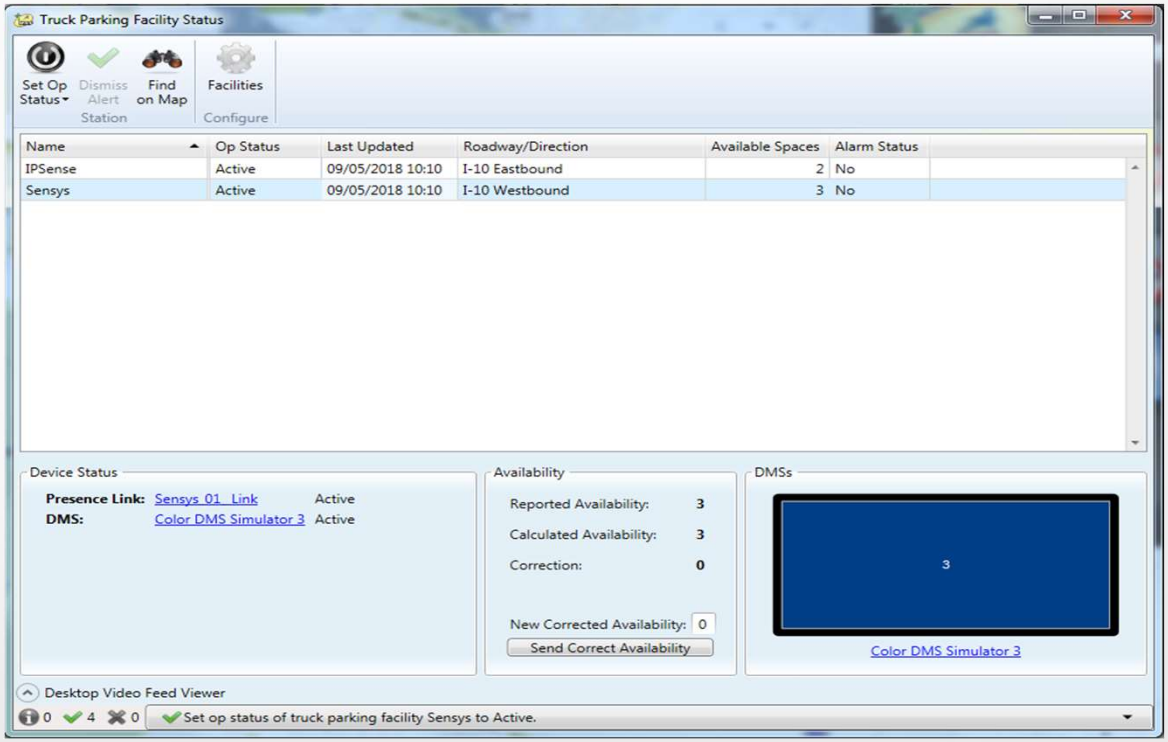
Owner	Action Item
Clay Packard	Get a schedule for R-ICMS deployment to be shared with everyone.
Derek Vollmer	Add Bluetooth (probe vehicle) specifications 660-2 update to ITS Working Group Meeting.

SunGuide Software Update

Derek Vollmer, FDOT

Truck Parking Update

- New configurable color DMS for Truck Parking
- Truck Parking icon can be published in FL511
  - You now have the option to select which TPF to be published in FL511



SunGuide 7.1.1

- SunGuide 7.1.1 has been released and it contains the following:
  - Lane by Lane Detector Data
  - Links on Map Option 1 – C2C Icon Configuration
  - Traffic Signal Malfunction Event Type – New Event Types
    - Traffic Signal Dark, Traffic Signal flash, and Bridge up
  - Roadway Type Flags
    - Limited Access, Arterial, and Express Lanes
  - Bluetooth MAC Address matching

SunGuide 7.2 Update

- What to expect
  - **Audit Chronology**
    - SunGuide software will enter AUDIT records into event chronology at the time the audit is performed.
  - **Link Display**
    - SunGuide software will display an expanded view when hovering over multiple links that are stacked on top of each other.

SunGuide 7.2 Update

- What to expect
  - **Roadway Primary/Secondary**
    - SunGuide software will support configuring a parent roadway in the Roadway Configuration window.
  - **Case Sensitivity in Object Names**
    - SunGuide software will enforce case insensitive uniqueness for the name of configuration items

SunGuide 7.2 Update

- What to expect
  - **Monitor and Regulate DMS Fonts**
    - Adding font monitoring to SunGuide. Can detect when a font has changed on a sign
  - **Planned Events**
    - Ability to have a start and end times for planned events like marathons, bike week, parades…
    - Response plan needs to be approved between creation of the event and start of the event
  - **ICMS integration changes**
    - Changes to SunGuide for the D5 ICMS project.
    - Includes porting over TMDDv3 signal interface

SunGuide 7.2 Update

- What to expect
  - **Executive Notification Automation**
    - Hopefully this passes today
  - **Intersection EM Locations**
    - Hope this passes today

SunGuide Hotfixes Released

- Too many items to list here
- Please see the e-mails sent out and the readme files for the hotfixes for a list of items
- Please test any items listed as deferred to District in the e-mail

QUESTIONS?

Derek Vollmer, P.E., FDOT

Derek.Vollmer@dot.state.fl.us

Vehicle Position Data Across C2C Connection *(VOTE)*

Mark Dunthorn, FDOT

Vehicle Position Data Across C2C Connection

- SG-3470 – Originally requested by District 3
  - Would allow Road Rangers to be visible in other SunGuide deployments
- More recently requested by the TIM program at the CO
  - Joint effort with FDOT GIS group
  - Goal is real-time locations of Road Rangers statewide on a map at the EOC

Vehicle Position Data Across C2C Connection

- What changes will be required?
  - New C2C data type and associated schema updates
  - Minor changes to Operator Map
- What data will be included?
  - Location (latitude/longitude)
  - Road Ranger Availability status (Patrolling, Arrived, etc.)

Cost & Schedule

- Estimate: $11.5K
- Schedule Release: 7.2

QUESTIONS?

(VOTE)

Mark Dunthorn, FDOT

mark.dunthorn@dot.state.fl.us

Sending Messages to Non-Color and Color Signs via SAS *(VOTE)*

Tucker Brown, SwRI

Current Situation

- In D6 SAS schedules for DMS, can get into a scenario where there is a color message scheduled with non color DMS included.
- The message is sent, but will fail on the non-color signs
  - They do not recognize the color tag
- D6 sets up two schedule items, one for color and one for non-color messages
- Would like something that can send color messages to color signs and non-color messages to non-color signs all in one scheduled item

Enhancement

- Use predefined plan concept with SAS
- Allow users to specify different messages per sign
  - Use graphic/color as needed
  - Abbreviations not needed as editor would restrict the user entering the message
  - Filter in configuration grid could indicate which signs support color or graphics
    - Helps with adding message to color vs non-color signs
- Schedule item would then activate a plan not a message

Cost & Schedule

- Estimate: $11.5k
- Schedule Release: 7.2

QUESTIONS?

(VOTE)

Derek Vollmer, P.E., FDOT

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Tucker Brown, SwRI

Tucker.Brown@swri.org

Small-Effort JIRA Issues: 4015, 4187, 4301, and 4302 *(VOTE)*

Tucker Brown, SwRI

Executive Notifications (4015)

Tucker Brown

Current Behavior

- An email is automatically generated based on a subset of the executive notification criteria
- Email can be modified by TMC staff before sending
- Emails can be manually triggered for an event
- Emails are re-sent at configurable intervals until the event is completed
  - Changes are not highlighted.

Proposed Enhancement

- Notifications will be generated for the 8 criteria listed in the ConOps.
- Notifications will be sent to users in SunGuide as a dialog in the software.
  - User can make any needed changes themselves or request an authorized user to approve
- Generated email will still be based on a template but allow the user to modify the fields directly in the software
- User corrections will be stored and future notifications will have the same change already made.
- System will highlight any changes for updated notifications

Proposed Enhancement

- The system will provide a way to combine notifications from multiple events into a single notification
- The system will allow the user to take and attach snapshots from the Video on Desktop video stream (optional)
- The system will use the user's contact information in the notification

Cost & Schedule

- Estimate: $66k
- Schedule Release: 8.0

QUESTIONS?

(VOTE)

Derek Vollmer, P.E., FDOT

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Tucker Brown, SwRI

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Intersection Locations (4187)

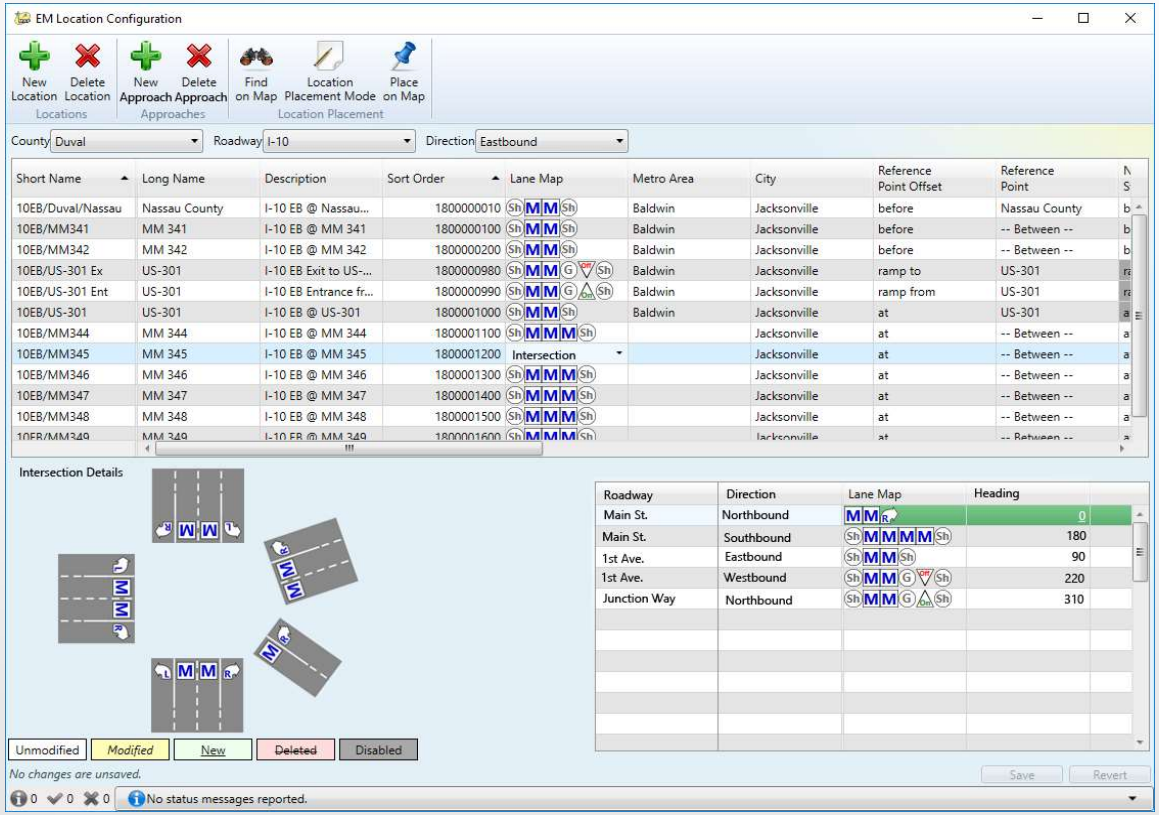
Tucker Brown

Current Behavior

- Locations are based on a single point, with a single roadway, dir, and lane map
- For Intersections,
  - Some districts have been putting in multiple events to track intersection events
  - This can throw off event/performance metrics
  - FLATIS is unable to correlate this as well so the 511 information is not consistent

Enhancement - Configuration

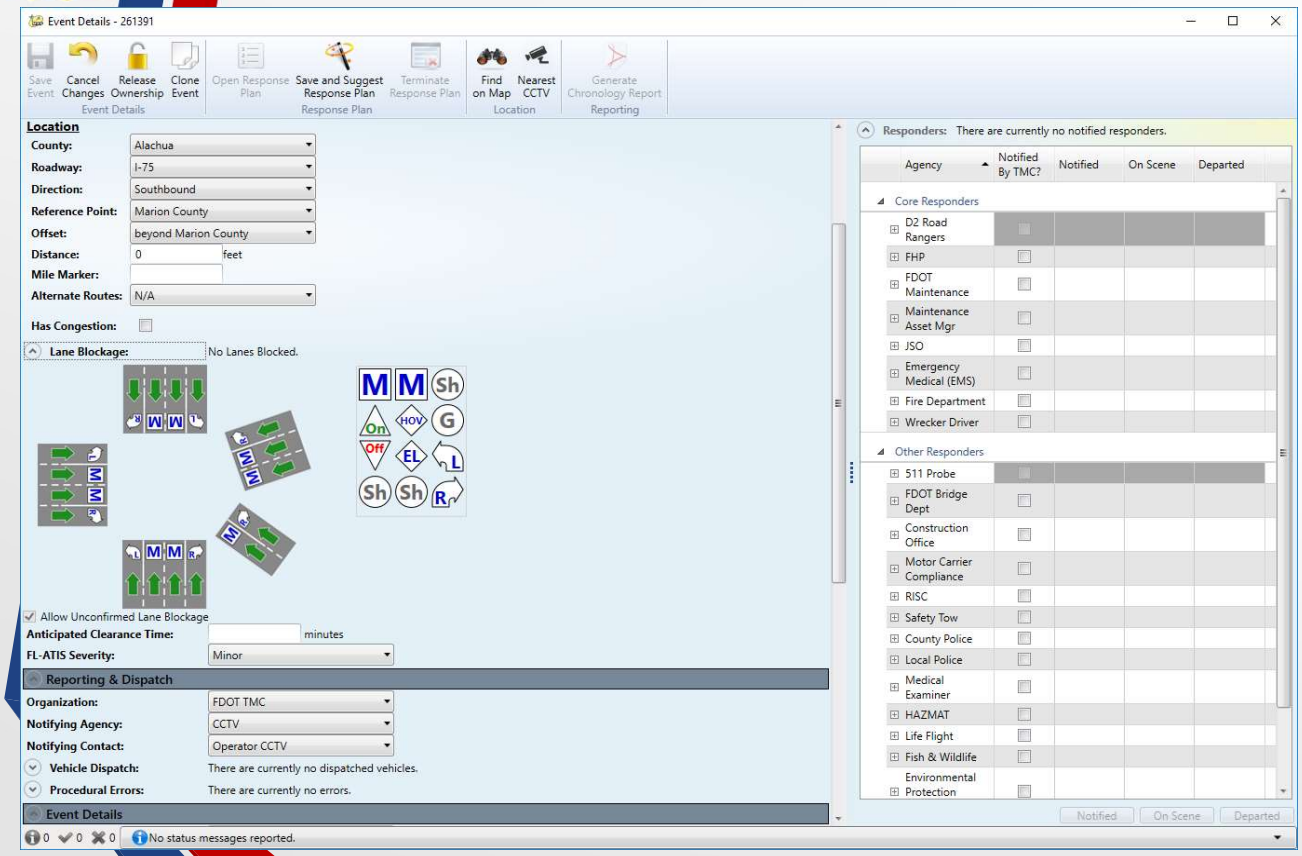
- Add the ability to configure a location that has multiple approaches (roadway, direction, and lane map)



Enhancement - Configuration

- Initial import of locations would be done via a bulk import tool using the Navteq shape files
  - Users would run the tool for particular roadways
  - Users view what was generated and have opportunity to modify/delete.
  - Tool would import the locations into the system
- This tool could be used for additional roadways in the future.
  - Additional intersections could also be configured manual in the Operator Map.

Enhancement – Event Details



- Location would be embedded in the existing locations
  - Could be selected from any of the roadways configured as approaches
- Users can set blockage on any approach
- Response plans will take into account the specific blockage when generating messages

Enhancement - Reports

- Reports would be modified to take into account intersections.
  - Existing reports would work the same way
  - Filters should include the location if any of the intersection approaches have roadway/dir selected in filters.

- Might need new reports specific to intersection locations (if needed)

Cost & Schedule

- Estimate: $130k
- Schedule Release: 8.0

QUESTIONS?

(VOTE)

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Tucker Brown, SwRI

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4301 – Event List Row Height

Tucker Brown

4301

- Previous version of SunGuide used multiple lines for each event in the event list.
- New Version of the Event List has 1 event per line.
  - List makes vertical monitors of limited use. Text does not wrap and words are cut off
- Proposal
  - Allow a user to select if they would like to use multiple lines per event
    - Fixed for each event (not variable).
      - Example - All events would be 2 lines, regardless of whether two lines were needed
  - Allow the text of each field to wrap if space is available.

Cost & Schedule

- Estimate: $6k
- Schedule Release: 7.2

QUESTIONS?

(VOTE)

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Tucker Brown, SwRI

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4302 – Permanent Status Filters

Tucker Brown

4302

- Previous version of SunGuide had a fixed list of filters for devices (Active, Error, Failed, Out Of Service).
- New Version only has the types that are currently available in the column.
  - If no devices are Error/Failed, this is not an available filter. This present an issue when you set all devices to Active and are waiting to see what fails. User must keep checking back to see if that filter option is now available.
- Proposal
  - For all devices, allow Active, Error, Failed, and Out Of Service to always be selectable as filters

Cost & Schedule

- Estimate: $3k
- Schedule Release: 7.2

QUESTIONS?

(VOTE)

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Tucker Brown, SwRI

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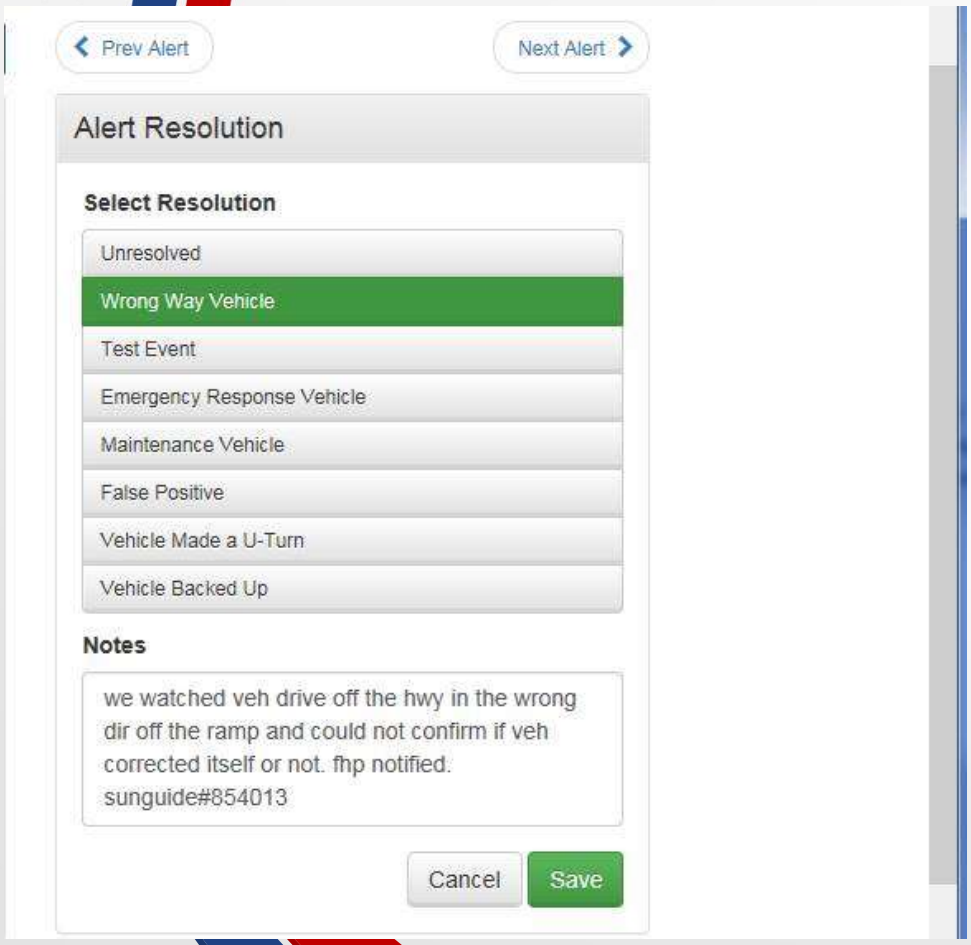
TAPCO Blinklink Wrong Way Driving API

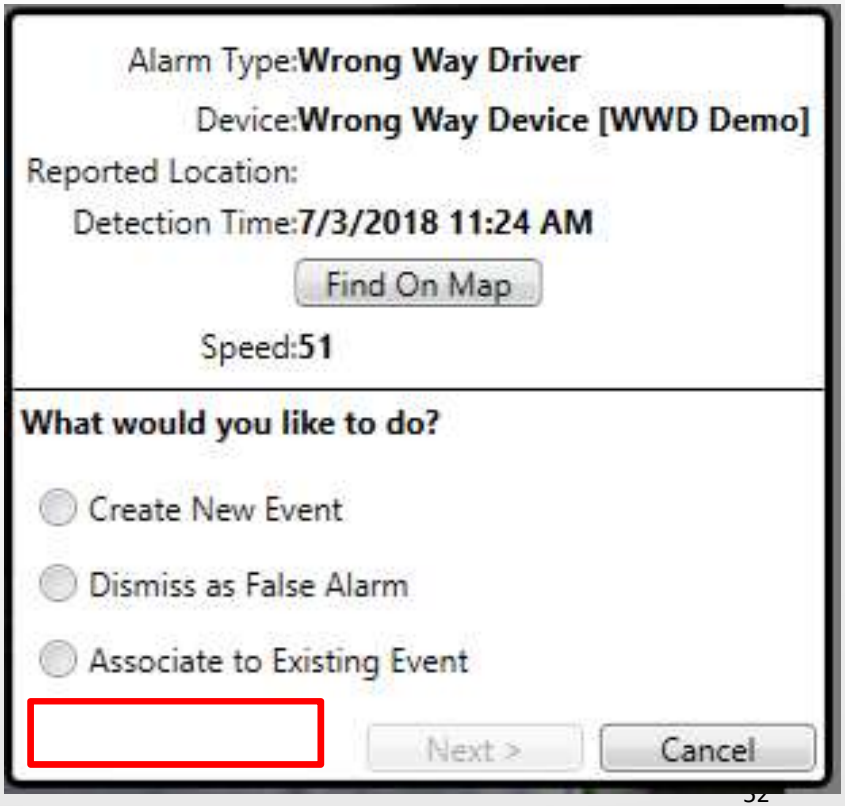
Tucker Brown, SwRI

TAPCO

- TAPCO has provided an API into the BlinkLink software (as opposed to connecting to the device directly)
- The request is to integrate with the BlinkLink interface for new alerts, and respond to the software with the BlinkLink custom resolutions.
- The only difference the user would encounter would be a new drop down (only for TAPCO alerts from the BlinkLink interface) that would force the user to select the resolution action, in addition to the actions that SunGuide should perform

TAPCO


Prev Alert
Next Alert
Alert Resolution
Select Resolution
Unresolved
Wrong Way Vehicle
Test Event
Emergency Response Vehicle
Maintenance Vehicle
False Positive
Vehicle Made a U-Turn
Vehicle Backed Up
Notes
we watched veh drive off the hwy in the wrong dir off the ramp and could not confirm if veh corrected itself or not. fhp notified. sunguide#854013
Cancel
Save


Alarm Type:Wrong Way Driver
Device:Wrong Way Device [WWD Demo]
Reported Location:
Detection Time:7/3/2018 11:24 AM
Find On Map
Speed:51
What would you like to do?
Create New Event
Dismiss as False Alarm
Associate to Existing Event
Next >
Cancel

Cost & Schedule

- Estimate: $10k
- Schedule Release: 7.2

QUESTIONS?

(VOTE)

Tucker Brown, SwRI

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Bryan Homayouni, CFX

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Wavetronix Modification for WWD Reporting/Archiving *(Possible VOTE)*

Dan Smith, FDOT

Wrong Way Detection

vehicles going the opposite direction of normal travel flow

- Explore the use of existing Wavetronix HD (125/126) detectors for WWD detection
  - Two test scenarios
    - A. Using reported speeds
    - B. Using “Direction Bins”
  - Determine next steps based on test results

Wrong Way Detection

vehicles going the opposite direction of normal travel flow

Test Scenario A

- Review SunGuide Traffic Sensor Link data for negative speeds
- If detected set Wrong Way Detected Flag to true and record current date time
- Group relevant records by Roadway and Direction
- Use mile markers to order data by ascending / descending depending on direction
- If post processing algorithm detects two or more detectors in sequence with flag set to true and within a configured trigger interval create a wrong way event

Wrong Way Detection

vehicles going the opposite direction of normal travel flow

Test Scenario B

- Update Wavetronix driver to read the ‘Direction Bins’
- Update Smart-Sensor HD detectors to set and read back the binning of events by direction into a polling interval
- The Smart-Sensor HD supports 0 or 2 direction bins. Direction bins are defined by vehicles traveling in the same direction as the configured lane and against the configured lane
- Identify if two or more detectors in sequence register a bin count for a vehicle travelling against the configured lane direction within a configurable time interval

Wrong Way Detection

vehicles going the opposite direction of normal travel flow

Test Scenario Results

- A test was conducted with Wavetronix who installed temporary detectors, and with FDOT managed test vehicles
- Test Scenario A
  - Produced positive results for every trial
  - Results may not be conclusive because link lane data within a polling interval may average to a positive speed, even if a vehicle within the interval has registered a negative speed
- Test Scenario B
  - Produced positive results for every trial
  - Results should always identify a vehicle travelling in the opposite direction of normal travel flow
- Neither test evaluated false positives

Wrong Way Detection

vehicles going the opposite direction of normal travel flow

Items to be explored:

- TSS Driver Update
- Event Management
  - UI / email alerts
  - Response plans
- Additional logic:
  - Number of detector in sequence
  - Time of day
  - Congestion levels

QUESTIONS?

(Possible VOTE)

Dan Smith, FDOT

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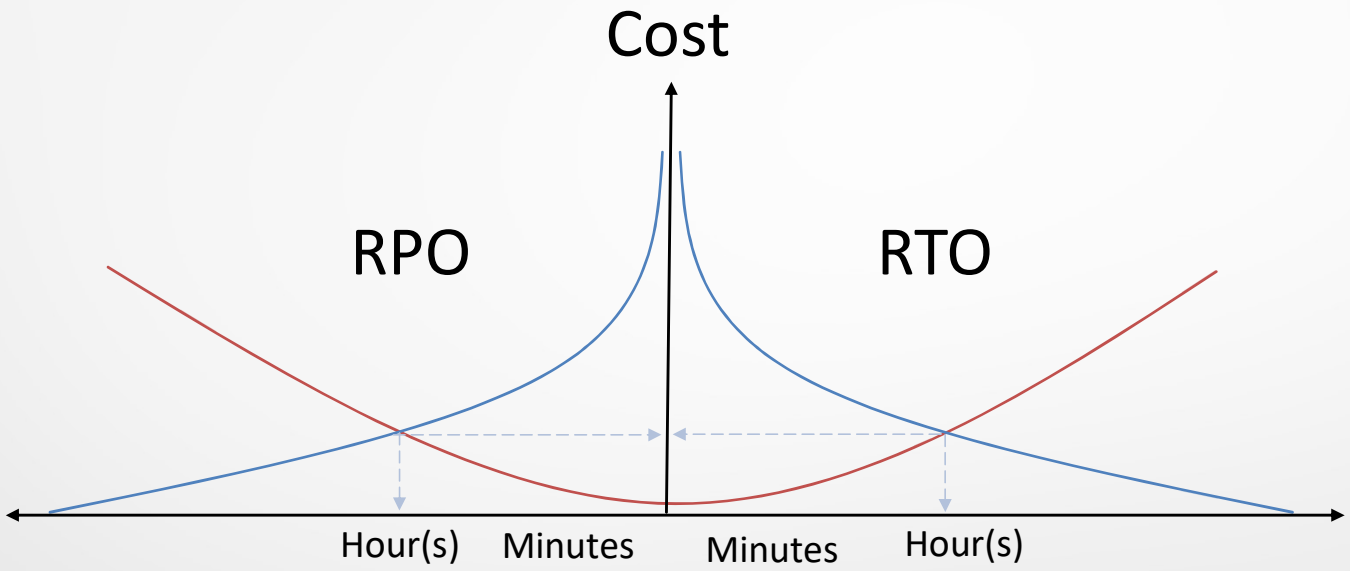
Cloud-Based Solutions with SunGuide

Chrissie Collins, FDOT

Information Security CIA Triad

Information Security CIA Triad

RTO and RPO



Cloud Myths

- Cloud Computing
  - is just a fad
  - is less secure than on-premise
  - is cheaper

The big question…

- Can SunGuide benefit from cloud computing?

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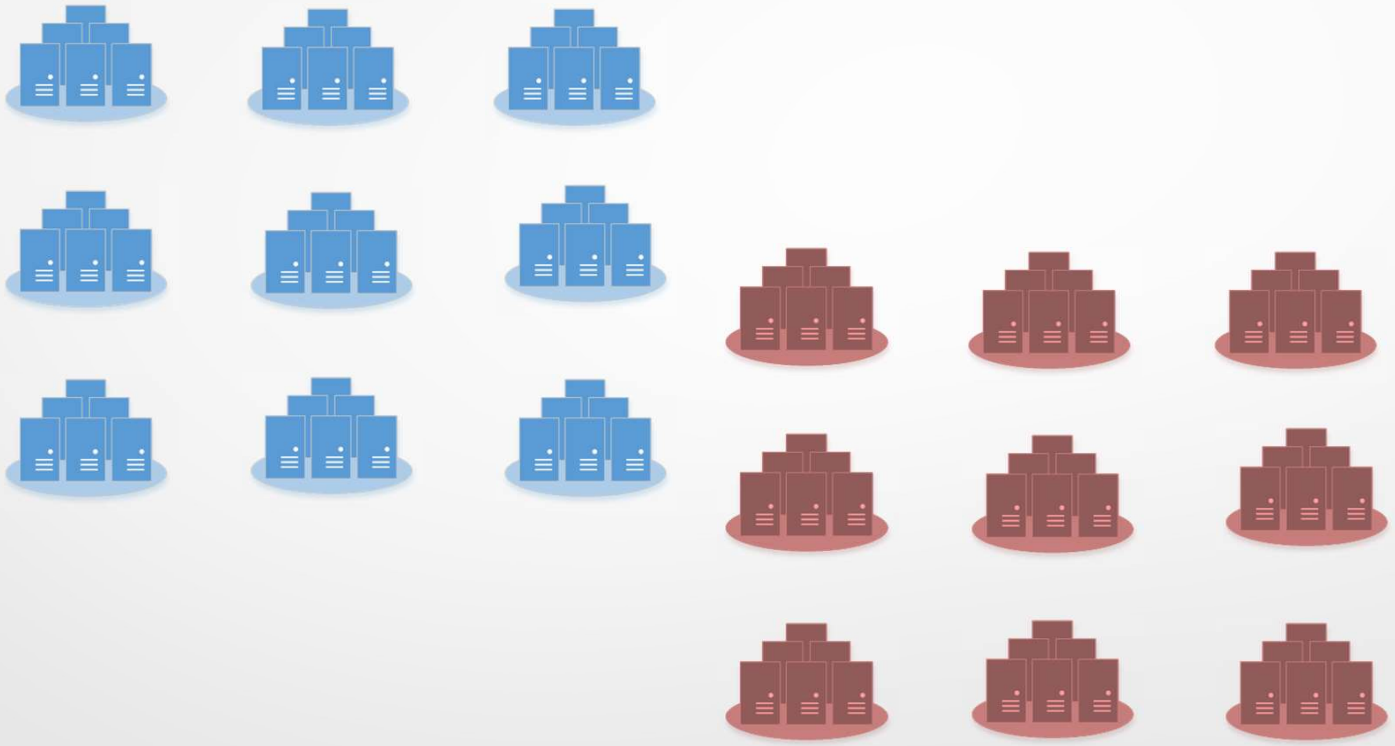
4.0
DATA
AI
VR
IOT

Business Continuity

Business Continuity



Disaster Recovery

- Vmware vCloud Air Disaster Recovery Solution

Disaster Recovery

QUESTIONS?

Chrissie Collins, FDOT

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Open Discussion

Bryan Homayouni, P.E., CMB Chairman

Review Action Items

Bryan Homayouni, P.E., CMB Chairman