Change Management Board Meeting

Video Conference: CO- Burns Video Bridge 1

Audio: 850 – 414 - 4977

Welcome and Call for Quorum

Peter Vega, CMB Chairman

Change Management Board

Time	Item		Lead	Supporting Materials
8:30 – 8:35	Welcome and Call for Quorum		Vega	
8:35 – 8:45	Previous Meeting Recap and Action Item Review		Vega	October 20, 2008 Meeting Notes
8:45 – 9:30	SunGuide Software Footprints Issues Review	Issue Nos. 101,222 & 503	Heller	CMB .ppt, *Of Detectors and Travel Times.doc*
9:30 – 9:40	SunGuide Software in Windows 2008 Environment		Chang	CMB .ppt
9:40 – 10:20	SunGuide Software Release 4.2	FHP CAD Operator Interaction Requirements *(Vote)*	Hope	CMB .ppt
		FL-ATIS Publish to Public Admin Editor Requirements *(Vote)*	Gaarder	CMB .ppt
10:20 – 10:30	BREAK			
10:30 – 11:20	SunGuide Software Release 4.3	Response Plans ConOps	Laird	*SunGuide Software's Response Plan Generator Enhancement Concept of Operations*
11:20 – 11:30	Closing and Action Item Review		Vega	

Change Management Board

Previous Meetings Recap and Action Items Review

Peter Vega

Oct. 20 08' CMB Action Items

1. SwRI will complete the efforts regarding Footprints 101 and 503 and would propose a solution at the next CMB meeting.
2. Ocala/Marion County ITS Architecture: District 5 will provide detail of the update regarding the Ocala/Marion County ITS Architecture to Trey Tillander who will present the update at the next CMB meeting.
3. Footprint 222: SwRI will provide ROM for updating the naming convention drop-down display to Trey Tillander.
4. Footprint 222: Jennifer Heller will coordinate with the SSUG regarding the naming convention.
5. SunGuide Installation Documentation: SwRI will provide LOE/ROM to Trey Tillander for a Generic Installation Guideline and for a Web-based FAQ separately.

Change Management Board

SunGuide Software – Footprints Issues Review

Robert Heller

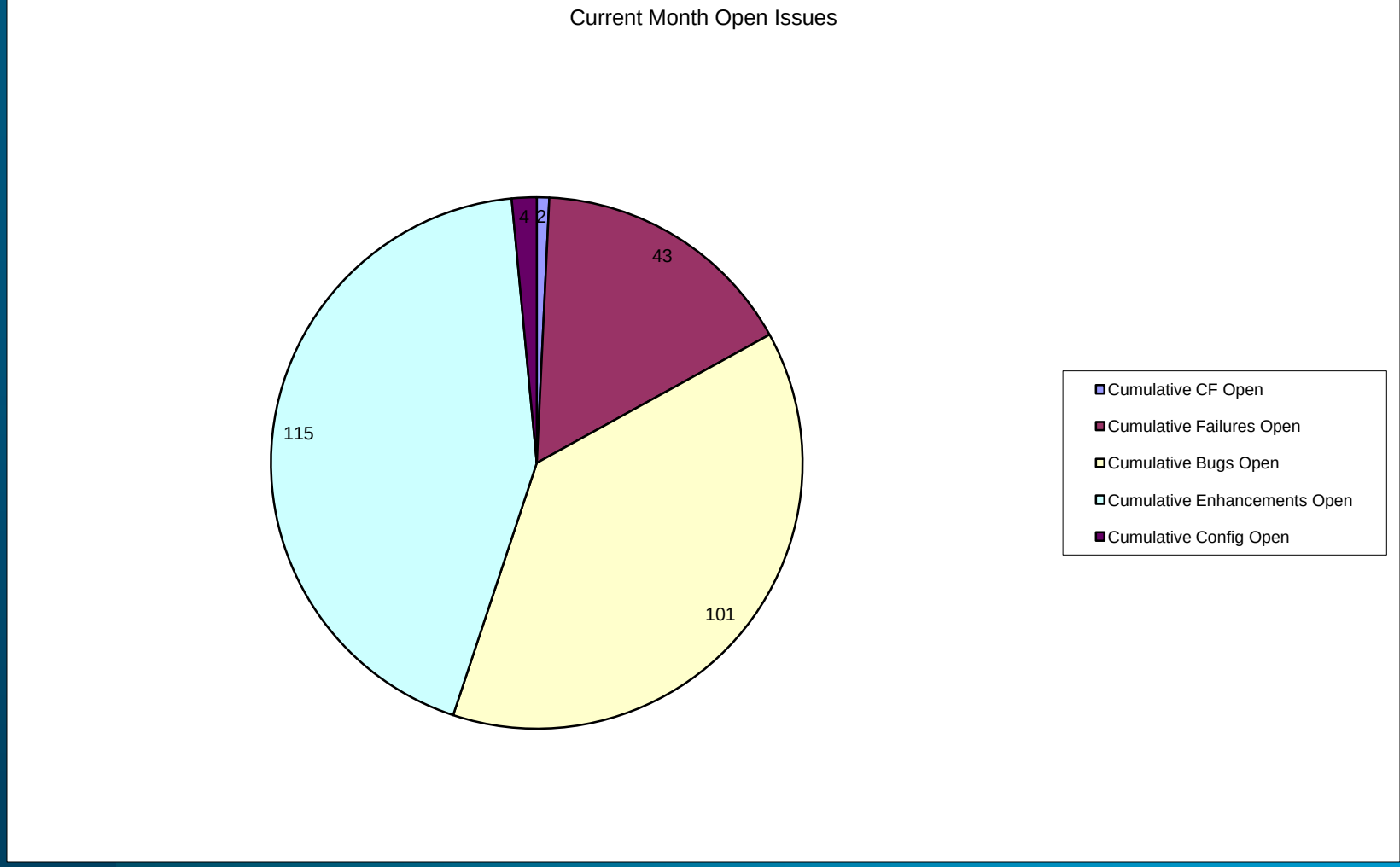
Footprints Issues

Status	Active	Open
Request	Yes	Yes
Issue Submitted	Yes	Yes
SwRI Reviewing	Yes	Yes
SwRI Addressing	Yes	Yes
FDOT Addressing	No	Yes
More Information Requested	Yes	Yes
Needs FDOT Approval	Yes	Yes
Awaiting Release	No	Yes

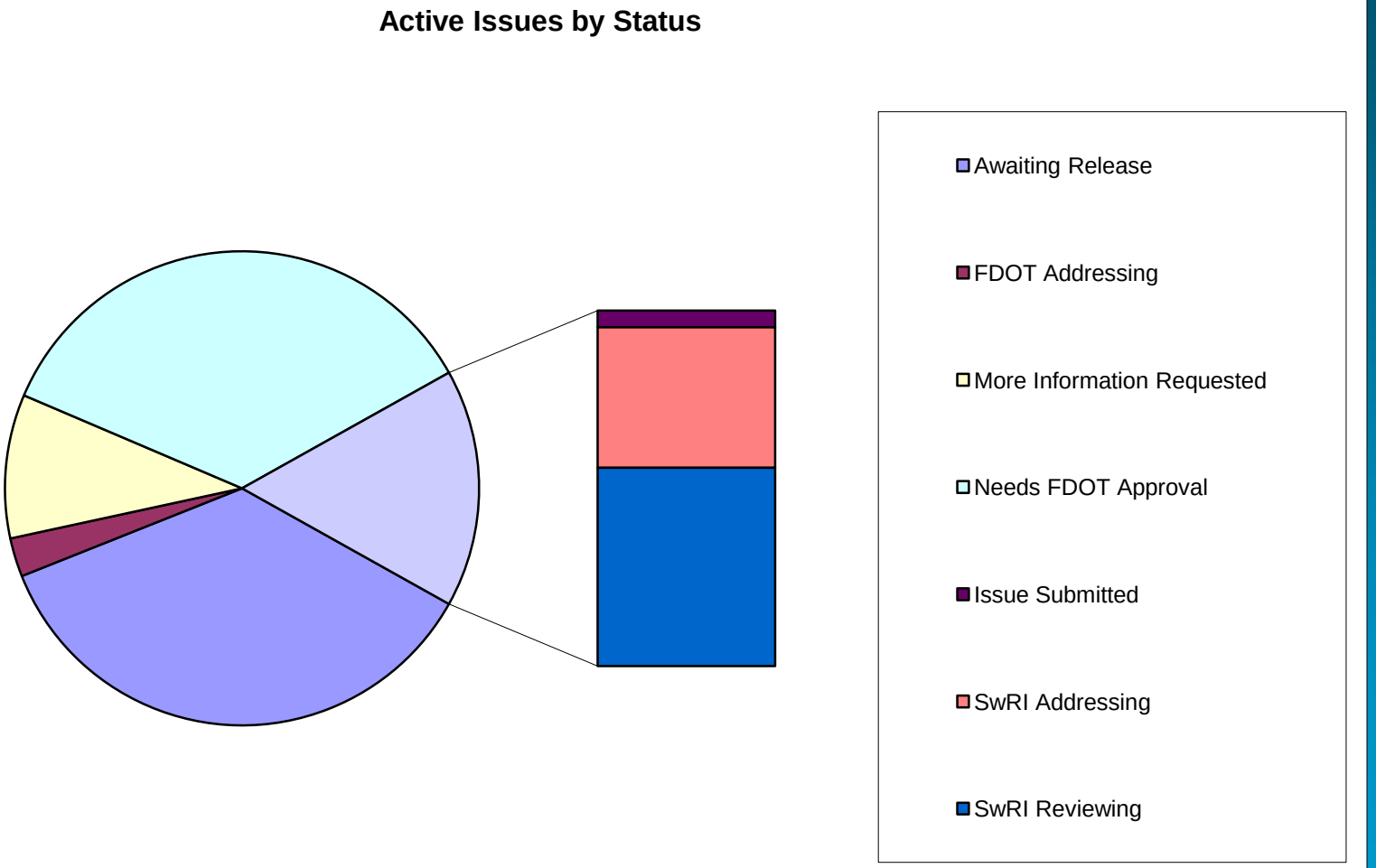
Footprints Issues Status

	NEW	OPEN	CLOSED	TOTAL
Mar-08	33	124	439	563
Apr-08	53	136	480	616
May-08	33	130	519	649
Jun-08	44	125	568	693
Jul-08	53	144	602	746
Aug-08	36	155	627	782
Sep-08	39	172	649	821
Oct-08	90	227	684	911
Nov-08	29	235	705	940
Dec-08	46	260	726	986
Jan-09	58	261	783	1044
Feb-09	19	265	798	1063

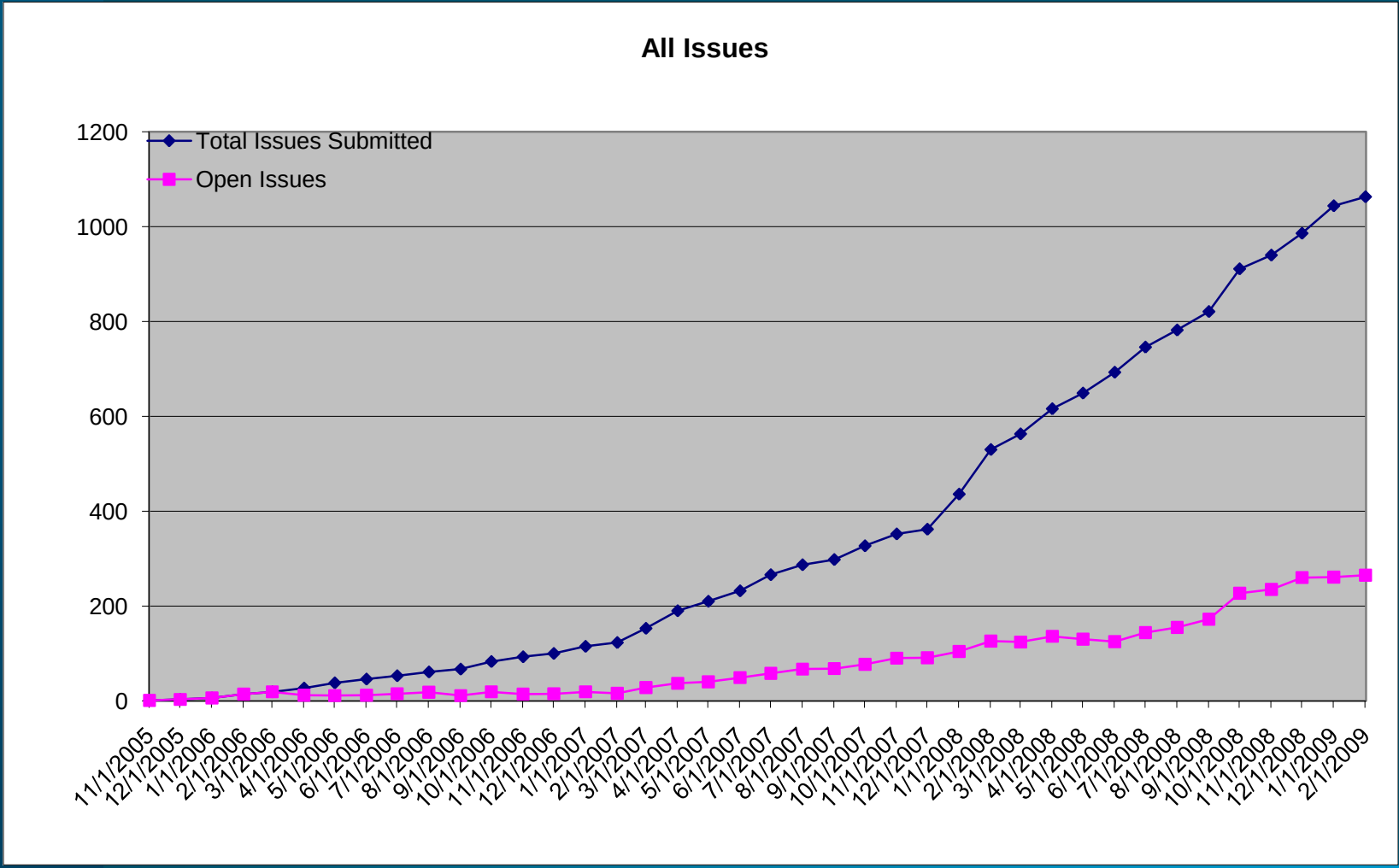
Open Issues Breakdown



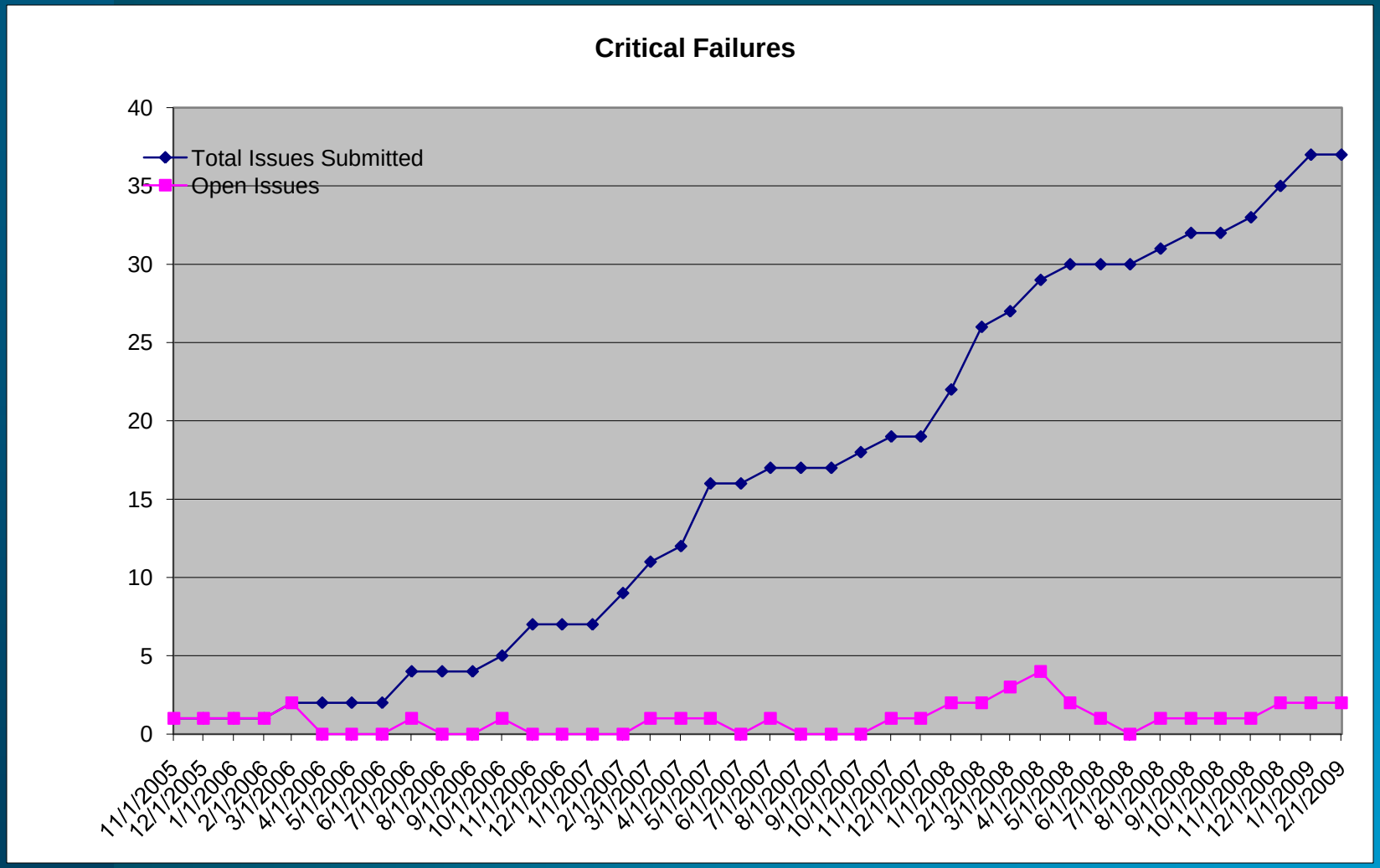
Active Issues by Status



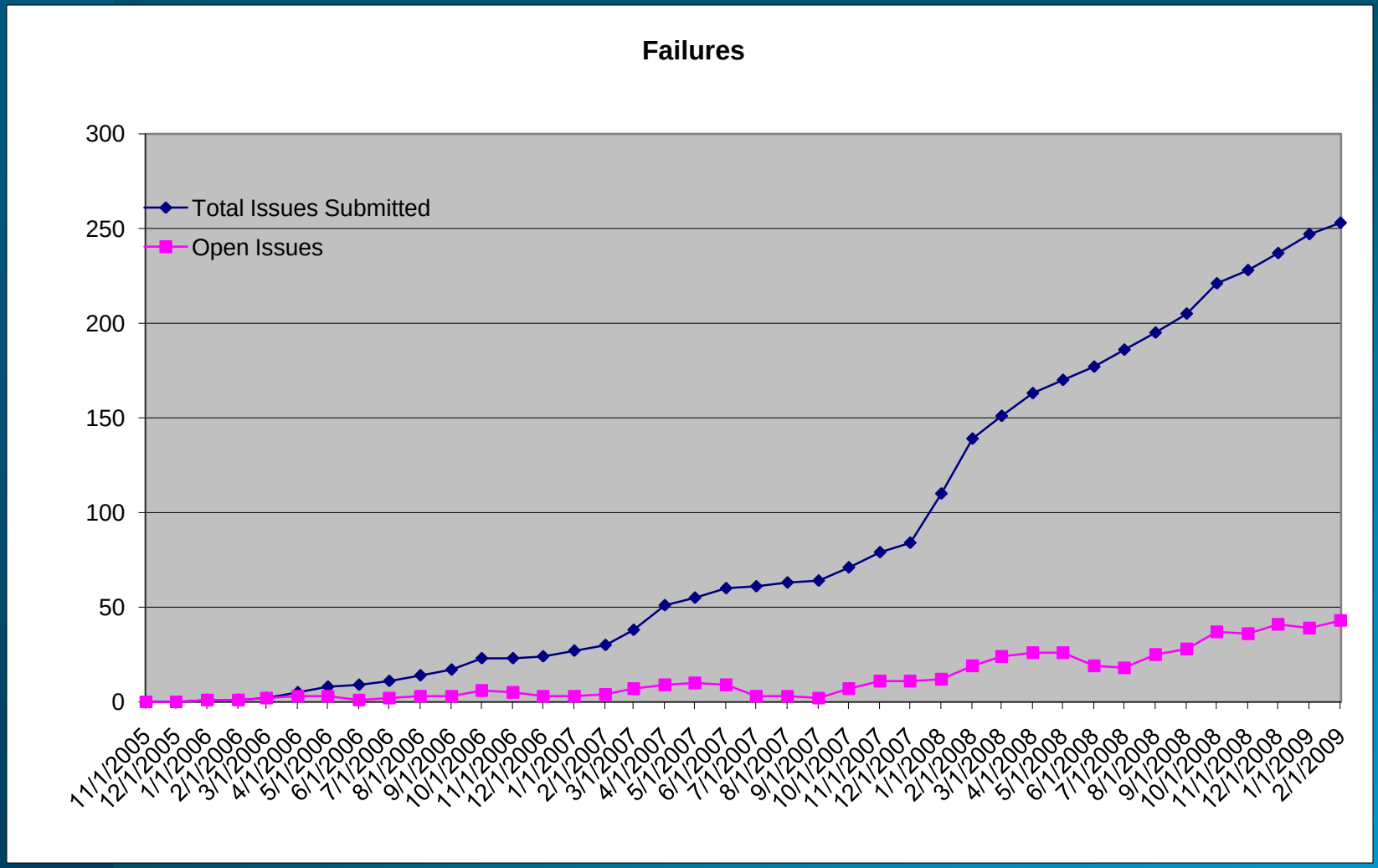
All Issues -- Total vs Open



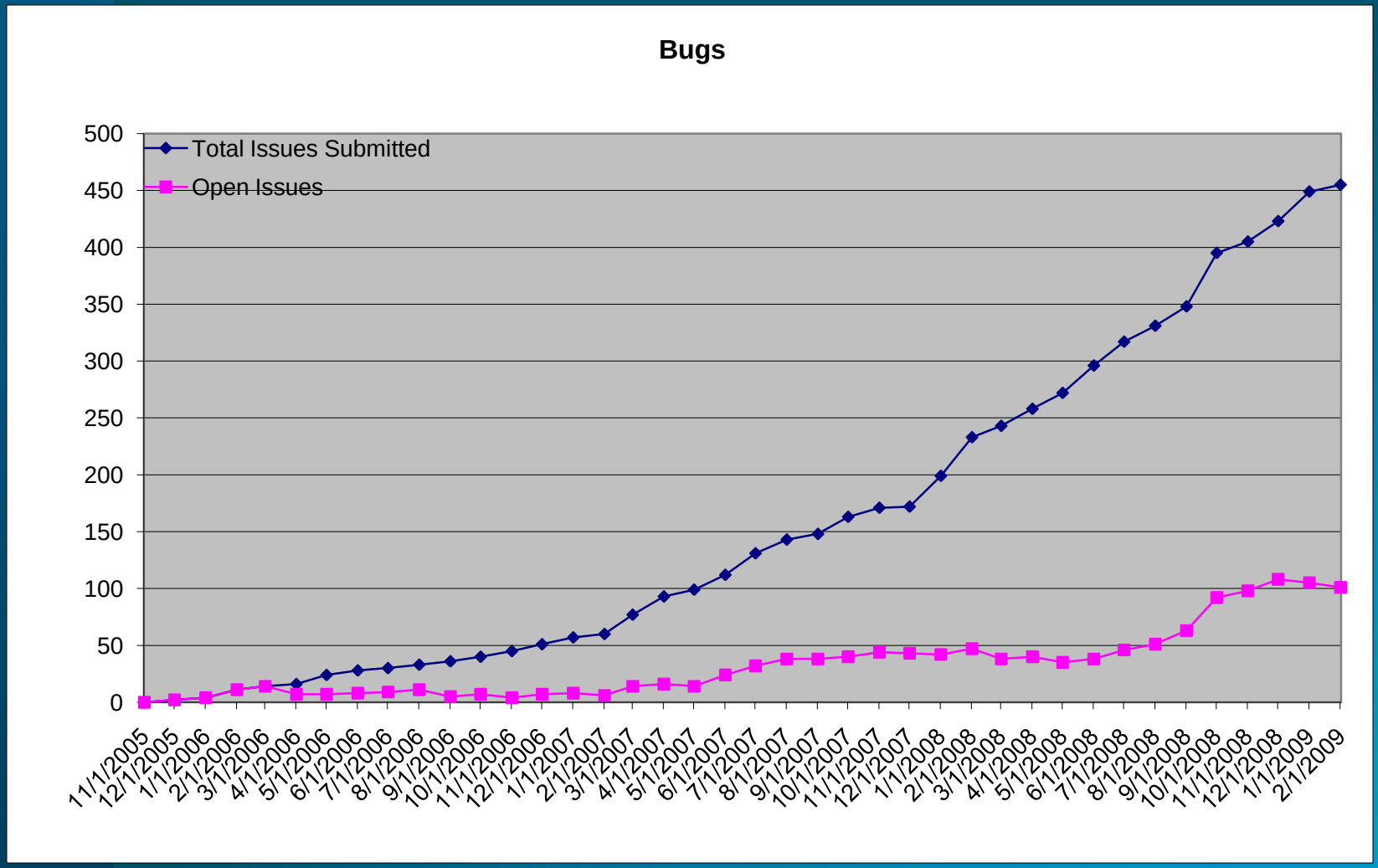
Critical Failures – Total vs Open



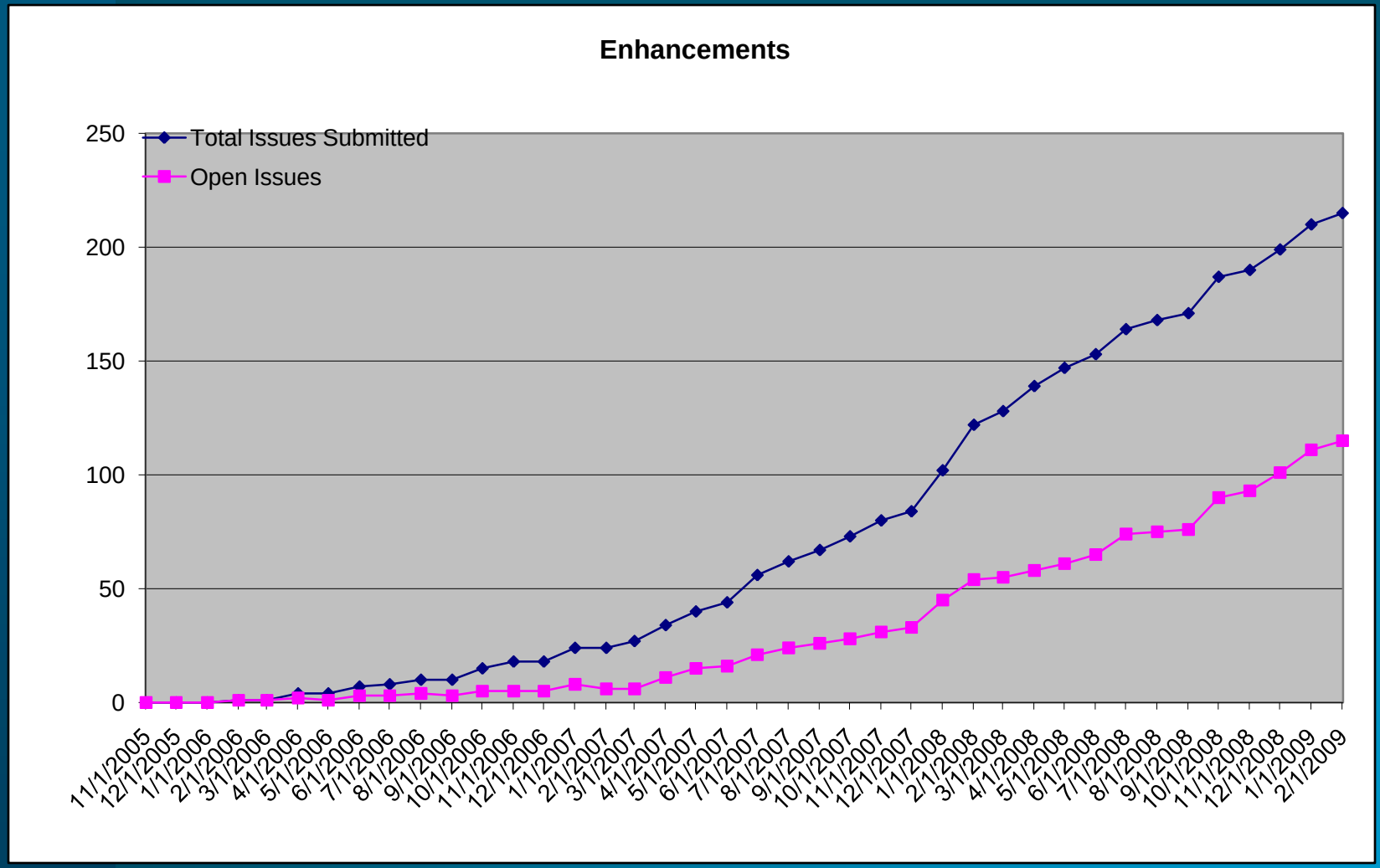
Failures – Total vs Open



Bug - low impact – Total vs Open



Enhancements – Total vs Open



Footprints Active Issues: Critical Failures

- There are no Active issues with priority “Critical Failure”
- There are two open issues with priority “Critical Failure”
  - Status “FDOT Addressing”
  - Status “Awaiting Release”

Footprints Active Issues: Failures

491	2/13/2008	Needs FDOT Approval	RPG uses roadway longname instead of shortname
727	7/10/2008	SwRI Reviewing	Video Switching is not working reliably
792	8/22/2008	More Information Requested	TSS stops collecting data after a detector is restored
828	9/26/2008	More Information Requested	Data latency with 170 interface
932	11/7/2008	More Information Requested	DMS Communication Errors
948	11/19/2008	More Information Requested	Issue 765 is not completely resolved
958	12/3/2008	More Information Requested	943 not addressed - c2c infrastructure concerns
1003	1/6/2009	More Information Requested	RPG actions freeze EM for all users

Footprints Active Issues: Failures (cont)

1028	1/15/2009	More Information Requested	Index out of range
1049	1/28/2009	SwRI Addressing	Failure to log into DMS Subsystem
1050	1/28/2009	SwRI Addressing	RM 170 Controller is locking when comm is lost and power cycled.
1060	2/2/2009	More Information Requested	Traffic Detectors Out of Service
1068	2/5/2009	SwRI Reviewing	A RM 170 controller was reported to be metering when it was scheduled to be off.
1069	2/6/2009	SwRI Reviewing	A RM 170 controller failed to meter correctly and displayed a solid green signal.
1070	2/6/2009	More Information Requested	Statuslogger stops logging, affects DMS
1076	2/10/2009	SwRI Reviewing	RM 170 controller meters incorrectly when a 'short stop' occurs.

Footprints Active Issues: Bug - low impact

565	3/18/2008	Needs FDOT Approval	RPG DMS Radius / Message Priority
728	7/11/2008	SwRI Reviewing	TSS Raw Data duplicates, inconsistent intervals and values
746	7/21/2008	More Information Requested	DMS Driver fails to handle phase timings, restart needed
774	8/7/2008	More Information Requested	DMS randomly blanking
818	9/15/2008	More Information Requested	DMS Mark IV Controller reports "NODE OFFLINE" but SunGuide reports ActiveRo
831	9/29/2008	More Information Requested	Primary event id not always recorded in Secondary Event in Database
835	9/30/2008	More Information Requested	EM stopped adding/saving events
850	10/8/2008	Needs FDOT Approval	MULTI edit mode conversion problem

Footprints Active Issues: Bug - low impact (cont)

853	10/9/2008	Needs FDOT Approval	FLATIS Timestamp not generated the same way as Email Timestamp
855	10/9/2008	More Information Requested	C2C test client reports incorrect value for weather condition
862	10/10/2008	Needs FDOT Approval	Response plan's location is missing direction
888	10/23/2008	SwRI Reviewing	Database error requiring restart of Oracle DB services
889	10/23/2008	Needs FDOT Approval	Latent defects in DMS GUI
891	10/23/2008	Needs FDOT Approval	NTCIP DMS driver does not correctly interpret MULTI tags included in messages from devices
896	10/24/2008	SwRI Addressing	511MessageTvtReportPerSegment Comments
899	10/24/2008	SwRI Addressing	TabularTrafficVolumesByDetectorPerLanePerDirection Comments

Footprints Active Issues: Bug - low impact (cont)

904	10/24/2008	SwRI Addressing	RR_Admin Comments
905	10/24/2008	SwRI Addressing	Quarterly Incident Detail Test Report Comments
906	10/24/2008	SwRI Addressing	RR_Admin_Details Comments
912	10/27/2008	SwRI Reviewing	MCP not attempting to reconnect to joystick, startup requires reboot of all joystick terminal servers
917	10/28/2008	More Information Requested	Controller rejecting DMS message while queue state indicates complete
923	10/30/2008	Needs FDOT Approval	511 FLATIS Description for congestion is backwards
941	11/12/2008	More Information Requested	DMS merged message of two silver alerts failed to post to sign
947	11/18/2008	More Information Requested	VSL Plans Approved but not Updated in SunGuide

Footprints Active Issues: Bug - low impact (cont)

955	12/1/2008	Needs FDOT Approval	Losing Communication to Devices
967	12/8/2008	More Information Requested	Email entry in chronology with inconsistent blockage description
986	12/16/2008	Needs FDOT Approval	VSL represented with DMS icon via C2C
996	12/30/2008	SwRI Reviewing	GUI loses preferences after database disconnection
1004	1/6/2009	More Information Requested	DMS Errors - MAS/DMS show Failed but message is on sign
1012	1/6/2009	SwRI Reviewing	SG 4.1.1 GUI Performance
1027	1/15/2009	More Information Requested	Error when logging into Link and Shield Editor.
1029	1/16/2009	More Information Requested	OperatorMap Javascript Error - 'databusConnection' is null or not an object

Footprints Active Issues: Bug - low impact (cont)

1033	1/21/2009	SwRI Addressing	Admin editor error when removing upstream Fuzzy lane from RM.
1034	1/21/2009	More Information Requested	EM Location won't save, changing direction w/ congestion
1040	1/23/2009	SwRI Addressing	TVT viewer (in multi-dialog) fails to display content unless .NET 2.0 SDK is installed.
1045	1/23/2009	SwRI Addressing	C2C Installer / Documentation Allows comma separated fields (should only be spaces)
1046	1/26/2009	SwRI Reviewing	Toll Viewer and PS out of sync
1047	1/27/2009	SwRI Reviewing	All cameras spinning out of control
1051	1/29/2009	SwRI Reviewing	First Notifier - Chronology Report
1056	1/30/2009	SwRI Addressing	RM 170 Controller fails to enter OFF mode when set from operator map.

Footprints Active Issues: Bug - low impact (cont)

1062	2/3/2009	SwRI Addressing	Cannot Delete Incorrect Travel Times, Error
1064	2/3/2009	More Information Requested	Event List Shows old alerts that have been approved by Operators
1072	2/9/2009	Issue Submitted	EM Response Plan unavailable if only FL511 item is included
1073	2/9/2009	Issue Submitted	EM Thinks the Earth is Smaller Than It Is
1075	2/9/2009	SwRI Reviewing	Road Ranger Administration Report contains calculation error

Footprints Active Issues: Enhancements

51	6/6/2006	SwRI Addressing	TVT messages with multiple destinations but missing data
101	11/30/2006	SwRI Reviewing	Detectors reporting 0-0-0 for both no vehicles (empty roadway), and stopped vehicles (congestion)
102	11/30/2006	Needs FDOT Approval	Allow 'failed' devices to still periodically poll
116	1/18/2007	Needs FDOT Approval	Improvement to Admin Editor device pages
183	4/11/2007	Needs FDOT Approval	Admin Editor/IM/Deveice Templates/Road Closed Template
214	5/16/2007	Needs FDOT Approval	Running SunGuide GUI without opening the map
216	5/17/2007	Needs FDOT Approval	Allow events to specify multiple directions
222	6/4/2007	Needs FDOT Approval	Need character limitation increased from 30 to 50

Footprints Active Issues: Enhancements (cont)

232	6/27/2007	Needs FDOT Approval	Admin Editor manufacturer pick lists
266	7/20/2007	Needs FDOT Approval	DMS Temp Error
270	7/24/2007	Needs FDOT Approval	Wavetronix HD working in Sunguide
283	8/6/2007	Needs FDOT Approval	CCTV Auto Focus
286	8/9/2007	Needs FDOT Approval	SAS Subsystem: Admin editor permission to allow/deny Terminate Plan
287	8/9/2007	Needs FDOT Approval	Camera-by-Camera Setting
300	8/30/2007	Needs FDOT Approval	SAS Subsystem
304	9/10/2007	Needs FDOT Approval	Arrival Timestamp for AVL/RR Interface

Footprints Active Issues: Enhancements (cont)

305	9/11/2007	Needs FDOT Approval	Admin Editor should check input strings for legality
317	10/2/2007	Needs FDOT Approval	DMS GUI should show the communication with the signs to aid in understanding why DMS signs are failing
339	10/30/2007	Needs FDOT Approval	Add "remind" message box in SunGuide
357	11/17/2007	Needs FDOT Approval	Change behavior of "Blank Sign" button on DMS Detailed Status screen
384	1/14/2008	Needs FDOT Approval	Event Manager Enhancement suggestions from Jason Summerfield
386	1/14/2008	SwRI Reviewing	SunGuide R3.0.2 Enhancement Requests
398	1/16/2008	Needs FDOT Approval	EM "No CCTV" checkbox should be unchecked by default
402	1/16/2008	Needs FDOT Approval	Response Plans for Cleared Lanes

Footprints Active Issues: Enhancements (cont)

411	1/17/2008	SwRI Reviewing	CCTV/preset entry forces event active
412	1/17/2008	Needs FDOT Approval	Incorrect DMS Radius - RPG Severity
426	1/24/2008	SwRI Reviewing	Change displayed field for Reference points in EM
427	1/24/2008	Needs FDOT Approval	Allow configurable event type wording for RPG
430	1/28/2008	Needs FDOT Approval	Status bar recommended
447	1/31/2008	Needs FDOT Approval	ability to "disable/cease use" of entire roadway
448	1/31/2008	Needs FDOT Approval	ability to manipulate sorting of roadway
449	1/31/2008	Needs FDOT Approval	EMPM Location of Exit Drop down list should be altered to allow view of text.

Footprints Active Issues: Enhancements (cont)

464	2/6/2008	Needs FDOT Approval	Add DMS to Plan w/o Library Search
483	2/12/2008	More Information Requested	RPG wording when handling Ramps
485	2/12/2008	Needs FDOT Approval	User Group Permission Changes
493	2/13/2008	Needs FDOT Approval	DMS Virtual Driver
497	2/15/2008	Needs FDOT Approval	Counties grayed out on the Congestion area of EM
498	2/18/2008	Needs FDOT Approval	Cloned Event Emails
516	2/21/2008	SwRI Reviewing	CCTV selected and preset should be copied on event clone
540	2/29/2008	SwRI Reviewing	File versioning confusion

Footprints Active Issues: Enhancements (cont)

564	3/17/2008	SwRI Reviewing	Remove List Options without Deleting
567	3/18/2008	More Information Requested	Status Logger Message Evaluation
581	4/3/2008	Needs FDOT Approval	SunGuide Installer Program
583	4/3/2008	Needs FDOT Approval	Warn operators when closing an event with response plan active
598	4/15/2008	Needs FDOT Approval	Options for displaying Event icons on Map
611	4/22/2008	Needs FDOT Approval	Suggested Response Plan - Refresh current plan items
612	4/22/2008	Needs FDOT Approval	Set CCTV for event - VisioPaD and Add Event
615	4/23/2008	Needs FDOT Approval	Video Switching support of MPEG-4 encoding for teleste video sources

Footprints Active Issues: Enhancements (cont)

628	4/29/2008	Needs FDOT Approval	Provide Message Library-type functionality for Predefined Response Plans
641	5/14/2008	Needs FDOT Approval	RPG doesn't display error to operator if a generated message doesn't fit on a sign
651	5/21/2008	Needs FDOT Approval	Additional Fudit Features / Reopen Closed Events
652	5/22/2008	Needs FDOT Approval	Reopen 613: Selection of DMS for entry ramp message
653	5/22/2008	Needs FDOT Approval	IDS TSS Alarms, Link-based option
658	5/23/2008	Needs FDOT Approval	Ability to filter by Road Ranger Activity
660	5/23/2008	Needs FDOT Approval	Sorting for new Admin Editor screens
667	6/3/2008	Needs FDOT Approval	QA Report: propose new report title

Footprints Active Issues: Enhancements (cont)

685	6/18/2008	Needs FDOT Approval	RPG areas of confusion
696	6/25/2008	Needs FDOT Approval	(314): SunGuide cannot control DMS after power loss
697	6/25/2008	Needs FDOT Approval	Add sample count to ODS_TSS_ROLLUP_DATA Table
713	7/3/2008	Needs FDOT Approval	Admin editor requires restart when session times out or a subsystem restarts
722	7/9/2008	Needs FDOT Approval	Turn Lane Icon added to Lane Types
723	7/9/2008	Needs FDOT Approval	Accident Investigation Site Performance Measures
725	7/9/2008	Needs FDOT Approval	Rapid Incident Scene Clearance (RISK) Program Performance Measures
730	7/11/2008	SwRI Reviewing	Multiple Layouts for Virtual Video Wall

Footprints Active Issues: Enhancements (cont)

739	7/17/2008	Needs FDOT Approval	DMS message error checking in MAS
740	7/17/2008	Needs FDOT Approval	Add subsystem legend to Subsystems dialog
753	7/28/2008	More Information Requested	Blocking bad detector data-PDR Action Item 3.05
812	9/11/2008	Needs FDOT Approval	Event Type Audit
834	9/30/2008	Needs FDOT Approval	All Cameras disappeared from SunGuide
840	10/1/2008	Needs FDOT Approval	511 on/off ramp multi-lane blockages not supported
844	10/6/2008	Needs FDOT Approval	Unable to link manually generated DMS message to event
851	10/8/2008	Needs FDOT Approval	Defects with the handling of MULTI messages

Footprints Active Issues: Enhancements (cont)

865	10/13/2008	Needs FDOT Approval	Block all cameras at once
875	10/16/2008	Needs FDOT Approval	Provide diagnostic log data for detectors
883	10/23/2008	Needs FDOT Approval	Improved map defaults and window setting on first time login (for a new user)
885	10/23/2008	Needs FDOT Approval	Video Wall Control Dialog does not correctly represent current status of Video Wall.
890	10/23/2008	SwRI Reviewing	Video/Snapshot in SunGuideâ„¢ Incident Detected dialog
894	10/23/2008	Needs FDOT Approval	Low Res SunGuide logo on Reports
913	10/27/2008	Needs FDOT Approval	Inconsistent Toll Authorization Delays
914	10/27/2008	Needs FDOT Approval	511 description for cleared scheduled roadwork does not state lanes are cleared

Footprints Active Issues: Enhancements (cont)

928	11/3/2008	Needs FDOT Approval	Additional Audit functionality
936	11/11/2008	Needs FDOT Approval	Request to keep TvT control at top of screen
960	12/4/2008	Needs FDOT Approval	Column headers for Event List tab
961	12/4/2008	Needs FDOT Approval	Column headers for Report tab
962	12/4/2008	Needs FDOT Approval	Column headers for Audit tab
969	12/9/2008	Needs FDOT Approval	TSS Alarm Treshold Enhancement
978	12/11/2008	SwRI Reviewing	EM fields reset on configuration updates
979	12/12/2008	Needs FDOT Approval	Allow Command Receivers to forward to other Command Receivers

Footprints Active Issues: Enhancements (cont)

994	12/29/2008	Needs FDOT Approval	C2C Sort Order Field Length
1041	1/23/2009	SwRI Addressing	Remove Event from FLATIS when an event is closed
1042	1/23/2009	SwRI Addressing	Simplify deleting Floodgate Audio Messages and Banners
1043	1/23/2009	Needs FDOT Approval	Highlight Communication Failures to FLATIS when Events or Floodgates are sent
1044	1/23/2009	Needs FDOT Approval	Allow a SunGuide deployment to flag devices being "commissioned"
1052	1/29/2009	Needs FDOT Approval	Add ability to configure additional properties in EM
1053	1/29/2009	Needs FDOT Approval	Add filter in reports for "Comment Type" and Comment keyword search
1054	1/29/2009	Needs FDOT Approval	Add tracking for user logins

Footprints Active Issues: Enhancements (cont)

1055	1/29/2009	Needs FDOT Approval	Add Export Format option for raw report data
1066	2/3/2009	Needs FDOT Approval	Customize RPG Email Messages
1067	2/3/2009	SwRI Addressing	'In Use' field should be removed from the RM time of day firmware configuration screen.
1071	2/6/2009	Needs FDOT Approval	Floodgate Message Capture/Archival
1074	2/9/2009	Needs FDOT Approval	MAS Queue restart on different cluster node pulls up stale list on restart

Footprints Issue 101 & 503

- Footprints #101
  - Reported by D4 (Vahle)
  - Detector reports 0-0-0 for SOV
    - When no traffic
    - With stopped traffic
  - Different manufacturers report different results

- Footprints #503
  - Reported by D2 (Summerfield)
  - “Non-sensical” values for travel time

Of Detectors and Travel Times

- If a Detector is not responding to polls, should TVT "guess" at the speed value for that non-reporting detector?
  - Yes.

- If TVT is to guess at the speed value for a non-reporting detector…
  - SwRI analyzed several interpolation / extrapolation techniques. We concluded the "best" solution is to use linear interpolation with best squares fit over spatial relationship.

Of Detectors and Travel Times (cont)

- How many adjacent non-reporting segments (detectors) before TVT computation is abandoned?
  - This should be configurable, it depends on local topology.

Of Detectors and Travel Times (cont)

- If traffic is stopped
  - Always compute travel time using speeds.
  - ATIS applications: Cap the computed time by configurable value set per travel time link
  - ODS: Store computed values

- If no traffic is present
  - ATIS: compute travel time based on free flow speed
  - ODS: store value based on free flow speed

Of Detectors and Travel Times

- LPR & AVI Readers failure to match tag reads:
  - Report no valid data (in all traffic conditions)

- ODS Data Rollups: How should missing data be stored?
  - Roll data up and indicate % of missing data (data present?)

Of Detectors and Travel Times

- C2C TSS Data:
  - Missing data: no data sent
  - Fast data: configurable caps
  - Slow data: send speed
  - No traffic: no data sent

Of Detectors and Travel Times

- Next step
  - Evaluate current compliance
  - Provide to FDOT effort to meet these recommendations

Footprints Issue 222

After inputting over 100 detectors, mapping them and placing the links I have been informed there is a 30 character limit on link descriptions and names. Hector said this could be increased rather than completely redoing something that would take a week. If all possible we need this done so I can have everything up and running before Sunguide (Hector) visits next week.

While waiting for a response.....I went back in and changed all of them. The names of devices and links needs more than 30 characters. Especially if we are going to conform to the latest NTCIP naming convention. When I put this footprint in it was due to the travel time links. I went back and changed all 100 of them.

Footprints Issue 222 (cont)

- NTCIP 1104 v01.09
  - {Object Name} ::= {CountryID} ”/” {StateID} ”/” {OwnerID} ”/” {CenterID} ”/” {ObjectKind} ”/” {ObjectType} ”/” {ObjectInstance}
  - Example: US/FL/D4/BC/Device/DMS/95NB27

- Is the 30 character limit too small?
  - Keep 30 character limit
  - Review all naming limits

- Impacts:
  - Database
  - Admin editor
  - GUI

Change Management Board

SunGuide Software – Windows 2008 Environment

David Chang

Windows 2008 Environment

- Lee County Plans
- C2C tested in Win 2008
- 40-80 hrs for SwRI's lab testing

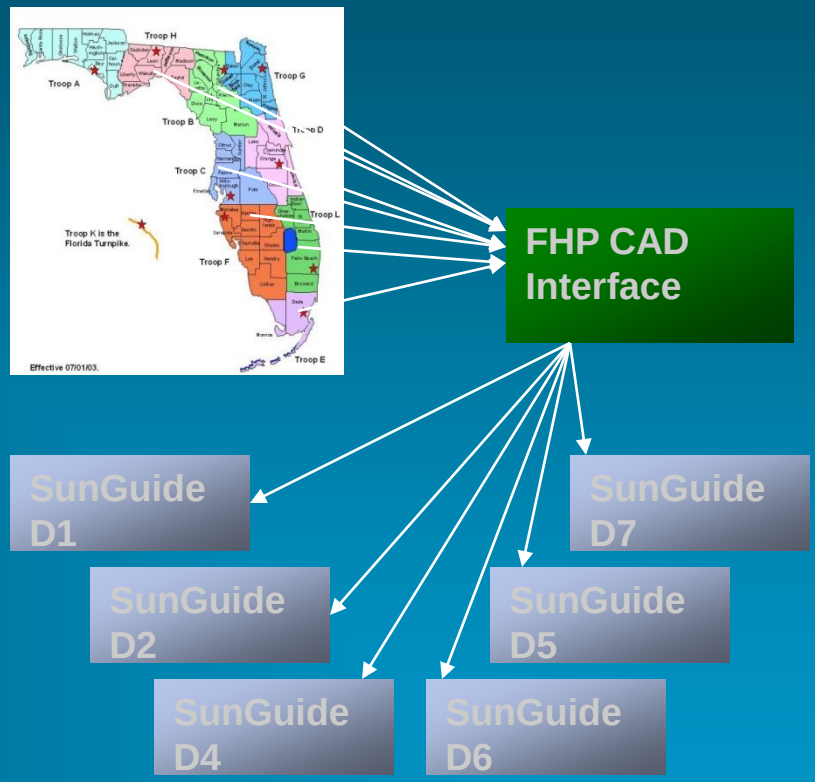
Change Management Board

SunGuide Software R 4.2 –
FHP CAD Operator Interaction Requirements

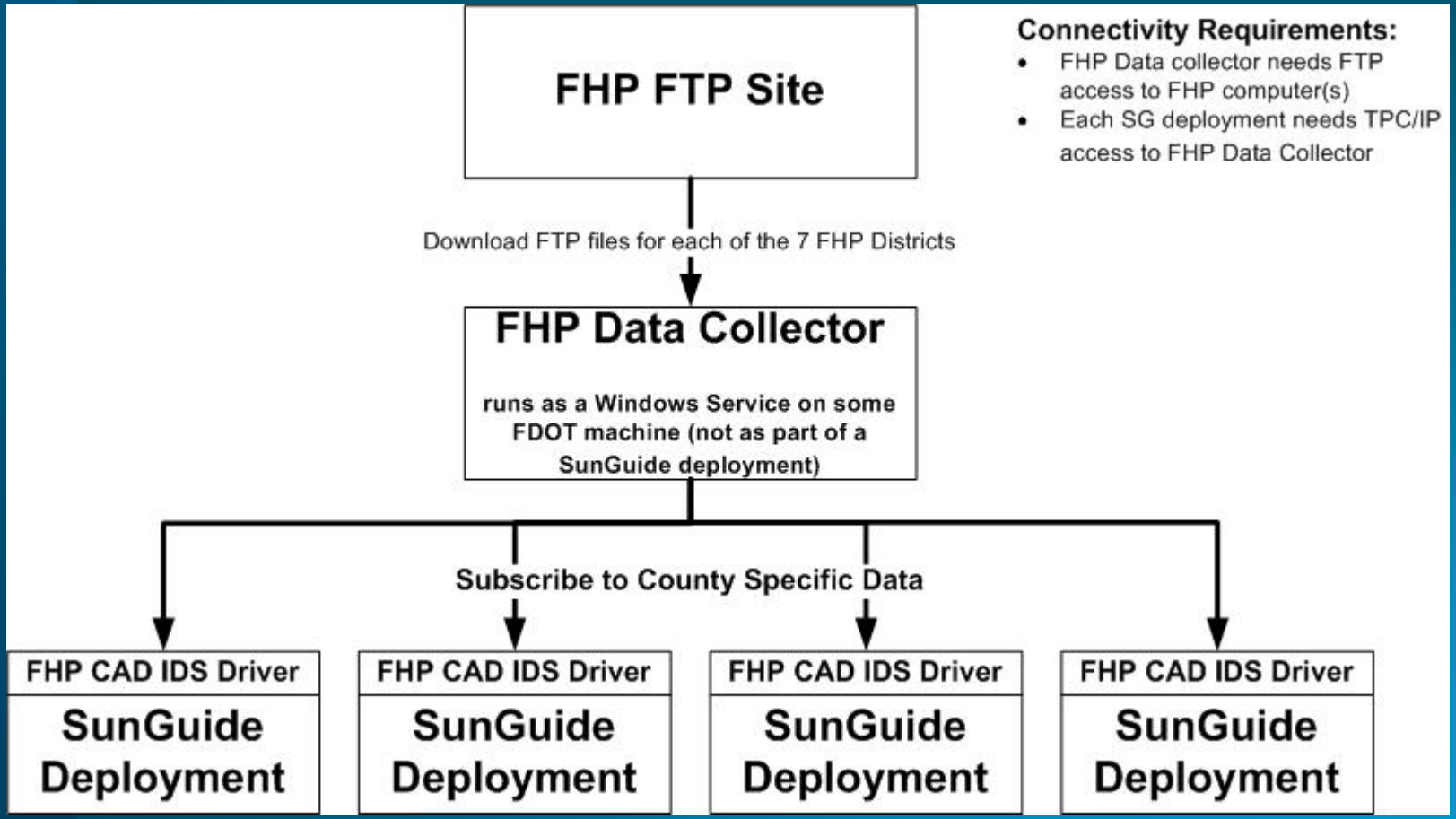
John Hope

FHP CAD Interface - Communications

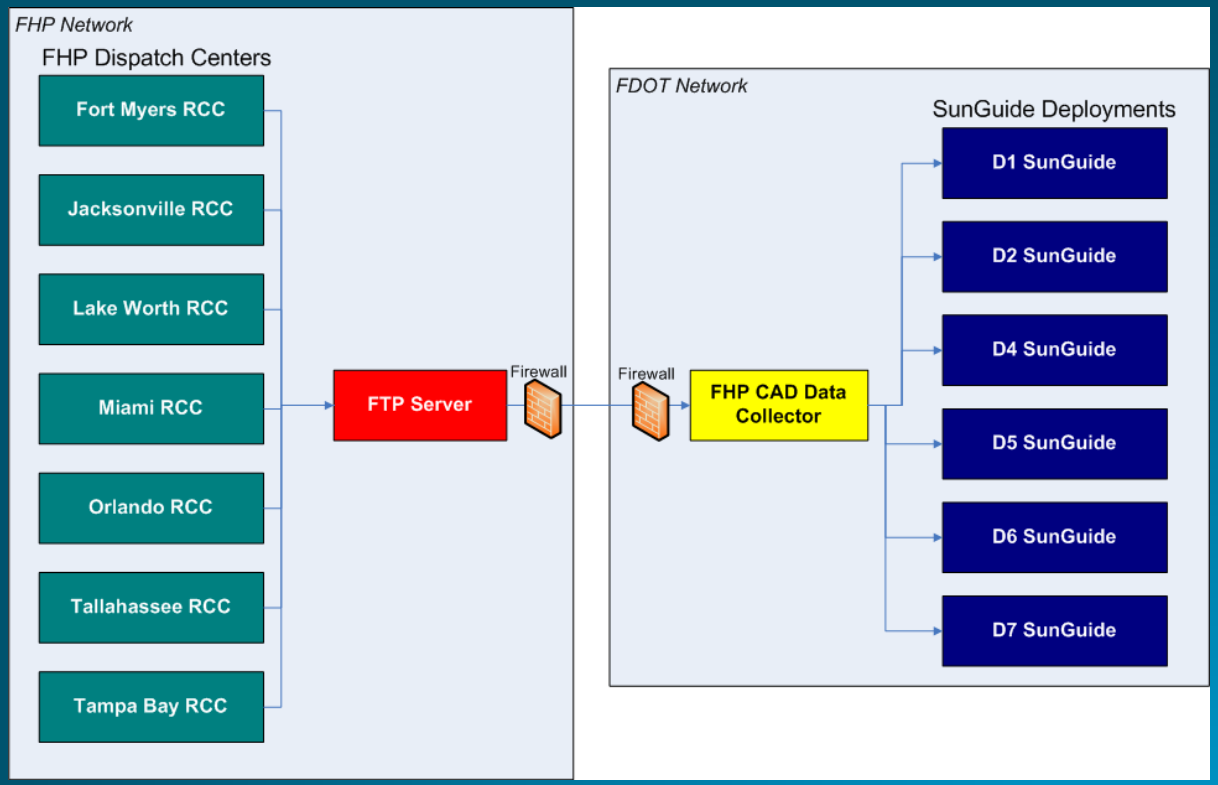
- Automated interface that consolidates, filters, and redistributes FHP CAD data to each SunGuide deployment
- Interface will filter by county; Districts will be able to receive events outside district boundaries



FHP CAD Interface - Communications



FHP CAD Interface - Communications



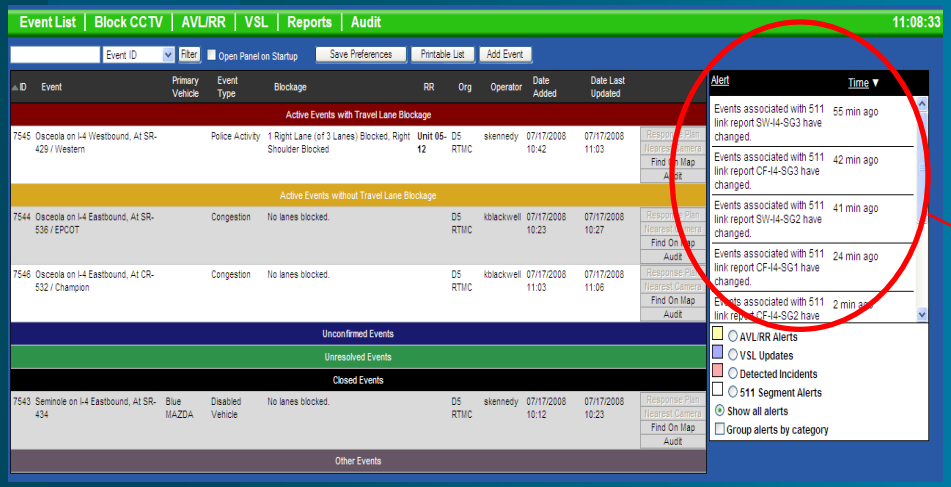
Physical connection between FHP and FDOT

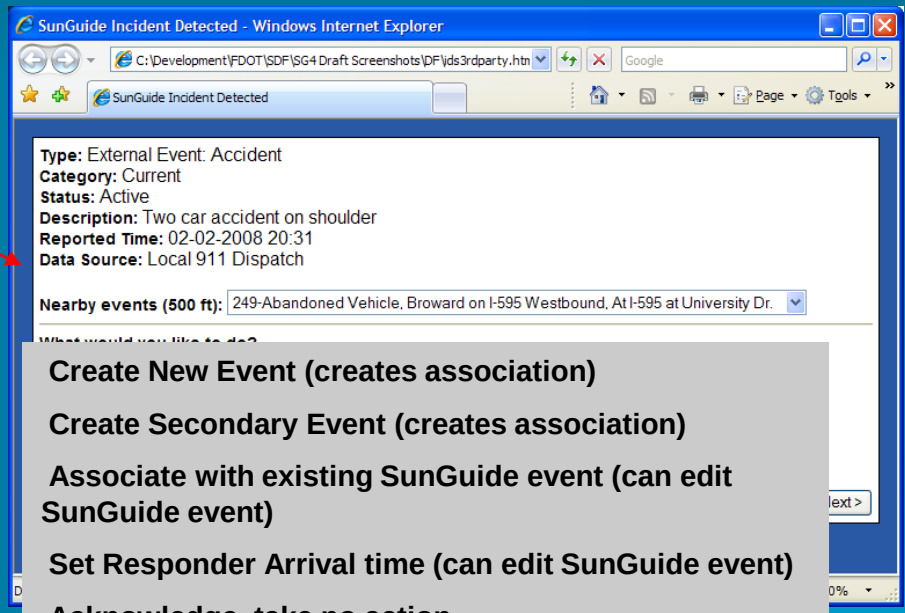
Located at FDOT D5 RTMC (will not use internet connection)

Connectivity configuration details currently being determined

FHP CAD Interface – Operator Interaction

- SunGuide operators will be alerted to new and updated FHP CAD events via the existing Alerting window next to Event List
- When an operator handles an alert, he/she will be provided options to incorporate or dismiss FHP CAD data





Create New Event (creates association)

Create Secondary Event (creates association)

Associate with existing SunGuide event (can edit SunGuide event)

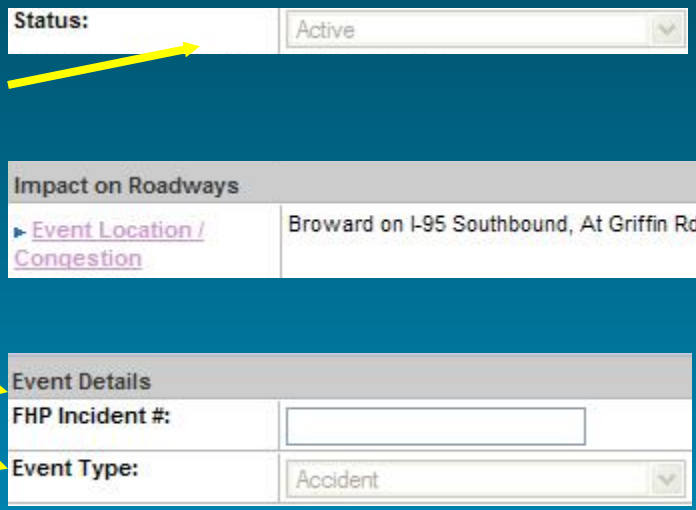
Set Responder Arrival time (can edit SunGuide event)

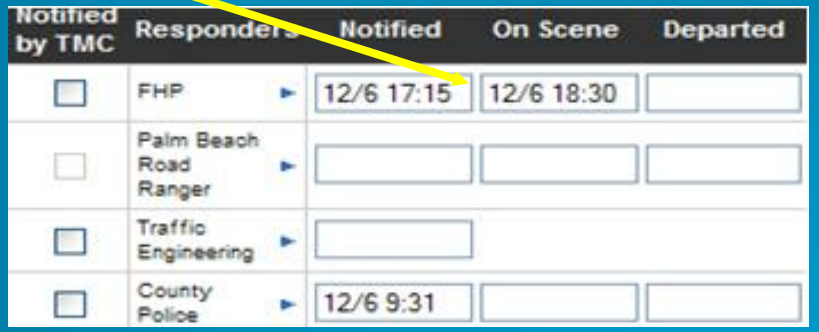
Acknowledge, take no action

Dismiss (providing a reason, e.g. False Alarm)

FHP CAD Interface – Operator Interaction

- Create New Event
  - Event Status set to “Active”
  - Event Location set*
  - FHP ID set
  - Event Type set*
  - Arrival Time set*

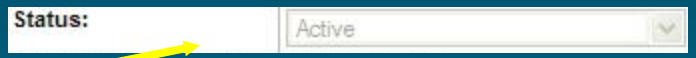


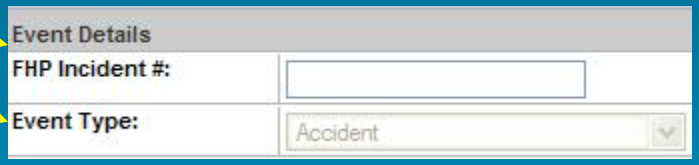


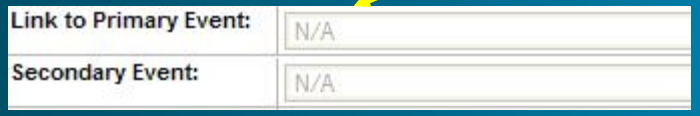
* = Set if Provided by FHP CAD

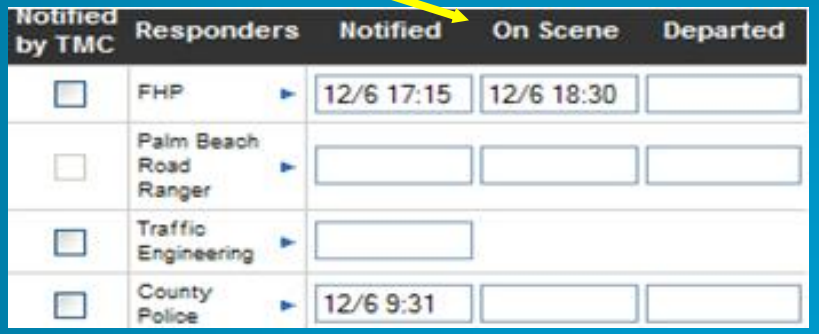
FHP CAD Interface – Operator Interaction

- Create Secondary Event
  - Event Status set to “Active”
  - Event Location set*
  - FHP ID set
  - Event Type set*
  - Arrival Time set*
  - Operator selects Primary Event and then it is set in the new event





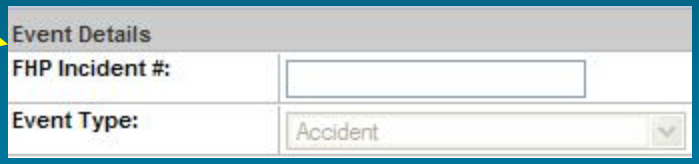




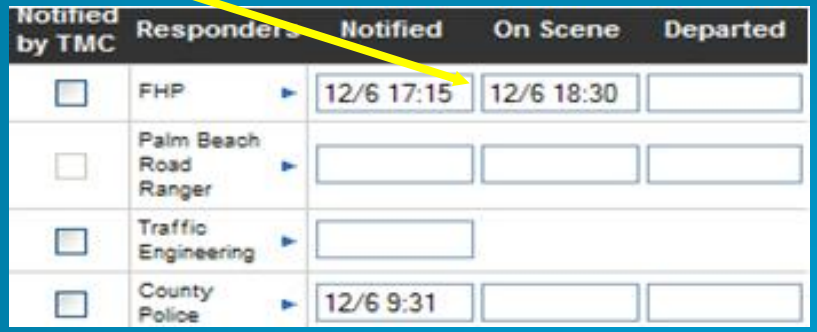
* = Set if Provided by FHP CAD

FHP CAD Interface – Operator Interaction

- Associate with existing SunGuide
  - FHP ID set



Set Responder Arrival time
  - Arrival Time set*



* = Set if Provided by FHP CAD

FHP CAD Interface – Operator Interaction

- For “Associate with existing SunGuide” and “Set Responder Arrival time”, an existing event is being edited
- Rules for editing existing event:
  - If the event is owned by the operator handling the alert, the event edits shall be performed without further operator action.
  - If the event is (a) un-owned, (b) owned by a “system” user, or (c) owned by a user that is not logged in, event ownership shall be obtained and event edits shall be performed without further operator action.

FHP CAD Interface – Operator Interaction

- If event is owned by an operator who is not handling alert:
  - The event-owning user shall be presented a dialog containing a description of the requested event change and the following three action choices:
    - Perform the requested edit while retaining ownership
    - Relinquish ownership to the requesting user
    - Deny the action by the requesting user
  - If the event-owning user logs out before selecting an option, event ownership shall be relinquished to the requesting user.

FHP CAD Interface – Operator Interaction

- Acknowledge, take no action
  - Alert goes away, but any updates to FHP event produces another alert
- Dismiss (providing a reason, e.g. False Alarm)
  - Alert goes away, any updates to FHP event DOES NOT produce another alert

FHP CAD Interface - Requirements

- **System Requirements:** ***No Changes***
  - **CA001: An external event alert shall be presented to the SunGuide operator within 60 seconds of a traffic incident for a requested location being placed on the FHP CAD FTP server.**
  - **CA002: The system shall support filtering of FHP traffic incidents by county.**
  - **CA003: The system shall support filtering of FHP traffic incidents by a configurable list of FDOT-covered roadways.**
  - **CA004: A SunGuide operator shall be notified of FHP CAD interface communication failures.**
  - **CA005: A SunGuide operator shall be notified if RCC updates are not received at the FHP CAD server within a configurable amount of time.**
  - **CA006: Notifications and data entry related to the handling of FHP CAD incidents shall be consistent with SunGuide Release 4.0.0 functionality.**

FHP CAD Interface - Requirements

- **FHP Interface Requirements:**
  - **CA007: Traffic incidents shall be accessed from a single configurable location, consisting of separate files from each FHP CAD RCC.**
  - **CA008:**
    - **Original Wording: Traffic incidents shall be accessed from the FHP CAD server using the existing XML format.**
    - **Proposed Wording: SunGuide shall access traffic incidents from the FHP CAD server using the XML format documented in "Data Elements for Supporting the Florida Department of Transportation CAD 511 Integration Project," Version 1.0, April 4, 2005, CTS America.**
  - **CA009: Incident data shall be provided to SunGuide in a format consistent with the SunGuide External Events XML schema.**

FHP CAD Interface - Requirements

- **SunGuide Requirements:** *No Changes*
  - CA005A: Updated FHP CAD incidents shall update/replace existing unacknowledged alerts.
  - CA005A1: External event alerts from FHP CAD incidents shall include the following fields from the FHP CAD incident, subject to availability in the incoming incident data:
    - FHP CAD Incident ID
    - FHP CAD Incident Type
    - FHP CAD Incident Description and Details (if provided)
    - Route Designator
    - Route Direction
    - Linear Reference, Cross Street, or Mile Marker (if provided)
    - County
    - Latitude and Longitude (if provided)
    - Incident Creation Timestamp
    - Incident Update Timestamp (if update)
    - Trooper Dispatch Timestamp (if provided)
    - Trooper Arrival Timestamp (if provided)
    - Originating RCC of the Incident

FHP CAD Interface - Requirements

- **SunGuide Requirements:**
  - **CA005A2:**
    - **Original Wording: External event alerts with no prior association to SunGuide events shall provide the SunGuide operator with the following action choices:**
      - **Create New Event (creates association)**
      - **Create Secondary Event (creates association)**
      - **Associate with existing SunGuide event**
      - **Acknowledge, take no action**
      - **Dismiss (providing a reason, e.g. False Alarm)**
    - **Proposed Wording: External event alerts with no prior association to SunGuide events shall provide the SunGuide operator with the following action choices:**
      - **Create New Event (creates association)**
      - **Create Secondary Event (creates association)**
      - **Associate with existing SunGuide event (can edit SunGuide event)**
      - **Set Responder Arrival time (can edit SunGuide event)**
      - **Acknowledge, take no action**
      - **Dismiss (providing a reason, e.g. False Alarm)**

FHP CAD Interface - Requirements

- **SunGuide Requirements:**
  - **New Requirement: CA005A3: Edits to existing SunGuide events shall be performed without obtaining further permission using the following rules:**
    - **If the event is owned by the operator handling the alert, the event edits shall be performed without further operator action.**
    - **If the event is (a) un-owned, (b) owned by a "system" user, or (c) owned by a user that is not logged in, event ownership shall be obtained and event edits shall be performed without further operator action.**
  - **New Requirement: CA005A4: Edits to existing SunGuide events shall be performed after obtaining permission using the following rule and exception:**
    - **If the event is owned by a logged-in user other than the user handling the FHP alert, the owning user shall be presented a dialog containing a description of the requested event change and the following three action choices:**
      - **Perform the requested edit while retaining ownership**
      - **Relinquish ownership to the requesting user**
      - **Deny the action by the requesting user**
    - **If the event-owning user logs out before selecting an option, event**

FHP CAD Interface - Requirements

- **SunGuide Requirements:** *No Changes*
  - **CA003N: If the FHP CAD incident has not been associated with a SunGuide event, a list of active SunGuide events within a configurable radius shall be presented to the operator.**
  - **CA003N1: A SunGuide event created from an acknowledged FHP CAD incident shall be populated initially from the FHP incident alert data.**

FHP CAD Interface - Requirements

- **SunGuide Requirements:** *No Changes*
  - **CA002D: All FHP CAD incident data received by SunGuide will be stored in the SunGuide database with appropriate timestamps, preserving the original data received including maintaining latitude/longitude data in micro degrees, updates to the data and operator responses to alerts generated by SunGuide.**
  - **CA002D1: If an operator dismisses an alert from an FHP CAD incident, the alert and reason for dismissal will be stored in the SunGuide database.**
  - **CA002D2: If an FHP CAD incident has been dismissed (i.e. as a false alarm), the SunGuide will not create new alerts from the updates to the FHP CAD incident.**
  - **CA003G: SunGuide events created from FHP CAD incidents shall be displayed on the SunGuide operator map.**
  - **CA006A: When SunGuide receives updates to alerts that have been acknowledged (only) it will generate an alert as if it had not been previously received.**

FHP CAD Interface - Cont

- Tasks:
  - FHP CAD Interface Service
  - External Events Driver
  - Incident Detection Subsystem
  - Event Management
  - GUI
- *Vote*

Change Management Board

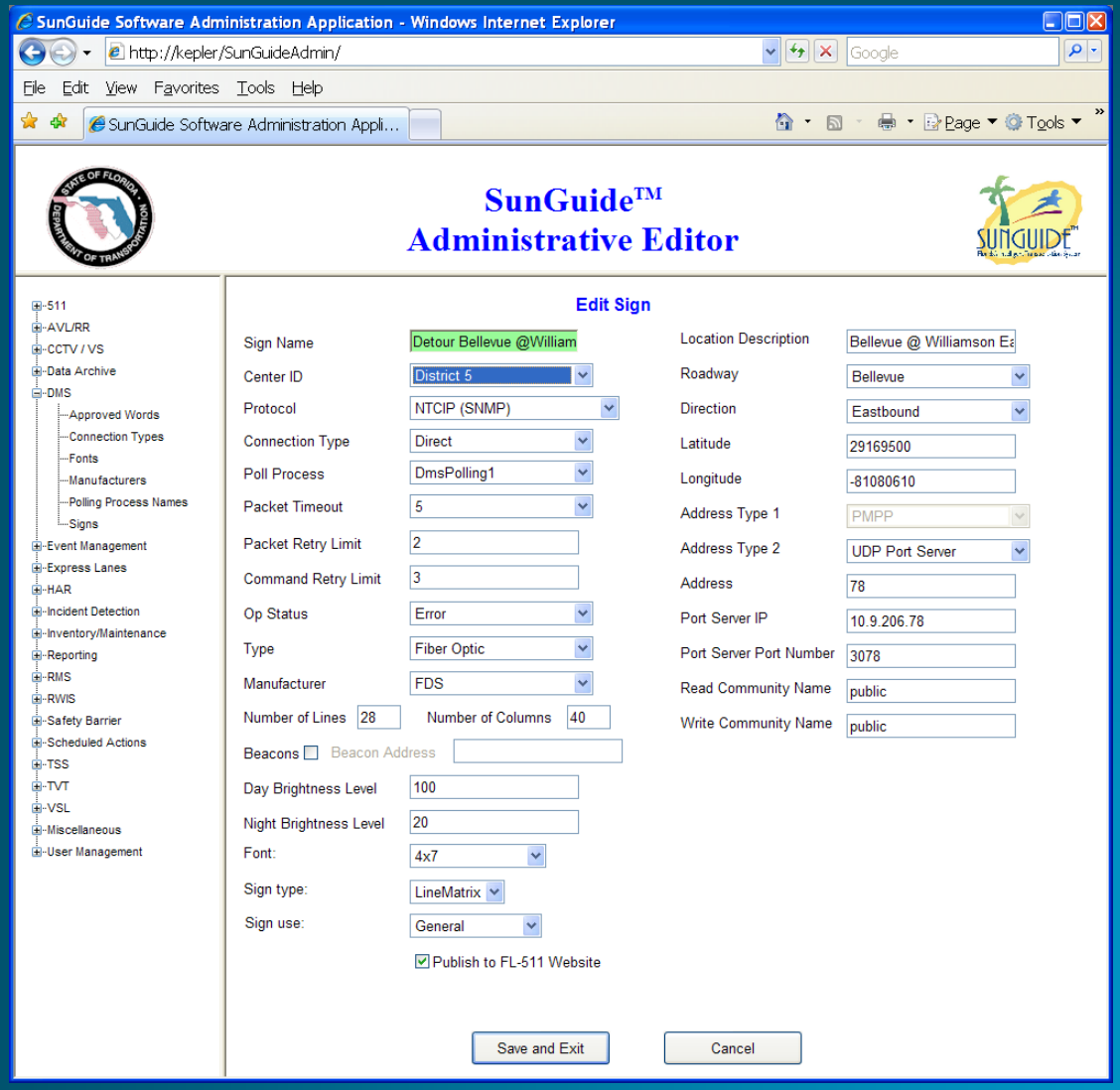
SunGuide Software R 4.2 –
FL-ATIS Publish to Public Admin Editor Requirements

Erik Gaarder

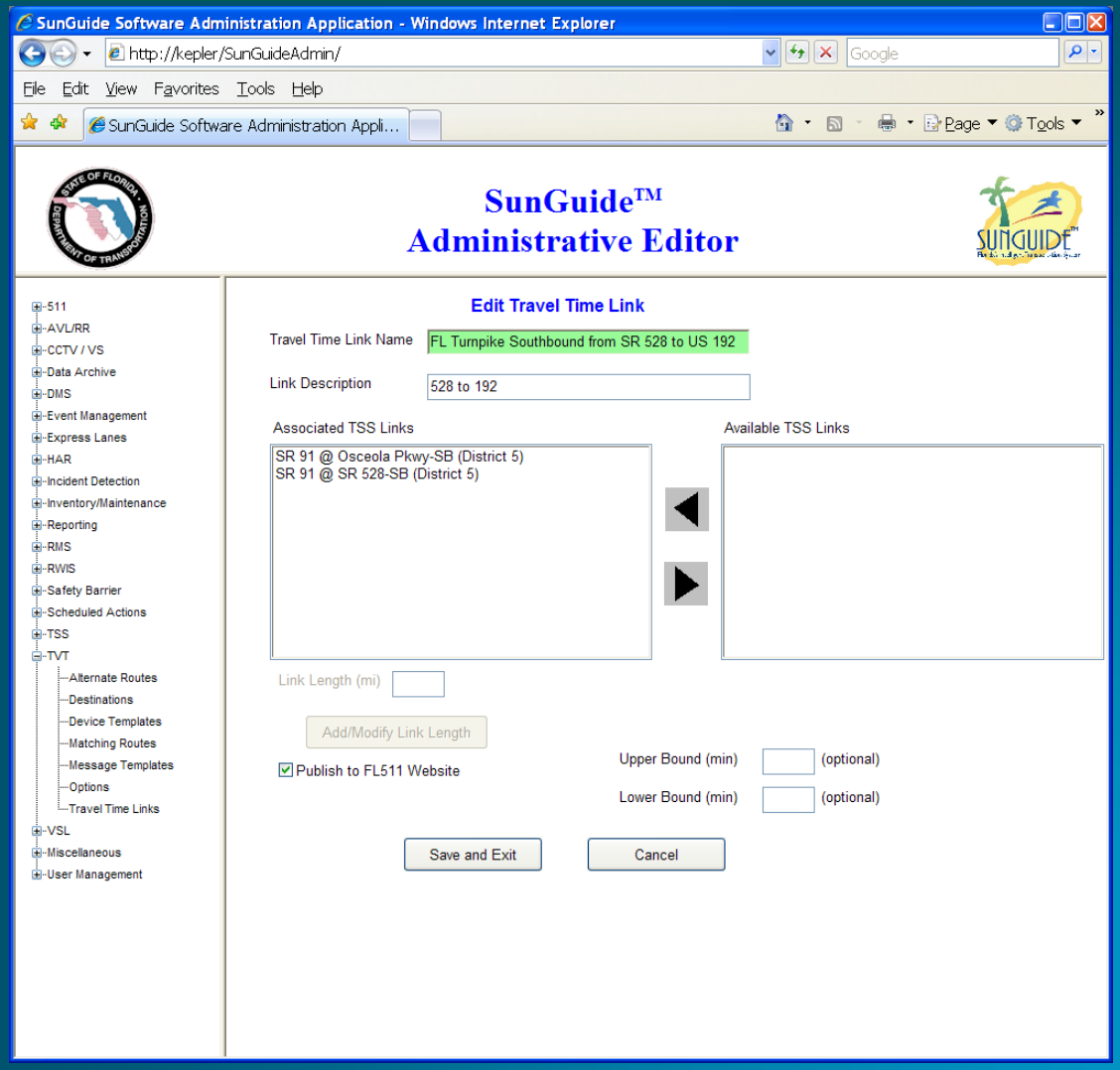
Publish to Public Admin Editor

- **Filtering out TVT links, CCTV, and DMS from FL-ATIS**
  - The following guidelines have been established to assist the Districts in filtering out certain elements that they do not want to appear on the FL-ATIS system. The names in italics below are consistent with SunGuide's Admin Editor field names:
    - TvT Links
    - CCTV
    - DMS

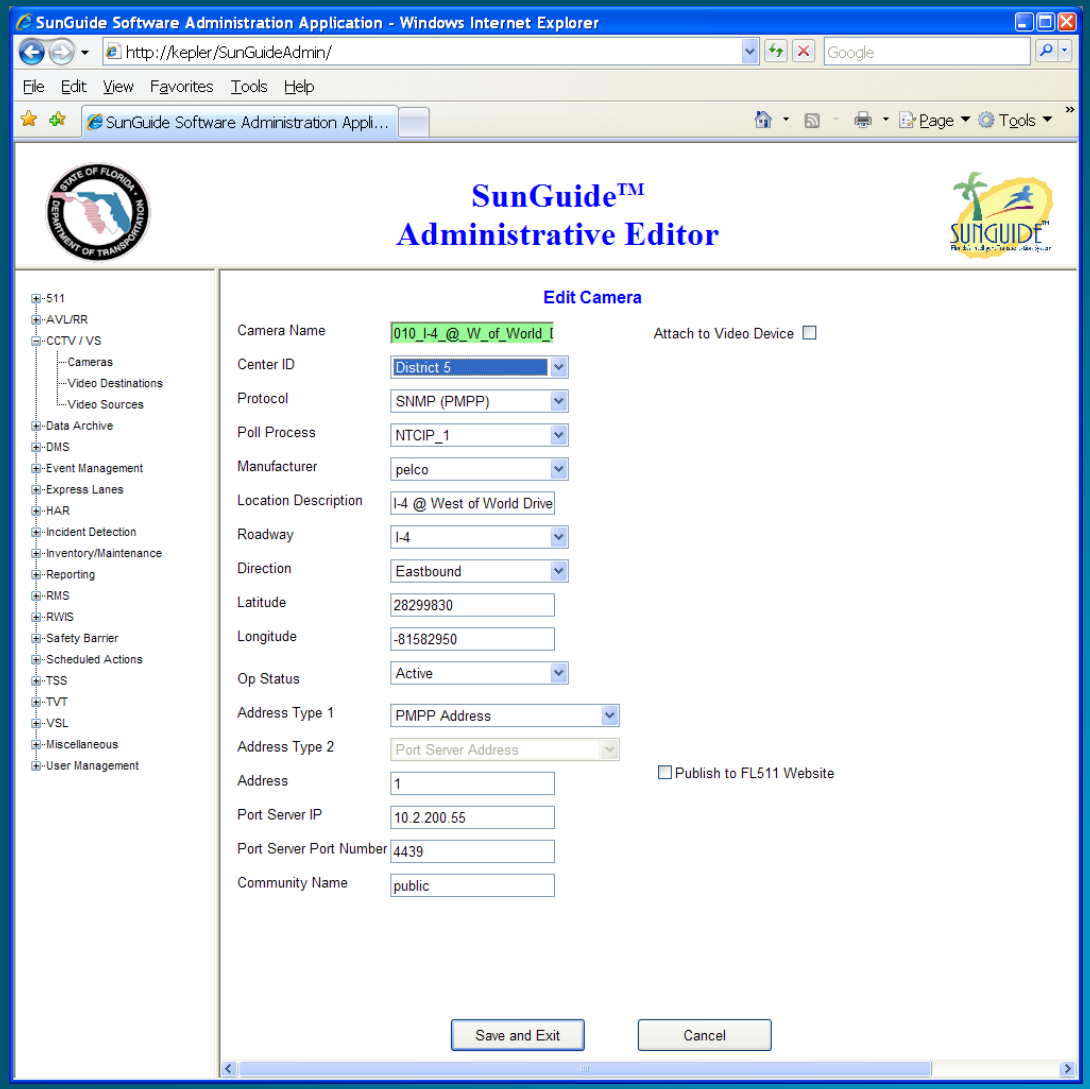
Publish to Public Admin Editor



Publish to Public Admin Editor



Publish to Public Admin Editor



Publish to Public Admin Editor

- CC001 CCTV configuration data published to C2C shall have an attribute indicating whether the device should be visible to the public.
- CC002 DMS configuration data published to C2C shall have an attribute indicating whether the device should be visible to the public.
- CC003 Travel Time configuration data published to C2C shall have an attribute indicating whether the link should be visible to the public.
- ***Vote***

SunGuide Software R 4.2 – FL-ATIS Floodgate Monitoring

Erik Gaarder

FL-ATIS Floodgate Monitoring

- Create a new Sunguide database table to be used for storing Floodgate commands sent to FL-ATIS and command result. The table will contain the elements of the Floodgate command, in addition to timestamp and operator information.
- Update the SunGuide C2C Plug-in to
  - Add a record to the new table for each Floodgate command attempt
  - Update the record when the command response is received

FL-ATIS Floodgate Monitoring

- DF031D The SunGuide C2C Plug-in shall store a record of each Floodgate command attempt to the SunGuide database. The record shall be updated to reflect the completion status of the command.
- DF031G The SunGuide Floodgate command history record shall contain, at a minimum, the following fields:
  - Unique Database ID
  - Date and time of command (timestamp)
  - Operator's user name
  - Floodgate ID (slot code)
  - Severity
  - Language name
  - Message Text (in named language)
  - Banner Text (in named language)
  - End-call flag
  - Barge-in flag
  - Command Completion Status
- COST $5,642
- *Vote*

Change Management Board

BREAK

Change Management Board

SunGuide Software R 4.3 – Response Plans ConOps

Mark Laird

RPG ConOps Topics

- RPG Goals
- RPG ConOps Status
- Mainline + Ramp Blockages
- Ramp Blockage Terminology
- Off Ramp Messaging
- Shoulder Blockages
- Vehicle Alerts
- RPG Configuration
- RPG Performance

RPG Goals

- **Precise**
  - Specify exactly what and where
  - Choose correct equipment
- **Clear**
  - Simple, common terminology and references
    - Roads, exits, lanes
  - Unambiguous
- **Concise**
  - Use fewest words necessary
- **Efficient and Accurate**
  - Minimize time to post
  - Minimize potential for operator errors

ConOps Status

- Draft circulated for review
  - Comments were due 12/19/08
  - Comments received from CO, & SwRI
  - Verbal comments received from D2 & D4
  - Met on 1/13/09
    - With: SwRI, CO, and D4 (Dave Ashton)
    - Discussed: Comments received
- Next Version
  - Expect to begin incorporating comments by 2/27
  - Expected completion 1 to 2 months after 2/27
  - Comments can still be incorporated until 2/27
    - Send to manuel.fontan@dot.state.fl.us
    - Major last minute changes would be a problem

Mainline + Ramp Blockages

- If both mainline and ramp blocked
  - Mainline blockage is handled by RPG
  - Example:

    - Does driver think that he can use the exit?
    - Requires manual intervention to add ramp message
  - Automatically Generate 2-phase Message

    - Use both mainline and ramp templates

D6 Mainline and Ramp Templates

Mainline:

Template name: dms-on-route-el

Current template appearance:

```
[LANE]
[STATUS][PROXIMITY]
[CROSS STREET]
```

Template text:

- [LANE]
- [NEW LINE]
- [STATUS]
- [NEW PAGE]
- [PROXIMITY]
- [NEW LINE]
- [CROSS STREET]

Ramp:

Template name: dms-on-route-ramp

Current template appearance:

```
[PROXIMITY]
[CROSS STREET]
[LANE] [STATUS]
```

Template text:

- [PROXIMITY]
- [NEW LINE]
- [SPACE]
- [CROSS STREET]
- [SPACE]
- [NEW LINE]
- [LANE]
- [SPACE]
- [STATUS]

Ramp Blockage Terminology

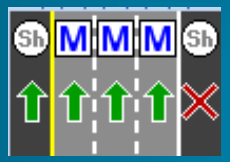
- Exit to SR-XX
  - Not clear that the issue is on the ramp as opposed to at the exit on the highway
  - Can have “Exit to Exit XX”
- Ramp to SR-XX
  - Consensus preference in January meeting

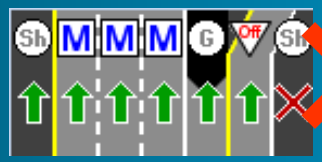
On Ramp Messaging

- Do not produce DMS messages for On Ramp blockages (Ramp From)
- Operators have to take the time to remove them

Shoulder Blockages

- Likely that shoulder blockage messaging will increase in frequency
  - "Move Over" law in effect
  - Safety for emergency responders
- Need to correct some bugs to generate accurate shoulder response plans
- Terminology
  - Right Shoulder
  - Left Shoulder
  - Eliminate gore
  - Right Ramp Shoulder





RIGHT SHOULDER
BLOCKED BEFORE
EXIT 12

Mainline template

RIGHT SHOULDER
BLKD RAMP TO
EXIT 12

Ramp template

RAMP TO
EXIT 12
RHT SHLDR BLOCKED

Vehicle Alerts

- Experiencing many more Silver alerts than expected
- With only one template, operators must customize messages for many alerts
- Not all data used and available has a message template tag
  - Vehicle type
  - Vehicle year
  - Vehicle state tag is in 4.1.2

D6 Amber Alert Examples

Template name: amber-alert

Current template appearance:

```
CHILD ABDUCTION
ALERT
[VEH COLOR] [VEH YEAR] [VEH MAKE]

[VEHICLE TYPE] [STATE] TAG

[LICENSE TAG] CALL*347
```

Template text:

- [SPACE]
- [VEH YEAR]
- [SPACE]
- [VEH MODEL]
- [NEW PAGE]
- [VEH MAKE]
- [SPACE]
- [STATE]
- [SPACE]
- TAG

AMBER Alert

Format for DMS with 3 Lines & 18 Characters	
DMS # 1, 4, 6, 7, 8, 9, 10, 14, 15, 17, 19, 20, 22, 42, 43, 44, 45, 46, 47, 48, 57, 63, 64, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 77, 103, 104, 105	
Format for DMS with 3 Lines & 16 Characters	
Phase1	Phase 2
CHILD ABDUCTION	[TYPE OF VEHICLE] [STATE] TAG
ALERT	
[COLOR YEAR, MAKE OF VEHICLE]	[TAG #] CALL *347

Format for DMS with 3 Lines & 14 Characters	
DMS # 2, 3, 5	
Phase1	Phase 2
AMBER ALERT	[STATE] TAG [TAG #]
[COLOR & YEAR OF VEHICLE]	
[MAKE & TYPE OF VEHICLE]	CALL *347

Format for DMS with 2 Lines & 12 Characters	
DMS # 23, 106, 107, 108, 109 110, 111, 112, 113	
Format for DMS with 2 Lines & 14 Characters	
DMS # 61 & 62	
Phase1	Phase 2
AMBER ALERT	[MAKE OF VEHICLE]
CALL *347	[STATE] TAG [TAG #]

D6 Silver Alert Examples

Silver Alert

Format for DMS with 3 Lines & 18 Characters	
DMS # 1, 4, 6, 7, 8, 9, 10, 14, 15, 17, 19, 20, 22, 42, 43, 44, 45, 46, 47, 48, 57, 63, 64, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 77, 103, 104, 105	
Format for DMS with 3 Lines & 16 Characters	
Phase1	Phase 2
SILVER ALERT	[TYPE OF VEHICLE] [STATE] TAG
[COLOR , YEAR, MAKE OF VEHICLE]	[TAG #] CALL *347

Format for DMS with 3 Lines & 14 Characters	
DMS # 2, 3, 5	
Phase1	Phase 2
SILVER ALERT	[STATE] TAG [TAG #]
[COLOR & YEAR OF VEHICLE]	
[MAKE & TYPE OF VEHICLE]	CALL *347

Format for DMS with 2 Lines & 12 Characters	
DMS # 23, 106, 107, 108, 109 110, 111, 112, 113	
Format for DMS with 2 Lines & 14 Characters	
DMS # 61 & 62	
Phase1	Phase 2
SILVER ALERT	[MAKE OF VEHICLE]
CALL *347	[STATE] TAG [TAG #]

D6 LEO Alert Examples

LEO Alert

Format for DMS with 3 Lines & 18 Characters	
DMS # 1, 4, 6, 7, 8, 9, 10, 14, 15, 17, 19, 20, 22, 42, 43, 44, 45, 46, 47, 48, 57, 63, 64, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 77, 103, 104, 105	
Format for DMS with 3 Lines & 16 Characters	
Phase1	Phase 2
LAW ENFORCEMENT	[TYPE OF VEHICLE] [STATE] TAG
ALERT	
[COLOR , YEAR, MODEL OF VEHICLE]	[TAG #] CALL *347

Format for DMS with 3 Lines & 14 Characters	
DMS # 2, 3, 5	
Phase1	Phase 2
LAW	[MODEL & TYPE OF VEHICLE]
ENFORCEMENT	[STATE] TAG [TAG #]
ALERT	CALL *347

Vehicle Alerts

- **Alternatives to Handle Variants:**
  - Return to 3 event types: Amber, Silver, LEO
  - Provide choice of Vehicle Alert variants
- **Store Variant Info**
  - Support reporting by variant, not just Vehicle Alert
- **Message Template Tags:**
  - Providing additional tags would reduce data entry time
    - Vehicle Type (e.g. 2dr, 4dr, SUV, van, pickup)
    - Vehicle year

RPG Configuration

- Configuring infrastructure data in Admin Editor can be tricky
- Once entered, it is difficult or impossible to fix
- A Configuration Guide Could:
  - Provide guidelines and direction on configuring SunGuide to make RPG most effective
  - Produce a consistent way of coding infrastructure in order for response plans to work as expected
  - Include examples of unusual conditions that arise that are otherwise discovered through experience (lessons learned)

RPG Performance

- Performance includes incident report to messages up
  - Data Entry
  - Generate Initial Response
  - Edit Response
  - Set as Response
- Software Elements
  - Save each EM item – no more than 1 second; no effect on other data or other users
- Save, Get Response
  - No more than 2 seconds to generate
    - 30 seconds to 10 minutes to generate initial proposal in D6
- Save Changes
  - No more than 2 seconds (even if many signs affected)
- Activate Plan (Set as Response)
  - No more than 2 seconds

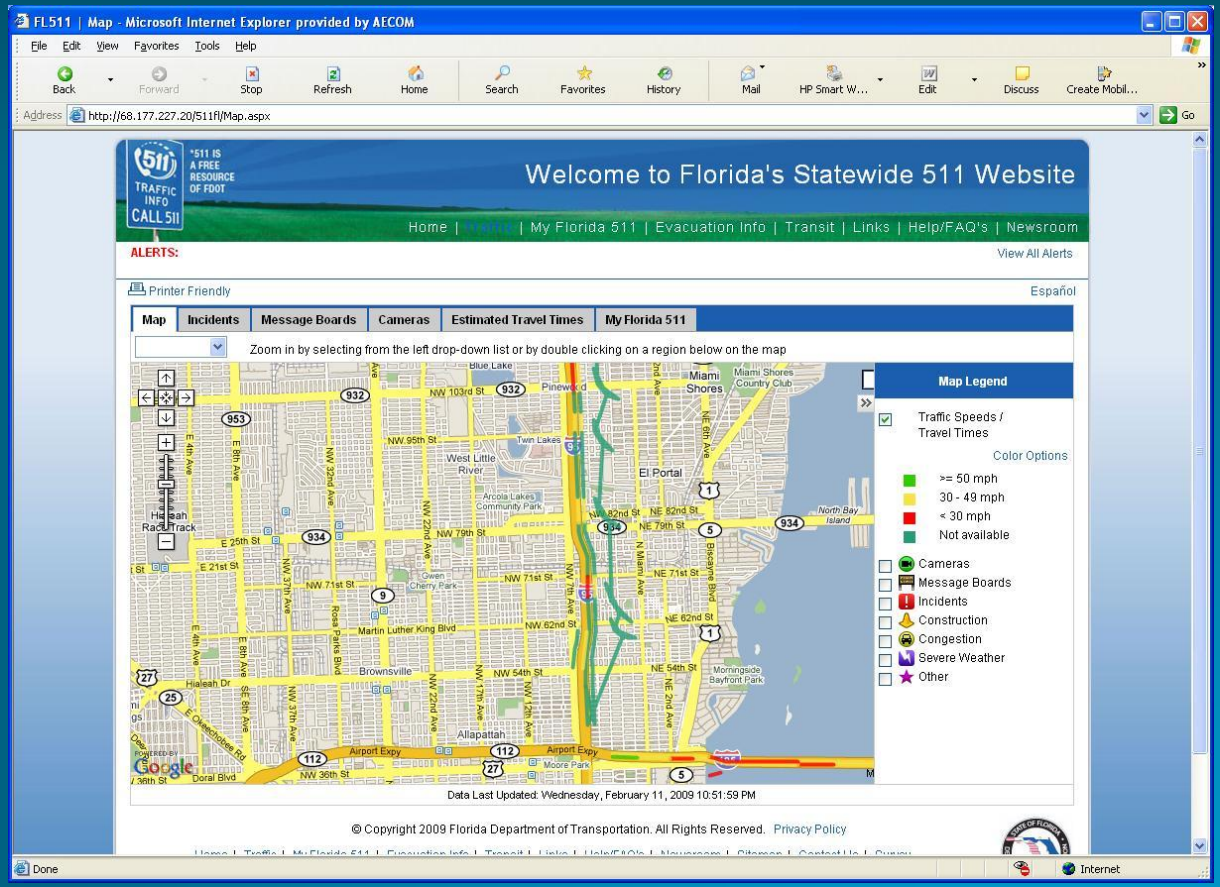
Separate Issues

Disabling Detectors

Identifying Devices

Disabling Detectors

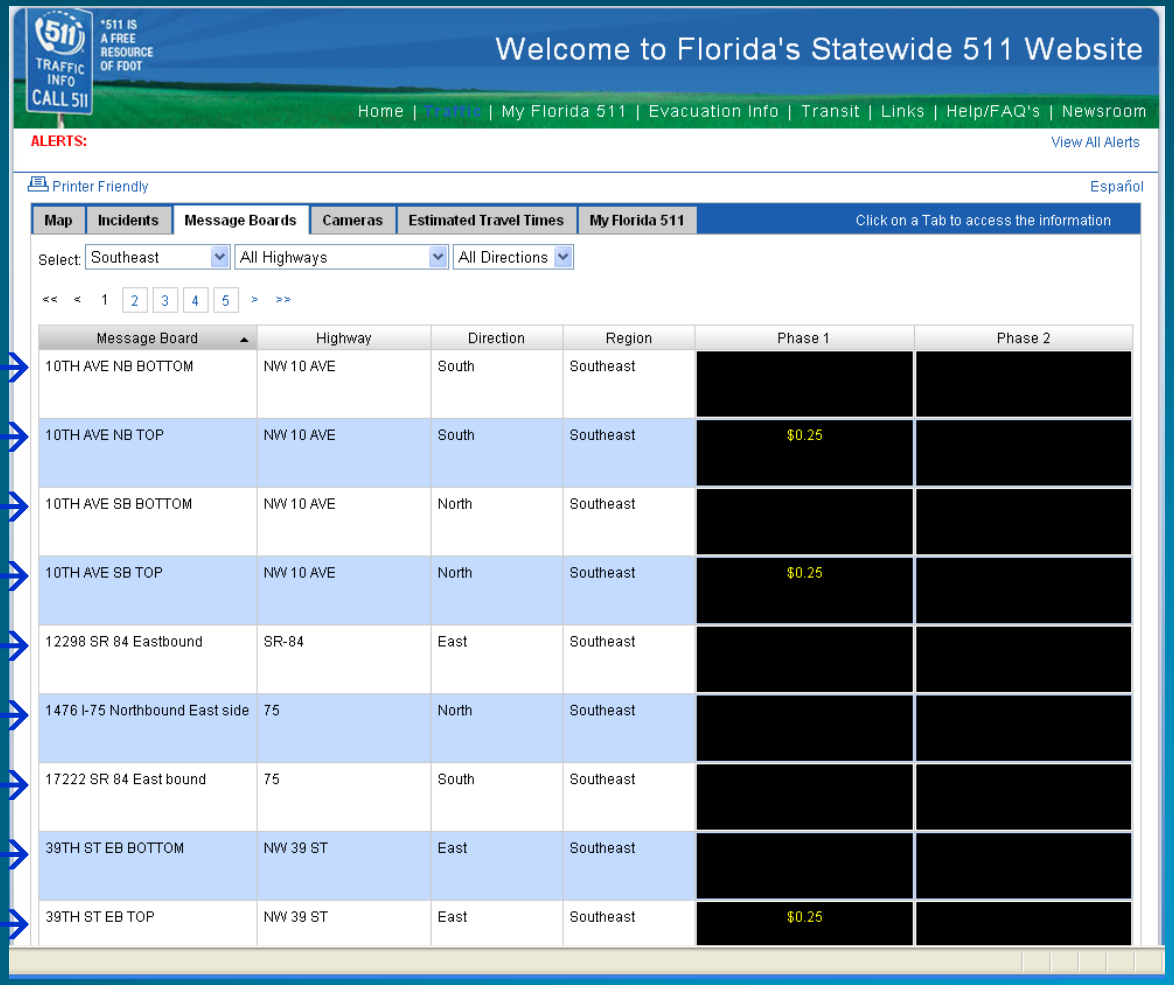
Links drawn for SunGuide are not compatible with Google maps ➔



Identifying Devices

When looking at region, need County

Not only are they interleaved, but how many 10th Avenues are there in Southeastern Florida?



Change Management Board

Closing and Action Item Review

Peter Vega