

Meeting Notes

Change Management Board

October 07, 2014 – 1:30 to 4:30 p.m.

Version 1.0 - FINAL



Prepared for:
Florida Department of Transportation
Traffic Engineering and Operations Office
Intelligent Transportation Systems Section
650 Suwannee Street, M.S. 90
Tallahassee, Florida 32399-0450
(850) 410-5600

List of Acronyms

C2C	Center-to-Center
CCTV	Closed-Circuit Television
CFX	Central Florida Expressway Authority
CMB	Change Management Board
CO	Central Office
ConOps	Concept of Operations
DMS	Dynamic Message Sign
FAT	Factory Acceptance Test
FDOT	Florida Department of Transportation
FL-ATIS or 511	Florida's Advanced Traveler Information System
FP	Footprint
FTE	Florida's Turnpike Enterprise
GDOT	Georgia Department of Transportation
ID	Identification
IE	Internet Explorer
ITS	Intelligent Transportation Systems
IV&V	Independent Verification and Validation
MAS	Message Arbitration Subsystem
MDX	Miami-Dade Expressway Authority
RITIS	Regional Integrated Transportation Information System
SAA	Software Administration Application
SAS	Scheduled Actions Subsystem
SEOC	State Emergency Operations Center
SSUG	SunGuide Software Users Group
SwRI	Southwest Research Institute®
SR	State Road
TMC	Transportation Management Center
TSS	Transportation Sensor Subsystem
UMD	University of Maryland
VAS	Video Aggregation System

VPP Vehicle Probe Project
WAN Wide Area Network
WPF..... Windows Presentation Foundation
WWD Wrong-Way Driving

Florida Department of Transportation
CHANGE MANAGEMENT BOARD MEETING NOTES
Tuesday, October 07, 2014
1:30 to 4:30 P.M
Rhyne Building, Room 330 Tallahassee, Florida

Attendees:

Gene Glotzbach, CO	Scott Robbins, D1/HNTB	Shannon Watterson, D5
Elizabeth Birriel, CO	Robbie Brown, D1	Javier Rodriguez, D6
Clay Packard, CO/Atkins	Vincent Lee, D1/Lucent	Mark Laird, D6/AECOM
Derek Vollmer, CO	Josh Reichert, D2	Terry Hensley, D7
David Chang, CO/Atkins	Ryan Crist, D2/Metric	Dave Howell, D7/HNTB
Karen Miller, CO/Atkins	Craig Carnes, D2/Metric	Romona Burke, D7
Armelle Burluson, CO/Atkins	Jason Summerfield, D2/Metric	Cathie McKenzie, D7
Kelli Moser, CO/Atkins	Donna Danson, D2	Charles Keasler, D7/HNTB
Brian Ritchson, CO/MCG	Mark Nallick, D3	Greg Reynolds, D7
Frank Deasy, CO/Telvent	Amy DiRusso, D3	Jared Roso, D7/Lucent
Jo Ann Oerter, CO/Atkins	Dong Chen, D4	Eric Gordin, FTE
John Glowczewski, CO/Telvent	Dee McTague, D4	Wang Lee, MDX
David Heupel, CO/Telvent	Jeremy Dilmore, D5	John Hope, CFX/Atkins
Chris Birozak, D1	Eddie Grant, D5	Tucker Brown, CO/SwRI

Purpose: The purpose of this meeting was to review and vote on statewide issues and requirements, and review footprint issues.

Welcome and Charter Review: Change Management Board (CMB) Chairman D. Vollmer opened the meeting at 1:35 p.m.

Call for Quorum and Review of Agenda: A quorum was established. D. Vollmer briefly reviewed the meeting agenda.

Previous Meeting Recap and Action Item Review

1. FTE to prepare white paper to document their efforts and findings on WWD. (Open Action Item)
2. CFX to prepare email for distribution to all Districts on findings of latest deployment effort. (Closed Action Item)
3. CO to look into creating an installer since there are 14 hotfixes for SunGuide software Patch 2. (Closed Action Item)
4. CO to create a scope and cost estimate for discontinuous lane blockage item and provide more information. (Open Action Item)
5. CO to send out email on hotfix 14, that it has to be installed in conjunction with using the new report template. (Closed Action Item)
6. Look into getting Bluetooth data into RITIS. (Open Action Item)
7. CO to distribute a ConOps for the arterial probe algorithm. (Closed Action Item)

8. **CO to reach out to Districts for appointments to the Technical Review Committee to review DMS displays and SunGuide software capabilities. (Open Action Item)**
9. **CO to follow-up on Google Traffic data possibilities. (Open Action Item)**

AGENDA ITEMS

ITS Telecommunications Update

D. Heupel presented slides on the ITS WAN update. The Tallahassee fiber ring build-out and splicing has been completed. We are in the process of purchasing the network equipment and finding a vendor to install it. Connectivity to the ring with SEOC will be established so traffic camera video will be able to be viewed. The ITS WAN connection at the Popmano location has been physically connected back to FTE. The last test performed we were able to ping gateway but not a device beyond their gateway due to firewall or routing issue. We are waiting to hear back from FTE networking regarding that issue. No update on multicast readdressing since last quarter. The FL-ATIS & VAS applications phase 1 migration involving getting data off the leased circuits on to the ITS WAN has been completed. There have been challenges between IBI Group and the telephone company for one of the remaining leased circuits that will remain in place. We are waiting to hear what the schedule for the phase 2 migration and asked G. Glotzbach if there had been any updates. G. Glotzbach from CO responded several more weeks best case scenario and many more weeks after that worst case scenario. It will probably be November before things begin moving again. D. Heupel continued presenting the ITS WAN update. We tried to migrate District 6 FTE Tolls middleware application for managed lanes. We migrated them but the application stopped working at 9pm that evening. We trouble shot it the next day and ended up having to do a roll-back. FTE will troubleshoot and reschedule with us. District 4 is not yet scheduled for that effort. Everything else is with respect to that project is unchanged. This completed the ITS WAN update. F. Deasy from CO asked if there were any questions.

SunGuide Software Update

D. Vollmer presented slides on the status of SunGuide software Release 6.0 upgrades. Most Districts have upgraded to 6.0. District 6 and MDX are waiting on a project to be completed before upgrading. Patch 3 was released August 15th which included 5 enhancements and 53 fixes. Some of the enhancements included in Patch 3:

- FP 2181 – Better Filtering/Identification of TSS Link Roadway Information.
- FP 2563 – Re-Implement DMS Groupings for SAS. However, in Release 6.1 there will be a full re-implementation of DMS groups. If you make a change to your group, it will update in other areas of the software in Release 6.1.
- FP 2649 – Quick way to bring up a Short Status window for DMS.
- FP 2652 – Update SPARR Driver to Allow Event to be Changed to "Unresolved".
- FP 2676 – For CFX compatibility with externally-generated DMS Messaging with Color Images. They have external software that creates travel time messages for those. Their graphic location is different than what SunGuide expects so this allows the message to go through to the sign. If you want to know more about the footprint issues that were resolved, go to website for details: www.sunguidesoftware.com/releases/release-6-0-p3. Within Patch 3, the item we voted on last meeting Closed vs. Blocked – Footprint 2579 was implemented. One thing to note is Kelly Kinney with FTE updated the Footprint and commented regarding the text that is being used for

the emails and possibly the sign. We are going to update it based on her Footprint comment. Basically, it says Closed or Blocked but doesn't say what is being blocked or closed. For Release 6.1, we had the FAT in San Antonio the week of September 22. There are some enhancements we want to see and SwRI is working on those. There were some minor issues found and SwRI was able to fix and retest them before we left San Antonio. We are currently working on preparation for the IV&V which will be later in October and early November. We expect to release version 6.1 by the end of the calendar year. The next section, the changes impacting other systems, the C2C change is in the additional information for streaming video we put in so another District or SEOC could easily pull up streaming information for cameras and view the video at their site. They wouldn't have control of anything but could view the video. Also, permissions have changed with this version. D. Vollmer asked T. Brown with SwRI to explain the permissions changes and who would be affected. T. Brown explained that the way SunGuide use to check permissions was every subsystem would go to the database and retrieve permissions per user based on whatever subsystem it was. In the unification with the TxDOT project, they have a subsystem that was responsible for all permissions. So now the one subset subsystem which is SAA is going to be in charge of all permissions. Instead of a subsystem going to the database retrieving its own permissions, it is now going to ask SAA to give permission for the user. You still get updates in real time when you change permissions but now only one system is responsible for going to the database and messing with permissions as opposed to every subsystem. One of the things that SAA will also bring is the ability to pass out those updates in a much easier way. When we updated permissions before, we had to update each individual subsystem and now the SAA will pass out the updates as needed. This will not affect you if you are connecting to SunGuide from third-party software. If you are pushing permission directly into the database and reading permissions from the database, the structure of the permissions has changed and it will affect you in that regard. D. Vollmer thanked T. Brown for the explanation and mentioned he is working on a document about the change to distribute to everyone. D. Vollmer continued presenting the SunGuide slides. For Release 6.1, the installation process will be easier and simplified. Some of the small enhancements included in 6.1 are items that were voted on about a year ago. Between Patch 3 and Release 6.1 almost all of the voted items will have been implemented. Small enhancements included in Release 6.1: Response Plan Status (FP 2511, 2525) which gives you an easier way to determine that a response plan has been activated. Response Plan Terminate on Close (FP 1769) – If you try to close a response plan and a response plan is active, it will ask you if you want to terminate it or not via a pop-up window. Re-Publish Event Dialog Filtering (FP 2314) – Filtering has been done so only the active events will show in that list. SAS Response Plan Scheduling – Allows you to schedule response plans from SAS. Login/Subsystem Dialog Integration in WPF – It was moved out of IE and has been incorporated into the map. Video on Desktop and C2C – This is so the streams associated with streaming video are passed through C2C so that another District or SEOC can view video externally. Additionally, we are going to have full implementation of DMS groups in 6.1. Brian Ritchson has been working very hard on the Waze implementation. Some of the improvements that were made: We now track all the confidence values for each event. Something to note here is when we first started receiving the Waze feed they had a tag in there called report rating and they didn't have a specific tag that called out confidence. We initially implemented our filtering based on the report rating. Since then, they have added a tag to their feed for a confidence value for each of the events. When an event first comes in, it comes in with a confidence value of zero. It's when other users note seeing an event that the

confidence value goes up. The interesting thing about that is if you look at how long it takes for an event to come in and go from zero to 1 is an average of 15 minutes. If you go from a 1 to a 2 it's a 20 to 30 minute time lapse. Filtering based on this confidence value is going to be tricky since we don't want to wait 30 to 40 minutes after an event has been put into Waze to receive it in the TMC. R. Burke in D7 noted that by the time an event shows on Waze they already have it on their TMC except for 1 in 10 events for District 7. D. Vollmer continued that we are currently filtering on the report rating and only including events with a report rating of 4 or 5 which filters out a lot of events. If we cut that down or if we decide that the report rating isn't the appropriate value to filter on because there is not a correlation with a person's report rating and the likelihood that event will go up in confidence value, we would be receiving a lot of events. Right now we are going to leave it at 4 and 5 then we can have a discussion on whether we need to filter out other things. One of the events we get a lot is "Vehicle Stopped on Shoulder". Maybe this would be a good candidate to look at this event and add the additional filter of only accepting a confidence value of 1 for that type of event. That additional filter would filter out a lot of events and a 15 minute delay may be okay for those types of events. B. Ritchson noted 70 to 80 percent of events would be filtered out using the additional filter. These improvements have not been implemented statewide. Everyone is still using the original version of the application. Until we decide how we want to filter events, we won't be pushing this update out to everyone. D. Vollmer continued discussing the issues related to determine what to filter out of the Waze data. Crowd source data doesn't seem to have patterns like other data but we don't want to open up the floodgates on all events coming into the Districts. Some of the other improvements include a bug that prevented confidence value from being passed through the data feed that was fixed. C2C events are now deleted after being closed for 30 minutes. For the purposes of filtering, an alert's confidence rating is equal to the highest recorded confidence during its lifetime. So if we set the filter confidence rating at 2, an event is at a 2 and it drops to a 1 then we would still include it. Improvements have been made on filtering of road type, event type, and confidence rating.

RITIS Update

D. Vollmer presented slides on the RITIS update. To explain first what happened with the contract, when the task work orders were written, we were supplied about \$206,000 in operating budget to cover the cost of the task work orders. The amount we received we anticipated we'd be able to use it for a year but operating budget doesn't work that way. You can't use operating budget past the end of the fiscal year they were obtained in. Something happened where the operating budget we were expecting for the following fiscal year didn't show up. When we noticed that we had to issue a stop work order on the RITIS contract that included both task orders (the support task order and the enhancements task order.) Since then, thanks to Gene Glotzbach's efforts on this, we were able to obtain work program budget to use for the remaining of the contract. Work program budget doesn't end at the end of the fiscal year so this should not be an issue anymore. We received and encumbered the funds on September 30th. The RITIS team at UMD has resumed working on our issues. We had a meeting with them a few days ago to touch base again. The enhancements to get the HERE and probe data into RITIS is delayed. We asked UMD to provide us with an updated schedule. We will distribute the updated enhancement schedule when we receive it from RITIS to all the Districts. We currently have an issue with RITIS when transitioning from SunGuide 5.1.1 to version 6.0 the detector IDs change. For example you will have two detectors at a location in RITIS, one would

be the old detector from SunGuide 5.1.1 and the one from the new version right on top of it with a new detector ID. The new ID would contain the data from when you transitioned to 6.0 forward. This is the highest priority issue we have RITIS working on right now. I know in District 7 it is affecting their quarterly and annual reports. It's affecting people in District 1 and the Planning Office in addition to other people. When we met with UMD yesterday, we made sure they understood this is the highest priority issue. They will be merging the two detectors into one detector so all the data can be accessed from one detector. A high priority item resolved in RITIS is the detector organization that was being caused by an RTMC folder. The folder was removed from the hierarchy so you could select a continuous roadway segment which resolved the issue. There were also missing roadways in the Event Query Tool which was resolved with UMD added roadways to the menu. The large gap in VPP Suite for SR-821 has been resolved. There is an issue with zone volume not equaling sum of lanes volume. We had a meeting with the Planning Office since they were initially involved in the filtering for the zone volume. The zones and lanes will no longer have data filtered out and will show a quality check indicator if the data doesn't meet the quality check. UMD will be making those changes soon. If you have issues with the RITIS system, send the issues with detailed information to:

Derek.Vollmer@dot.state.fl.us, Clay.Packard@dot.state.fl.us, and Kelli.Moser@dot.state.fl.us.

D. Vollmer asked if there were any questions on the update. E. Gordon with FTE asked how extensive the HERE data would be available in RITIS and if it was limited access roadways or the whole state. D. Vollmer responded that it would include all the data HERE is providing us statewide which is extensive including about 25,000 TMC codes so it wouldn't be just limited access it would include arterials as well.

Response Plan Enhancements (vote)

C. Packard presented slides on the Response Plan Enhancement which is a voting item. District 5 wants to use a slightly different message format for construction messages than other event types. All the other events are non-vehicle alert events. They use a tag for the event type. District 5 wants to use a different word for the event type within their message and are interested specifically construction. The easiest way to accommodate that need in the software is to open it up for other event types so each event type can have its own template. We presented this to the SSUG and we agreed to have a different template per event type. We did a poll and Districts 2, 3 and 5 were in favor of it and 4, 6 and 7 were ok with it. District 1 didn't have a need for it but weren't opposed to it. C. Packard showed the congestion response plan messages slides addressing Footprint 2228. This was followed by voting.

Voting results: D1-yes; D2-yes; D3-absent; D4-yes; D5-yes; D6-yes; D7-yes; FTE-yes; MDX-yes.

DMS GUI Force Capital Letters (FP 2650) (vote)

C. Packard presented slides on the Footprint 650 DMS GUI Force Capital Letters issue, which is a voting item. The request came in from District 5 to remove the ability to disable force caps. There is a checkbox that allows you to disable force caps and the request is to remove that ability. Multi-text mode would still allow you to change the capitalization if needed. J. Reichert for District 2 commented he was concerned about removing the ability to use all upper and lower capitalization. Action messages were all caps and destination messages were mixed case. T. Brown from SwRI mentioned it is configurable to force caps or not by changing the config file. The box will be grayed out if it is set to always force caps but will be available on a per operator basis if it is not configured to always force caps. This was followed by voting on the item “as described”.

Voting results: D1-yes; D2-yes; D3-absent; D4-yes; D5-yes; D6-yes; D7-yes; FTE-yes; MDX-yes.

DMS Force Blank Status on Failure (FP 955) (vote)

C. Packard presented slides on the Footprint 955 DMS Force Blank Status on Failure issue, which is a voting item. J. Summerfield in District 2 commented it would be more useful to have it configurable in SunGuide instead of just FL-ATIS. He liked the system override option for emergency situations. E. Gordon from FTE asked when communication is restored is there an issue that is going to happen with respect to this change. C. Packard responded when communication was restored with the sign, SunGuide would set the device to active and attempt to resend whatever is at the top of MAS queue. This was followed by voting.

Voting results: D1-yes; D2-yes; D3-absent; D4-yes; D5-yes; D6-yes; D7-yes; FTE-yes; MDX-yes.

Auto-Dismiss Already Detected Alerts (FP 2845) (vote)

C. Packard presented slides on the Footprint 2845 Auto-Dismiss Already Detected Alerts issue, which is a voting item. This will minimize the number of alerts the operator has to deal with by automatically dismissing them. The alerts will still be associated with the event but will be silently dismissed automatically. C. Packard asked if the Districts were currently using the TSS alerts now and if you aren't using it would they use it after this enhancement. E. Gordon with FTE mentioned they use them and thinks this would be helpful during rush hour with the TMC is overwhelmed. Feedback was received from most of the Districts regarding this issue. J. Summerfield in District 2 suggested looking into only dismissing upstream adjacent alerts and associating them to the active event. T. Brown from SwRI said he would look into it to see if it is feasible. This was followed by voting on the item as presented (including upstream and downstream links) with a possible vote in the future for the change (upstream only.)

Voting results: D1-no; D2-yes; D3-absent; D4-yes; D5-yes; D6-yes; D7-yes; FTE-yes; MDX-yes.

Statewide ITS Architecture Update

D. Vollmer presented slides on the Statewide ITS Architecture Update. Districts 2 and 3 decided to start their update in April 2015 and Districts 4 and 6 will start their update in July 2015. J.

Rodriguez in District 6 asked if FTE would attend all of the workshops. D. Vollmer responded FTE will have their own workshop and are a stakeholder in several of the Districts so they will likely be interviewed for the other District updates and they could attend the other workshops if they wanted. They would not necessarily need to travel to the other workshops.

Arterial Probe Data Algorithm Con Ops (vote)

D. Vollmer presented slides on the Arterial Probe Data Algorithm Con Ops which is a voting item. This would allow Bluetooth readers to communicate directly with SunGuide without needing a third party. This was followed by voting.

Voting results: D1-yes; D2-yes; D3-absent; D4-yes; D5-yes; D6-yes; D7-yes; FTE-yes; MDX-yes.

Open Discussion

D. Vollmer opened the floor for open discussion. D. Vollmer asked if J. Dilmore in District 5 wanted to discuss their Bluetooth deployment. J. Dilmore in District 5 explained they have a District project Phase I that supports the ultimate I-4 Project. It takes 22 miles of interstate through the center of Orlando and turning it into a parking lot. We were looking at using the Bluetooth devices and the deployment criteria established by University of Perdue in order to instrument our arterials. We looked at where we have the most delay with traffic signals and where they would be critical. Our designers will do queue counts to ensure our Bluetooth readers are outside of those areas. We are using existing infrastructure for the most part which has been inexpensive. We are able to get granular information on a signal by signal basis. We are looking at going with operations contracts instead of OM contracts. The information provided by the Bluetooth readers would help with signal retiming. Local agencies are looking at deploying Iteris and some have already deployed BlueTOAD. We plan on having a variety of vendors and combine the information using SunGuide and FL-ATIS. We estimate that our total deployment of Bluetooth over the next three years will be over 400 devices through Ocala, Orlando, Volusia and Brevard. When we looked at the licensing cost, the subsystem would pay for itself. This will give us granular information.

J. Dilmore in District 5 expressed a need for a data management plan moving forward. There are companies that help with managing the data and the third party agreements. D. Vollmer asked J. Dilmore in District 5 if they were giving data to the local agencies or if the local agencies were giving the data to District 5. J. Dilmore responded that District 5 grants rights to local agencies to get data and CCTV feeds. It's in our interest to gather information and provide it back to the public. District 5 doesn't have access to the local agency data.

Review Action Items

- **CO to send updated RITIS enhancement schedule to everyone when received from UMD.**
- **CO to investigate D2 proposal regarding Alert Auto-Dismiss only dismissing upstream events.**

Meeting adjourned at 4:10 p.m.