

List of Acronyms

CAD.....	Computer-Aided Dispatch
CMB.....	Change Management Board
CO.....	Central Office
ConOps.....	Concept of Operations
DMS.....	Dynamic Message Sign
FDLE.....	Florida Department of Law Enforcement
FDOT.....	Florida Department of Transportation
FHP.....	Florida Highway Patrol
GUI.....	Graphical User Interface
ITS.....	Intelligent Transportation Systems
MDX.....	Miami-Dade Expressway Authority
OIS.....	Office of Information Systems
RPG.....	Response Plan Generator
RTMC.....	Regional Transportation Management Center
SITSA.....	Statewide ITS Architecture
SOV.....	Speed Occupancy Volume
SSUG.....	SunGuide Software Users Group
SUM.....	SunGuide Users Manual
SwRI.....	Southwest Research Institute
TERL.....	Traffic Engineering Research Laboratory
TIM.....	Traffic Incident Management
TMC.....	Transportation Management Center
TSS.....	Traffic Sensor Subsystem
TvT.....	Travel Time

Florida Department of Transportation

CHANGE MANAGEMENT BOARD MEETING NOTES

Wednesday, April 8, 2009
1:30 P.M. to 3:15 P.M.

Rhyne Building, Room 330
Tallahassee, Florida

Attendees:

Chris Birosak, FDOT D1	Pete Vega, FDOT D2	Kevin Jackson, FDOT D2
Wesley Adams, FDOT D3	Dong Chen, FDOT D4	Michael W. Smith, FDOT D5
Jennifer Heller, FDOT D5	Manuel Fontan, FDOT D6	Bill Wilshire, FDOT D7
Terry Hensley, FDOT D7	Eric Gordin, FDOT TPE	Gene Glotzbach, FDOT CO
Arun Krishnamurthy, FDOT CO	Wayne Bryan, City-Tallahassee	Penny Kamish, Smartroute
Jason Summerfield, Smartroute	Dee McTague, DMJM Harris	Mark Laird, DMJM Harris
Frank Deasy, Telvent	Steve Dellenback, SwRI	Robert Heller, SwRI
Clay Packard, PBS&J	Khue Ngo, PBS&J	TJ Hapney, PBS&J
Paul Watson, PBS&J	David Chang, PBS&J	John Hope, PBS&J

Purpose

The purpose of this meeting was to review and vote for SunGuide® Software issues and requirements, and review footprints issues.

Welcome and Call for Quorum

Change Management Board (CMB) Chairman Pete Vega opened the meeting at 1:38 p.m. A quorum was established. He briefly introduced the objectives of the meeting then recapped the previous meeting's action items.

New Member Introduction

Arun Krishnamurthy – CO, Dong Chen – D4, and Wayne Bryan – City of Tallahassee were introduced to the CMB members.

Action Items Recap

1. *Slide 28, 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.* David Chang stated that the Ocala / Marion County architecture had been voted on will be updated; however it has not been added to ConSysTec Web site.
2. *Slide 34, Footprint 222: SwRI will provide ROM for updating the naming convention drop-down display to Trey Tillander.* R. Heller stated that this would be part of the RPG

- enhancement, due to removing restrictions on name lengths. He also stated that the ConOps was in development and was being worked on by some of the same people as were working on the FAT. He added that a week from April 13 SwRI personnel would be able to work on the ConOps. A. Krishnamurthy added that the Release 4.2 FAT would be held next week.
3. *Slide 34, Footprint 222: Jennifer Heller will coordinate with the SSUG regarding the naming convention.* D. Chang stated that this would be handled through RPG. June is next SSUG meeting and it was decided that the SSUG meeting dates would be provided to D. Chang in the future for announcement.
 4. *Slide 35, SunGuide Installation Documentation: SwRI will provide LOE/ROM to Trey Tillander for a Generic Installation Guideline and for a Web-based FAQ separately. Did not do due to questions that need to be discussed with CO.* D. Chang – low priority. No cost estimate received. R. Heller – cannot generate cost estimate without response from CO. Will forward email to Arun.
 5. *J. Hope will check the requirement CA005A1 XML comment field and add “lane blockage” to the requirement language. This item will be covered in the ConOps.* D. Chang stated that the requirement update would be up for voting after the action items recap.
 6. *SwRI will provide Scope, Requirements and ROM to Trey regarding EIS new device.* When SwRI generates info, will update FDOT regarding EIS. R. Heller stated that he thought SwRI made most of the modifications to make this work with SunGuide. The one instance that you cannot use it is to have one device covering lanes in multiple directions, which would require changes to TSS subsystem. Other changes have been made, but maybe some minor protocol changes. Jason Summerfield stated that District 2 had detectors working this way.
 7. *Pete Vega will coordinate the Oracle RAC license and Win. 2008 Environment issues in the future.* R. Heller stated that some slides that would be shown today would address at least one of the options.
 8. *SwRI to provide “Map Technology Whitepaper” to Trey and present in next CMB.* SwRI going to present possible replacement for Oracle (SQL). S. Dellenback to update today;
 9. *District to provide review comments of FHP event notifier and send comments to David Chang by COB 2/20/09.* Complete. FHP/CAD system is currently down and not updating events. Old events still in CAD.
 10. *Pete will discuss w/ Eddie Grant and cc David Ashton, Roger Strain regarding the FHP requirements of CA005A3, CA005A4 for SSUG input. Eddy Grant will present/address the issue at the upcoming SunGuide User Group meeting.* J. Heller will check on this item.
 11. *Pete will discuss alert types with E. Birriel regarding the Silver Alert and present in next ITS WGM. This will be coordinated through M. Fontan.* P. Vega – resent EB examples on April 7, 2009.
 12. *Trey Tillander and Terry Hensley will work out the schedule and location for the Release 4.2 RR / AVL FAT.* Complete.

FHP CAD – Requirements: SG req. CA005A1 (Vote)

D1 - yes
D2 - yes
D3 - yes
D4 - yes
D5 - yes
D6 - yes
D7 - yes
TPE - yes
CoT - yes
MDX – not present
CO – yes

SunGuide Message on the DMS: Accident, Incident and Crash - D. Chang

Discussion took place regarding the use of accident, incident and crash on dynamic message signs (DMS). This topic has been discussed since the September 2008 CMB Meeting. Previously, CMB members voted to use crash on DMS.

Voting to remove incident from the Response Plan Generator (RPG) and replace it with crash was discussed. T. Hensley stated that one or two people used incident when it was a crash and suggested making crash the default setting, instead of incident. He added that through the response plan it still comes up as incident. The Turnpike Enterprise wanted to be able to use incident for generic event types other than crashes, when it applies.

D. Chang stated that the original discussion was because the official FDOT and FHP term is crash. District 6 asked if we used crash. M. Fontan pointed out that when Debora Rivera requested it, she wanted to see crash on DMS, text and 511 and added that when the CMB voted to change to crash it was the understanding of the CMB that ATIS would be changed from accident to crash as well.

If the user creates a template with tag, event type, and the type was a crash, it comes up as an incident. Instead it should come up with crash. A process was put together to change incident to crash everywhere. D. Rivera asked M. Fontan where he was seeing that and added that when a response plan is generated that it reads incident, not crash.

Footprint was submitted – Mark Laird – SwRI response was that this was the way FDOT wanted it – FP # 1065 (Action Item)

The original issue was accident versus crash. C. Birosak added that the question now was incident versus crash and that there were other event types that are not crashes. We want the term accident to be stricken from everything published and then have ability to make it an incident if it was not a crash. Somewhere it is defaulting to incident, instead of crash. FP 427 with regard to 1065 per R. Heller: Mark Laird stated that crash shows up in email and 511, but not on DMS. R. Heller stated that SwRI was told by the FDOT CO that this would be resolved through the RPG. Arun will coordinate with District 6 and SwRI and will send email update.

SunGuide Software Footprints Issues Review – R. Heller

R. Heller gave the Footprints Issues update as of March 27, 2009 and reviewed slides regarding issues and their status in relation to slides 16 – 22.

FP# 1123 DMS Sequences – R. Heller

This Footprint was submitted by District 2. This was legacy TxDOT code and was mostly to prevent operator errors. With the introduction of message priorities, MAS, multiple messages were competing for resources. There were multiple emails between SwRI, District 2 and TERL. What was found that if you had two sequences that were both checked as “continue until terminated” and tried to open a second sequence, the second sequence was prohibited. If you activated the first sequence and then did a second one, it would give an error message which was shown on slide 24. Mr. Heller stated that with 1123 hoping to eliminate conflict checking and that he believed this could be done with minor code change. SwRI will take the conflict checking out and test (about a day’s work). Can manage what is being displayed with priorities and could have default running in background with MAS to manage queues.

D. Chang brought up that T. Tillander was actually still working on this issue from TERL and suggested that the item be left open for now to wait for the TERL recommendation. Before reaching a decision, Arun and Trey should be given time to recommend a course of action.

Footprints to Verify – R. Heller

Large number of footprints issues that are not closed but are awaiting release. R. Heller stated that issues that are awaiting release are not closed, but instead are marked as awaiting release. SwRI then waits for original enterer of the Footprint issue to acknowledge solution and remove the issue from list (make closed). He added that SwRI needed some help getting some of the old issues to be checked by Districts to verify that code fix did fix the issue. Arun stated that SwRI submitted the list to the CO and that the CO agrees that it is the responsibility of the submitter to update status and respond to the Footprint fix.

P. Vega asked if that was the process the Central Office wanted Districts to follow for future and current Footprint issues. Arun Krishnamurthy replied that it was and that once a release has been provided to the Districts and it is confirmed that problem no longer exists, then the District is to update the FP status. He stated that he would send out an email regarding update of Footprint issues by Districts when resolved.

Microsoft SQL Server Compatibility – R. Heller

Stored procedure in Oracle is typically a small bit of code written in PL-SQL and database. The PLSQL in SunGuide is largely concentrated in event management, report generation and report auditing. Typically PLSQL procedures can have sub-procedures with the sequences that are defined in SG, it’s pretty clear you could use SQL server identity columns. Propose to eliminate stored procedures and propose the conversion of those stored procedures to C#. Found some multi-threading issues in those stored procedures and found some situations of the stored procedures in separate threads killing each other. Have found some multi-threading. This does slow down EM because now you only have a single thread and sometimes those take low single digit time amounts to complete.

Oracle license cost is large part of COTS budget. \$25,000 / year in annual license costs is too high and too much for a city or county to absorb. Microsoft SQL server has multiple editions, multiple license options, one of which is the standard edition where the user pays per processor. Typically a single processor with a single license is approximately \$3,000 to \$5,000. Microsoft issues security patches on a regular basis. SunGuide is built on top of Oracle because that was what was required by FDOT in the original procurement documents. P. Vega stated that the cost difference was about one-third of the cost of Oracle and suggested that the CO should check on Management SQL to clear it with Tallahassee OIS. A. Krishnamurthy requested a White Paper from SwRI regarding whether SQL can handle all of that.

R. Heller stated that SwRI currently supported a Texas system named Lonestar when using SQL or Oracle. T. Hensley asked SwRI to ensure that the White Paper would be understood by non-software people.

Replacement of SunGuide Map - S. Dellenback

Steve Dellenback went over the reasons for needing a replacement map for SunGuide. He stated that AdobeFlash has taken over and SVG has taken a nosedive. Adobe now is end of license and SVG needs to be replaced.

TeleAtlas data was used as a map source and updates were provided to SwRI as they were released. FDOT decided not to extend license so there will be no further updates. It is SwRI understands that TeleAtlas data can be used, but in the long run the maps will not be there.

SwRI recommended Microsoft Virtual Earth Server and stated that the bottom line was that there is no cost difference in implementing with SunGuide, but Virtual Earth Server is the most cost effective choice. No control of colors or map content. T. Hensley inquired if there was a color conflict, and whether the operators could change SunGuide overlay colors. S. Dellenback stated that SwRI was not rendering the map, but that SunGuide could change overlay colors.

S. Dellenback reviewed the proposed map features and which features would be gained or lost moving to Virtual Earth rather than TeleAtlas maps. SwRI cannot render ITS equipment on satellite view, bird's eye view or 2D/3D view without significant cost increases. Only the overhead view could be used to be cost effective. S. Dellenback suggested that it would be interesting to find out how many people change icon colors and suggested that FDOT may want to consider if they wanted to pay for these features.

SWRI suggests that they could refine the map requirements for \$8.262, and implement it for \$146,732. SwRI also suggested keeping current SVG map for backup so there would still be a map in case of internet connectivity loss.

Discussion took place regarding various features of the map as well as the possibility of replacement. A. Krishnamurthy stated that he would forward the White Paper from SwRI to Districts. S. Dellenback added that whether the FDOT chose to use Google or Microsoft that it would be nominal charges to change in SunGuide. Arun added that FDOT may get another GIS vendor to provide map data and that it would be a good idea to hold off for a couple months and see what the FDOT decides.

Discussion took place regarding the City of Tallahassee being a voting member and it was cleared up that Tallahassee is voted on by District 3 as the City of Tallahassee is the RTMC for District 3.

Meeting adjourned at 3: 15 p.m.

Action Items

- District 5 (Mike Smith) to provide detail of the update regarding Ocala/Marion County ITS Architecture to Trey (previous meeting's action item)
- Robert Heller to forward emails to Arun that SwRI asked Central Office questions about level of detail for Generic Installation Guideline document.
- Jennifer Heller to follow up with Eddy Grant on previous CMB Action Item #10 about SunGuide FHP requirement IDs: CA005A3 and CA005A4
- SwRI to investigate the "crash" terminology used in SunGuide. Mark Laird has submitted FP #1065 on this.
- Central Office (Arun Krishnamurthy) to discuss with District 6 and SwRI to make decision on the "crash" versus "incident" issue.
- TERL (Trey Tillander) to provide recommendation on the SwRI's proposed solution to eliminate the conflict on DMS sequences (Footprint # 1123)
- Central Office to send out a procedure for Districts to confirm their Footprints issues have been resolved.
- Central Office to investigate Microsoft SQL server license with FDOT
- SwRI to provide a whitepaper on the use of Microsoft SQL server with SunGuide on the stored procedures
- Central Office to find out what map FHP is using.
- SwRI (Robert Heller) to find out if Microsoft map has county's line distinction.