

Meeting Notes

Change Management Board

March 21, 2023 – 1:00 p.m. – 4:00 p.m.

Version 0.1



Prepared for:
Florida Department of Transportation
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Transportation Systems Management and Operations Program
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List of Acronyms and Abbreviations

C2C	Center-to-Center
CCTV	Closed Circuit Television Camera
CFX	Central Florida Expressway Authority
CMB.....	Change Management Board
CO	Central Office
ConOps.....	Concept of Operations
D(number).....	FDOT District (number)
DMS.....	Dynamic Message Sign
DTOE.....	District Traffic Operations Engineer
EM	Event Management
FDLE	Florida Department of Law Enforcement
FDOT.....	Florida Department of Transportation
FHP	Florida Highway Patrol
FTE.....	Florida’s Turnpike Enterprise
ITS.....	Intelligent Transportation Systems
MDX.....	Miami-Dade Expressway Authority
NTCIP	National Transportation Communications for ITS (Intelligent Transportation Systems) Protocol
NWS	National Weather Service
R(x.x).....	Release (x.x)
RR	Road Ranger
RISC.....	Rapid Incident Scene Clearance
RTMC	Regional Transportation Management Center
SAS	Scheduled Actions System
SG	SunGuide® Software
SSUG	SunGuide® Software Users Group
SwRI.....	Southwest Research Institute®
TPAS	Truck Parking Availability System
TERL	Traffic Engineering Research Laboratory

TIM Traffic Incident Management
TMC..... Transportation Management Center
TSM&O Transportation Systems Management and Operations
WWD Wrong Way Driver

**Florida Department of Transportation
CHANGE MANAGEMENT BOARD MEETING NOTES
March 21, 2023
1:00 p.m. – 4:00 p.m.
Microsoft Teams Meeting**

Attendees:

Robbie Brown, D1	Gary Rutledge, D5	?, MDX
Aven Morgan, D1	John Hope, D5/CFX	Christine Shafik, CO
Ray Mikol, D1	Tricia Ballard, D5	Mark Dunthorn, CO
Robert Lacy, D2	Kyle Higgins, D5	Carla Holmes, CO
Peter Vega, D2	Lauren Pearson, D5	Nigel O’Rear, CO
Jason Evans, D2	Mark Laird, D6	Alba Murillo, CO
Dee Dee Crews, D2	Javier Rodriguez, D6	Alex Brum, CO
Amy DiRusso, D3	Yamilet Diaz, D6	Tucker Brown, SwRI
Robert Briscoe, D3	Mike Crawson, D7	A.J. Skillern, SwRI
Kevin Mehaffy, D3	Megan Arasteh, D7	
Greg Reynolds, D3	Eric Gordin, FTE	
Dee McTague, D4	Kelley Kinney, FTE	
Neena Soans, D4	Cherie Phillips, FTE	
Nicole Forest, D4	Brent Poole, CFX	

Welcome and Call for Quorum

Change Management Board (CMB) Chairman Amy DiRusso opened the meeting and conducted Roll Call
See attendance roster above.

Advised that District 4 Voting Members were not present, but that they have already submitted their votes. She asked that any updates to the current list of Voting Members or Alternates be provided to her by the end of the meeting. It was noted in the Teams Chat that Mark Nallick, D3, and Tushar Patel, D5 will need to be replaced.

Previous Meeting Action Items

Christine Shafik reviewed the action items from the previous meeting:

- Done. Updated District 6 Alternate to Yamilet Diaz. Christine congratulated Yamilet on her new position and welcome her to the CMB.

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- Updated information on SG-6458 - License Plate Match Pop-Up to indicate that no license plate recognition technology is being used. Done, but not yet published. Language has been updated per request.
- Done. Sent out email regarding Districts' interest in RITIS Training. Great feedback from Districts who have already gone through the training. Look forward to hearing how it goes for the districts who have not had the training yet.

CMB Chairman Nominations

Amy advised that this is her last meeting as CMB Chairman. She was nominated at the April 27, 2021 CMB Meeting and began serving at the July 20, 2021 CMB Meeting. Her 2-year term expires at the end of today's meeting. She went over the list of previous CMB Chairmen. Since D1 or D7 have not had a member serve as Chairman previously, would like to have nominations for Chairman from either of those Districts. She advised that Central Office provides a lot of support to the position. Nominations were opened and voting will be conducted at the end of the meeting.

Pete Vega nominated Megan Arasteh, D7 and Steven Davis, D1.

Christine thanked Amy for her service over the last two years. She reiterated that Central Office would support the new Chairman and the Amy will still be a part of the CMB.

Amy advised that if anyone has any more nominations to please make them at the end of the meeting, at which time voting will take place.

SunGuide Software Update

Christine Shafik: I'm going to go over the SunGuide software update really quick. So, as you all know, we released 8.2 and Hot Fix 1 for 8.2 back in December 2022, and we are currently working on Hot Fix 2 for Release 8.2. We have been in the process of testing it back and forth between TERL and SwRI. We're very close, though. Hotfix 2 will cover almost 40 issues between new enhancements and bug fixes. A couple of the enhancements are on the screen – these are the major ones, or the most hot topic ones that are of interest. And these are the bug fixes. Some of them are the beacon communications, RWIS station communications, response plans, and improved performance for VOD. Those are going to be included in hotfix too. We are also in parallel working on Hot Fix 3. We held the design review early this month. And it will contain several enhancements. One of them will be the TPAS Generic Interface, and other interesting voted on enhancements as well. Some of them are on the screen, but not all of them, though. Any questions or comments?

Amy DiRusso: Okay. Hearing none, next slide, please.

Enhancement #1: SG-6384

Tucker Brown: All right. I guess it's my turn. Going through the enhancements for voting - Enhancement #1 is adding a roadway filter to a particular report. So right now, in the Quarterly Incident Duration Full Detail Report, you can select the date and county. This will add the roadway to that, as well. We've done this before in other reports to be able to just run it on a roadway, or run it on a roadway, date, and county. So, it'll basically just give you more options in trying to do the Quarterly Incident Duration, just this particular report.

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The estimate is \$4K on that one - pretty small. That was a pretty quick one. I thought I'd start it off with something fairly easy, so any questions or comments on that one? Questions or comments?

Amy DiRusso: We can go ahead for the vote.

John Hope: Do we have a representative from D4?

Amy DiRusso: We do not, but I know their voting status.

Pete Vega: I think Nicole is on.

Amy DiRusso: Yeah. Did they tell you their votes?

Nicole Forest: Yes. I have them. I just didn't know if I was supposed to do it since they submitted them to you guys.

Pete Vega: Yes, Nicole. Go for it.

Nicole Forest: Thanks, Pete.

Sam Taylor: Tucker, this is Sam Taylor with District 7. I'm not sure if we did the roll call already. I'm just getting back from a trip. So, here to represent District 7 for any answers.

Tucker Brown: That's good. Thank you.

Sam Taylor: Yes, Sir.

John Hope: Did I hear that somebody was going to vote for D4.

Pete Vega: I think Nicole is doing it for them.

Nicole Forest: I am.

John Hope: Currently, everybody's votes and except for D4. If you can vote online, I'd appreciate it.

Nicole Forest: OK, let me know if it worked.

John Hope: OK, all votes are in: We have 11 Yes. 0 No. And 0 No Preference. So, item Number 1 passes.

Enhancement #2: SG-5877 - DMS Font Management

Tucker Brown: Moving on the next one, this one has to do with DMS Font management. So, right now when you have a font on a sign and you have a sign that is auto font managed and you go to either change the font, maybe change the default, maybe pick some new fonts that might be associated with that sign, it is necessary to go basically rerun the auto configuration and sync up both the DMS with the configuration that's set in SunGuide. And you may have changes that are different from the sign, or things like that that you can verify and say yes, this is what I want. Essentially, we plan to eliminate that step entirely - that reverification once you've actually picked a font, anything like that. It will handle all that on the back end. And so, the changes would be more seamless to the end user to basically say, when I make a change in SunGuide, just make it work with the sign and sync it up, sync the configuration in SunGuide up with it, and let me start using the sign immediately without running that verify. It'll basically just make the configuration of signs easier. That will change some of the workflow in the user

interface, not really to the user standpoint, just on the back end, but also in the DMS side as well to the sign.

Estimate on that \$11K. Any questions or comments on that?

John Hope: All votes are in. We have 11 Yeses, 0 Nos, and 0 No Preference. Enhancement 2 passes.

Enhancement #3: SG-6555 - Select Predefined Plan for FDLE Alert Types

Tucker Brown: All right, Enhancement 3 is about predefined plans and the FDLE alert types. So, previously you had a behavior in the predefined plans where you could associate a particular event type with those predefined plans so that they would show up when you go to suggest a response plan. You would have these suggested response plans and any other predefined plans that match the criteria for the event. When we changed to an FDLE alert as the single event type for Blue, AMBER, Silver, Purple, all those different alert types, essentially those were removed from the predefined plan, so they no longer pop up as part of a suggested predefined plan based on that. The enhancement here was to basically allow attributes to be associated to predefined response plans to take the place where that event type used to. We're going to make it generic enough for any attribute could be associated to a response plan, not just the ones for FDLE alerts. And then when you attach these attributes to the predefined plans, if your event matches any criteria that you set forth in your predefined plan, it becomes one of the suggested predefined plans that you can select. This would kind of replace the behavior that you had before and would also allow you to take something like a Silver alert and have a predefined plan that would go up with that and be automatically suggested. This would be optional, so if you don't have anything like that, if you put no attributes on your predefined plans, you're going to get the same behavior you have now. So, this would be fully configurable.

Estimate on this one is \$14K. Any questions or comments?

Amy DiRusso: Not hearing any questions, we can proceed to the vote.

John Hope: All votes are in. We have 10 Yeses, 0 Nos, and 1 No Preference. Enhancement 3 passes.

Enhancement #4: SG-5423 - Night Mode

Tucker Brown: All right, this one is about Night Mode, which is a theme in SunGuide. So, right now we don't have a theme in SunGuide. There's only a single color scheme, which is that light blue background. You see the grids, the elements, everything are tied to essentially a single style, a single look. There really is no back-end styling at all. It's really just this is what SunGuide looks like. In general, the request here is for a night mode theme, which is essentially create both a night mode theme and a day mode theme that's going to change the color set of the dialogs, the elements in them, the text colors. And we would also make this to where essentially the users can select to be in night mode, or to stay in the day mode. They would also be able to schedule a time. So, maybe you're - it'd be a user settable thing where you could say, hey at 8:00 o'clock if I'm logged in the system, I want to automatically transition to a dark mode. And then maybe 8:00 o'clock in the morning I transitioned back to a light mode. So, either, well, both options would be available to either user selectable or some kind of defined time tied to that single user.

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The other thing that we would need to do here would be to create a dark themed tile set. So right now, the tiles are essentially just images in the background that are being loaded dynamically. So, we would have to create a whole new statewide tile set with different coloration. So, when we move to this one, you essentially tell it what tile set is for your light mode, and which one is your night mode or day mode, whatever you want to call them. But essentially, turning everything here into a theme and then being able to switch between them either manually or on a schedule.

So, just a quick kind of view of what the Windows light mode / dark mode looks like. Left is kind of what we have now. White backgrounds, white elements, things like that. Dark Mode would have something that would probably mostly have black backgrounds. White lettering probably would show up pretty significantly. When you select stuff, you would have colors that would show up as essentially non-white colors. But essentially different ways to do that. Right now, there is no thought of really a customization per user about what colors might show up. It would probably set at a system level. That's something we might be able to decide at the design review point. But right now, it's essentially just light mode versus dark mode.

So, this is going to be a really large enhancement. There are somewhere between 250 and 300 dialogues in the entire system that would need to basically have every element have styling attached to it. And then for the implementation set up and testing of all of these, we have to create a situation to get in every single one of these dialogues and confirm the changes were made. This is a large estimate. There's also a full tile set that would go along with this, where we would generate, go get comments, generate traditionally new tile sets, especially with large color changes, go through three or four rounds of design and checks and comments from districts - things like that. So, there is a lot that would go into this, and you see it here, there's a fairly large price tag attached to it - \$118,000. Any questions or comments on that?

Christine Shafik: I just have to point out that to the voting members who are also project manager, at some capacity, the main purpose of our team here is to evaluate and weigh and the value we're getting versus the dollar amount we're paying. We're paying per enhancement, so as you noticed so far, this is the highest ticket on the whole presentation today. One of the highest tickets for an enhancement that SunGuide is proposing so far. So, before you vote, please weigh in the value we're getting, and is there any way around that within your district. If there's any best practice you guys have been doing in your district, please share with the team here. I see couple of hands raised.

Eric Gordin: Hey, Christine and Tucker. I just had a question about the night mode. So how does it mix with any sort of light mode, or daytime mode, night mode with just Windows in general? Or this is just for the panels for the SunGuide application, right?

Tucker Brown: It would be specific to the application only and would not contain any theming information from Windows.

Eric Gordin: Okay. So, if I set my Windows machine to whatever modes I want, currently SunGuide doesn't go along with those mode changes, and that's the purpose for this request. And I guess a follow up question. So, the price tag is - Is it high because you're having to make these individually? You've got to create it so any individual using SunGuide application, that they can set it however they want it, right?

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Tucker Brown: It it's not so much the configuration side of this. It's really more of SunGuide is not set up at all to have a theme at all. And so, part of this is basically going into every dialogue and a framework to allow it to have a theme. And then being able to switch it between one theme or another. Like if we were to add a third theme after we were done with this, it would be far easier. We would basically just be able to give it the coloration. It's basically adding the ability to even theme it to 300 dialogues.

Eric Gordin: OK. I appreciate it. Those are just some initial questions. Thank you.

Mark Laird: Plus, you have all those existing changes in colors for highlighted events in different states of icons and stuff. That all would have to be tested, possibly adjusted. It's a biggie.

John Hope: At District 5, there's some discussion of what if, if, if this item could be reduced in scope. Like rather than trying to hit every single dialogue to just hit the items that are most used.

Tucker Brown: That's possible for sure. I would need to figure out what matters to people.

Pete Vega: So, I'm going to jump in. In these types of decisions, everyone, you got to look at what's a want versus a need and then determine if it's worth the price. Which I think is what Christine's trying to say that \$118,000 could go a long way to doing some other fixes. The other thing was I was wondering which district really brought this up, and it was District 1. And as we know, we have a whole bunch of new people in District 1. So, I'm not sure if we circled back and discussed with them if they want to proceed with this at a cost of \$118,000. But this is right there when we first developed SunGuide; these were driver type costs. This is major work. And would you rather trade this for other stuff ? Or could this be put on the back burner until. SunGuide should be crashing and burning in the next 10 years because of different technologies. That's all I have to say.

Tucker Brown: John, you mentioned reducing scope. If we take out the grids and the elements and things like that, and basically, we talk about just the backgrounds and the tile sets, that does significantly reduce it as well. Because as Mark mentioned, we're not trying to color stuff in grids and take care of the colorations of that. Or really that light blue that you see in the background would turn to a darker color. And maybe we do the tile set - that is less significant for sure. It's mostly just everything else that's involved in the elements itself - the buttons, the grids, everything else that's in the dialogues is really more of what this is going to hit. Now the other question on that is, does that actually accomplish the goal or do we just put a Band-Aid on something that doesn't meet the need?

Alex Varela: Can we just use like some third-party application that just dims the computer? I mean there's like Care (sp?) UI and there's blue light filters and there's dimmers over screens. I just find it really hard to swallow this price tag.

Tucker Brown: Yeah, it is large, that's for sure.

Amy DiRusso: Any more discussions if you want to hold this item? Or do you want to go ahead and vote on what here, and then they can come back to the difference plan?

Ray Mikol: This is Ray in District 1. We're the ones that entered this enhancement request and it was at the request of several operators. But you know, after discussing with the fellow members here, we're willing to accept any ideas. You know any alternatives that would be less costly?

Amy DiRusso: Christine, if you want to chime in. Or if you agree with us voting on this item as is and then based on what the vote is, the next step is coming back on the decrease in scope?

Christine Shafik: I think with what Ray said now, that we can regroup for best practice in the districts. But I don't see any encouragement on this one. Looks like we can work with the SSUG Team on the technical side to see what other districts are using, and then we can assist District 1 on that. It's like Pete said. It's nice to have at some point. But the ticket is very high, and if you can see the other enhancement that you really need technically cost way less than that, which one would you choose? 10-15 other enhancements to make your life easier with SunGuide? Or one enhancement that will eat most of the budget? So, I highly encourage that we table this, take it back to SSUG to further assist District 1 with that.

Amy DiRusso: OK. We can move to the next enhancement.

Enhancement #5: SG-6494 - Color Code for FDLE Alerts

Tucker Brown: OK, this one also has to do with changes relating to the FDLE alert types. So right now, for events in the event list, you get color coding on those if they're owned by a user. You could possibly get them if they are stale alerts. But essentially there are colorations that happen in the event list. One of the other things that happened as part of the change to the FDLE alert type is you do see the current list of event types in the event list. Ad if there are multiple AMBER alerts, multiple Silver alerts, or any combination of whatever alert types there are there, sometimes it's difficult now to see which one is which because they all have the same FDLE alert type event type.

The enhancement request here is to color code the event types based on the attributes that are given. These would be part of the event type configuration and would be a system wide setting. Essentially this would apply to all attribute types, but you can basically pick whatever you want there. And the specific case right now would be for the FDLE alert types. When you associate that attribute to an event, when you see those in the event list, they would be colored to meet that. You'd essentially determine what color you'd like to pick as part of that configuration, as well. If there are more than one attribute, essentially whatever attribute was there first, we'll start with that color so there would be some there. We will also have to decide, probably at the design review, what happens if you own the event and it's that color or if it's stale, how do those colors basically interact with each other? Those will have to be determined because really you can't multi color the line. That would be kind of weird. But essentially being able to color parts of the event list so that you can tell which one of these alerts are which at a glance.

Estimate on that one is \$16k.

And questions or comments?

Amy DiRusso: Hearing none, we can proceed to voting, please.

John Hope: OK, all votes are in. We have 10 Yeses, 0 Nos, and 1 No Preference. So, Enhancement #5 passes.

Enhancement #6: SG-6365 - NWS Alerts full description

Tucker Brown: All right. Next one is the National Weather alerts full description. So right now, when you get a National Weather Service alert, so those your weather alerts in the system, it essentially displays the type in the subject. But as what's seen on the NOAA site, you actually may get a much bigger, longer descript. Right now, we're not pulling that and displaying that to the user.

So, the request is to update that alert to include that full description. And then when you add that description into the chronology to also put that full description into the chronology as part of it. This would also be inserted into the database as part of the alert. So, you could actually go back and look to see what the individual alert said.

We have a picture of it here. So right, now in the event list, I'm sorry the alert list, you actually get a much smaller version of this. This one happens to be a coastal flood statement. Obviously, the alert types that you get will still be the same and configurable and things like that. But essentially, this whole alert text, where you get the full text of it, would be something when you click on the alert in the alert box and bring it up to its full size, you would be able to see. We do not plan on putting this huge piece of text in the alert box because that would take up huge amounts of space within that and wouldn't allow you to see other alerts as they come in. So, shortened version in the alert box, and then when you open it up fuller version. And then when you add it to the event you would still get that in the chronology as well as the database. You can go back and look at it.

Estimate on that \$8K. And questions or comments?

Amy DiRusso: If no questions or comments, we can proceed to voting, please.

John Hope: All votes are in. We have 9 Yeses, 1 No, and 1 No preference. So, Enhancement #6 passes.

Enhancement #7: SG-6519 - Filter Event Attributes from Event Type and Auto-Fill Attributes

Tucker Brown: OK. Enhancement 7 also has to do with attributes and being able to add those to events in an easier way. So right now, when you go into the event details dialog and you're filling it out and you hit the event attribute, you get a very large list of every attribute that's in the system. The system does allow you to currently hide some that you will not use at all. So that may be a way to get down to a list that is a little bit shorter. But you're still looking at the full list of all possible attributes that you could possibly add to the event. And the discussion here was there would like to be an easier way to be able to add these attributes.

So, there's actually two pieces to this. The first part is you would be able to configure specific attributes per event type. So, if you have common occurrences that happen on crash event types, you could go into the crash event type configuration, add specific sets of attributes. And as a default, those are the ones that would show up for a crash event type. When you click on that list that I had in the last one, only a subset of the available ones would show up. This would give you a chance to customize that for each event type to something that may be a little bit easier for your operators to see. There would be a button that essentially would allow you to show all of the types. So, if you do have something that is not in your initial list, the operator would have the option of being able to go get something that may be less common. But it would take them an extra button push to kind of repopulate that list, go find it, select it, and add it to the event. If you don't have any configuration on any of the event types, the current

situation where all the attributes are there, that's what's going to be shown to the user anyway. So, if you don't configure anything for this, you basically have the same behavior you have now.

The second part of this enhancement is to allow people to actually type into that box. Right now, you click on it, and you get just the drop-down list and there is no actual user input there. This would allow you to start typing into it. And as you type, whatever you type filters the list of attributes. So, if you have a longer list and you start typing "bridge", the attributes that have the word "bridge" in them would show up within that list and allow you to select those. So, essentially that's just another quick sort, or quick filter, I guess.

Estimate on that \$17k for both. Any questions or comments?

Amy DiRusso: Hearing none, we can proceed to voting, please.

John Hope: All votes are in. We have 10 Yeses, 0 Nos, and 1 No preference. Enhancement #7 passes.

Enhancement #8: SG-6254 - RISC Management in SG

Tucker Brown: All right. Next one has to do with RISC, and managing RISC equipment. Right now, when you go to a RISC, you have a default set of equipment that's there, and you can basically say whether it's utilized or not. But you can't really remove the equipment. You can add additional equipment. But again, those timestamps that you added or removed that equipment are not shown. Actually, there's no remove just an add.

So, this section here in general, instead of requesting additional equipment, it's really just going to be a "Manage Equipment", and we'll change the language to reflect that. But what we're really trying to do here is add columns that are going to show you the added time, which will still have a default set of equipment, and it still will be added, but we'll also allow you to remove the equipment. And so, you would have a time that it was removed, as well. You'd essentially see the line still, but you'd be able to see more like your AVL vehicles where you dispatched them and then maybe you canceled it or something like that. It's going to show this was added and then later it was removed, and then show you both time stamps for when that equipment was managed. That's one piece of this.

The next enhancement here has to do with the selection of a vendor to actually perform the RISC. Right now, when it basically selects the next one in, and this would allow you to select a vendor. Right now, the current behavior is if you want to get to another vendor there, you have to roll through documentation saying I didn't select vendor 1. I didn't select vendor 2. Here's why, but I really need vendor 3 to take this. Not only does that mess with the ordering of vendors 1 and 2, but it also would move vendor 3 somewhere else in the list as well. What this would do is allow you to select essentially vendor 3 from the full list of vendors and say I need this particular person to handle it and we're not going to actually reorder that list at all. So, vendor 1 would show up the next time a RISC comes up. So, the ordering is maintained, but we really need this particular one to handle this one. It would require that the operator specify who's the authorizer for this. So, this would be documented in terms of who is actually telling them to do this and why. But yeah, just a way to select a different vendor without affecting the current rotation.

Both of those \$22K. Any questions or comments on that?

Amy DiRusso: If there are no questions or comments, we can proceed to voting, please.

John Hope: All those are in. We have 9 Yeses, 0 Nos, and 2 No preference. So, Enhancement #8 passes.

Enhancement #9: SG-5430 - Add Dispatch Info to RR Popup and Modify RR Map Icon

Alright, next one is for adding information to the Road Ranger pop up and changing the icon slightly. Two pieces to this. The request here is right now when you dispatch a Road Ranger, or they're arrived at an event, when you go to the pop up and hover over the top of it, you get information about the Road Ranger that does not currently include any dispatched or arrived event numbers. And so that would be added to the hover so that you can actually tell if they're on multiple, if they're on one, if they're arrived - you can basically tell that from the map by just hovering over them.

The second part of this is adding an indicator to the Road Ranger icon itself to indicate that it's dispatched. Right now, the Road Ranger vehicles are colored based on status. So, they may be on break, they may be patrolling, they may be arrived at an event. And that colors the actual icon itself. Dispatch usually indicates a different state that is kind of alongside their current status. So, what we would probably do in this is similar to how if a camera has a schedule on it. You'll see a little clock that appears in the bottom right corner of the icon. We would probably have something similar that would be layered over the icon to indicate that that Road Ranger is dispatched to an event. And so, you would be able to tell that immediately. And along with the first one, if they do see that in the icon, you can actually hover over it, see which event they're actually dispatched to, and be able to look at that or be able to dispatch them to another one if you need to.

So, two pieces here. One is the hover text, and one is changing the way the icon is represented and what information you can get out of that.

\$9k on that one. Questions or comments?

01:06:25 Amy DiRusso

Maybe the voting?

John Hope: All votes are in. We have 10 Yeses, 0 Nos, and 1 No preference. Enhancement # 9 passes.

Enhancement #10: SG-6502 - Deleting Roadways

Tucker Brown: Alright, next one here is for deleting roadways. Right now, you can add a roadway, you can slightly modify it in terms of just small changes that don't include naming or things like that. It's mostly just sort orders and you cannot delete them at all. So, this is to allow road – we won't be deleting them, obviously, but essentially cease using them. So, they'll still be in the back end in the database, but they would not be actively available in the map. As well as allowing the roadway to be renamed in case you actually want to do that. So, this does have larger impacts in the system beyond EM. So, all devices are tied to a roadway and direction. There are other pieces that tie into this in terms of EM's device linking. All kinds of things throughout the entire map use roadway information.

Part of this is we will need to add in a lot of checks to make sure that you're not actively using these before you start a deletion operation. And if you do, it'll alert you that, hey, you still have them and use in these places. We do have these checks in other spots in the system. And if a subsystem is off, so let's

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say you had Truck Parking off and you go to delete a roadway and it's not able to check whether it's in use. It'll actually warn you and say, hey, this subsystem's off. Are you sure you want to delete this without it being able to check and you can select yes or no.

Similar to that, or if you tried to delete a DMS and it says, hey, this DMS is in use in the device linking. You need to fix that before we actually make that happen. But essentially telling you where the usages are in the system before you actually go to delete the roadway. I think that's it on this one.

So, this is a bigger deal just because of how intertwined these are with the rest of the system. But I know a number of districts have had issues with deleting roadways in the past, and being able to actually manage those roadways, rename them all kinds of stuff like that.

But that's been this one is \$49k. Questions or comments?

Mark Laird: Tucker, one question. This is Mark. I don't remember, but do all the references in the database currently use ID's and not names? Do we have to make a change to that?

Tucker Brown: We do have to make a change to that as well, within, I believe the equipment table. A lot of this is not necessarily deletion, it's actually mostly the rename.

Mark Laird: OK. So, that's the benefit of this change, too.

Tucker Brown: Yeah.

Eric Gordin: Hey, Tucker, quick question. Do you know if this is the short name or the long name for the roadway? Or is that relevant anymore?

Tucker Brown: So, the long name is, I believe AJ can correct me if I'm wrong, what's used basically throughout the system for actual display now.

A.J. Skillern: Yes. And that's what we're proposing to allow renaming.

Eric Gordin: OK, so the short name stays fixed, right?

A.J. Skillern: Yes.

Eric Gordin: Yes, OK. Appreciate the clarification. Thanks.

Pete Vega: This is Pete. I'm playing catch up. So, this was requested by District 6. Most of our stuff is on the Interstate, so what kind of roads would you be deleting? The express lane stuff?

Mark Laird: I think part of the original issue was related to express lane stuff. But there also have been cases of something was misnamed when it was entered. You make any mistake; you're stuck with it. So, I think something of that what happened one time, too.

Tucker Brown: Frequently people will add test roadways, as well. And can't delete them.

Pete Vega: OK, I remember Jason talking about something like this being an issue. OK. Thank you.

Christine Shafik: Tucker, quick question. How would that impact reports? Like if the operator changed the roadway, or renamed the roadway, would the report pick up both names?

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Tucker Brown: So, on the rename it will essentially see that as the same on the backside. So essentially all events would essentially be tied to the renamed roadway. In other words, the old.

Alex Valera: What about deleting a roadway. Would you ever be able to pull an old report?

Tucker Brown: So, in the case of the ceased use side, if you run reports for a particular county and you may have a ceased use road in that particular county. If the date range or whatever range you run or criteria that you chose for that report included an event that also had that ceased use roadway, that would still show up in the report. And that was the big point of the ceased use side of it, was making sure that those still are available. They just won't be actively in the system as selectable.

Alex Valera: Got it. Thank you.

Amy DiRusso: Any more comments or questions? Okay we can proceed to voting, please.

Pete Vega: Any discounts this month, Tucker?

Tucker Brown: Discounts on the enhancements?

Pete Vega: On this one.

Tucker Brown: Like a buy one, get one free?

Pete Vega: It's Easter, man. Give us 10% discount. You can do it. You're the project manager.

Tucker Brown: My staff might kill me.

A.J. Skillern: And his management might kill him.

Tucker Brown: That's also true.

John Hope: All votes are in. We have 9 Yeses, 1 No, and 1 No preference. So, Enhancement #10 passes.

Enhancement #11: SG-6545 - TSS Raw Speed Data Availability on mouse-over

Tucker Brown: Next one is the TSS raw speed data on a mouse over. So, we went back and forth on this one in the SSUG, and had a lot of options for average speed versus raw speed. Currently we're displaying the raw speed and we had a lot of discussions whether to make it configurable, whether to show both, whether to show one or the other. Essentially the notes basically said that we were just going to change it from average speed to raw speed as part of this. And so really, it's just a change in what the users would see when they hover over any individual TSS link on the map. This will now show raw speed directly. It's still going to update at the same rate, but you might see larger changes than you are accustomed to just because raw speeds don't have the smoothing built into it.

So, the estimate on that one is \$3k.

Mark Laird: Hey, Tucker, this is Mark. I thought at the end there was a decision to make it available through the icons to do one way or the other. Is that?

Tucker Brown: So, that was discussed. The way I read the notes though, that was basically not in there.

Mark Laird: OK.

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Amy DiRusso: Questions or comments?

Eric Gordin: Hey, Tucker, this is Eric again. So, the raw speed - it would be based on like the polling frequency of the device? Is that right?

Tucker Brown: On the whole of a device, we are updating both the raw, which is what we get directly from the detector from the field. And then in that same polling cycle there's also an average that gets built. And that's kind of configurable on the config file about how many reads get kind of put into that average. So, it's different per district. But both of those update every poll cycle. Really switching to here is from that average display to a raw display. I will mention too, the average and the raw are both available in the TSS dialogue - the status dialog. This really only affects what's shown in the the UI, on the links, on the map, if you hover.

Eric Gordin: OK. Appreciate the clarification.

Mark Laird: Tucker, this is Mark. Did the average also cap speeds?

Tucker Brown: Yes.

Mark Laird: OK.

Tucker Brown: Yeah, those are capped at the speed limit, I believe.

Amy DiRusso: Any more questions?

Do you have questions? OK, next slide to voting, please.

John Hope: All votes are in. 10 Yeses, 0 Nos, and 1 No preference. Enhancement #11 passes.

Enhancement #12: SG-6603 - Road Ranger Safety Focus

Tucker Brown: One more here was the Road Ranger Safety Focus, Enhancement 12. So, there were a couple of other suggestions on this, but in the SSUG those parts were voted down. So, we really only ended up with a single request out of this. And it's for main line only events that have a Road Ranger on the event itself. There is a configuration on the back end that would be used to identify first that this is a Road Ranger event, and then if you have a single-phase response plan message, it would automatically tack a second phase onto that that would say, and it would be configurable, but essentially some sort of Road Ranger, Move Over type messaging. The message itself would be configurable. The distance from the event to actually be able to pick up a sign to say that would be configurable. And if you set that at zero, this functionality would not be used at all, because it wouldn't be able to select a sign. But the idea here then is that for a select number of signs in a certain radius from the event, you would get a second phase automatically tacked on to the suggested message if there's a Road Ranger, and you have this configured.

Estimate on that one is \$11k. Any questions or comments?

Amy DiRusso: Hearing none, next slide please for voting.

John Hope: And all votes are in. We have 10 Yeses and 1 No preference. The enhancement #12 passes.

Tucker Brown: And I'll turn it back over.

Vote for CMB Chairman

Amy DiRusso: All right. We had two nominations. One for Megan from D7 and one for Steven from D1. We have a voting option, so we can vote.

John Hope: Are you asking for more nominations, or are you asking everyone to vote?

Amy DiRusso: I guess we should ask - any other nominations out there? Hearing none, I guess next slide for voting please.

John Hope: OK, all votes are in. We have 1 vote for Steven, 8 votes for Megan, and 2 No Preference.

Amy DiRusso: Congratulations, Megan.

Christine Shafik: Congratulations, Megan, on your new position.

Megan Arasteh: Thank you very much. I'm very excited and I have great former leader. And also, Christine and any other districts to learn from and follow. So, thank you very much for the opportunity.

Christine Shafik: And Megan, we will need to get together to schedule the next CMB.

Megan Arasteh: OK will do.

Amy DiRusso: All right, we have a new chairman! Congratulations, and you've got a great team in Central Office. Ask me if you got any anything you need to know.

Open Discussion

Amy DiRusso: Do we have any other items you wanted to discuss?

Yamilet Diaz: Christina, and Megan now, as well. This is Yamilet. Thank you, guys, for welcoming me. And Mark, don't go too far because I might need you. We were discussing here with Javier, and he wanted me to bring an item up in the open discussion. But I could not hear right if this is the right moment or not?

Pete Vega: Go for it, yeah.

Yamilet Diaz: OK, the topic he wanted me to bring up was on the wrong way driving detection systems. And I will give the floor to Mark. But basically, Javier wanted me to bring up that we would like to see a report in SunGuide that could generate the information that is being requested by Central Office on the wrong way driving systems. As you guys know, we have a few now, but we are expecting to have a lot more in the near future. And so, this report would be very beneficial. And then, you know, he mentioned that if the fields are not currently being collected by SunGuide, that we should try to make enhancements to capture those required fields moving forward.

Basically, the other part of this is that, currently we are using vendor software to get a lot of the data and the information. But, you know, we would like to be able to move away from that. Rather than having to go to several vendors' software and gathering that information, it would be great if we could have all of that in SunGuide. And Mark, please let me know if that captured everything or if there's anything you would like to add.

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Mark Laird: Yeah, there's a little bit more. We've been talking about how we can try to support this. And what we're considering is adding a couple of event attributes, one for mainline entry and one for we're calling it self-corrected rather than turn around, since there are ways to correct other than turning around. And to possibly use secondary event, primary - secondary event association, when we create an event from a wrong way alert and then we have a crash. And that would help us get information into SunGuide that is necessary to support this reporting. I'm just wondering if anybody else is doing something along those lines to get data in. Are you using operator comments?

Megan Arasteh: We have created a drop-down menu in for District 7, for different type of wrong way driving events. And Mike, if you want to elaborate.

Mike Crawson: So, kind of what Mark you were saying, we've created specific event attributes that are only for wrong way driving. And then we run a query against them, and it will show how many events we've had that are associated to those event attributes. And they get as granular as like you said - self-correct, and hopefully not, but results in a crash, or different things like that. So that way then it's a far easier report to run.

Mark Laird: Do you remember exactly what you used? It might be nice if we were consistent, and it might help with some future SunGuide reporting capability.

Mike Crawson: That could be something that we could e-mail you, the exactness that we have.

Mark Laird: OK, that'd be great. Yeah, because we can rename them too. I mean, that's easy enough. Anybody else want to weigh in with any ideas? We'll probably put in a JIRA.

John Hope: There's a question of whether or not that list could be sent out to all districts.

Megan Arasteh: Sure, we can send it to this team.

Christine Shafik: I have an idea there is. Well, Edith is leading this effort. And I think it's a very good topic to discuss on the Quarterly Statewide Wrong Way Driving Meeting. It's going to take place on April 19th. I know there's a draft for this type of report, but I think it needs to be circulated by all the districts. So, rather than do it individually, I think for consistency purposes once all the districts agree on the format and what needs to be on this report, we can move forward with it as enhancement in SunGuide. But I I'm not seeing consistency yet on this. I think it's kind of premature at this point and and would like to get all the district buying in before moving forward with that. So, we can talk with Edith to put it on the agenda on the April 19th. And Yamilet, would District 6 be leading the conversation at this point?

Yamilet Diaz: I yeah, we can. Christine, I am not sure if I'm in that working group meeting. I don't see it in my calendar.

Christine Shafik: Definitely not here on this list.

Yamilet Diaz: But maybe Javier is the one that participates.

Christine Shafik: Yeah, I see his name. We can coordinate with you guys on that. And I'll initiate an e-mail and copy you guys.

Yamilet Diaz: And what is it that you're proposing for that discussion? That the Group agrees on a specific format? Like, what would the outcome be?

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Christine Shafik: So, there is an existing draft that has been in place for what the report looked like. But I have never heard a final on it. We need to have a final on what the district needs and what the Central Office is requesting. Edith is leading that, as well. And we can move forward with putting a Jira with the specific need statewide. Because I see District 5 is doing something, District 6 is doing something.

Yamilet Diaz: Mark, have you seen that draft? I'm sorry, Christine, but I I haven't seen it myself, so.

Mark Laird: No. But I assume it's going to be how to capture the data and the report to satisfy central office requirements. True?

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Please send a screenshot of the drop down.

Pete Vega: Mark, I think the challenge is we haven't, Edith hasn't had a chance to establish a program. What is it they want? I don't know about you guys, but whenever I have a wrong way driving event, they go and do some research and send information to us to review to see if we concur. But if we're going to do a report, what exactly are they going to be expecting from the districts as far as the way of tracking this? Versus right now, I guess. You guys do like we do. We use BlinkLink and I have our consultant running all kinds of spreadsheets and reports, and from that we assess the effectiveness. Yeah, I think that that meeting on April 19th would be a good start for us to get in the right direction.

Mark Laird: But there is a regular data set that's requested. Is it monthly or quarterly right now?

Pete Vega: Yeah, that's what we pull from our spreadsheets.

Mark Laird: Yeah, do it all the hard way.

Pete Vega: Yeah, the old hard way. Which it would be nice if Tucker could bail us out with incorporating it in SunGuide.

Mark Laird: I think one of the benefits of the event attributes is it probably can solve this using a feature that's there now. And then just add a report. Christine, I think that's all we have.

Amy DiRusso: OK. Any other open discussion? Okay, I'll turn it back to Christine.

Review Action Items

Christine Shafik: Did we go over the action items?

Amy DiRusso: No, not yet.

Carla Holmes: Did you want me to go over those Christine?

Christine Shafik: Yes, Carla, please.

Carla Holmes: OK, action items that we've captured so far. First, there were a few items in the Chat with some of the voting members that need to be updated. I believe was District 5 and District 3. So, we need to have those sent in to Amy and Christine. And I guess Megan now. So, send any voting member updates in to Megan. The next item was to take back to the SSUG, SG-5423, the Night Mode enhancement. Take that back to the SSUG to get some best practices on what the other TMCs are doing for their night mode issues. Next, we have the issue about the wrong way driving reporting. Was District

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7 still going to need to e-mail their event attributes list to the other districts, or is that going to be on hold until we get it on the Quarterly Meeting agenda? Does that still need to be done? I think District Seven was going to e-mail out the attributes to the everyone to see what event attributes that they've created for the wrong one driving.

Megan Arasteh: I can send it to the team. And also, as Christine said, she'll be writing an e-mail for this to be on the agenda for the next wrong way driving meeting. So, I will also copy Edith, so maybe she would want to summarize, or I could help her summarize what other districts have recommended.

Carla Holmes: And those were the only action items I captured. Were there any others? I'll turn it back over to you, Amy.

Amy DiRusso: All right. Thank you, Team. Have a good day.

Christine Shafik: Thank you, Amy, for your service. And welcome aboard, Megan.

Megan Arasteh: Thank you very much. And thank you very much, Amy.

Amy DiRusso: Same to you, Megan. Congratulations!

Megan Arasteh: Thanks.

Meeting adjourned.