SunGuide™ GUI Design Review
Release 3.1 Express Lanes Meeting Minutes
Date: March 10, 2008
Location: Video Conference

Attendees:

Trey Tillander, FDOT CO	Adam Clauss, SwRI
Steve Corbin, FDOT D4	Dedaimia Kozlovsky, SwRI
Rory Santana, FDOT D6	Steve Dellenback, SwRI
Manny Fontan, FDOT D6	Amit Misra, SwRI
David Chang, PBS&J	Robert Heller, SwRI
Khue Ngo, PBS&J	Mark Laird, DMJM Harris

Subject: **Express Lanes GUI Design Review - SunGuide™ Release 3.1**

Note: Agenda and slides are available from the project website at:

http://sunguide.datasys.swri.edu

Item #1 – Introductions and Opening Remarks

o Trey introduced the meeting.

Item #2 – Project Updated

o Rory Santana discussed current project status.
o Project still on course for May or June.
o Few changes to toll rules, most important one has remained the same (rates posted to the Toll Rate Signs are not a 100% guarantee to the public).
o Trey – did additional DMS's make it into design build contract? Rory – there will only be one set of signs, no duplication. So same set of signs to the software.
o Dellenback – do the NTCIP signs have to go through the TERL for approval? Rory – Yes, have asked the signs to go through TERL for testing, but signs have already been ordered and will not be part of the FAT for the signs.
o Dellenback – what kind of signs were ordered? Rory – Adaptive. Dellenback – We have not worked with that manufacturer's controller before. Can they send one to SwRI for testing? Rory – They are scheduled to send one to TERL already, so will perform the testing there.
o Trey – the signs will still need to be part of the APL to be deployed. Rory – yes, and preferably the full approval, not a temporary.

Item #3 – High Level Overview and Meeting Objectives.

o Amit Misra presented the slides.

Item #4 – Review Action Items from previous Design Reviews

Action Items discussed:

- o 268-269 – these inadvertently added from Release 4.0 – should not have been included here.
- o 274 – Rory - new toll rules define that toll gantry signs are showing rate charged at that time on the segment.
- o 277 – Rory – Minimum of $0.03 per mile, maximum of $1.00 / mile, minimum of $0.25 per segment. No restriction on time.
- o 280 – Corbin – to date we have not received these addresses.
- o 281 – Amit –we received an email from Scot indicating they should have something up by next week. Corbin – connectivity between D4 and FTE is up as of last week. Dellenback – It was indicated to SwRI that SwRI would have a connection from SwRI to FTE for testing by middle of March. Would like verification that this is on schedule.
- o 282 – IBI not on the telecon, attempting to contact.

Item #5 –Toll Viewer

- o Amit Misra presented the slides.
- o This section deferred until Jennifer Tsien can join.
- o Began discussion without Jennifer.
- o Khue – Is the "Select Toll Gantry" list populated with the Turnpike ID's? SwRI – Each segment has a field called "Toll Gantry Name" that is used for these fields.
- o Corbin – text on this page appears fairly small, can this be enlarged? SwRI - We will look at this, also will ensure that if fonts are enlarged (using ctrl button and scroll mouse wheel) that fields resize/move appropriately. SwRI and PBSJ were asked to make sure fonts are large enough to be easily read in SUM and training material.
- o Rory – the gantry name on slide 23 will match the one selected in 22 correct? SwRI – yes.
- o Trey – a previous action item discussed adding a calendar control. SwRI – yes, it is there, just did not show a screenshot of.
- o Corbin – events shown are not active during the time period. SwRI – events that are active during the entire time range (in screenshot plus or minus 12 hours) are included.
- o Trey – what does the static map link show? Links to the Visio diagram previously provided by Khue (will be converted to an image file format). If D6/Turnpike wishes to use a different image, FDOT will provide by April 15 for inclusion in FAT and installer.
- o Trey – can the icon in the top right be replaced with the IE back-arrow or similar (something that indicates 'go home' better)? SwRI – yes, we can look at changing this. SwRI and PBS&J will add to the SUM and Training material.

Item #6 – Admin Editor

- o Amit Misra presented the slides.
- o System configuration – Trey – since maximum limit of 6 characters, can we shrink this box to be only 6 characters wide. SwRI – yes.
- o Holiday editor - Manny - Will holidays be already entered in the database at deployment? SwRI – no they will need to be done during deployment configuration.
- o For this release, only future holidays may be deleted. For future releases, a feature may be added to hide or otherwise remove past dates in the Administrative Editor.

- o Segment Editor – Corbin - what are latitude/longitude values on here used for? Used to associate events within Toll Viewer. SwRI and PBS&J to explain these values in the SUM and training material.
- o Rory - Screen shot shows a minimum value greater than the maximum. Will admin editor prevent this? Yes.
- o Manny – will segments need to be drawn on the map like TSS links? No, just the start/end points need to be specified.
- o How does the association work since the segment is defined as a straight line, but the roadway is curved? SwRI – algorithm looks for any events on the same roadway which are within a certain (configurable) distance of the straight line drawn between start/end points.
- o Manny – is there documentation describing the start/end point and its use? Yes, will be in Admin Training / SUM.
- o Daily Rate Schedule Editor – Can entries be modified? No, the edit/delete button will be disabled for daily rate schedules which have been used. New rates schedules must be added with a new name.
- o Ability to duplicate was deferred from this first release and may be considered for a future release.
- o Also may want to include hiding historic entries in future release.
- o Rename "Rush Hour Rate" to "Congested Rate" for future use (ex: SUM, Admin training slides, etc).
- o Segment/Rate Schedule editor – Rory - same comment about renaming rush hour rate.
- o Khue – will pull down menus for the daily rate schedules be blank upon initial opening of a new screen? SwRI – yes.
- o Trey – for users manual and training materials – show screens of both an "empty" screen and a completed screen.
- o If a segment is added which conflicts with another schedule, what happens? Cannot add a segment rate schedule for a earlier date than one which is already entered in the system (for a given segment).
- o Toll Rate Sign Editor – no discussion.

Item #7 – Express Lanes GUI

- o Amit Misra presented the slides.
- o Express Lanes Tab:
- o Will clicking on the event specified in the associated event column bring up the event details? SwRI - yes.
- o Corbin - Can we draw more attention to the segment ID? (Bold, darker border, etc). SwRI – yes, will look at this.
- o Corbin – does clicking on the sign open a window? Yes, it will open the DMS status window for the sign.
- o Trey – what happens if there is no static text? Or if the static text appears above the brick on the sign? If there is no static text, the GUI will display just the sign itself.
- o Trey – make a note in user's manual / training that signs configured in admin editor as top->bottom appear left->right in the operator GUI. Can you also display a note on the editor screen (slide 29) that explains this? SwRI – yes.
- o Override Mode dialog:
- o Normal mode – used to end an override. Returns to normal TOD rates.
- o Zero rate – charges a zero rate, uses the Open default message on DMS signs (specified on slide 27).
- o Congested rate – Manual rate entry by operator, rates posted to DMS signs.
- o Manual rate – manual rate entry by operator, no automatic posting of DMS messages.
- o Closed – charges a zero rate, uses the Closed default message on DMS signs (specified on slide 27).
- o Manny/Trey – can we consider renaming the overrides to be clearer? Manual mode -> "Middleware Rate Adjustment". Others (Normal, Zero, Congested, Closed) are OK. Following changes will be

made: Change "Zero Rate" to " Zero Rate -> "Open" and "Closed" to "Zero rate -> Closed" (Santana to confirm).
o   Rory – manual isn't really an operational mode. It is a separate operation. Move this one to bottom, maybe even separated to distinguish this one from the others.
o   And what about difference between Zero/Closed to the turnpike? Zero rate gets sent to turnpike in both cases, only difference (to SunGuide) is the default message which gets used.
o   Comment should read "Resetting rate to TPKE" (not at request of).
o   Corbin – for manually entered rates, where does the operator get these rates from? Rory - In a separately provided table, the high congestion table was removed from the software for this release. May be added in a future release.
o   Express Segment Alert - When an operator clears an alert, details (including operator name and their entered description) will be logged to status logger.
o   The description field should be required to be entered by the operator.
o   Archiving of this information to the database may be added in a future release.
o   Manny – On override dialog, can show the maximum adjustment time? SwRI - yes, we can display this. Also, the dropdowns will only provide the possible times for the given maximum adjustment.
o   Trey – Maximum adjustment time has minutes/seconds, but override dialog does not have seconds. Do we need seconds? Rory – no. Trey – Drop seconds from the admin page (slide 27). SwRI should submit a waiver for the requirement with seconds and FDOT will approve.

Item #8– Open Discussion/Conclusion

o   SwRI will send out meeting minutes tomorrow morning.
o   Dellenback – can we consider the GUI design finished? Trey – after minutes are reviewed, will have GUI design freeze.
o   FDOT to provide SwRI with a sample rate schedule by April 15 for use in FAT.

ACTION ITEMS

Numbering of Action Items is based on all action items identified on the SunGuide project.

Number	Responsible	Text	Due Date
290	FDOT/FTE	Confirm FTE Middleware connectivity will be available to SwRI to test by March 21.	March 12, 2008
291	SwRI	SwRI to ensure that if Toll Viewer fonts on browser are enlarged (using ctrl button and scroll mouse wheel) that fields resize/move appropriately.	March 17, 2008
292	SwRI	Dist 6/FDOT asked if the icon in the top right can be replaced with the IE back-arrow or similar (something that indicates 'go home' better)	March 17, 2008
293	SwRI	SwRI to updated Express Lanes System Configuration "Toll Rate Messages" text box to be 6 characters wide since the maximum allowed is 6 characters	March 17, 2008
294	SwRI	Drop seconds from "Max effective adjustment time". SwRI to submit waiver to FDOT so seconds can be dropped.	March 17,2008
295	SwRI	In the Express Segment admin editor screen, add note to the left of the "Selected displays" box indicating that signs as ordered from top to bottom will be displayed on Express Lanes tab from left to right. This note will also be made in SUM.	March 17, 2008
296	SwRI	For override dialog on GUI, SwRI will rename Manual mode -> "Middleware Rate Adjustment".	March 17, 2008
297	SwRI	Rory indicated that manual isn't really an operational mode. It is a separate operation. SwRI will move this to bottom of list and add space separation to distinguish this one from the others.	March 17, 2008
298	SwRI	SwRI to investigate if it is possible to draw more attention to the segment ID and status? (Bold, darker border, etc).	March 17, 2008
299	SwRI	On override dialog, SwRI will add the maximum adjustment time (set in the Admin Editor) to the right of the effective time drop downs.	March 17, 2008
300	District 6/FDOT	If D6/Turnpike wishes to use a different image, FDOT will provide by April 15 for inclusion in FAT and installer.	April 15, 2008
301	FDOT D6	FDOT to provide SwRI with a sample rate schedule by April 15 for use in FAT.	April 15, 2008
302	SwRI / PBS&J	SwRI and PBSJ were asked to make sure fonts are large enough to be easily read in SUM and training material	April 30, 2008

Number	Responsible	Text	Due Date
303	SwRI / PBS&J	Replace the icon in the top right be replaced with the IE back-arrow or similar (something that indicates 'go home' better). SwRI and PBS&J will add to the SUM and Training material.	April 30, 2008
304	SwRI / PBS&J	Explain the use of lat/long in the Segment Editor in the SUM and training material.	April 30, 2008
305	Santana / D6	Confirm that on the GUI the following descriptive changes should be made: Change "Zero Rate" to " Zero Rate -> "Open" and "Closed" to "Zero rate -> Closed".	March 17, 2008