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1	SEQ#	ISSUE NAME	ORIGINATOR	SUBMIT DATE	AREA	DESCRIPTION	STATUS	PRIORITY	TYPE	ASSIGNED TO	SUGGESTED SOLUTION, COMMENTS OR FIX DETAILS(OPTIONAL)
2	1	Update SCOPE for new DROID GUI	Mark	12/16/2010	SCOPE Primary	DROID GUI and ATC Keyboard/Display Operate independently. Must combine the two.	Closed	Medium	Bug	Mark	Add a routine to ATC_Display that sets data retrieved from GUI. Call routine from Scope_Main
3	2	DROID GUI updating wrong	Mark	12/16/2010	Android GUI	DROID GUI is not updating correctly. Data is frozen. Java GUI works wirelessly	Closed	Medium	Bug	Justin	
4	3	Add Actuated Control	Mark	12/16/2010	SCOPE Primary/Secondary	Need to add actuated Control Logic to system	Closed	Medium	Enhancement	Mark, Donna	Min Recall, Max Recall, Actuated logic, Extension Times. Test using TS2 Cabinet and new GUI. Add interface between primary and secondary.
5	3	Add Actuated GUI logic	Mark	12/16/2010	GUI	Need to add actuated inputs / outputs to Java GUI AND also new actuator buttons 1--64	Closed	High	Enhancement	Justin	
6	4	Add timing plans	Mark	12/16/2010	SCOPE Primary (ATC Interface)	Currently, there is only 1 plan available to change. Add an ATC menu to allow creation / storage / recall of timing plans.	On Hold	Medium	Enhancement	Mark	ATC_Display contains all the routines that interface to the ATC Controller. Add another menu for creating timing plans.
7	5	Fix exception handling	Mark	12/16/2010	Infrastructure	The ATC is not handling C++ and Ada95 exceptions. This is most likely because it uses uClibc instead of libc.	Closed	Low	Bug	Mark	Mark gave Jeff a detailed description and test programs. Rebuild uClibc with handling turned on? THIS TURNED OUT TO BE A BUG WITH THE ATC GCC VERSION. REPORTED TO GCC.
8	6	Install Scripts	Mark	12/16/2010	SCOPE	Need configure script that checks a user's machine to make sure all libraries needed are there	On Hold	Low	Enhancement	TBD	Need to build a standard configure script for SCOPE. "make install" needs to be part of the Makefiles
9	7	Auto Configuration	Mark	03/21/11	SCOPE / GUI	The Android Interface could allow a user to build an intersection specifying where actuators are. SCOPE could configure itself using this graphical representation.	On Hold	Low	Enhancement	TBD	
10	8	TranStar PPC Port	Mark	03/21/11	SCOPE / Android GUI	Port PPC Version of SCOPE to ITS Cabinet	Closed	High	Requirement	Mark, Donna, Justin	Need to create SDL interface for PPC board and reconfigure code. Need Droid GUI.
11	9	GUI mod 1	Mark	03/24/11	GUI	Don't display Status - 0.0 (under Primary Data). Never going to use it.	Closed	Low	Enhancement	Justin	
12	10	GUI mod 2	Mark	03/24/11	GUI	Change "Current Phase(0)" label to "Ring 1 Phase". Probably should display an integer, not a float	Closed	Medium	Enhancement	Justin	
13	11	GUI mod 3	Mark	03/24/11	GUI	Change "Current Phase(1)" label to "Ring 2 Phase". Ditto on display as integer.	Closed	Medium	Enhancement	Justin	
14	12	GUI mod 4	Mark	03/24/11	GUI	Don't display Speed, we're never going to use it.	Closed	Low	Enhancement	Justin	
15	13	GUI mod 5	Mark	03/24/11	GUI	Change the label "Current Color" to "Ring 1 Phase Color"	Closed	Medium	Enhancement	Justin	
16	14	GUI mod 6	Mark	03/24/11	SCOPE/GUI	Where Speed was, replace with "Ring 2 Phase Color". For now, set it to the value of Current Color.	Closed	Medium	Enhancement	Justin	
17	15	GUI mod 6	Mark	03/24/11	GUI	Recall Mode drop down list uses 0,1,2. Would be nice if they read None, Min, Max and sent the values 0,1,2	Closed	Low	Enhancement	Justin	
18	16	GUI mod 7	Mark	04/01/11	GUI	GUI should have a way to save configurations and reload.	Closed	High	Enhancement	Justin	
19	17	GUI mod 8	Mark	04/09/11	SCOPE	NCHRP 3-66 Additions	Closed	High	Requirement	Mark, Donna	
20	18	GUI mod 9	Mark	04/09/11	GUI	Phases should have phase # above them	Closed	Low	Enhancement	Donna	
21	19	GUI mod 10	Mark	04/09/11	GUI	In actuated mode, there is a timer per RING. It would be nice to see them instead of Split Timer on the main screen.	On Hold	Low	Enhancement	Donna	
22	20	GUI mod 11	Mark	04/10/11	GUI	Need scroll bars on GUI. When running on laptop with 13" screen, actuated buttons not visible. When resizing the GUI to be smaller, scroll bars would enable the setting of all GUI parameters.	Closed	Medium	Enhancement	Justin	Actuated mode now spawns a new window
23	21	GUI mod 12	Mark	04/10/11	GUI	GUI now saves state but when restarting, always starts in Pretimed. If it was last running actuated, should start in actuated.	Closed	Low	Enhancement	Donna	
24	22	GUI mod 13	Mark	04/10/11	GUI	When running in actuated mode, a call can preempt a phase if it call phase conflicts and the running phase has already passed its green time once. In this case, the interrupted phase is forced off. Its new transition time shows about 6 decimal places. At the most, show 2 decimal places on the GUI.	Closed	Low	Enhancement	Donna	
25	24	GUI mod 14	Donna	04/11/11	GUI	To implement NCHRP3-66 control logic, we need Actuated Modes to be Recall, Min, Recall Max, Presence, Max Out, Gap Out. SEE IDD	Closed	High	Requirement	Justin	

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26	25	GUI mod 15	Donna	04/11/11	GUI	To implement NCHRP3-66 control logic, we need the following inputs for Actuated Data (one per phase): Gap Time, Time Before Reduction, Time to Reduce, Min Time Gap. SEE IDD	Closed	High	Requirement	Justin	
27	26	GUI mod 16	Donna	04/12/11	GUI	Change label Recall Mode to Actuated Mode	Closed	High	Enhancement	Justin	
28	27	GUI mod 17	Donna	04/12/11	GUI	For testing NCHRP 3-66 concepts, we need a way to tell an actuator exactly how long to stay in call mode. Right now, its till the button is released. Our hands will never be quick enough. If we could put an entry field next to each button and then let a user enter the number of seconds for the call to stay (has call), that would be great. 0 would mean one-shot call (just new call). If a user put in 7, the GUI would generated "new call", wait 500 ? ms, and then generate has call for 6.5 seconds. Then, it would generate "had call". The button would no longer be "sticky".	Closed	High	Enhancement	Justin	
29	28	HELP	Mark	04/12/11	GUI, ATC	All input parameters and output data needs to be defined in help Menus	Open	Low	Enhancement	Mark, Donna, Justin	Donna defines definitions, Mark implements in ATC menus, Justin in GUI menus
30	29	GUI mod 18	Mark	04/26/11	GUI	Actuated Trigger Times not saved in Previous Settings file	Closed	Medium	Bug	Justin	
31	30	GUI mod 19	Mark	04/28/11	GUI	Debug Level Setting not sent after being restored from Previous Settings file. It is sent as 0 unless the drop down is reselected. Should be sent as old value.	Closed	High	Bug	Justin	
32	31	GUI mod 20	Mark	04/28/11	GUI	YC and RC swapped when restored from Previous Settings file.	Closed	High	Bug	Justin	
33	32	Windows Version	Mark	05/06/11	SCOPE	We could easily port our Host Linux Version of SCOPE to Windows.	On Hold	Low	Enhancement	Mark	
34	33	Auto Tester	Mark	05/06/11	NEW	We could build an automated regression tester that runs previous_settings.properties files and checks output logs for MISCOMPARES.	On Hold	Low	Enhancement	Justin	
35	34	ATC API Time	Mark	05/10/11	SCOPE	ATC API was not available. To use as little of the vendor's libraries as possible, software real-time timer was used. Could make use of hardware timers for a little more accuracy.	Closed	Medium	Enhancement	Mark	No need to make use of the timers directly. There was a bug in the secondary software that caused system time to be slightly modified. Secondary software should not touch the system time and no longer does.
36	34	Streaming Debug	Mark	06/11/11	SCOPE	Data recording is now streamed to memory as the default. This is because it takes too long to write debug data to flash. Hitting the stop - dump debug button on the GUI will now dump the debug data to a file.	Closed	High	Enhancement	Mark	
37	35	Streaming Debug	Mark	06/11/11	SCOPE	Data recording is now streamed to memory as the default. The label on the GUI needs to be changed from "Once" to Stop - Dump Debug. If the code has "once", change it to "stop"	Closed	High	Enhancement	Donna (Java GUI, Droid)	DROID DONE.
38	36	Pedestrian Calls and Preemption	Mark	10/27/11	SCOPE	Add GUI and pri/sec interfaces for Pedestrian calls and preemption. Add logic into SCOPE for pedestrian calls.	Closed	High	Enhancement	Donna (Droid,Java GUI, Sec) Mark(ATC, Pri)	Same type of interface as actuators.
39	37	Train Preemption Logic	Mark	10/27/11	SCOPE	Train Preemption was in the Phase 1 prototype. It was not added back in when we started from scratch in Phase II	Open	Medium	Enhancement	Donna (Sec) Mark(Pri)	
40	38	Parameter Limiting	Donna	10/27/11	SCOPE	Limit input parameters according to the NEMA specifications.	Open	Medium	Enhancement	Donna (Android) Mark(Java GUI)	Function Range, Seconds Increments,Seconds Min Green 1-255 1 Passage Time 0-25.5 0.1 Maximum 1 1-255 1 Maximum 2 1-255 1 Yellow Change 3-25.5 0.1 Red Clearance 0-25.5 0.1 Walk 0-255 1 Pedestrian Clearance 0-255 1 Added Initial 0-25.5 per Actuation Time to Reduce 1-255 1 Time Before Reduction 1-255 1 Minimum Gap 0-25.5 0.1 Zero shall be satisfied by any time between zero and 100 milliseconds.
41	39	Zero Time Problem	Mark	10/28/11	SCOPE	Zero time in a Phase causes ITS output to occur once	Closed	High	Bug	Mark (Field IO)	