

Attachment F – Unresolved Discrepancy Reports

All open SIMSS Discrepancy Reports (DRs) are listed in the following table. These consist of DRs that remain open from Release 1.0 (through 135), Release 2.0 (149 through 210), Release 3.0 (211 to 261), Release 4.0 (262 to 310), Release 4.1 (311 to 314), and Release 4.2 (315 to 324). The table includes the DR Number, Description, and Severity.

Summary of Open Discrepancy Reports

High	Medium	Low	Total
1	26	19	46

DR	Description	Severity
100	Some modules disappear, others don't when client disconnects from server.	Low
135	Multiple projects need to be supported.	Low
150	We are losing HANDLES and THREADs after we remove modules from the Project. Two threads are typical.	Medium
152	GenericTLM, OutputIP, TestModule are not supporting Directives but in the latest build GUI flag was set to TRUE.	Low
153	(OutputIP, TestModule) Modules are not cleaning up opened windows after Project is closed.	Low
211	A text floating point number prefixed by a 0 (e.g., 0.125) is not correctly converted into an RmmContainerNumeric<float>, though without the prefix (“.125”).	Medium
215	SerialInput status window should not show "Lock" or "Search" when the project is stopped.	Medium
219	(TXFile): Unable to lock on data when the Interval in the TXFile module is less than 10 msec. This problem occurs with data either from CD or hard drive - (IT-DR1)	Medium
232	Reverse Order did not work for a large size file. This needs to be redone, i.e. file reversal should be done prior to transmission – Regression Test R15.5: TXFile Module: Reverse Order.	Medium
236	CmdXmit: Save/Restore command files at all levels failed - R3 Item Test I18.4.	Medium
237	CmdXmit: Build and transmit CCSDS command blocks failed - R3 Item Test I18.5.	Medium
238	Stripper to Serial Interface: current configuration not working - R3 Item Test I123.2.	Medium
241	At 1Mbts with a frame size of 200 bytes, a drop approximately every 1000 frames. At 800 bytes per frame, a drop approximately every 600 frames. This appears to be a handshaking issue? and/or the TDMGen is not responding quickly enough? - (IT-DR4).	Medium
243	(GenTlm): The genericlmbd.txt was modified. The only way to make the system recognize the change was to remove the GenTlm module from the project and reinsert it (IT-DR6).	Medium
244	(GenTlm): The users guide does not explain how to change data as per Requirement TG1.1.4c. We were unable to find any reference to how to do this. Also, an application error (memory referenced can not be read) occurred when the system is taken from run to stop - (IT-DR7). (Note: DR was rejected because the developer cannot reproduce the defect; the TG1.1.4c requirement is not implemented yet either).	Low
245	(GenTlm): Unable to transmit telemetry data over multiple channels. Requirement TG1.3.1 - (IT-DR8).	Low
246	(GenTlm): The only way to change parameters E & F is by modifying the text file, which requires to stop, removing the module and re-adding the module. Requirement TG1.1.4 states the user shall have the capability to change parameters. This requirement implies to include E & F - (IT-DR9).	Low

247	(GenTlm): Could not find any way to define whether to allow packets to be split or not to be split as per Requirement TG1.2.1 - (IT-DR10).	Low
248	(GenTlm): Could not find any reference to the Packet Splitting Flag in the User's Guide (Requirement TG1.2.3.c) - (IT-DR11).	Low
249	(CmdXmit) The virtual channel and the frame length appear to be reversed - (IT-DR12).	Medium
251	(CMDXMIT): After a Load CLTU function the values in the Edit Sel displays do not reflect the current values. The data is restored properly (IT-DR14).	Medium
252	(CMDXMIT): This module will not ingest raw command data. It does not process the data file into code blocks. Requirements CG1.3 and CG1.3.1 (IT-DR15).	Low
253	(CMDXMIT): We could not find a way to perform the CRC calculation. Requirement CG1.3.3 (IT-DR16).	Low
254	(CMDXMIT): This module will not perform these functions. As per our earlier discussions a new module will perform these functions. Requirements CG1.4, CG1.4.1, CG1.4.2 (IT-DR17).	Medium
255	(GenericCmdIngest): We were unable to display the information in Requirement CI1.8 without going to a getBuffer type-in. These functions should be available in a pop up window (IT-DR18) – Same as DR 222 (ST-R10.3)	Low
263	Certain arithmetic functions (asin, sin, tan, etc.) return incorrect results for some legal inputs. (Aura)	Medium
270	(AvtecInput) DR13-4: The Avtec input status display is lacking displays for items DT4.6 a, b, c, and v. Why DT4.6v is here does not make any sense. (R4IT-DR6)	Low
276	(SerialInput) DR14-5: Unable to receive data on the ICS B card. (R4IT-DR12).	Medium
280	(GenTlm) DR15-2: Until the fill VC's are implemented this module cannot be realistically be connected to a serial output module. The Fill VC's are required to maintain the contiguous data stream. (R4IT-DR16).	Medium
282	(GenTlm) DR15-4: Packet Sequence errors. We are seeing packet sequence errors. These seem to occur more when the packet size is larger than the virtual channel size. (R4IT-DR18).	Medium
286	(SerialInput) DR16-2: Serial Input requires the entire command, including post-amble, to come in before it is passed to the TDM Command Ingest module. This can cause long delays in command verification, especially when multiple commands are sent. This would cause telemetry verification failures. This needs to be redesigned to detect the preamble and spacecraft sync (barker code). It should then pass a defined number of bits (individual command length) to the command ingest module. The command ingest module should verify the commands. If it detects an error or it detects postamble, it should tell the serial input module to reset and start looking for preamble and sync. (R4IT-DR22).	High
292	(Serial Input & Output) using same ICS card for serial output and serial input caused crash at high rates. (R4ST-DR2).	Low
293	(SerialInput) could not get any serial input data detected on ICS board B. (R4ST-DR3).	Medium
294	(GenTlm) Channel 2 in GenTlm outputs one frame and quits when connected to serial output modules. (This DR could be linked to the existing DR, which has not been identified yet). (R4ST-DR4).	Low
304	(Monitor) DR20-1: The browse function in the Log Module Configuration menu does not allow you to switch to another drive. The file browse function must allow the user to access any drive attached to the system. (R4IT-DR32).	Medium
306	(TxFile) DR20-3: At end of playback the Transmit menu does not reflect that it has completed by changing the send button back to a mode that will accept input. (R4IT-DR34).	Low
308	(TxFile) DR20-5: Auto-Blocks Mode is not working. (R4IT-DR36).	Medium
309	(Monitor) NOTE 20-1: It would be helpful to the user if the buffer display addresses would default to decimal. The data should default to hex, but the address should be displayed in decimal (R4IT-EH1).	Low
310	(Encoding) DR26-1: The module does not properly CRC encode the data stream. There is a fix for this problem but has to be incorporated into this release (R4IT-DR37).	Medium

313	If GenTlm is not configured correctly to the ICS serialoutput module, the server will crash when stopping the project. (R4.1-ST1).	Medium
314	SIMSS modules can't be cleaned-up when the project disconnected if the project is restored from the previous save.	Low
320	The TlmMod module cannot receive packets from TDMCmdIngest and ModelInterface modules concurrently. The TlmMod module should be modified to receive the model data directly from the IPInput module.	Medium
321	The TlmMod module needs the capability to calculate CRC for use with TDM projects such as HOST, EUVE, UARS. A temporary work-around for HOST is in place and has been tested. A permanent solution would be having a generic CRC that TDMGen has implemented.	Medium
322	The mnemonic field in the TDM ASCII database should be increased to a maximum of 10 chars.	Medium
323	Apparently fixing DR 315 caused the intermediate variables, A thru Z, to become unavailable. Scenario scripts using these variables no longer work properly.	Low
324	When a module is removed from the project and another module added in its place, the reverse link is not cleaned-up. It causes up-link messages (e.g. 9002) to go to the deleted DLL and crashes server.	Medium