

**Test case ID:** EVA-TSCS-001.  
**Test case Name:** First Evaluation related with Firmware on SI  
**Goal:** Verify and validate that the requirements rel

Steps:	
#	Action
1	Turn-On and -Off the unit three times
2	Open Serial Terminal at and set it to 110 baud rate. Send Init Command
3	Open Serial terminal at 921600 baudrate. Send Init Command
4	Similar to steps 2 and 3, repeat with some specific field related to UART protocol like different stop bits, parity and data bits in the payload.
5	Configure the Serial Terminal with the communication parameters defined by developer. Send a batch of multiple commands without delays.
6	On Serial Terminal send the command specified by the SPARC protocol to prepare the DUT to receive commands but send an invalid command.
7	Send a valid command

8	Repeat step 6
9	Send the SPARC a command to execute a Touch/Press screen.
10	Send command to execute movement on X
11	Send command to execute movement on Y
12	Execute multiple movements on Y that go beyond the limits of the work area.
13	Execute multiple movements on X that go beyond the limits of the work area.
14	Execute a Slide screen command.

#	Action
<b>Inputs:</b>	
<b>Pre-Conditions:</b>	TeraTerm/RealTerm or any serial terminal that allows the tester to freely select any baud rate, stop bits, payload, bit parity and configurations.
<b>Post-Conditions:</b>	
<b>Date Created:</b>	<b>04-dic</b>
<b>Date Executed:</b>	<b>05-dic</b>
<b>Tags:</b>	
<b>Comments:</b>	



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lated to Serial communication and Control on SPARC firmware are correct according

Expected Result	Notes
The unit can support power lost without problems	Wait at least 10 seconds between reboots
Device Under test must not reset or break serial communication	The Designer should specify baudrate and be prepared to withstand errors and maintain a robust control when communication protocol is not started. If no baudrate is specified in the manual, then it should be assumed the SPARC will work with any baud rate.
Device Under test must not reset or break serial communication	The developer must specify baudrate and prepare the SPARC firmware to robust error control when communication protocol is not started. If not baudrate then should be work with any velocity
Device Under test must not reset or break serial communication	The designer should specify the configuration for their protocol and develop SPARC firmware to be prepared to control exceptions.
Device Under Test must be able to detect invalid commands and not crash.	
Device Under Test able to detect void/invalid commands	
Device Under Test (DUT) executes the specified command	If team requiments specify an acknowledge from commands, verify in terminal that they are sent.

DUT should clear buffer of inputs/outputs (E.g. should not repeat the previous command)

DUT able to do Touch/Press screen.

DUT able to move on X

Reviewer: Take the velocity of movement and compare with the Teams requirement  
If team requirements specify an acknowledge from commands, verify in terminal that they are sent.

DUT able to move on Y

Reviewer: Take the velocity of movement and compare with the Teams requirement  
If team requirements specify an acknowledge from commands, verify in terminal that they are sent.

DUT able to detect limit on Y and stop operation.

DUT able to detect limit on X and stop operation.

DUT able to execute Slide movements

Reviewer: Verify if team under revision has the Slide Screen Command requirement defined.  
If team requirements specify an acknowledge from commands, verify in terminal that they are sent.

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**Expected Result**

**Notes**

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ding to Product Specifications and Requirements.

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**Result**

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Success

SPARC support power lost without problems

Success

SPARC doesn't reset and serial  
communication doesn't break

Success

SPARC doesn't reset and serial  
communication doesn't break

Success

SPARC doesn't reset and serial  
communication doesn't break

Failure

SPARC crashes

**Result**

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