IGST 4_2 Test Description

Context

IGST 4_2 are tests run at MOC (ESA Darmstadt) on May 15th 2018, in order to test sequences of:

- Switch-on
- Ping.
- exercise the different modes and changes between them (test the state model in the ORCD),
- · dump with S6 of one of the instrument memories,
- Switch-off.

The datapack which contains the procedure, sequences and the timeline of the plan is given in RPW IGST page.

Tests have ben run by:

- S. Lodiot (MOC)
- D. Bérard (ROC)
- A. Vecchio (ROC)

Test environnement

IGST 4_2 tests have been run on MEB EM2 with IDB 4.3.3.

Sequences used during the tests were send to MOC weeks before and were available for IGST test.

A slot of two hours were dedicated to RPW tests, during which each sequence was send manually. Between two sequences, TM parameters were checked manually.

For information, here is the document that details the actions run during IGST 4_2 for every instrument.



Results

Table below gives the timeline of the tests, and corresponding comments.

Sequence number	Purpose	OK /NOK	Comments
AIWF011A	OFF SAFE	NOK	More time has to be left before time synchronisation
AIWF370A	Ping	ОК	
AIWF030A	SAFE STANDBY	ОК	
AIWF031A	STANDBY SERVICE	ОК	
AIWF032A	Configure HK period	ОК	
AIWF032B	Load DPU and DAS common parameters	OK	

AIWF032C	Load DPU and DAS power parameters	OK											
AIWF032E	Configure parameters for monitoring temperature	OK											
AIWF032F	Configure Waveform parameters	ОК											
AIWF032G	Configure SBM1 parameters	ОК											
AIWF032H	Configure SBM2 parameters	OK											
AIWF032I	Configure SC potential computation algorithm	ОК											
AIWF032J	Clear HK counter	ОК											
AIWF032K	Enable HK parameter report generation	ОК											
AIWF037A	Config THR for Normal	ОК											
AIWF037B	Config THR for Burst	ОК											
AIWF037C	Config THR calibration parameters	NOK		This	s TC wa	s not executed v	vhatever the mome	ent during the	test. The error see	ms to be in the stru	cture of the TC its	elf.	
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AIWF038A	Config TDS common param	ОК											
AIWF038A	common	ОК											
	common param Config TDS												
AIWF038E	common param Config TDS for Normal	ОК											
AIWF038E	common param Config TDS for Normal Config TDS for SBM1 Config TDS	ОК											
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AIWF035A	SCIENCE BURST SCIENCE NORMAL	ОК	
AIWF035C	SCIENCE NORMAL SB M DETECTION	ОК	
AIWF035A	SBM DETECTION SCIENCE NORMAL	ОК	
AIWF043A	SCIENCE NORMAL SERVICE	OK	
AIWF044A	SERVICE S CIENCE BACK UP	ОК	
AIWF043A	SCIENCE BACK UP SERVICE	OK	
AIWF045A	SERVICE STANDBY	ОК	
AIWF043A	STANDBY SERVICE	OK	
AIWF042A	Switch on the converter (CONV)	OK	
AIWF042B	BOOT LFR	ОК	
AIWF042C AIWF042D	Boot THR Boot TDS	OK OK	
AIWF042D	Switch ON	OK	
AIWF037A	BIAS Config THR	ОК	
AIWF037B	for Normal Config THR	ОК	
	for Burst		
AIWF037C	Config THR calibration	NOK	This TC was not executed whatever the moment during the test. The error seems to be in the structure of the TC itself.
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AIWF031A	STANDBY SERVICE	ОК										
AIWF037A	Config THR for Normal	ОК										
AIWF037B	Config THR for Burst	OK										
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AIWF038B	Config TDS for SBM1	OK										
AIWF038C	Config TDS for SBM2	ОК										
AIWF038D	Config TDS LFM	ОК										
AIWF038F	Config TDS for Burst	ОК										
AIWF039A	Config LFR for SBM1	ОК										
AIWF039B	Config LFR for SBM2	OK										
AIWF039C	Config LFR common param	OK										
AIWF039D	Config LFR for Normal	ОК										
AIWF039E	Config LFR for Burst	ОК										
AIFW034A	Dump TDS, LFR,THR parameters	OK										
AIWF044A	SERVICE S CIENCE BACK UP	OK										
AIWF045A	SCIENCE BACK UP STANDBY	OK										
AIWF031A	STANDBY SERVICE	ОК										
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AIWF038F	Config TDS for Burst	ОК										
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AIWF039B	Config LFR for SBM2	OK										
AIWF039C	Config LFR common param	OK										
AIWF039D	Config LFR for Normal	OK										
AIWF039E	Config LFR for Burst	OK										
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AIWF035C	SERVICE SBM DETECTION	ОК										
AIWF045A	SBM DETECTION STANDBY	OK										
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AIWF045A	SCIENCE BURST STANDBY	OK	
AIWF043A	STANDBY SERVICE	OK	
AIWF261A	Patch MEMORY	ОК	
AIWF260A	Dump memory	OK	
AIWF046A	SERVICE SAFE	ОК	
AIWF001A	SAFE OFF	ОК	

Test results

Test report

Report from MOC and related data are available in SOL-176_AR_attachments.zip

Test anomalies

Thus the only problem is with the loading of calibration parameters for TNR-HFR. ROC team will investigate it.

See

⚠ ROCOPE-171 - Jira project doesn't exist or you don't have permission to view