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.

Detailed Test plan.pdf

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	OK	
AIWF030A	SAFE STANDBY	OK	
AIWF031A	STANDBY SERVICE	OK	
AIWF032A	Configure HK period	OK	
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	OK	
AIWF032G	Configure SBM1 parameters	OK	
AIWF032H	Configure SBM2 parameters	OK	
AIWF032I	Configure SC potential computation algorithm	OK	
AIWF032J	Clear HK counter	OK	
AIWF032K	Enable HK parameter report generation	OK	
AIWF037A	Config THR for Normal	OK	
AIWF037B	Config THR for Burst	OK	
AIWF037C	Config THR calibration parameters	NOK	This TC was not executed whatever the moment during the test. The error seems to be in the structure of the TC itself.

key	summary	type	created	updated	due	assignee	reporter	priority	status	

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AIWF038A	Config TDS common param	OK	
AIWF038E	Config TDS for Normal	OK	
AIWF038B	Config TDS for SBM1	OK	
AIWF038C	Config TDS for SBM2	OK	
AIWF038D	Config TDS LFM	OK	
AIWF038F	Config TDS for Burst	OK	
AIWF039A	Config LFR for SBM1	OK	
AIWF039B	Config LFR for SBM2	OK	
AIWF039C	Config LFR common param	OK	
AIWF039D	Config LFR for Normal	OK	
AIWF039E	Config LFR for Burst	OK	
AIFW034A	Dump TDS, LFR,THR parameters	OK	
AIWF035A	SERVICE SCIENCE NORMAL	OK	
AIWF035B	SCIENCE NORMAL SCIENCE BURST	OK	
AIWF035C	SCIENCE BURST SBM DETECTION	OK	
AIWF043A	SBM DETECTION SERVICE	OK	

AIWF035C	SERVICE SBM DETECTION	OK	
AIWF035B	SBM DETECTION SCIENCE BURST	OK	
AIWF035A	SCIENCE BURST SCIENCE NORMAL	OK	
AIWF035C	SCIENCE NORMAL SBM DETECTION	OK	
AIWF035A	SBM DETECTION SCIENCE NORMAL	OK	
AIWF043A	SCIENCE NORMAL SERVICE	OK	
AIWF044A	SERVICE SCIENCE BACK UP	OK	
AIWF043A	SCIENCE BACK UP SERVICE	OK	
AIWF045A	SERVICE STANDBY	OK	
AIWF043A	STANDBY SERVICE	OK	
AIWF042A	Switch on the converter (CONV)	OK	
AIWF042B	BOOT LFR	OK	
AIWF042C	Boot THR	OK	
AIWF042D	Boot TDS	OK	
AIWF042E	Switch ON BIAS	OK	
AIWF037A	Config THR for Normal	OK	
AIWF037B	Config THR for Burst	OK	
AIWF037C	Config THR calibration parameters	NOK	This TC was not executed whatever the moment during the test. The error seems to be in the structure of the TC itself.
AIWF038A	Config TDS common param	OK	
AIWF038E	Config TDS for Normal	OK	
AIWF038B	Config TDS for SBM1	OK	
AIWF038C	Config TDS for SBM2	OK	
AIWF038D	Config TDS LFM	OK	
AIWF038F	Config TDS for Burst	OK	
AIWF039A	Config LFR for SBM1	OK	
AIWF039B	Config LFR for SBM2	OK	
AIWF039C	Config LFR common param	OK	
AIWF039D	Config LFR for Normal	OK	
AIWF039E	Config LFR for Burst	OK	
AIFW034A	Dump TDS, LFR,THR parameters	OK	

For the AIWF037C row, additional content:

key · **summary** · **type** · **created** · **updated** · **due** · **assignee** · **reporter** · **priority** · **status**

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AIWF035A	SERVICE SCIENCE NORMAL	OK	
AIWF045A	SCIENCE NORMAL STANDBY	OK	
AIWF031A	STANDBY SERVICE	OK	
AIWF037A	Config THR for Normal	OK	
AIWF037B	Config THR for Burst	OK	
AIWF037C	Config THR calibration parameters	NOK	This TC was not executed whatever the moment during the test. The error seems to be in the structure of the TC itself. key summary type created updated due assignee reporter priority status ⚠ Jira project doesn't exist or you don't have permission to view it. View these issues in Jira
AIWF038A	Config TDS common param	OK	
AIWF038E	Config TDS for Normal	OK	
AIWF038B	Config TDS for SBM1	OK	
AIWF038C	Config TDS for SBM2	OK	
AIWF038D	Config TDS LFM	OK	
AIWF038F	Config TDS for Burst	OK	
AIWF039A	Config LFR for SBM1	OK	
AIWF039B	Config LFR for SBM2	OK	
AIWF039C	Config LFR common param	OK	
AIWF039D	Config LFR for Normal	OK	
AIWF039E	Config LFR for Burst	OK	
AIFW034A	Dump TDS, LFR,THR parameters	OK	
AIWF044A	SERVICE SCIENCE BACK UP	OK	
AIWF045A	SCIENCE BACK UP STANDBY	OK	
AIWF031A	STANDBY SERVICE	OK	
AIWF037A	Config THR for Normal	OK	
AIWF037B	Config THR for Burst	OK	
AIWF037C	Config THR calibration parameters	NOK	This TC was not executed whatever the moment during the test. The error seems to be in the structure of the TC itself. key summary type created updated due assignee reporter priority status ⚠ Jira project doesn't exist or you don't have permission to view it. View these issues in Jira
AIWF038A	Config TDS common param	OK	

AIWF038E	Config TDS for Normal	OK	
AIWF038B	Config TDS for SBM1	OK	
AIWF038C	Config TDS for SBM2	OK	
AIWF038D	Config TDS LFM	OK	
AIWF038F	Config TDS for Burst	OK	
AIWF039A	Config LFR for SBM1	OK	
AIWF039B	Config LFR for SBM2	OK	
AIWF039C	Config LFR common param	OK	
AIWF039D	Config LFR for Normal	OK	
AIWF039E	Config LFR for Burst	OK	
AIFW034A	Dump TDS, LFR,THR parameters	OK	
AIWF035C	SERVICE SBM DETECTION	OK	
AIWF045A	SBM DETECTION STANDBY	OK	
AIWF031A	STANDBY SERVICE	OK	
AIWF037A	Config THR for Normal	OK	
AIWF037B	Config THR for Burst	OK	
AIWF037C	Config THR calibration parameters	NOK	This TC was not executed whatever the moment during the test. The error seems to be in the structure of the TC itself.
AIWF038A	Config TDS common param	OK	
AIWF038E	Config TDS for Normal	OK	
AIWF038B	Config TDS for SBM1	OK	
AIWF038C	Config TDS for SBM2	OK	
AIWF038D	Config TDS LFM	OK	
AIWF038F	Config TDS for Burst	OK	
AIWF039A	Config LFR for SBM1	OK	
AIWF039B	Config LFR for SBM2	OK	
AIWF039C	Config LFR common param	OK	
AIWF039D	Config LFR for Normal	OK	
AIWF039E	Config LFR for Burst	OK	
AIFW034A	Dump TDS, LFR,THR parameters	OK	
AIWF035A	SERVICE SCIENCE NORMAL	OK	
AIWF035B	SCIENCE NORMAL SCIENCE BURST	OK	

For the AIWF037C row, the detail area contains a Jira issue table header:

key	summary	type	created	updated	due	assignee	reporter	priority	status

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AIWF045A	SCIENCE BURST STANDBY	OK	
AIWF043A	STANDBY SERVICE	OK	
AIWF261A	Patch MEMORY	OK	
AIWF260A	Dump memory	OK	
AIWF046A	SERVICE SAFE	OK	
AIWF001A	SAFE OFF	OK	

Test results

Test report

Report from MOC and related data are availaible 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 it.