XMM-Newton and INTEGRAL weekly Mission Operations Report

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Issue 1

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1. Weekly report

	XMM	**Integral**
Main activities	▪ Nominal Operations ▪ Eclipse season ▪ Testing of NIS delivery ▪ Preparation of replenishing / migration simulation	▪ Nominal Science Operations
Status and performance of S/C	▪ Nominal for platform and all instruments	▪ Nominal for platform and payload.
Status and performance of Ground segment	▪ Nominal	▪ On-going occasional RFI at all stations, some sources identified. Coordination with SMOS has eliminated many instances.
S/C Anomalies	▪ None	▪ INT_SC-535 SPDU HLCL 5B2 (P1152) opened due to SEU
G/S Anomalies	▪ XMM-1301 EXIF task crashed, MCCM did not recognise	▪ INT-3634 Slew update failure due to RW speed inconsistencies
Future activities planned	▪ Replenishing / Migration SIM in November ▪ MCS release planned for October has been delayed (pending test of bug fix in MCS 12.0.2) ▪ Acceptance test of EPOS translator ▪ Scheduling of back-up stations in preparation for Galileo LEOP (11 days starting 17/11)	▪ Automation of some repetitive tasks and two JEM-X CRPs ▪ Investigation of RWL Low Speed operations to save propellant

2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

2016-10-10 08:18:29 (284)	Eclipse 8/28
2016-10-10 10:54:00 (284)	OOL "TSW STA OM2RA" SSC FAIL Value=CLOSE TC:T1030 "TW OM2 RA OFF" Uplinked. But ,the X-Ref is directing to a wrong procedure FCP_OPM_5001 "MODE CHANGE WITHIN A. ***This was identified as a problem with the paper copy on console and is since rectified.***
2016-10-12 08:11:51 (286)	Eclipse 9/28
2016-10-12 10:20:00 (286)	Failure of TC H7202 'LOAD DPUOS' due to un-know reasons
2016-10-12 10:27:00 (286)	OM OFF with ED HE0533
2016-10-12 10:28:00 (286)	FCP_OPM_0001 Fast OM switch on step 1 to 25
2016-10-12 11:39:00 (286)	OM Ramp Up HV started bit too early by a mistake. Aborted the Seq (only 2 TC's were released) and OM was sent to SAFE.
2016-10-12 11:39:00 (286)	Recovery will be started after 12.5Z (OM_START). IOE was consulted.
2016-10-14 08:05:09 (288)	Eclipse 10/28
2016-10-14 11:20:00 (288)	Failure of TC DU028 due to PTV fail. Impacts and recovery actions: as per eclipse procedure.
2016-10-14 11:27:00 (288)	FCP_DHS_7912 TCL Configuration after ECL
2016-10-14 11:33:00 (288)	FCP_DHS_7910 tcl Configuration for ECL step 1.n
2016-10-14 11:34:00 (288)	S/S 1 in T/L RE-ENABLED
2016-10-14 19:59:00 (288)	MOIS:X_TTAG_CHECK , Procedure Terminated with Error on Step 16.
2016-10-14 19:59:00 (288)	Manually Checked all the ECL TTC on OBQD in comparison to ECL TTC Sheet and found every expected TTC's are on board.
2016-10-15 00:45:00 (289)	MOIS:X_OM_DEL_TAG , Procedure Terminated with Error at step 3
2016-10-15 00:45:00 (289)	Hence manually Deleted OM TTC :H9001
2016-10-15 05:25:00 (289)	MOIS: END of X_TTAG_CHECK with ERROR on Step 16 The TTAG G0552 (RGS1-Mode Configure) with exec. time 2016.290.05.30.42 was not found on board. SPACON verified that all expected TTAGs are on board. SPACON launched manually the MOIS procedure X_TTAG_CHECK. It was verified that after checking the TTAG G0552, MOIS fails before checking any other TTAG and the procedure is interrupted. SPACON to manually check that all necessary TTAGs are on board.
2016-10-15 07:08:00 (289)	MOIS: SPACON noticed that X_FCP_AOC_0215 (SAS Reset) that should have started at 07.00 is marked as pending with a warning pop-up window indicating no permissions to continue. SPACON restarted completely MOIS and manually launched X_FCP_AOC_0215, which executed successfully.

2016-10-15 07:59:00 (289)	MOIS: END of X_TTAG_CHECK with ERROR on Step 16 (See previous log entries)
2016-10-15 10:58:00 (289)	MOIS:X_OM_DEL_TAG , Procedure Terminated with Error at step 3
2016-10-15 21:20:00 (289)	SYS: EXIF: SPACON noticed that TC Server 1/2/3 tasks crashed on XMCA/B
2016-10-15 21:20:00 (289)	Hence Re-stared all three tasks on XMCA & XMCB. ***See existing AR XMM-1301 EXIF task crashed, MCCM did not recognise***
2016-10-16 07:58:35 (290)	Eclipse 11/28

2.2. INTEGRAL

Monday 10/10/2016 (284)

23:39:45 --- OEM: "ACC AIMU ON" (Stored)
23:49:45 --- OEM: "ACC AIMU OFF" (Stored)

Tuesday 11/10/2016 (285)

03:39:00 --- AOCS: G.S lost during LOS, SPACON to uplink a manual CGS before upcoming RWB. SEQ: AESAM_00 uplinked & recovery tool started
03:49:00 --- Manual CGS 1735_0500_M.CGS
03:53:00 --- CRP_JEM2_5011 RECOVERY AFTER ECLIPSE ANOMALY CRC - F1B3, F074, CF9F
03:55:00 --- FCP_JEM2_9010 JEMX2 DFEE switch off
04:09:00 --- FCP_JEM2_0021 DFEE switch on

Wednesday 12/10/2016 (286)

02:04:00 --- OOL P1152 'S HLCL 5B2 STA' SCC OOL (value= OPEN), as per x-ref. in case of unexpected switch ON/OFF, return to original state using FCP_EPS_1415.
02:10:00 --- FCP_EPS_1415 SVM PDU-B Board 5 LCL2 ON/OFF

Thursday 13/10/2016 (287)

Nothing to report

Friday 14/10/2016 (288)

22:02:00 --- FCP_DHS_1235/1220 - Report & Reset OBM , executed by MOIS

Saturday 15/10/2016 (289)

02:12:00 --- FCP_AOC_0540 - AOCS Daily Maintenance ,executed by MOIS
22:03:00 --- FCP_DHS_1235/1220 - Report & Reset OBM ,executed by MOIS

Sunday 16/10/2016 (290)

01:34:00 --- FCP_AOC_0540 - AOCS Daily Maintenance , executed by MOIS