XMM-Newton and INTEGRAL weekly Mission Operations Report

XMM-INT-WOPS-24_03-04

Issue 1

Date: 31 January 2024

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1. Weekly report

	XMM	**Integral**
Main activities	▪ Nominal Operations ▪ Lela roll out on S7 ▪ Manual spacecraft recovery without propellant procedures ▪ CDMU recovery automation ▪ NSM on board ▪ XMM d2.3 simulator release ▪ Automation of Replenishment ▪ F/D automation	▪ Routine science operations
Status and performance of S/C	▪ Nominal for platform and all instruments	▪ Manual transponder swaps following RF switch anomaly
Status and performance of Ground segment	▪ Nominal, apart from some issues with TOL and AGO currently red due to degraded performance of the SSPA	▪ Nominal
S/C Anomalies	▪ None	▪ None
G/S Anomalies	▪ XMM-1560: XNISA Unresponsive	▪ INT-3931 TM & TC drop at KI1 due to cable unwrap not performed
Future activities planned	▪ DABYS D/B implementation kick off Feb. 7 ▪ NSM via MOIS ▪ Webserver and NRT Analysis/Monitoring migration	▪ Automation of Transponder swap operations ▪ Automation of ground station operations (EVFM) ▪ Battery Reconditioning planned to start 7th Feb 2024

2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 16/01/2024 (016) 09:16:29: X_GS_HANDOVER: END of procedure with errors. MOIS was unable to connect links to KRU on NIS-A, Manual attempt to open links on NIS-A also failed
- 17/01/2024 (017) 01:41:31: OOL M5012SA. WF Super alarm. S/Ss MOS1 & 2, PN, RGS1 & 2 disabled in a/s
- 19/01/2024 (019) 01:33:29: OOL M5012SA. WF Super Alarm. All instruments except OM disabled from a/s. TM Constant MCOOL1, set to 4 by system (as expected).
- 20/01/2024 (020) 00:40:00: TNOC operator states they have no pass scheduled for us, but they are now checking weather the station is available, and if so will configure it.
- 23/01/2024 (023) 14:04:54: Estrack had problems contacting TNOC.
- 24/01/2024 (024) 17:41:58: OOL AD175 Wheel-1 TRQ CAGE. HIGH/HIGH. Val, 10.44mNm. Limit 10. Wheel speed -1300rpm.

2.2. INTEGRAL

19/01/2024 (019)
16:23:02 TM drop KIR chain 1+2. Call estrack who cannot see any problems. Ask them to check the datalines. They can see there is a drop in data flowing on the data lines from KIR ***(see AR-INT-3931)***
17:05:39 No mouse control on FD workstation. Estrack open cabinet and reset keyboard switch ok
20/01/2024 (020)
00:44:21 Spacon noticed both transmitters are switched on. Check in TC-History reveals that time tags for wrong transmitter (TX2) were uploaded in previous revolution from autostack.
01:02:20 switched of TX2
01:51:19 TTCs for wrong transmitter (TX2) uploaded from T/L
02:28:30 Deleted TTCs for TX2 and uplinked TTCs for TX1 using same execution time.
26/01/2024 (026)
10:55:00 Fast TOO request received Start of FCP_MPS_0005 - Fast TOO Operations
11:09:30 T/L for rev 2736_01 stopped
13:04:54 Decision made to return to nominal TL SEQ: AESAM_00 uplinked & recovery tool started
13:08:39 CSL #27360028, 29, 30, 31 missed from timeline 11.57-13.31
13:10:01 TL 2736_01 loaded and despatched with AOCS, OMC, and OBDH disabled
13:23:45 FD produce 2736_0502_M.OSL (dog leg) – uplinked
14:18:14 FD produce 2736_0503_M.OSL (dog leg 2nd part) - uplinked. Slew did not finish in time for slew 0032 to go from autostack so spacon did an additional slew recovery (0032) and slew update of 0033
14:50:34 Manual slew 2736_0504_M.CSL from PID #27360031 to #27360032
15:03:33 FDS: TPF 2736_0505_A.OSL applied on A/S to update slew 27360033 spacecraft on target
27/01/2024 (027)
14:31:00 OOL: E0392 T CR COLDPLT L2, Soft High, 80.921 degK now stable OOL as per X-ref: calling on-call SOE
14:35:30 FCP_SPI1_2504 CDE1&2: STROKE INCREASE/DECREASE (CDE1 Master) increased stroke by one LSB to 40 under SOE guidance