European Space Agency

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	▪ Nominal Science Operations
Status and performance of S/C	▪ Nominal for platform and all instruments	▪ Nominal for platform and payload ▪ ToO V404 Cyg Rev 16128 / 1629, started 31st December
Status and performance of Ground segment	▪ Nominal	▪ On-going occasional RFI at all stations, some sources identified.
S/C Anomalies	▪ None	▪ INT_SC-504 IBIS PICSIT PDM4 latch-up
G/S Anomalies	▪ None	▪ None
Future activities planned	▪ Orbit maintenance planned for January with double reaction wheel biases ▪ NIS has been delivered by infrastructure and will be tested by CGI in January	▪ Automation of some repetitive tasks. ▪ Investigation of RWL Low Speed operations to save propellant.

2. Detailed weekly operational events

note: all times are Zulu

2.1. XMM

- 2015-12-21 19:40:00 (355): SYS: xltb "red" on MCCM due to low disk space
- 2015-12-22 11:25:00 (356): SWS, segmented xltb archive to new disk space, since lts4 was low on space. Restarted xltb HFA_TM due to memory corruption. Modified xltb/lts4 disk size limit on MCCM to make machine green. Added s2k_MASCHINE_TYPE environment variable to xcla3 to fix problem with MCCM disk space reading. All 4 instances of HFA_TM restarted on servers. (Norbert)
- 2015-12-25 01:02:00 (359): MOIS: SpaCon noticed that Automation injects SAS RESET Command ,TC:A7213 twice with same release time. Hence SpaCon stopped MOIS Schedular and SAS RESET will be executed manually.
    - 2015-12-25 09:30:00 (359): MOIS: SPACON at this time tried to restart the MOIS twice with no success. MOIS scheduler seems to have some problem starting up (after startup, scheduler icon on the taskbar can be seen but no scheduler window is appearing on desktop). SPACON closed MOIS again and informed SOE on call (N.P). For the time being SAS reset is being done manually.
- 2015-12-26 00:32:00 (360): Loss of tm from ago, with continued problems → change GS to KRU
    - 2015-12-26 02:51:00 (360): Estrack inform spacon that the RF mute will execute halfway through the planned antenna swap at 03:30z. Because we not on AGO but on KRU the spacon decides that the RF s/s will be disabled in order to prevent this. The ANT swaps scheduled therefore at 03:30 and 05:26 will not execute from the timeline. We will go into LOS on ANT2 and come out at AOS also on ANT2 as per predicted timeline 2939. The RF tt cmd can be uplinked manually once the cmds for the swap at 05:26 have taken place. Because we have at the moment duel ant coverage this gives FD more time due to no resweep carried out to better progress with the attitude recovery
    - 2015-12-26 03:07:00 (360): FD inform that the rwb which was missed close to los cannot be safley recovered before EOT at KRU. This will need to be done ASAP at AOS to avoid triggering AMD.
    - 2015-12-26 06:20:00 (360): Manual RWO (2939_51_M.RWO) executed, provided by FD support (A.M). With this wheel profile is rejoined again and no further AOCS recovery is needed. Next AOCS activity is OSL from T/L @ 360.08.39.16.
- 2015-12-26 09:35:35 (360): OOL A5108 'ERROR STATUS' status (value= ERROR). Preceding SSTs (after CSL) failed. Tracking 1 star only.
    - 2015-12-26 09:40:00 (360): CRP_AOC_4018 STR ERROR STATUS OOL. SPACON uplinked STR Search/Track 2939_01-04_M.SST with success. Tracking 4 stars now.
- 2015-12-31 21:41:00 (365): OOL P1112 'LCL STA IMU1' status (value= CLOSE) + Repex: 140044 AUTO IMU ON
- 2015-12-31 21:51:01 (365): FCP_AOC_0106 STR-A Mapping + XMM_SPA_0010 XMM-Newton SPACON recover-schedule tool
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2.2. INTEGRAL

2015-12-21 (355)
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2015-12-22 (356)
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2015-12-23 (357)
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2015-12-24 (358)
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2015-12-25 (359)
05:09:29 OEM: "ACC AIMU ON"
05:25:00 FDS: TPF 1625_0500_A.OSL applied on A/S to update slew 16250057
05:34:00 PID # 16250056 interrupted due to IMU on
05:41:27 OEM: "ACC AIMU ON", PID # 16250057 interrupted due to IMU on
06:01:00 FDS: TPF 1625_0501_A.OSL applied on A/S to update slew 16250058
11:50:00 OEM: "ACC AIMU ON", PID # 16250063 interrupted due to IMU on
12:07:00 FDS: TPF 1625_0502_A.OSL applied on A/S to update slew 16250064

2015-12-26 (360)
03:43:00 Error messages concerning connection to ISDS and discarded packets
04:01:00 SPACON restarts the TMDS_RT task on IMCA_NEW, link isds-isdc now connected.

2015-12-27 (361)
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2015-12-28 (362)
23:33:00 Guide star lost during perigee. Manual CGS 1627_0500_M.CGS
2015-12-29 (363)
20:16:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source SMOS

2015-12-30 (364)
01:10:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source unknown

2015-12-31 (365)
13:50:00 Guide Star lost during perigee (3x), 1627_0061_A.CGS-INT_SPACON Uplinked
22:15:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source unknown

2016-01-01 (001)
14:39:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source BEIDOU M6
20:00:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source SMOS

2016-01-02 (002)
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2016-01-03 (003)
04:44:00 Guide Star lost during perigee, 1629_0500_M.CGS-INT_SPACON Uplinked
23:34:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source unknown

2016-01-04 (004)
03:45:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source BEIDOU IGSO1
06:50:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source BEIDOU M6
07:05:00 TPF update failed for Slew #16290030, due toTM drop at 06.50
07:12:00 FDS: TPF 1629_0501_A.OSL applied on A/S to update slew 16290030
19:44:00 Data gaps on VC-0 & VC-7 from G/S: KIR RFI, source SMOS

2016-01-05 (005)
01:13:00 Oem, exception, ibis1 picsit latched up module notification

01:28:00	FCP_IBIS1_0313 to standby
01:49:00	FCP_IBIS1_0321 PDM4 off
01:56:00	FCP_IBIS1_0106 PDM4 activation, step 3.3 only
01:58:00	FCP_IBIS1_0083 PDMs enabling by dynamic default, to turn on PDM4
02:13:00	seq, GESTAN02 uplinked with paras taken from APF, IBIS is enabled