

***XMM-Newton and INTEGRAL weekly
Mission Operations Report***

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Issue 1

Date: 23 November 2017

Marcus Kirsch
OPS-OAX

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ESOC	Rolf Densing		Danielle Heinzer
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	Marko Butkovic	Martin Unal	
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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal operations ▪ SPACON merger activities: entering validation testing ▪ ODB V7.0.2 operational ▪ Simulator porting 	<ul style="list-style-type: none"> ▪ Nominal Science Operations ▪ Lunar Eclipse ▪ RWL Low Speed operations to save propellant
Status and performance of S/C	<ul style="list-style-type: none"> ▪ Nominal for platform and all instruments 	<ul style="list-style-type: none"> ▪ Nominal for platform and payload
Status and performance of Ground segment	<ul style="list-style-type: none"> ▪ Nominal ▪ Cordoba G/S does not comply with the promised service requirements (uplink power too low) 	<ul style="list-style-type: none"> ▪ Nominal ▪ Ongoing occasional RFI at all stations, some sources identified
S/C Anomalies	<ul style="list-style-type: none"> ▪ XMM_SC-116: SST sequence failed to find a star (blemish pixel #2) 	<ul style="list-style-type: none"> ▪ IREM Crash : INT_SC_591 ▪ Kiruna Stops Tracking : IN_3680
G/S Anomalies	<ul style="list-style-type: none"> ▪ XMM-1348: Routine run of PDSclean generates PDSserTM ERRORS ▪ XMM-1349: No PN radiation shield after SCOS restart ▪ XMM-1350: Incorrect keyboard layout configuration for individual clients in SGD 	<ul style="list-style-type: none"> ▪ None
Future activities planned	<ul style="list-style-type: none"> ▪ CDMU table patch preparation for Migration 1-B 	<ul style="list-style-type: none"> ▪ Automation of some repetitive tasks.

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 017-11-09 12:10:00 (313): NIS: SPACON noticed NIS HCI disappeared from respective workstations for both 'xnisa' and 'xnisb'. Infomred SOE (TF).
- 2017-11-11 10:13:00 (315): Update fails for CSL 922830001
 - o 2017-11-11 10:15:00 (315): FCP_AOC_0106 STR-A Mapping XMM_SPA_0010 XMM-Newton SPACON recover-schedule tool
- 2017-11-11 15:14:00 (315): SOCL:Telemetry connection to SOC Closed @09.24.03
SOCL:Telemetry connection to SOC Established @09.29.30
SOCL:Telemetry connection to SOC Closed @15.11.46
SOCL:Telemetry connection to SOC Established @15.13.57
There is no information available to SpaCon regarding the reason for the above outage.
SpaCon assumed this was due to ESOC FW update.
- 2017-11-13 02:55:00 (317): NISA Disappeared from xcla2
Unable to re-start using right click menu. Both NIS HCI & Launcher failed to bring up NISA
 - o 2017-11-13 04:14:00 (317): After LOS SpaCon stop and re-start NISA using the following procedures XMM_SWS_0004 & XMM_SWS_0003 . No success ! Therefore swap the operations to NISB (XMCA<--->NISB) LELA (PC191) also connected to NISB
- 2017-11-13 07:42:01 (317): Massive EventLogger WARNING messages since AOS: Storage of packet failed (PDSserTM, xmca).Error message not included in the X-ref.
- 2017-11-15 03:44:00 (319): Spacon has restarted both xclb1+ xclb2 workstations, however they will not log in as either a B client or A client, The message on Modzilla reads that the connection is not trusted. Spacon will investigate a little further before calling on call.
 - o 2017-11-15 03:58:00 (319): xclb1+2 will still not log in to modzilla,xclb4 will log in to modzilla but the client will not start up? SOE is called
 - o 2017-11-15 04:35:00 (319): After assistance from the on call + CCC, Both clients are started and are able to be configured.
 - o 2017-11-15 04:46:00 (319): xclb1 is now correctly configured. Spacon has also found out why xclb2 will not log in to the desktop because when you type in the user name the keyboard enters completely different letters/symbols. This would explain earlier logging in problems. SWS should look at the keyboard.
- 2017-11-15 08:57:00 (319): SYS: SOC informed MOC that they are not receiving TM. Applied XMM_SWS_0007 Potential Problems with S2k step 3: disconnect and reconnect SOC link, no effect; restarted SOC Link task on XMCA, no effect; restarted tasks on both ends, also no effect. Called S/W support.
- 2017-11-17 08:20:00 (321): update for OSL failed. FD called ,Mapping commanded. S/S 1 in T/L DISABLED
 - o 2017-11-17 08:34:00 (321): FD generated manual Slew for the OSL
- 2017-11-18 05:15:00 (322): SPACON noticed that the NIS A HCI has crashed and is unable to open it again via the NIS Application Launcher
- 2017-11-20 08:15:00 (324): NIS: It was noticed that the "S2K admin link" and "S2K TC link" status are shown as 'disconnected', despite receiving good TM and having TC capability. The MCS link statuses are also not visible on the NIS. SOE has been informed (NK, UW)

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2.2. INTEGRAL

- 2017-11-08 14:42:00 (312) : IREM crash shortly after AOS. All instruments recovered by 17:26z
- 2017-11-08 23:09:00 (312) : ACC IMU ON: Slew interrupted and recovered by FD recovery tool.
- 2017-11-09 00:35:00 (313) : Top right screen on clinet icla2 flickering. Both screen and cable are replaced on DOY314.
- 2017-11-09 23:34:00 (313) : ACC IMU ON: Slew interrupted and recovered by FD recovery tool.
- 2017-11-10 06:18:00 (314) : High OOL on E0392 (SPI cold-plate). Spacon executes FCP_SPI_0074 to increase compressor stroke setting.
- 2017-11-11 05:55:00 (315) : TCO errors at AOS. Time correlator reset and messages cease.
- 2017-11-11 05:57:00 (315) : Guide Star lost during perigee. Spacon execute change of guide star procedure. TPF 1884_0500_M.CGS uplinked.
- 2017-11-13 06:33:00 (317) : Loss of TC&TM from Kiruna. Power glitch at station causes antenna to stop tracking momentarily (~10 secs). Servos recover autonomously and TC&TM back at 06:39z. Slew #0074 interrupted, recovered as standard via FDS by Spacon to slew #0075 at 07:00z
- 2017-11-14 00:00:00 (318) : Guide star lost during perigee passage. Spacon requests a mapping and recovered guide star by uplinking 1885_0500_M.CGS at 00:24z.
- 2017-11-15 13:07:00 (319) : OTF toggling during the slew PID #18850046 interrupted.
- 2017-11-16 13:40:00 (320) : Guide star lost during perigee passage. Spacon requests a mapping and recovered guide star by uplinking 1886_0500_M.CGS at 13.45z.
- 2017-11-18 22:46:00 (322) : Lunar Eclipse until 23:20z.
- 2017-11-19 05:17:00 (323) : Guide star lost during perigee passage. Spacon requests a mapping and recovered guide star by uplinking 1887_0500_M.CGS at 13.45z.