

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

Document No :XMM-INT-WOPS-18\_01-02  
Issue/Rev. No : 1  
Date 19/01/2018  
Page : 1

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**Issue 1**

**Date: 19 January 2018**

Marcus Kirsch  
OPS-OAX

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Document No :XMM-INT-WOPS-18\_01-02  
Issue/Rev. No : 1  
Date 19/01/2018  
Page : 2

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 Issue/Rev. No : 1  
 Date 19/01/2018  
 Page : 3

**1. Weekly report**

	<b>XMM</b>	<b>Integral</b>
Main activities	<ul style="list-style-type: none"> <li>▪ Nominal operations</li> <li>▪ SPACON merger activities</li> <li>▪ Simulator porting</li> <li>▪ CDMU table patch preparation for Migration 1-B</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal Science Operations</li> <li>▪ 2018-01-08: Installation of IMCS E5.1.1 on B-chain</li> </ul>
Status and performance of S/C	<ul style="list-style-type: none"> <li>▪ Nominal for platform and all instruments</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal for platform and payload</li> </ul>
Status and performance of Ground segment	<ul style="list-style-type: none"> <li>▪ Nominal</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal</li> <li>▪ Ongoing occasional RFI at all stations, some sources identified</li> </ul>
S/C Anomalies	<ul style="list-style-type: none"> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ None</li> </ul>
G/S Anomalies	<ul style="list-style-type: none"> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ None</li> </ul>
Future activities planned	<ul style="list-style-type: none"> <li>▪ NSO through zero implementation</li> <li>▪ LELA migration to MCS</li> <li>▪ SPACON Merger SW validation</li> <li>▪ Maspalomas station validation</li> <li>▪ ODB 7.1 Preparation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Automation of some repetitive tasks and CRPs.</li> <li>▪ Preparation of SPACON Team merger with Gaia</li> <li>▪ 2018-01-18: Installation of IMCS E5.1.1 on A- &amp; G-chain</li> <li>▪ Lunar eclipse on 2018/02/28</li> </ul>

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

Document No :XMM-INT-WOPS-18\_01-02  
Issue/Rev. No : 1  
Date 19/01/2018  
Page : 4

---

## **2. Detailed weekly operational events**

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

2018-01-08 11:30:00 (08) G/S: Lost on-board LOCK (carrier is down) from KRU. Consequently end of slew observation commanding failed for MOS1/2 & PN. S/S 3, 4, 5 disabled in T/L.

2018-01-08 11:40:00 (08) CRP\_EM1/2\_1500: Rejoin Timeline for MOS1/2

2018-01-10 11:45:30 (010) SYS: ECC warned about an anticipated power down during an unscheduled power maintenance (@12.20z) to multiple buildings including E, also power down on data center "Deneb".

2018-01-10 12:16:00 (010) OOL M5012 'WARNING FLAG' status (value= OFF/INIT) + MD030 'RM TM CORRUPTED' status (value= YES)

2018-01-10 12:17:00 (010) X\_CRP\_ERM\_0027 : An RM HW reset Occurred. SPACON manually inhibited recovery from automation system (by putting EXECUTE=NOGO) in anticipation of a power down announced by ECC. Recovery to be initiated again after power maintenance is complete.

2018-01-10 12:45:00 (010) SYS: XCLB2 frozen. Restart of client didn't help. XMC-B chain restarted by Analyst (DW).

2018-01-10 12:53:00 (010) SYS: ECC declared unscheduled power maintenance is complete. No power outage was observed during this time.

2018-01-10 12:55:00 (010) X\_CRP\_ERM\_0027 : SPACON manually started the recovery from automation system. S/S RM(6) in T/L disabled by MOIS.

2018-01-14 17:41:00 (014) FD machine failed to update CSL after OSL SPACON starting recovery

2018-01-14 17:57:00 (014) 3315\_50\_M.CSL uplinked

2018-01-14 19:29:00 (014) SPACON noticed subsystem 1 was still disabled after the CSL update issue earlier. (SPACON was covering Gaia Pass and missed re-enabling subsystem.) NSX has been missed, Flight dynamics informed he will come in.

2018-01-14 20:38:40 (014) FCP\_AOC\_4450: Manual NSX performed. Uplink of the following TPFs: 3315\_50\_M.AON (uplink time: 20.38.40, execution time: 21.10.31) 3315\_50\_M.NSX (uplink time: 20.39.40, execution time: 20.39.40) 3315\_50\_M.NSO (uplink time: 21.10.31, execution time: 21.10.31)

2018-01-14 22:23:00 (014) S/S 1 IN T/L RE-ENABLED (NSX completed & target wheel speeds nominal)

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

Document No :XMM-INT-WOPS-18\_01-02  
Issue/Rev. No : 1  
Date 19/01/2018  
Page : 5

---

### **2.2. INTEGRAL**

- 03/01/2018 (03)
  - o 02:46:00 High radiation environment before belt entry (belt entry at 03:06:57Z): TM: E3500 'P\_DF\_CNVT-BW\_L,1' H/H-OOL (value= 128907). No further action within RAD\_BELT +- 2 hours as per x.ref.
- 04/01/2018 (04)
  - o 23:09:57 IMU1 on
    - 23:22:00 Recovery tool started
    - 23:27:00 Next slew updated
- 06/01/2018 (06)
  - o 02:30:00 At start of rev. 1905: As soon as the spacon puts the TC link into the NCTRS then both the TC and TM link windows on both the ASTK and MSTKs turn red/no connection links on the Mstk and Astk windows possible. However, TM is flowing as normal on both NCTRSs and also the timestamps on the TM desktops are normal. Estrack reconfigure for TMTCS2. At next suitable commanding gap full test of TMTCS1 will be performed.
    - 03:44:00 Chain 1 is reconfigured back to prime. Test commands sent ok
  - o 17:16:00 OEM: "ACC AIMU ON"
    - 17:16:00 PID #0019 interrupted due to IMU on
    - 17:27:00 Recovery tool started
    - 17:34:00 TPF 1905\_0500\_A.OSL applied on A/S to update slew #0020
- 08/01/2018 (08)
  - o 09:50:00 ISDC informed SPACON that they are still not receiving AUX files and some OLF files. SPACON informed on-call SOE (DS).
  - o 10:46:00 ISDC informed that they have sent ISGRI CTX tables, however no files have not been received at MOC. On-call SOE informed
  - o 16:26:00 Installation of IMCS Patch E5.1.1 on B-chain (INT\_OPS\_1457)
- 09/01/2018 (09)
  - o 10:00:00 INT\_OPS\_1458 - Performed chain swap from A to B (new IMCS S/W)
- 11/01/2018 (011)
  - o 00:07:50 OEM: "ACC AIMU ON"
    - 00:09:00 PID #0077 interrupted due to IMU on
    - 00:19:00 Recovery tool started
    - 00:26:00 TPF 1906\_0500\_A.OSL applied on A/S to update slew #0078
- 13/01/2018 (013)
  - o 10:55:00 Screen saver activated on DTU-E41-16 (iclb2)