XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No :XMM-INT-WOPS-23_48-49 Issue/Rev. No : 1

Issue/Rev. No : 1
Date 18/12/2023
Page : 1

XMM-Newton and INTEGRAL weekly Mission Operations Report

XMM-INT-WOPS-23_48-49

Issue 1

Date: 18 December 2023

Marcus Kirsch OPS-OAX

XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No Issue/Rev. No :XMM-INT-WOPS-23_48-49

Date Page

: 1 18/12/2023

Distribution List

ESOC	Rolf Densing	Frank Dreger	Jens Freihoefer
	Dhivya Kishore	xmmintfd@esa.int	Gianluca Gaudenzi
	Andreas Rudolph	Alastair McDonald	Kenneth Robinson
	XMMINTFCT	Marko Butkovic	Federico Cordero
	Marcus Kirsch	Martin Unal	Tatiana Gabel Ly
	Jim Martin	Adrian Segura	EILSservices@esa.int
	Richard Southworth	Elena Garcia Tomas	
	Jutta Huebner	Stefano Scaglioni	
	Simon Plum	Muhammad Shoaib Malik	
ESAC	Carole Mundell	Peter Kretschmar	Matthias Ehle
	Markus Kissler-Patig	Maria Santos Lleo	Jan-Uwe Ness
	Elsa Montagnon	Pedro Calderon	isocsci@sciops.esa.int
	5	Ricardo Perez	
		Anthony Marston	
ESTEC	Guiseppe Sarri		
Airbus	Tommy Strandberg	Susanne Fugger	
Alenia	Franco Ravera	Mario Montagna	
Logica	COMCS_Helpdesk.de@logica cmg.com		
ISDC	Roland Walter	Carlo Ferrigno	
NASA	DSN.Mission_XMM		
INT-PI	Philippe Laurent	J.P. Roques	Giovanni Larosa
	Pietro Ubertini	Wojte Hajdas	Miguel Mas Hesse
	Jerome Chenevez	Jochen Greiner	
	Angela Bazzano		

XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No Issue/Rev. No Date Page

:XMM-INT-WOPS-23_48-49

: 1 18/12/2023

1. Weekly report

	XMM	Integral
Main activities	 Nominal Operations Phase in of new service contract for SOEs (October-December) Tolhuin station in operational test Lela final migration to MCS Manual spacecraft recovery without propellant procedures CDMU recovery automation NSM on board Low speed wheel test successfully performed MOC/SOC link validated successfully New MCS SW Release 13.0.0 	Routine science operations Eclipse Season
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 AGO due to degraded performance of the SSPA 	■ Nominal
S/C Anomalies	■ None	■ None
G/S Anomalies	 XMM-1553: EVFM failure after chain swap XMM-1554: NIS admin link stays connected after MCS is disconnected from NIS XMM-1555: Santiago SSPA Degraded Performance 	■ None
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)

XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No Issue/Rev. No Date

Page

:XMM-INT-WOPS-23_48-49

o : 1 18/12/2023

2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 29/11/2023 (333) 19:33:57: MOC/SOC link validated successfully with the new SW Release 13.0.0 on B-Chain (*Ops instruction #4624*).
- 30/11/2023 (334) 13:06:14: EVFM failure after chain swap (see **AR XMM-1553**)
- 02/12/2023 (336) 05:08:16: MOIS could not handle the specific case of RM crash at a bad timing combined with ongoing recovery (CCRs in place)
- 05/12/2023 (339) 12:18:27: Spacon closed accidently the NIS, commands for RGS (Q-dumps) and OM missed from the timeline (see AR XMM-1554 :: NIS admin link stays connected after MCS is disconnected from NIS)
- 05/12/2023 (339) 20:25:14: New MCS SW Release 13.0.0 now operational (Ops instruction #4624)
- 06/12/2023 (340) In recent weeks there has been a high incidence of failed automated G/S handovers to Santiago due to low AGC power. This has now been tracked down to a degraded performance of the SSPA (see AR XMM-1555 :: Santiago SSPA Degraded Performance)
- 09/12/2023 (343) 12:53: Divergence between actual wheel plot and prediction after NSX at 12.53 and before NSO at13.16 (300rpm on wheel 2). FD explains that the wheel profile during NSX the is not modelled and illustrated as a simple step function. The NSO part of the NSX will correct it.
- 10/12/2023 (344) 13:00:32: Alarm tone is not working on both xclas1 and xclas2 but on xclas3. At 19:58:10, the Spacon managed to enable the alarm sound on xclas1 again by muting and unmuting it by means of the keyboard (Fn + F7)

2.2. INTEGRAL

- 02/12/2023 (336) 16:45:24: 2* OBEs EVID: 5. Type: EXCEPTION. "OMC EXC IACS INT" 2* OBEs EVID:
 6. Type: EXCEPTION. "OMC EXC IACS INT" Occured when OMC transitioned to STANDBY for OSL.
 No other OOL/OBEs.
- 08/12/2023 (342) 03:05:45: OOLs, K5317, L5317 & E3500. Checked x-refs. While checking, JEM-X OOLs cleared. For E3500 action is log only as belt entry expected ~04:32 today.
 - o 03:11:31 OOLs K & L 5317, RAD MON3 for JEM-X1 & 2.
 - O3:18:09 JEM-X1 & 2 OOLs K & L 5317 remain. IREM electron count (TM para U9921) ~110. As per x-ref, commanded JEM-Xs to safe using FCP_JEMX1(& 2)_0040