



1 General Comments

Activities scheduled for this week are those planned for the 11th calendar week of year 2016:

14 MAR 2016 to 21 MAR 2016 (DoYs 074 to 081).

From the 14th to the 16th of March, CNES uploaded the new OBSW version of the PROTEUS GPS system. As consequence of that the PROTEUS/MIRAS communications were setup during most of the time during those three days, in the so-called Stand-by mode. In this mode, the MilBus communications between the platform and the instrument were interrupted (see section 10 for further details)

The following routine activities were initially planned this week but later on cancelled due to the GPS OBSW upload (see section 2 of this report for further clarifications):

- ~~One Warm NIR Calibration on 16 MAR 2016 (DoY 076) with ETO 01:56:40.0z (orbit 33469) and with the following expected calibration values:~~
 - ~~B.T. _____ = 3.8392~~
 - ~~R.M.S. _____ = 0.3333~~
 - ~~Sun elevation _____ = 09.5825°~~
 - ~~Moon elevation _____ = 13.44.53°~~
 - ~~R.A. _____ = 071.4300°~~
 - ~~DEC. _____ = -55.6800°~~
- ~~One PMS Offset on 17 MAR 2016 (DoY 077), including three Short Calibrations at 16:24:30.0z, 16:25:04.8z, and 16:25:39.6z (orbit 33492).~~
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

- In line with the «GO» decision made regarding the GPS software upload for SMOS during week 11, the calibration activities included in the regular Mission Planning (see section «General Comments» above) were cancelled. Thus TCs sent to CNES for week 11 contained only the X BAND passes over ESAC. The number of TCs dropped from 219 to 199. The Svalbard pass that had been removed because of a conflict with the NIR calibration remained off.
- An unexpected Collision Avoidance Manoeuvre was performed on the 14th MAR 2016 at 04:16:00z. The time of closest approach was forecast for Tuesday 15 MAR 2016 at 14:28:17z.



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

Due to the manoeuvre, MIRAS onboard timeline was disabled and the instrument science data flagged with External APID during the whole duration of the manoeuvre, about 27 minutes, from 04:00:00z to 04:26:48z. The following X band pass over Svalbard:

from 2016-03-14T04:05:52,659 to 2016-03-14T04:15:43,739

was cancelled on board since it fell in the middle of the manoeuvre period.



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

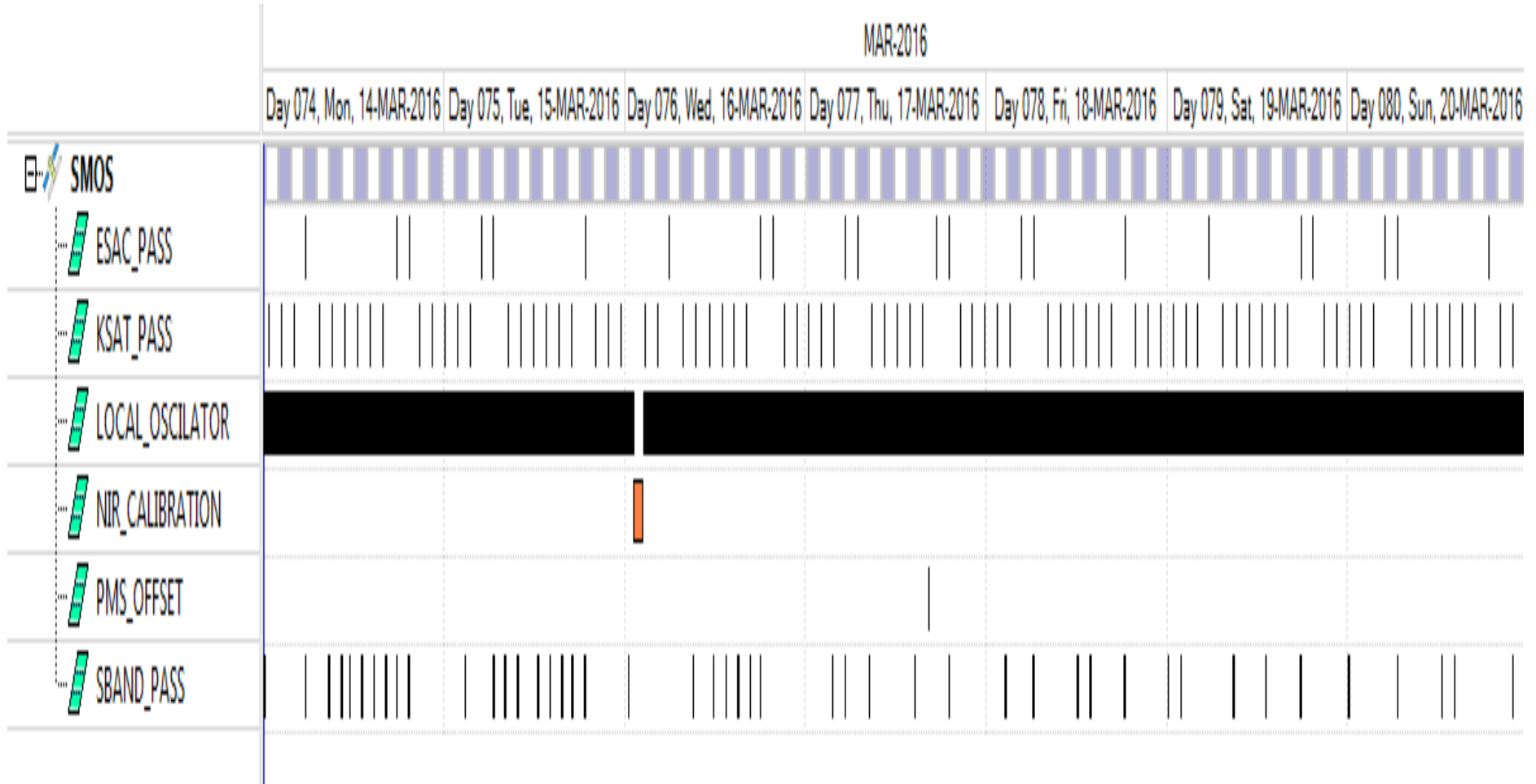
Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0





3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

- Several of Out of Limits were received during the upload of the GPS OBSW operations. In principle all these OOLs were expected and were predicted by the different simulations performed on the FOS MIRASIM simulator. Further details in all these different OOLs are further explained in sections 10 and Appendix-A of this report.

5 On Board Anomalies

- As consequence of the GPS OBSW upload operations, several error packets type (5, 3) were received from the instrument. All these “anomalies” were anyway expected and already predicted in the different simulations performed on the FOS MIRASIM simulator (see further details in section 10 of this report)

6 On Board Events Telemetry

As already reported in section 5, lots of error reporting packets type (5,3) and warning packets type (5,2) were received during the execution of the PROTEUS GPS OBSW upload operations. In particular the following packets were periodically received:

<i>Time_Correlator_Mode_Timeout</i>	<i>TM(5,3)</i>	<i>every 1 second</i>
<i>Time_Correlator_Unexpected_PPS</i>	<i>TM(5,3)</i>	<i>every 1 second</i>
<i>Watchdog_No_Milbus_Activity_Warning</i>	<i>TM(5,2)</i>	<i>every 5 seconds</i>

Also the following Error packet was received only once and just few seconds after each transition to Stand-by mode:

RT_Buffer_Overflow - TM(5,3)

Further detail can be found in section 10 of this report.

The following RAM Single Bit Errors befell this week:

Event Description	Severity	Event Time	Parameters
RAM single Bit Error	WARN	2016.078.03.08.47.550	2354AE0
RAM single Bit Error	WARN	2016.074.21.56.52.659	204E9FC



7 FOS Systems Status

All FOS Systems nominal.

8 Data Reception from CNES

All S Band Passes were correctly received from CNES and successfully processed by the FOS PLPC System, with the following exception:

- Telemetry data from GS pass AUS-23 (start pass at 03:41z) it wrongly contained data from previous pass AUS-22 (start pass time at 18:03z of the day before). This did not have any impact on FOS PLPC or MUST systems since TM data was well correlated and no duplicated points were archived into the MUST-SMTA system. The explanation provided by CNES was that for the GPS SW upload operations, they removed the automatic READ-ACK during working hours in order to manage the acknowledgment manually once they checked the good reception of HKTM-R. In particular, the last pass of the day was considered as a backup for the upload operations and the READMM was commanded but without the acknowledgment. At the end of the operations, CNES forgot that the AUS pass at 18:04z was in that configuration, so a READMM was executed without ACK. As consequence of that the data was then received again at the following pass.

9 X Band Data Reception in PXMF

Due to the lack of MIRAS PUS telemetry during the GPS SW upload operations, most of the XBand passes from the 14th to the 16th of March were processed by the PXMF system and checked by the FOS team.

10 Exceptional Activities

10.1 Upload of new version of PROTEUS GPS OBSW

10.1.1 Introduction and Operations Summary

During the LEOP and Commissioning phase of *Jason-3* satellite, CNES identified an onboard SW bug affecting the way the *Proteus* platform resolved from the GPS navigation message the roll-over of the GPS weeks. This problem affected all *Proteus* satellites family, including SMOS, and it was only seen in operations from the beginning of year 2016. The direct consequence of this problem was a reduction in the number of GPS satellites detected by the platform. As consequence of that, an onboard SW patch was implemented by industry and



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

delivered to CNES for further testing and upload into the different *Proteus* platforms.

Upload and testing operations for SMOS was performed in this week 11 from the 14th to the 16th of March. These special operations were only performed during normal working hours. During that period, the PROTEUS/MIRAS communications were set-up in the so called Standby mode where no MilBus transactions and communications were possible. In practical terms this means that MIRAS was not able to receive commands from the platform but also to transfer housekeeping TM packets to PROTEUS. In that situation SBand passes only contained PROTEUS telemetry and it was not possible to monitor directly the instrument using PUS telemetry. Also in Standby mode neither PPS nor UTC information was received on MIRAS which implies that the instrument run over its own clock. As consequence of that, the only way to monitor the instrument housekeeping telemetry was through the XBand passes using the FOS PXMF system. In this particular situation and while the instrument was in Standby mode and in case of MIRAS CCU reset, the Autodownlink function would have not worked due to the lack of GPS information but also would have not been possible to reuplink the instrument reconfiguration and replanning due to the lack of telecommanding. Also for CNES would have not been possible to detect a possible MIRAS CCU reset since MilBus communications with the Payload were interrupted at that time.

Operations during those days were agreed in such a way that at the end of the day, i.e. when CNES SW upload operations got finished, the instrument/platform communications were again switched to Operational mode.

Due to all these limitations it was agreed with the SMOS Mission Manager, to temporary organize some FOS shifts covering 24 hours from the morning of the 14th of March until midday the 16th.

The FOS team was organized during those days, from Monday to Wednesday, as follows:

- Alvaro Llorente (AL) from 08:00 to 16:00 local time
- Carmen Gamella (CG) from 16:00 to 00:00 local time
- José María Castro Cerón (JM) from 00: 00 to 08:00 local time
- Jorge Fauste (JF) from 09:00 to 19:00 utc



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

The whole OBSW upload process was organized in three different slots or days. On Monday 14th of March six of the nine memory banks were uplinked following the general agreed timeline of Table-1:

Activities on Day 2016-03-14		
Time (UTC)	Sband GS Event	Activities
08:45:07	AOS KUX-14	
08:46:43		Payload to Stand by mode. GPS off no PPS, no UTC Time, no PVT information
08:46:48		Upload GPS SW Bank 1 part 1
08:58:58	LOS KUX-14	
10:24:37	AOS KUX-15	
10:25:40		Upload GPS SW Bank 1 part 2
10:36:45	LOS KUX-15	
11:28:15	AOS KER-29	
11:29:37		Upload GPS SW Bank 1 part 3
11:42:01	LOS KER-29	
13:06:29	AOS KER-30	
13:07:46		Upload GPS SW Bank 1 part 4
13:21:08	LOS KER-30	
14:42:27	AOS HBK-1	
14:43:59		Upload GPS SW Bank 1 part 5
14:54:58	LOS HBK-1	
16:20:07	AOS HBK-2	
16:22:32		Upload GPS SW Bank 1 part 6
16:34:21	LOS HBK-2	
19:00:00		Payload back to Operational mode (TT Command). GPS OFF, no PVT information. UTC time provided by PROTEUS

Table 1

At the end of the day at 19:00z, the instrument went back to Operational mode with GPS off.

On Tuesday the 15th of March, the upload activities were resumed in the morning and followed the general foreseen plan of Table-2.

Activities on Day 2016-03-15		
Time (UTC)	Sband GS Event	Activities
08:08:20	AOS KUX-16	
08:10:00		Payload to Stand by mode. GPS off no PPS, no UTC Time, no PVT information
08:10:18		Upload GPS SW Bank 1 part 7
08:19:07	LOS KUX-16	
09:45:05	AOS KUX-17	
09:46:23		Upload GPS SW Bank 1 part 8
09:59:25	LOS KUX-17	
12:27:48	AOS KER-32	
12:29:03		Upload GPS SW Bank 1 part 9
12:42:39	LOS KER-32	
14:08:28	AOS KER-33	
14:10:06		Final check of GPS SW upload in Bank-1
14:21:01	LOS KER-33	
14:37:00		GO/NOGO decision to upload SW part 10
15:41:22	AOS HBK-3	
15:43:39		Upload GPS SW Bank 1 part 10
15:43:49		GPS Back to Nominal configuration
15:56:05	LOS HBK-3	
19:00:00		Payload back to Operational mode (TT Command). GPS ON PVT and UTC back to nominal state

Table 2

At the end of that day the instrument went back to Operational mode with GPS on and UTC time provided by PROTEUS.

Last part of the OBSW upload took place on the 16th of March as per Table-3 here below:



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

Activities on Day 2016-03-16		
Time (UTC)	Sband GS Event	Activities
09:06:34	AOS KUX-18	
09:08:00		Payload to Stand by mode. GPS off no PPS, no UTC Time, no PVT information
09:08:20		Copy GPS SW bank1 to bank 2
09:21:06	LOS KUX-18	
11:49:40	AOS KER-35	
11:51:28		GPS Back to nominal
11:51:38		Payload back to Operational mode. GPS ON PVT and UTC back to nominal state
12:04:01	LOS KER-35	
13:28:43	AOS KER-36	
13:42:55	LOS KER-36	Backup operational pass

Table 3

The timeline here above described, was slightly modified in reality and some minor deviations were found and performed during its execution. The real execution from the FOS side is detailed in the following section.

10.1.2 FOS detail operations

Since some deviations happened during the three days of SW upload, here below is included a table detailing FOS operations:



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

DAY *** Monday 14 MAR 2016	
Time	Event
08:50	FOS Operator on duty. Setup preparation as per FOS instructions.
08:55	Time Correlation restarted in cold mode on PXMFPDM machine in order to reinitiate ground time correlation coefficients
09:14	Reception of S band pass KUX-14 Last frame received in that past, 08:47:04z, does not contain yet the transition to Standby mode. All nominal.
09:24	Reception of X band pass (Sval 292) Transition to Standby mode seen at 08:48:06z Three expected OOLs received at that time: SPC10107 "PPS Error Plag" with value Unexpected PPS DPC10107 "UTC Cur Source" with value "PROTEUS" TCO_FLAG "TCO Restart Flag" with Value NOT-OK As expected the following three Alarm packets have also been received: Time_Correlator_Timeout (651) Time_Correlator_Unexpected_PPS (653) Watchdog_No_Milbus_Activity_Warning (622) All these packets have been made disabled on SCOS OBEH task and a new SCOS filter mirasStandby created The FIFO time out message is also received as expected: RT_Buffer_Overflow EVID 481
10:57	Reception of S band pass KUX-15 Only one expected OOL has been received in parameter: DPC10107 "UTC Cur Source" with value "PROTEUS"



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

	and indicates that the time source from platform is PROTEUS instead of GPS. Nominal and expected.
11:09	Reception of X band pass (Sval 209) All nominal same OOL as before no new Alarm packets. Last on board packet at 10:04:24z
12:02	Reception of S band pass KER-29 All nominal same expected alarms
12:52	Reception of X band pass (Sval 281) SCOS PXMFRM Time Correlation task crashed at 13:06z . SCOS restarted on PXMFRM, no TCO restarted X band pass reingested again. Data Stream 4 removed from PXMFRM, PDS admin task crashed at the end of the packet deletion. SCOS restarted again at 13:48z. All onboard events and OOLs nominal as expected
13:21	Reception of S band pass KER-30 All nominal
14:25	Reception of X band pass (Sval 421) All nominal
15:12	Reception of S band pass HBK-1 All nominal
16:10	Reception of X band pass (Sval 537) All nominal
16:45	Reception of S band pass HBK-2 All nominal
18:10	Reception of S band pass STC-17 All nominal



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

FOS Report for week 11, year 2016

Date:

from 14 MAR 2016 to 21 MAR 2016

Issue:

1.0

18:00	Reception of X band pass (ESAC 334) All nominal
19:00	MIRAS go back to Operational mode No telemetry checks performed so far on FOS side waiting for first SBand pass AUS-20
18:20	Restart Time Correlation PLPC Prime (S band) in cold mode
19:40	Reception of S band pass AUS-20 Transition to Operational mode happened as command by Time Tagged command at 19:00 After the change to Operational mode the following OOLs remained on the system: SPC10107 “PPS Error Plag” with value Unexpected PPS DPC10107 “UTC Cur Source” with value “PROTEUS” TCO_FLAG “TCO Restart Flag” with Value NOT-OK All the Error packets disappeared as soon as the instrument went back to Operational mode except the following event error that remains in the system with a frequency of one second: Time_Correlator_mode_Timeout (EvID 651) The reception of this error packet was in principle not foreseen since PROTEUS should provide via its internal clock good UTC time. It is checked on the FOS side that UTC remains frozen and the onboard correlation parameter remains unchanged from the first transition to Standby mode at 08:47:04z
19:35	Reception of X band pass (ESAC 438) All nominal except the reception every 1 second of Error packet Time_Correlator_mode_Timeout (EvID 651)
21:15	Reception of X band pass (SVAL 623) All nominal except the reception every 1 second of Error packet Time_Correlator_mode_Timeout (EvID 651)
22:55	Reception of X band pass (SVAL 616)



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

	All nominal except the reception every 1 second of Error packet Time_Correlator_mode_Timeout (EvID 651)
	NEW DAY *** Tuesday 15 MAR 2016
00:25	Reception of X band pass (SVAL 618) Ground Station pass not ingested since SBand is also available at this time. Just checked that files for APID 00004 were correctly generated.
01:29	Restart SCOS TCO PXMF Prime (X band) in cold mode
02:08	Reception of X band pass (SVAL 626) SCOS TCO crashed; careful cleaning performed from 2016.074.20.18.20 onwards; data again reingested. For all packets, error message = Time couple OBET lower than expected. Time couple has been discarded. This behaviour is observed in the S band as well.
03:28	Reception of S band pass KER-31 All nominal except the reception every 1 second of Error packet Time_Correlator_mode_Timeout (EvID 651)
03:44	Reception of X band pass (SVAL 619) Ground Station pass not ingested since SBand is also available at this time. Just checked that files for APID 00004 were correctly generated.
05:10	Reception of X band pass (SVAL 432) Ground Station pass not ingested since SBand is also available at this time. Just checked that files for APID 00004 were correctly generated.
06:50	Reception of X band pass (SVAL 402) Ground Station pass not ingested since SBand is also available at this time. Just checked that files for APID 00004 were correctly generated.



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

07:03	Reception of S band pass STC-18 All nominal except the reception every 1 second of Error packet Time_Correlator_mode_Timeout (EvID 651)
08:00	MIRAS to standby mode
08:36	Reception of S band pass KUX-16 Transition to Standby mode not seen yet in this pass. Expected. All nominal except the reception every 1 second of Error packet Time_Correlator_mode_Timeout (EvID 651)
08:54	Reception and ingestion of X band pass (SVAL 346) As expected the following three Alarm packets have been received as soon as MIRAS went to standby mode: Time_Correlator_Timeout (651) Watchdog_No_Milbus_Activity_Warning (622) However the alarm packet Time_Correlator_Unexpected_PPS (653) has not been received unlike what happened yesterday. Nonetheless, the param SPC10107 PPS_ERROR_FLAG is still OoL (value "Idle Ste Tmout") both in the OoL display and in AND DSYS0001. The FIFO time out message is also received as expected: RT_Buffer_Overflow EVID 481
10:15	Reception of S band pass KUX-17 All nominal only reception of error packets: Time_Correlator_Timeout (651) Watchdog_No_Milbus_Activity_Warning (622)
10:31	Reception and ingestion of X band pass (SVAL 225) Same as previous X-band pass
12:12	Reception and ingestion of X band pass (SVAL 237)



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

FOS Report for week 11, year 2016

Date:

from 14 MAR 2016 to 21 MAR 2016

Issue:

1.0

	Same as previous X-band pass
13:02	Reception of S band pass KER-32 All nominal only reception of error packets: Time_Correlator_Timeout (651) Watchdog_No_Milbus_Activity_Warning (622)
13:54	Reception and ingestion of X band pass (SVAL 366) All nominal
15:30	Reception and ingestion of X band pass (SVAL 497) All nominal
15:52	CNES notifies that the GPS receiver is on and the cold start is in progress
16:14	Reception of S band pass HBK-3 15:47:14 MIRAS back to Operational mode no more Error packets received PPS_ERROR_FLAG toggling between 17:45:12 to 17:49:35 Only TM parameter DPC10107 "UTC Cur Source" with value "PROTEUS" remained out of limits since the platform time source is provided by PROTEUS. PVT information is again available. 15:47:18 MIRAS Time Correlator error disappear Onboard correlation starts at 15:47:47
17:10	Reception and ingestion of X band pass (SVAL 584) All nominal
17:30	Reception of S band pass STC-19 All nominal
17:45	Cold restart of Time Correlation task on PLPCPRM and restart of SCOS system



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

FOS Report for week 11, year 2016

Date:

from 14 MAR 2016 to 21 MAR 2016

Issue:

1.0

17:46	TCO restart in cold mode on PXMFP RM
19:14	Reception of S band pass AUS-21 Instrument back to operational state all instrument error packets disappeared from the system. PVT and on-board time correlation correctly received and updated periodically. UTC time received from PROTEUS. Only one OOL remained in the system as expected: DPC10107 "UTC Cur Source" with value "PROTEUS" Since that point onwards all is considered nominal at this stage, FOS shifts are interrupted from this point onwards
NEW DAY *** Wednesday 16 MAR 2016	
08:00	Instrument set up in Standby mode at 08:00
09:40	Reception of S band pass KUX-18 Last packet received on ground at 07:59:59.22. Transition to Standby mode not observed in this pass but this is consistent with the time when the instrument when to Standby mode.
10:10	Reception and ingestion of X band pass (SVAL 263) Transition to Standby mode observed at 08:00. The expected onboard error messages: Time_Correlator_Timeout (651) Time_Correlator_Unexpected_PPS (653) Watchdog_No_Milbus_Activity_Warning (622) are received on the system. The FIFO time out message is also received as expected: RT_Buffer_Overflow EVID 481 at 08:00:20



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

Date:

Issue:

FOS Report for week 11, year 2016

from 14 MAR 2016 to 21 MAR 2016

1.0

	<p>Also the expected OOL have also been received: SPC10107 “PPS Error Plag” with value Unexpected PPS DPC10107 “UTC Cur Source” with value “PROTEUS” TCO_FLAG “TCO Restart Flag” with Value NOT-OK</p> <p>The behaviour of the instrument is as expected being the same as the one seen on the test performed on the 9th of March The PPS Error flag is toggling between 1 and 4 also as expected.</p>
10:20	<p>Instrument went back to Operational mode</p>
	<p>Reception and ingestion of X band pass (SVAL 212)</p> <p>Last error packet received from the instrument was at 10:16:19.257</p> <p>At 10:20:19 all the OOLs disappeared on PLPC system.</p> <p>Operations are back to nominal.</p>
12:24	<p>Reception of S band pass KER-35 Instrument is back to nominal operation.</p>
12:30	<p>End of FOS special operations for GPS SW upload.</p>



10.1.3 FOS Conclusions

With the exception of the situation that happened after the first transition to Standby mode; all the error, warning packets and Out of Limits received during these three days of operations were the expected ones based on the tests performed on the FOS MIRASIM simulator and in Engineering Model. All these errors were also the ones seen during the Standby test performed on the real spacecraft on the 9th of March (week 10).

On the 14th of March and at the time of the first transition from Standby to Operational mode with GPS off, the instrument was still repeatedly issuing the Error packet:

Time_Correlator_mode_Timeout

with value IDLE and timeout of 50 milliseconds.

As previously explained by CNES, the reception of this error packet was in principle not foreseen since PROTEUS should have provided via its internal clock good UTC time. Nevertheless at that time FOS checked that the UTC remained frozen and the onboard correlation parameter remained unchanged from the first transition to Standby mode at 08:47:04z.

Further simulations performed on MIRASIM simulator have shown that the same error packet with the same parameters is obtained if the PPS signal and the UTC time is disabled from the platform. Therefore the error obtained is consistent with the observed symptoms. FOS will notify CNES of this finding to better understand why in those conditions, GPS off, the UTC time is not provided by the platform. It is important to bear in mind that on the following day when the GPS was just switched on but the platform was still in reduced mode, UTC time provided by PROTEUS, this error packet was not issued by the instrument.

11 AOB

None.



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

FOS Report for week 11, year 2016

Date:

from 14 MAR 2016 to 21 MAR 2016

Issue:

1.0

APPENDIX A: OOLs

The execution of the collision avoidance manoeuvre generated the following PLPC out of limit indicating that the on-board ITL was disabled at that time:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.074.06.16.44.193	2016.074.03.59.52.052	NTLHK022	ITL Ena State	Disabled	Enabled

After first transition to Stand-by mode on the 14th of March the following OOLs appeared on PXMF system:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.074.09.24.00.00	2016.074.08:48:06	SPC10107	PPS_ERROR_FLAG	Unexpected PPS	Valid
2016.074.09.24.00.00	2016.074.08:48:06	DPC10107	UTC Cur Source	PROTEUS	GPS

After first transition to Operational mode with GPS off and no UTC provided by the platform, on the 14th of March at 19:00z:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.074.19.40.00.00	2016.074.19:00:00	SPC10107	PPS_ERROR_FLAG	Unexpected PPS	Valid
2016.074.19.40.00.00	2016.074.19:00:00	DPC10107	UTC Cur Source	PROTEUS	GPS

only the OOL in parameter DPC10107 was initially expected.

After second transition to Standby mode on the 15th of March at 08:00z:



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste

Topic:

FOS Report for week 11, year 2016

Date:

from 14 MAR 2016 to 21 MAR 2016

Issue:

1.0

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.075.08.54.00.00	2016.075.08:00:00	SPC10107	PPS_ERROR_FLAG	Unexpected PPS	Valid
2016.075.08.54.00.00	2016.075.08:00:00	DPC10107	UTC Cur Source	PROTEUS	GPS

After second transition to Operational mode with GPS on and UTC provided by the platform, on the 15th of March at 15:47:14z:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.075.16.14.00.00	2016.075.15:47:14	DPC10107	UTC Cur Source	PROTEUS	GPS

After third transition to Standby mode on the 16th of March at 08:00z:

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.076.10.10.00.00	2016.076.08:00:00	SPC10107	PPS_ERROR_FLAG	Unexpected PPS	Valid
2016.076.10.10.00.00	2016.076.08:00:00	DPC10107	UTC Cur Source	PROTEUS	GPS