Request list of active OBCPs
File: H_FCP_OBS_7110.xls
Author: lstefanov-hp

Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to acquire the list of active OBCPs on-board the S/C.
The active OBCPs report is commanded via TC(18,10). The report is received in a TM(18,11) packet.

Summary of Constraints

The ASW function "OBCP Management" is responsible of reporting active OBCPs. No OBCP report can be requested when the function is Stopped.

Default status of the function: "Stopped".

When the function is stopped, it does not accept any other telecommands than the:
- Start Function TC(8,1,107);
- Report Function Status TC(8,5,107).

Thus, if the function is stopped this procedure cannot be executed.

Spacecraft Configuration

Start of Procedure

CDMU in Nominal configuration, that is:
- PM A or B ON (nominally A)
- TM Encoder/OBT A or B active (nominally A)
- RM A and B enabled
- MM A and B ON

"OBCP Management" function Stopped or Running

End of Procedure

CDMU in Nominal configuration:
- PM A or B ON (nominally A)
- TM Encoder/OBT A or B active (nominally A)
- RM A and B enabled
- MM A and B ON

"OBCP Management" function Running
Active OBCPs report received

Reference File(s)

Input Command Sequences

Output Command Sequences

OFCP7110

Referenced Displays

ANDs	GRDs	SLDs
ZAZAI999		(None)
ZAZ4Q999		

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Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
16/06/08	1	1	Created	lstefanov-hp	
01/04/09	2.3	2	1. steps 2 and 5 updated in line with DB for CDMS OBS v.3.8.2	lstefanov-hp	

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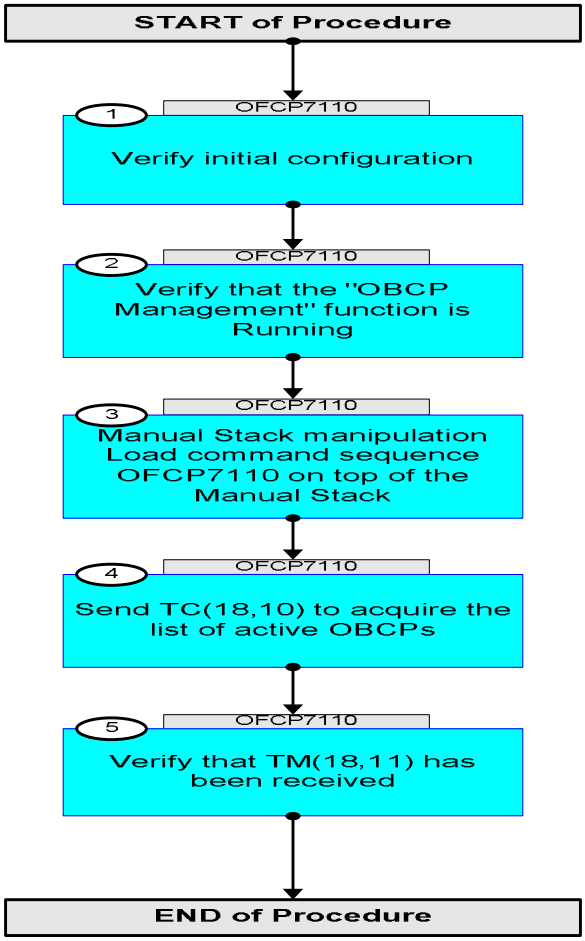
Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Beginning of Procedure			
	OFCP7110	*TC Seq. Name :* OFCP7110 (ActiveObcpsList) Acquire list of active OBCPs *TimeTag Type: N* *Sub Schedule ID:*			
1		Verify initial configuration		Next Step: 2	
		Check CDMU Nominal configuration: - PM A or B ON (nominally A) - TM Encoder/OBT A or B active (nominally A) - RM A and B enabled - MM A and B ON			
2		Verify that the "OBCP Management" function is Running		Next Step: 3	
		Verify Telemetry **ObcpSts DEH36170**	**= Running**	AND=ZAZAI999	
2.1		IF "OBCP Management" function NOT Running THEN Start the OBCP function via H_FCP_DHS_3046			
		Execute procedure **H_FCP_DHS_3046**			
		H_FCP_DHS_3046 Start or stop the whole OBCP function			
3		Manual Stack manipulation Load command sequence OFCP7110 on top of the Manual Stack		Next Step: 4	
3.1		Sequence data FP: N/A TT: N/A			
4		Send TC(18,10) to acquire the list of active OBCPs		Next Step: 5	
		Uplink TC with **ARM GO**			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand **ReptActiveObcps** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : TEMPLATE Report list of Active OBCPs TC(18,10)	**DCT77170**	**TC**	
		Note: Following successful execution of TC(18,10), a report Type **(18,11)** is generated.			
5		Verify that TM(18,11) has been received		Next Step: END	
		Note: This Packet lists all the OBCPs which have been started, i.e. a TC(18,3) has been sent and are not currently suspended, though their execution might not have yet started as only 16 OBCPs can run in parallel. In other words the packet lists all the **procedures** which are **not stopped or suspended**.			
		Verify Packet Reception TM 18-9 List of on-board Procedures Packet Mnemonic : OnBrdObcpLst APID : 16 Type : 18 Subtype : 9 PI1 : PI2 :			
		Verify Telemetry **N_Repetition** **DE014170**	**= N**	(None)	
		The following parameter is repeated N times			
		Verify Telemetry **ProcedureID** **DE293170**		AND=ZAZ4Q999	
		End of Sequence			
		End of Procedure			