

Request OBCP status report
File: H_FCP_OBS_7112.xls
Author: lstefanov-hp



Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to acquire the OBCP status report and last uploaded parameter values for a selected OBCP.
The OBCP status and parameters report is commanded via TC(18,12).
The report is received in a TM(18,13) packet.

Summary of Constraints

The ASW function "OBCP Management" is responsible of reporting OBCP status and parameters. 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
OBCP status and parameters report received for the selected OBCP

Reference File(s)

Input Command Sequences

Output Command Sequences

OF7112

Referenced Displays

ANDs GRDs SLDs

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ZAZAI999 (None)
 ZAZ4Q999
 ZAZ4U999

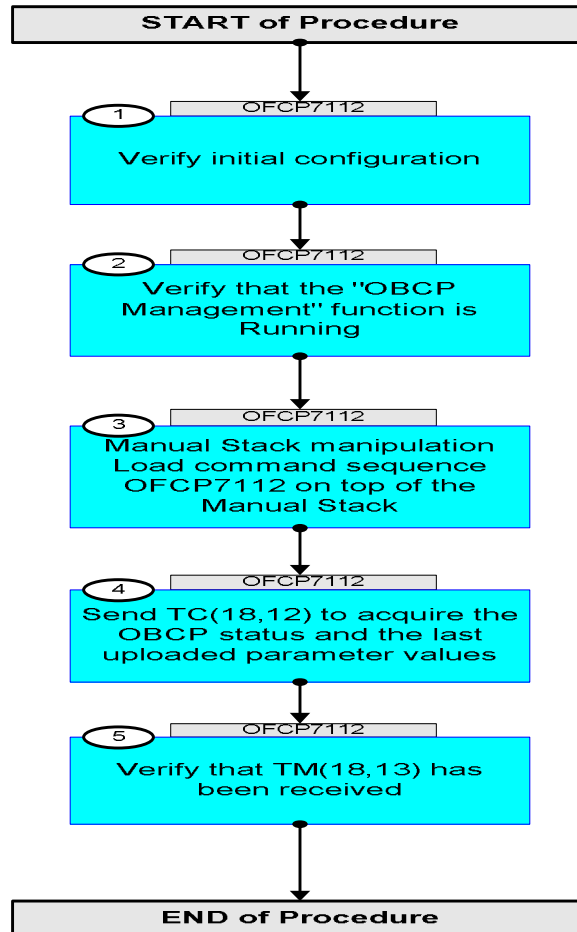
Configuration Control Information

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					
OFCP7112		TC Seq. Name :OFCP7112 (ObcpStatus&Params) Acquire OBCP status and parameters TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>			
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 OFCP7112 on top of the Manual Stack		Next Step: 4	
3.1		Sequence data FP: ObcpId TT: N/A			
		Set the value of the Formal Parameter ObcpId to the value of the ID of the selected OBCP.			
4		Send TC(18,12) to acquire the OBCP status and the last uploaded parameter values		Next Step: 5	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Uplink TC with ARM GO			
		Execute Telecommand <div style="text-align: right; margin-right: 100px;">ReptObcpStatus</div> Command Parameter(s) : <div style="margin-left: 100px;">ObcpId DH135170</div> TC Control Flags : <div style="margin-left: 100px;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Report OBCP Status and Parameters TC(18,12)	DCT78170	TC	
		Note: Following successful execution of TC(18,12), a report Type (18,13) is generated.			
5		Verify that TM(18,13) has been received		Next Step: END	
		Verify Packet Reception TM 18-13 OBCP Status Report Packet Mnemonic : ObcpStsRpt APID : 16 Type : 18 Subtype : 13 PI1 : PI2 :			
5.1		Check: - OBCP status			
		Verify Telemetry <div style="margin-left: 100px;">ProcedureID DE293170</div>		AND=ZAZ4Q999	
		Verify Telemetry <div style="margin-left: 100px;">OBCPStatus DEZA8170</div>		(None)	
		Verify Telemetry <div style="margin-left: 100px;">StepID DEZA9170</div>		(None)	
5.2		Check: - 32 bit parameters last uploaded values			
		Verify Telemetry <div style="margin-left: 100px;">N_Repetition DE014170</div>	= N	(None)	
		Note: N can take values from 0 to 38			
		The following parameters are repeated N times			
		Verify Telemetry <div style="margin-left: 100px;">ObcpPid DE296170</div>		AND=ZAZ4U999	
		Verify Telemetry <div style="margin-left: 100px;">ObcpPidVal132 DE312170</div>		(None)	

