

Report mode management function and current spacecraft mode
 File: H_FCP_DHS_3067.xls
 Author: S. Manganelli



Procedure Summary

Objectives

This procedure describes the steps needed to acquire the status of the ASW function "Mode Management" (0xFF for running idle or 0x00 for stopped).

Moreover in the TM packet is also reported the current mode or the target mode of the transition.

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

- CDMU in default 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

End of Procedure

- CDMU in default 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

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD3067

Referenced Displays

ANDs GRDs SLDs

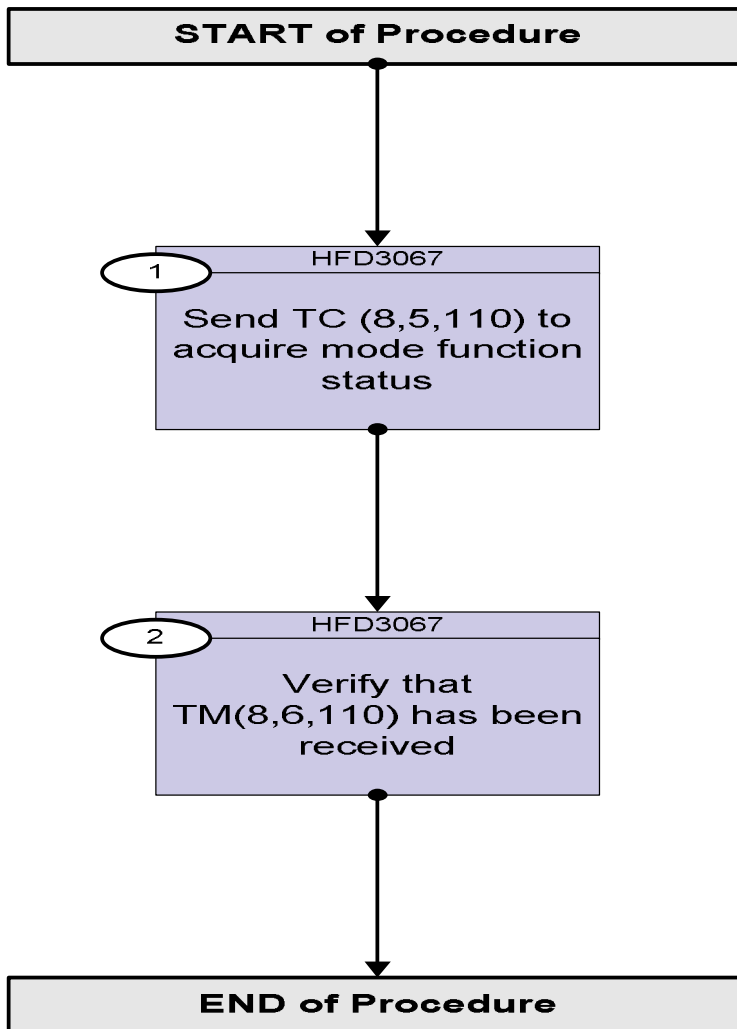
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
08/11/07		1	Created	cmevi-hp	
10/06/08	1	2	TC Flag and Seq Properly changed	S. Manganelli	
01/12/08	2	3	DB check after OBSW 3_6_2	S. Manganelli	
20/04/09	2.3	4	Added AND references	S. Manganelli	

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Procedure Flowchart Overview

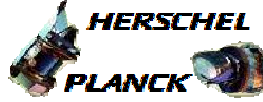


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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HFD3067 (Report mode function)				
TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Send TC (8,5,110) to acquire mode function status		Next Step: 2
		Report Mode Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand RptModeManagSts DC00G170 Command Parameter(s) : Function_ID DH010170 110 <dec> (Def) TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 10 Det. descr. : Report Mode Management Status TC(8,5,110)		
2		Verify that TM(8,6,110) has been received		Next Step: END
		Only one of the following two types of TM packets will be received		
		- If the function is started:		
		Verify Packet Reception TM 8-6-110 Mode Management Status Report - running idle Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 28415 PI2: 0		ModeMngRpRun
		Verify Packet Telemetry (Pkt = ModeMngRpRun) Function_ID DE008170 = Mode_Manag AND=ZAZ3Q999		
		Verify Packet Telemetry (Pkt = ModeMngRpRun) MonitStsActId DE067170 = RunningIdle AND=ZAZ3Q999		
		Verify Packet Telemetry (Pkt = ModeMngRpRun) SID DE010170 = 0 <dec> (None)		
		Verify Packet Telemetry (Pkt = ModeMngRpRun) ModeId DE142170 AND=ZAZ3Q999		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		- If the function is stopped:		
		Verify Packet Reception TM 8-6-110 Mode Management Status Report - stopped Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 28160 PI2: 0	ModeMngRpStp	
		Verify Packet Telemetry (Pkt = ModeMngRpStp)		
		Function_ID DE008170	= Mode_Manag	AND=ZAZ3Q999
		Verify Packet Telemetry (Pkt = ModeMngRpStp)		
		MonitStsActId DE067170	= Stopped	AND=ZAZ3Q999
		Verify Packet Telemetry (Pkt = ModeMngRpStp)		
		SID DE010170	= 0 <dec>	(None)
		Verify Packet Telemetry (Pkt = ModeMngRpStp)		
		ModeId DE142170		AND=ZAZ3Q999
End of Procedure				