

Report MTL function
 File: H_FCP_DHS_3026.xls
 Author: S. Manganelli



Procedure Summary

Objectives

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

Moreover in the TM packet are also reported the following information:

- Number of TCs in the MTL;
- Number of TC chunks in use;
- Number of B-tree chunks in use;
- Time-Tag of the next TC.

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

HFD3026

Referenced Displays

ANDs GRDs SLDs

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
25/10/07		1	Created	cmevi-hp	
03/12/07		2	Operation language changed to 'Generic'.	cmevi-hp	
24/01/08	1	3	Batch update of TC flags	S. Manganelli	
03/09/08		4	DB update following OBSW 3_6 (packet structure changed)	S. Manganelli	
01/12/08		5	Procedure updated according to latest version received from industry on 24/10/2008	cmevi-hp	

Report MTL function
File: H_FCP_DHS_3026.xls
Author: S. Manganelli

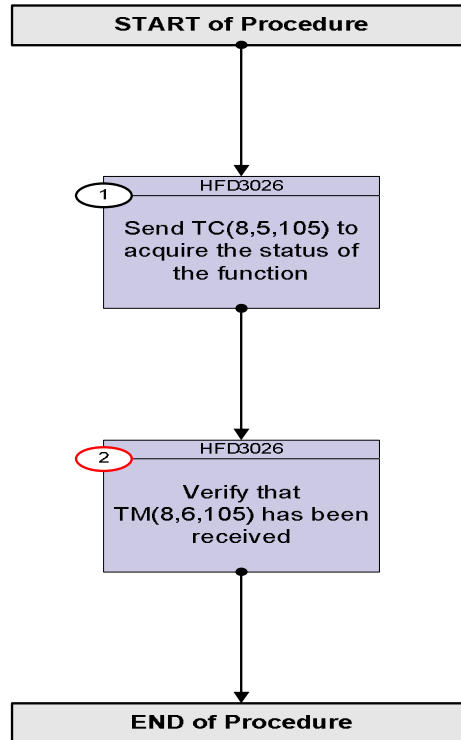


20/01/09	2	6	Updated Tmpacket parameters at step 2 following TAS comments	S. Manganelli	
19/03/09	2.2	7	DB change due to OBSW 3_8_2	S. Manganelli	

Report MTL function
File: H_FCP_DHS_3026.xls
Author: S. Manganelli



Procedure Flowchart Overview



Report MTL function
 File: H_FCP_DHS_3026.xls
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HFD3026 (Report MTL function)				
TimeTag Type: N Sub Schedule ID: □				
1		Send TC(8,5,105) to acquire the status of the function		Next Step: 2
		Report On Board Scheduling Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "stopped".		
		Execute Telecommand RptOBoardSchedSts TC Control Flags : Subsch. ID : 10 Det. descr. : Report on-noard scheduling status TC(8,5,105)	DC92F170	
2		Verify that TM(8,6,105) 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 8-6-105 On Board Scheduling Status Report - Running Idle Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 27135 PI2: 0	OBSchStsRun	
		Verify Packet Telemetry (Pkt = OBSchStsRun) Function_ID DE008170 = Scheduling		(None)
		Verify Packet Telemetry (Pkt = OBSchStsRun) ActivityId DE022170 = Running Idle		(None)
		Verify Packet Telemetry (Pkt = OBSchStsRun) SID DE010170		
		Verify Packet Telemetry (Pkt = OBSchStsRun) NrOfTcsInMtl DE081170		
		Verify Packet Telemetry (Pkt = OBSchStsRun) TcChunksInUse DE306170		

Report MTL function
 File: H_FCP_DHS_3026.xls
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = OBSchStsRun) BTreChunksInUse DE307170		
		Verify Packet Telemetry (Pkt = OBSchStsRun) MtlNextTcT DELA6170		
		Verify Packet Telemetry (Pkt = OBSchStsRun) MtlRptRate DER1C170		
		- If the function is stopped:		
		Verify Packet Reception TM 8-6-105 On Board Scheduling Status Report - Stopped <i>Packet Details:</i> <div style="text-align: right; margin-right: 20px;"> APID: 16 Type: 8 Subtype: 6 PI1: 26880 PI2: 0 </div>	OBSchStsStop	
		Verify Packet Telemetry (Pkt = OBSchStsStop) Function_ID DE008170	= Scheduling	(None)
		Verify Packet Telemetry (Pkt = OBSchStsStop) ActivityId DE022170	= Stopped	(None)
		Verify Packet Telemetry (Pkt = OBSchStsStop) NrOfTcsInMtl DE081170		
		Verify Packet Telemetry (Pkt = OBSchStsStop) TcChunksInUse DE306170		
		Verify Packet Telemetry (Pkt = OBSchStsStop) BTreChunksInUse DE307170		
		Verify Packet Telemetry (Pkt = OBSchStsStop) MtlNextTcT DELA6170		
		Verify Packet Telemetry (Pkt = OBSchStsStop) MtlRptRate DER1C170		
End of Procedure				