

Clearing the complete MTL
File: H_FCP_DHS_3023.xls
Author: S. Manganelli



Procedure Summary

Objectives

This procedure describes the steps needed to remove all entries from the MTL for all application processes.

Summary of Constraints

To clear the mission timeline it is necessary to stop the function.

Please notice that for any of the TCs listed below, if one is being executed, the reception of any TC will be rejected as error.

In other words any of the following TCs shall not be in execution or in queue at a same given time:

- Reset Command Schedule TC(11,3)
- Report Command Schedule TC(11,9)
- Report Command Schedule over Time Period TC(11,11)
- Report Command Schedule in Summary Form TC(11,12)
- Report Command Schedule Summary over Time Period TC(11,14)
- Report Status of Command Schedule TC(11,18)

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

HFD3023

Referenced Displays

ANDs	GRDs	SLDs
ZAZ7A999		(None)
ZAD0B999		

Configuration Control Information

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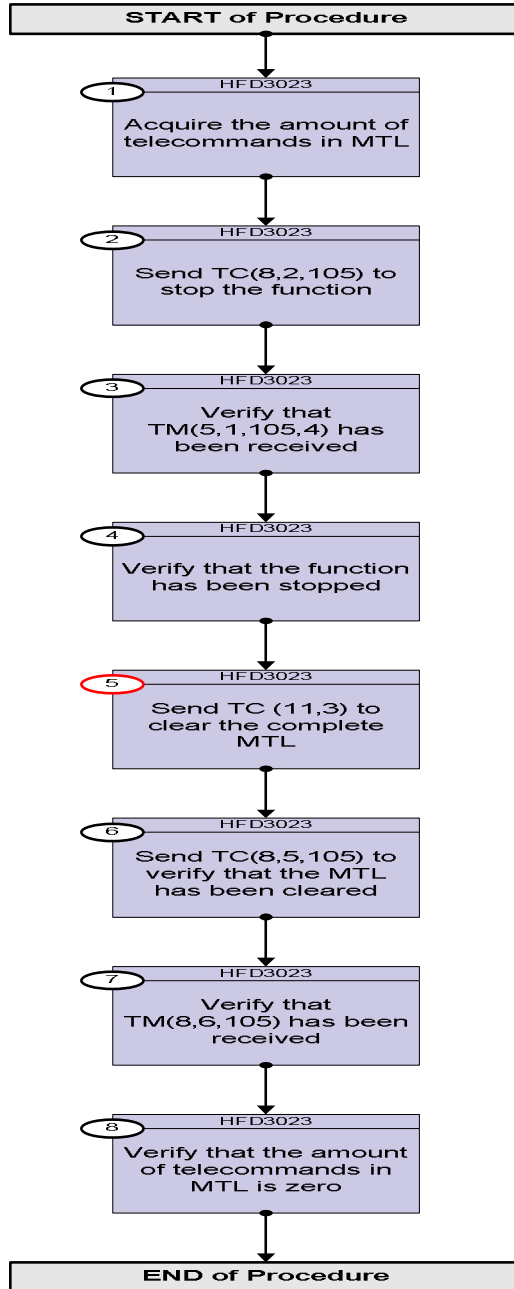


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
25/10/07		1	Created	cmevi-hp	
17/01/08	1	2	Batch update of TC flags	S. Manganelli	
28/11/08	2	3	Procedure updated according to latest version received from industry on 29/09/2008	cmevi-hp	
07/10/09	2.5	4	Resized flowchart, added final comment with pointer to procedure to restart MTL	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 :HFD3023 (Clear all MTL)				
TimeTag Type: N Sub Schedule ID: □				
1		Acquire the amount of telecommands in MTL		Next Step: 2
		Verify Telemetry Mt1TcCnt DE82F170	> 0 <dec>	AND=ZAZ7A999
2		Send TC(8,2,105) to stop the function		Next Step: 3
		TC(11,3), Reset Command schedule, is considered as critical and therefore requires arming by means of TC(8,2,105), Stopping On Board Scheduling.		
		Execute Telecommand StopOnBoardSched TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : StopOnBoardScheduling TC(8,2,105)	DC91F170	
3		Verify that TM(5,1,105,4) has been received		Next Step: 4
		Verify Packet Reception CdmuAsw Event 5-1 MTL Function Stopped D_EvRp_7039 Packet Details: APID: 16 Type: 5 Subtype: 1 PI1: 26884 PI2: 0		
		Verify Packet Telemetry (Pkt = D_EvRp_7039) TM5xEventID DEZSJ170 = MtlFuncStopped (None)		
		Verify Packet Telemetry (Pkt = D_EvRp_7039) EventSeqCounter DE069170		
4		Verify that the function has been stopped		Next Step: 5
		Verify Telemetry Mt1Sts DEH26170	= Stopped	AND=ZAD0B999
5		Send TC (11,3) to clear the complete MTL		Next Step: 6

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		When the CDMU ASW receives this request it clears all entries in the Command Schedule (MTL) for all Application Processes.		
		Execute Telecommand <p style="text-align: right;">ResetTcSchedule</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : ResetTcSchedule, TC(11,3), no application data	DC58F170	
6		Send TC(8,5,105) to verify that the MTL has been cleared		Next Step: 7
		Execute Telecommand <p style="text-align: right;">RptOBoardSchedSts</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 10 Det. descr. : Report on-board scheduling status TC(8,5,105)	DC92F170	
7		Verify that TM(8,6,105) has been received		Next Step: 8
		Verify Packet Reception TM 8-6-105 On Board Scheduling Status Report - Stopped OBSchStsStop Packet Details: <p style="text-align: right;">APID: 16 Type: 8 Subtype: 6 PI1: 26880 PI2: 0</p>		
		Verify Packet Telemetry (Pkt = OBSchStsStop) <p style="text-align: right;">Function_ID DE008170 = Scheduling (None)</p>		
		Verify Packet Telemetry (Pkt = OBSchStsStop) <p style="text-align: right;">ActivityId DE022170 = Stopped (None)</p>		
		Verify Packet Telemetry (Pkt = OBSchStsStop) <p style="text-align: right;">NrOfTcsInMtl DE081170 = 0 <dec> (None)</p>		
		Verify Packet Telemetry (Pkt = OBSchStsStop) <p style="text-align: right;">TcChunksInUse DE306170 = 0 <dec> (None)</p>		
		Verify Packet Telemetry (Pkt = OBSchStsStop) <p style="text-align: right;">BTreChunksInUse DE307170 = 0 <dec> (None)</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
8		Verify that the amount of telecommands in MTL is zero		Next Step: END
		Verify Telemetry MtlTcCnt DE82F170	= 0 <dec>	AND=ZAZ7A999
		NOTE: If the MTL must be restarted, use procedure H_FCP_DHS_3025.		
End of Procedure				