

Report event-action management status or event detection list
File: H_FCP_DHS_3051.xls
Author: S. Manganelli



Procedure Summary

Objectives

The ASW function "Event/Action Management" is responsible to perform the action telecommands associated to corresponding events.

This procedure describes the steps needed to acquire the status of the function (0xFF for running idle or 0x00 for stopped) or the current Event Detection list.

The report of the Event Detection list contains APID, event ID, parameter passing status, AFO status, AFS status, action status and telecommand packet.

Summary of Constraints

Default status of the function: "Started".

When the function is stopped, it does not accept any other telecommands than the:

- Start Function TC(8,1,108);
- Clear Event Detection List TC(19,3);
- Report Function Status TC(8,5,108)
- Report Event Detection List (19,6).

When TC(19,6) is sent, TC(19,1), TC(19,2), TC(19,3), TC(19,4) and TC(19,5) should not be sent before the TM(19,7) Dump Ended event is received, otherwise the TM(19,7) may contain inconsistent data.

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

HFD3051A
HFD3051B

Referenced Displays

ANDs GRDs SLDs
(None)

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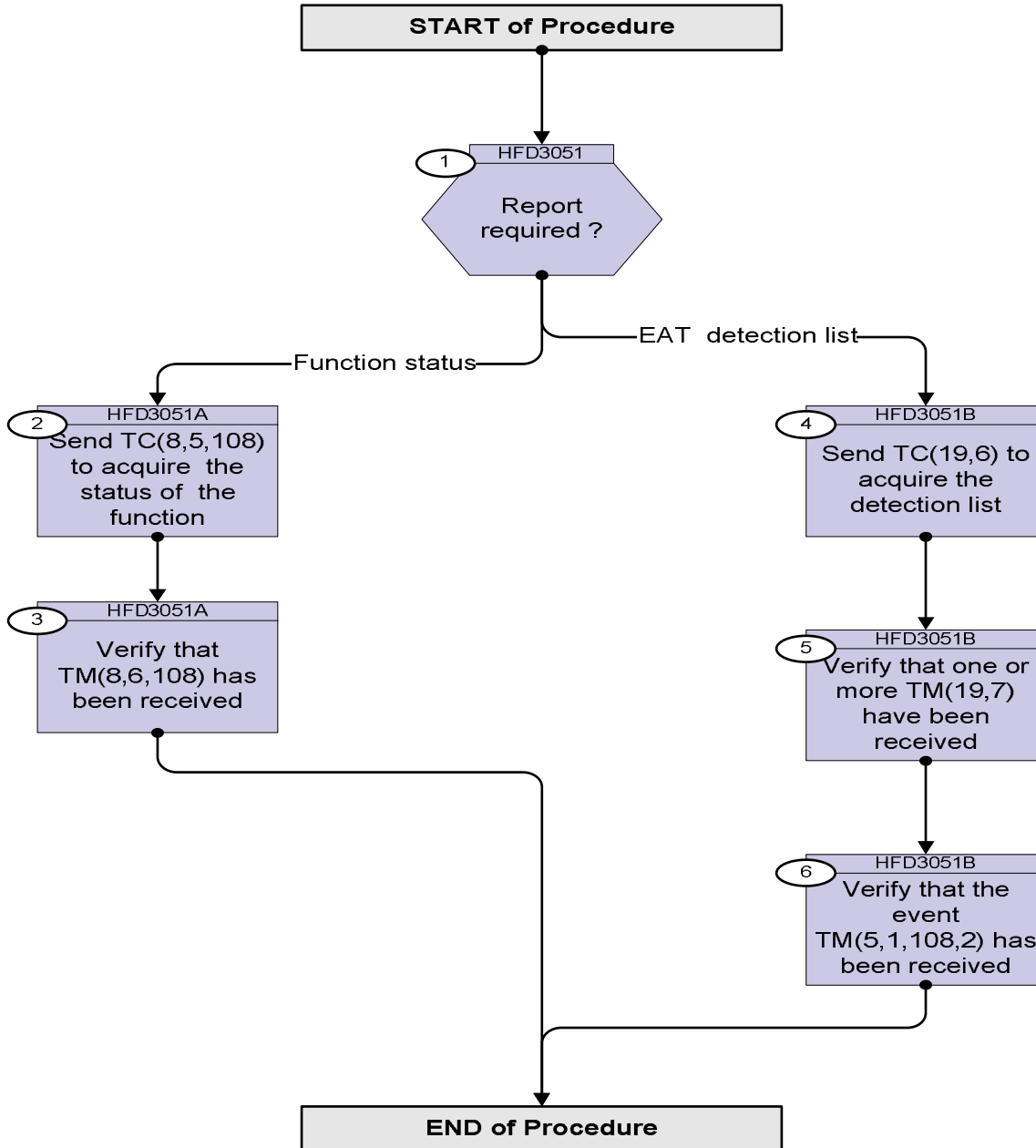
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
20/12/07		1	Created	cmevi-hp	
24/01/08	1	2	Batch update of TC flags	S. Manganelli	
28/11/08	2	3	Procedure updated according to latest version received from industry on the 01/10/2008	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 :HFD3051 (Dummy sequence) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
1		Report required ?		Next Step: Function status 2 EAT detection list 4
TC Seq. Name :HFD3051A (Acquire status of function) TimeTag Type: B Sub Schedule ID: <input type="checkbox"/>				
2		Send TC(8,5,108) to acquire the status of the function		Next Step: 3
		Report Event/Action Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "started".		
		Execute Telecommand <div style="text-align: right;">RptEvtAcManagSts</div> Command Parameter(s) : <div style="text-align: right;">Function_ID DH010170</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report event/action management status TC(8,5,108)	DCT92170 Event_Action (Def)	
3		Verify that TM(8,6,108) has been received		Next Step: END
		Only one of the following two types of TM packets will be received - If the function is started:		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch										
		Verify Packet Reception TM 8-6-108 Event Action Management Status Report - Running Idle Packet Details: <table style="margin-left: 200px;"> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>27903</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	27903	PI2:	0	EvtAcMngRun	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	27903													
PI2:	0													
		Verify Packet Telemetry Function_ID DE008170	= Event_Action	(None)										
		Verify Packet Telemetry EvtActManagSts DE328170	= RunningIdle	(None)										
		- If the function is stopped:												
		Verify Packet Reception TM 8-6-108 Event Action Management Status Report - Stopped Packet Details: <table style="margin-left: 200px;"> <tr><td>APID:</td><td>16</td></tr> <tr><td>Type:</td><td>8</td></tr> <tr><td>Subtype:</td><td>6</td></tr> <tr><td>PI1:</td><td>27648</td></tr> <tr><td>PI2:</td><td>0</td></tr> </table>	APID:	16	Type:	8	Subtype:	6	PI1:	27648	PI2:	0	EvtAcMngStop	
APID:	16													
Type:	8													
Subtype:	6													
PI1:	27648													
PI2:	0													
		Verify Packet Telemetry Function_ID DE008170	= Event_Action	(None)										
		Verify Packet Telemetry EvtActManagSts DE328170	= Stopped	(None)										
TC Seq. Name :HFD3051B (Acquire detection list) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>														
4		Send TC(19,6) to acquire the detection list		Next Step: 5										
		Report Event Detection List telecommand is a request for a complete detection list; when this request is received, one or more TM(19,7) are generated. This request will be rejected in case an EAT Dump is already in progress and an event will be raised TM(1,2,0x806C).												
		Execute Telecommand ReptEvtActTable TC Control Flags : <table style="margin-left: 200px;"> <tr><td>GBM IL DSE</td></tr> <tr><td>--Y -- --</td></tr> </table> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	GBM IL DSE	--Y -- --	DCT86170									
GBM IL DSE														
--Y -- --														

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
5		Verify that one or more TM(19,7) have been received		Next Step: 6
		There will be one TM(19,7) for each non-spare entry (e.g. never used or deleted) of the event action table.		
		Verify Packet Reception TM 19-7 Event-Action Table Content Report Packet Details: <div style="text-align: right; margin-right: 20px;"> APID: 16 Type: 19 Subtype: 7 PI1: PI2: </div>	EvtActTblRpt	
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> RankInRpt DE316170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> Apid DE053170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> EventId DE068170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> ParamPassSts DE317170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> AfoStatus DE318170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> AfsStatus DE319170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> ActionStatus DE320170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrVerNum DEX31170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrPktId DEX30170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrType DEX32170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrDFHFlag DEX33170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrApid DEX34170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrSeqControl DEX35170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrSeqFlag DEX36170 </div>		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) <div style="text-align: right; margin-right: 20px;"> TcHdrSSC DEX37170 </div>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = EvtActTblRpt) TcHdrSeqSrc DEX38170		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) TcHdrSeqCounter DEX39170		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) TcHdrByteCount DEX3A170		
		Verify Packet Telemetry (Pkt = EvtActTblRpt) TcDataByte DEX3B170		
6		Verify that the event TM(5,1,108,2) has been received		Next Step: END
		This event is sent whenever a requested telemetry dump of TM(19,7) has ended. It contains the number of telemetry packets issued in the dump.		
		Verify Packet Reception CdmuAsw Event 5-1 TM 19-7 Dump Ended Packet Details: APID: 16 Type: 5 Subtype: 1 PI1: 27650 PI2: 0	D_EvRp_168	
		Verify Packet Telemetry (Pkt = D_EvRp_168) TM5xEventID DEZSJ170	= Tm19_7_DmpEnd	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_168) NrOfTmPktIssued DE072170		
		Verify Packet Telemetry (Pkt = D_EvRp_168) EventSeqCounter DE069170		
End of Procedure				