

Set timeout for ASW internal event filtering  
 File: H\_FCP\_DHS\_3004.xls  
 Author: S. Manganelli



## Procedure Summary

### Objectives

The ASW function "Event Filtering" is responsible of filtering of the events. Monitoring events are not filtered by this functionality, only ASWs own events.

This procedure describes the steps needed to modify the event filtering times.

### 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(8,1,117);
- Report Function Status TC(8,5,117).

Thus, if the function is stopped this procedure cannot be executed.

### 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

HFD3004

### Referenced Displays

ANDs      GRDs      SLDs  
 (None)

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
19/10/07		1	Created	cmevi-hp	
19/10/07		2	Reference to procedure H_FCP_DHS_3005A added.	cmevi-hp	

Status : Version 8 - Unchanged  
 Last Checkin: 01/12/08

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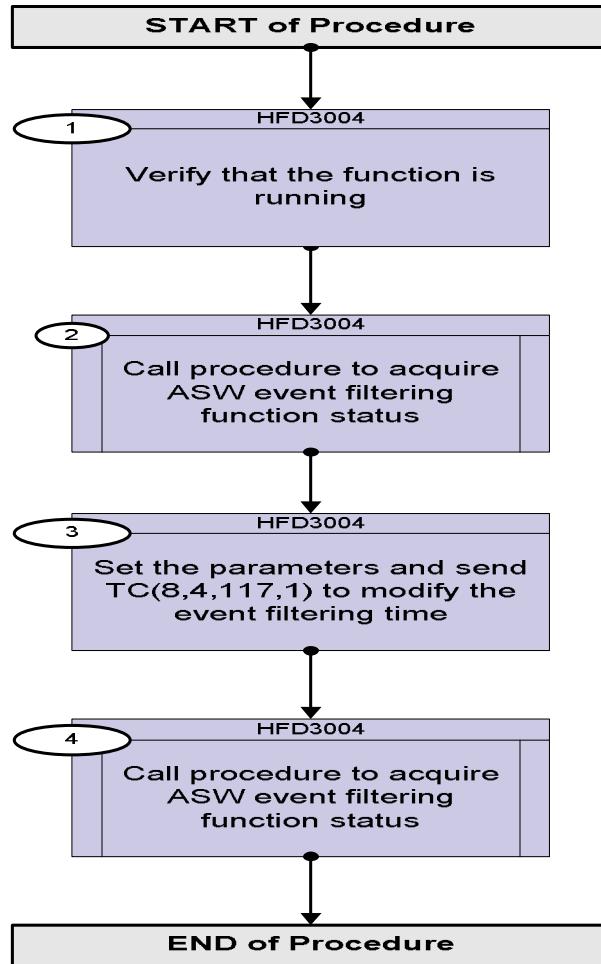


29/11/07		3	Formal parameters added.	cmevi-hp	
30/11/07		4	Name for formal parameters changed.	cmevi-hp	
30/11/07		5	Call to sequence added.	cmevi-hp	
03/12/07		6	Operation language changed to 'Generic'.	cmevi-hp	
16/01/08	1	7	Batch update of TC flags	S. Manganelli	
01/12/08	2	8	Modified per industry inputs 19 sep 08, plus added note for special case Thermistor Failure events	S. Manganelli	

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### Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
<p><i>TC Seq. Name :HFD3004 (Set EvFilter timeout)</i></p> <p><i>TimeTag Type: N</i>  <i>Sub Schedule ID:</i>  <i>Formal Parameter List :</i> &lt;dec&gt;            EvtFiltFunId FUNCTID= &lt;dec&gt;            EvtFiltEventId EVENTID=            EvtFiltTimeOut TIMEOUT=</p>				
1		Verify that the function is running		Next Step: 2
		Verify Telemetry  <div style="display: flex; justify-content: space-around;"> <span>EfSts</span> <span>DEG20170</span> </div>	= Running	(None)
2		Call procedure to acquire ASW event filtering function status		Next Step: 3
		Use procedure H_FCP_DHS_3005.		
3		Set the parameters and send TC(8,4,117,1) to modify the event filtering time		Next Step: 4
		<p><b>In the TC(8,4,117,1) it is necessary to set the following parameters:</b></p> <ul style="list-style-type: none"> <li>- Function ID</li> <li>- Event Id</li> <li>- New Event Filtering Time</li> </ul>		
		<p><b>Special case : Thermistor Failure Events</b></p> <p>(5,4,29189) Class A Thermistor Failure            (5,4,29190) Class B Thermistor Failure            (5,4,29191) Disabled Loop Thermistor Failure</p> <p>The thermistor failure is handled in a different way as there is no specific event for each thermistor being failed.</p> <p>In the normal event filtering, the filtering is applied to {event Id, function Id} pairs, but for the special case of <b>thermistor events</b>, the filter is applied to the {<b>event Id, thermistor Id</b>} pairs.</p> <p>For the reporting, <b>if filtering is applied on thermistor events</b>, they will be present in the general TM(8,6,117,2) though for them the report only includes an overall summary without details on the individual thermistors.</p> <p>In particular:            TOTAL_BLOCK_COUNT = as for any other entry, total Number of times the EVENT_ID has been blocked when generated from FUNCTION_ID, i.e. in this case this is the overall sum for all thermistors</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		LAST_BLOCK_COUNT = 0xFFFF  LAST_FIRST_BLOCK_OBT = 0xFFFF_FFFF_FFFF  LAST_LAST_BLOCK_OBT = 0xFFFF_FFFF_FFFF		
		Execute Telecommand <p style="text-align: right;"><b>EvFiltModTimeout_Templ</b></p> Command Parameter(s) : EvtFiltFunId                  DH077170 EvtFiltEventId              DH075170 EvtFiltTimeOut              DH076170	DCT48170	
		TC Control Flags : <p style="text-align: right;">                                  GBM IL DSE                                              --Y -- ---</p> Subsch. ID : 10 Det. descr. : TEMPLATE Modify Event Filtering TimeoutTC(8,4,117,1)		
4		Call procedure to acquire ASW event filtering function status		Next Step: END
		Use procedure H_FCP_DHS_3005.		
<b>End of Procedure</b>				