

ERD buffer dump
File: H_FCP_AOC_3011.xls
Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS procedure is to dump the SGM Event Buffer to support contingency investigations (N.B. their interpretation is beyond the scope of this procedure).

The procedure involves the following activities:

- select SGM buffer to dump first
- dump active SGMA or SGMB, as required
- dump passive SGMA or SGMB, as required

The ACMS provides a dedicated TC for the downloading of the event buffer. The TC also provides facilities for managing autonomously the switching between passive and active buffer for continuous storage of events.

The dump request is sent for the active buffer of one of the two SGM's. Apart from generating a series of TM(6,6) packets containing the ERD data, the ASW responds to this request by swapping the active and passive buffers so that events can be stored even while the dump is in progress. Therefore, if the buffer is dumped also from the redundant SGM, the user must select the passive buffer in order to obtain consistent data from both SGMs.

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

n/a

End of Procedure

n/a

Reference File(s)

Input Command Sequences

Output Command Sequences

HFA3011A
HFA3011B
HFA3011C
HFA3011D

Referenced Displays

ANDs	GRDs	SLDs
ZAA01999		

Configuration Control Information

Status : Version 2 - Unchanged
Last Checkin: 05/10/09

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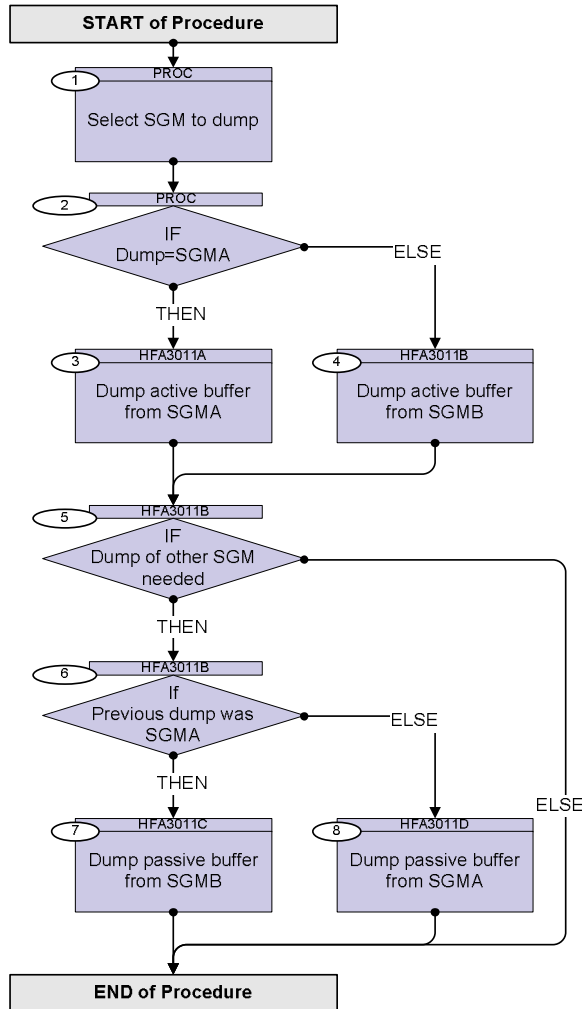


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
02/08/08	1	1	Created	dsalt-hp	
05/10/09	2.5	2	TM check and comment added in Step 1 to determine the SGM in use and clarify options, respectively	dsalt-hp	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
PROC Procedure Properties				
SSID :				
1		Select SGM to dump		Next Step: 2
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		NOTE: If both SGM A & B are in use then the choice of which to dump first becomes arbitrary, so EITHER Execute Step 3 then 7 OR Execute Step 4 then 8		
2		IF Dump=SGMA		Next Step: THEN 3 ELSE 4
TC Seq. Name :HFA3011A (Active SGMA)				
TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
3		Dump active buffer from SGMA		Next Step: 5
		Execute Telecommand Dump event SGMA act buf Command Parameter(s) : EventDmpDF86Cmd AH8R1001 Enable 86 EventDmpDD86Cmd AH8R2001 Disable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - Dump event SGMA act buf	ACZ1X109	
		Wait for the completion of the dump. The size of the ERD buffer is 51200 bytes		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
TC Seq. Name :HFA3011B (Active SGMB) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
4		Dump active buffer from SGMB		Next Step: 5
		Execute Telecommand <p style="text-align: center;">Dump event SGMB act buf</p> Command Parameter(s) : EventDmpDF86Cmd AH8R1001 Enable 86 EventDmpDD86Cmd AH8R2001 Disable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Dump event SGMB act buf	ACZ3X109	
		Wait for the completion of the dump. The size of the ERD buffer is 51200 bytes		
5		IF Dump of other SGM needed		Next Step: THEN 6 ELSE END
6		If Previous dump was SGMA		Next Step: THEN 7 ELSE 8
TC Seq. Name :HFA3011C (Passive SGMB) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
7		Dump passive buffer from SGMB		Next Step: END
		Execute Telecommand <p style="text-align: center;">Dump event SGMB pas buf</p> Command Parameter(s) : EventDmpDF86Cmd AH8R1001 Enable 86 EventDmpDD86Cmd AH8R2001 Disable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Dump event SGMB pas buf	ACZ4X109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Wait for the completion of the dump. The size of the ERD buffer is 51200 bytes		
TC Seq. Name :HFA3011D (Passive SGMA) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
8		Dump passive buffer from SGMA		Next Step: END
		Execute Telecommand <div style="text-align: right;">Dump event SGMA pas buf</div> Command Parameter(s) : EventDmpDF86Cmd AH8R1001 Enable 86 EventDmpDD86Cmd AH8R2001 Disable 86 TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- --</div> Subsch. ID : 20 Det. descr. : TC(8,1) - Dump event SGMA pas buf	ACZ2X109	
		Wait for the completion of the dump. The size of the ERD buffer is 51200 bytes		
End of Procedure				