Memory dump for STR main
File: H_FCP_AOC_4S51.xls
Author: dsalt-hp

Procedure Summary

Objectives

The objective of this Herschel ACMS procedure is to dump any area of STR memory (both RAM and EEPROM).

The procedure involves the following activities:
- verify STRmain mode is not INI
- command STRmain memory dump
- collect TM(6,6) dump packets

The ACMS ASW provides a dedicated function for executing STR memory dumps. This function manages both the collection of data from the STR and the transmission to the ground through standard service 6 memory dump packets.
No dedicated diagnostic packets are required.

Summary of Constraints

1. Spacecraft in ground contact to allow immediate procesing of the dump.
2. STR not in INI mode
3. The maximum duration of the dump is 42 minutes

Spacecraft Configuration

Start of Procedure

n/a

End of Procedure

n/a

Reference File(s)

Input Command Sequences

Output Command Sequences

HFA4S51A

Referenced Displays

ANDs **GRDs** **SLDs**

ZAA05999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
03/08/2008	1	1	Created	dsalt-hp	
22/07/2010	3.1	2	Warning about number of words having to be in multiples of 12 added in Step 2	dsalt-hp	

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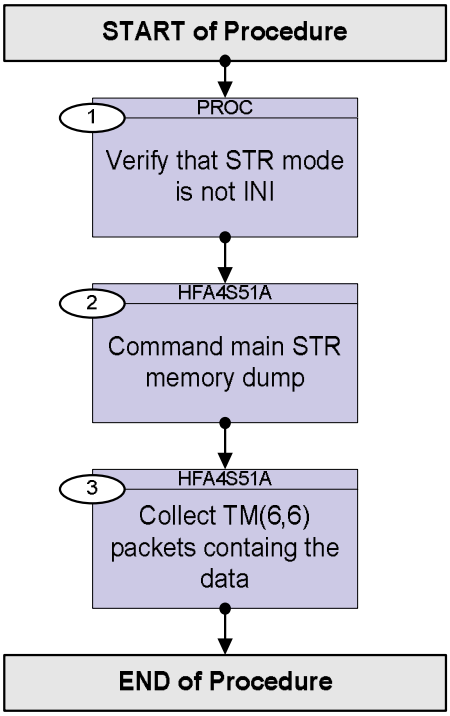
Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		PROC Procedure Properties *SSID :*		
1		*Verify that STR mode is not INI*		Next Step: 2
		In ACMS mode which the STR data are used for attitude determination, the STR cannot be in INI mode without triggering FDIR. The procedure can, however be executed also in SAM, in which there is no constraint on the STR mode so that explicit check is necessary to make sure that the download commands will not be rejecteded by the STR.		
		Verify Telemetry **STRM Mode AEX04001**	**<> Initialisation**	AND=ZAA05999
		TC Seq. Name :HFA4S51A (Dump STRM) *TimeTag Type:* *Sub Schedule ID:* □		
2		*Command main STR memory dump*		Next Step: 3
		Execute Telecommand **Dump STR-main SW**	**ACZ7P109**	
		Command Parameter(s) : **STRSw DF86 Cmd AH8U1001** **STRSw DD86 Cmd AH8U2001** **STRSw STR Mem AHFXM001** **STRSw Nr Words AHFXN001**	**Disable 86** **Disable 86** **<dec>** (Def) **<dec>** (Def)	
		TC Control Flags : **GBM IL DSE** **--Y -- ---** *SSID : 20* This Telecommand will not be included in the export		
		******* WARNING ******* **The number of dumped words must be a multiple of 12, otherwise the command will fail.**		
3		*Collect TM(6,6) packets containg the data*		Next Step: END
		The total duration of the dump can be as large as 42 minutes.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		End of Procedure		