Doc No. :PT-HMOC-OPS-FOP-6001-OPS-OAH

Fop Issue : 3.0
Issue Date: 13/04/10

Update STR EEPROM ground image from memory dump

File: H_FCP_OBS_2842.xls
Author: lstefanov-hp





Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform an STR1 or STR2 EEPROM dump monitoring against the ground image. The procedure assumes the following STR EEPROM areas are dumped: EAPPL_SW (including the Star Catalogues) Bad Pixel Table

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.

The memory dump is commanded using TC(8,4,130,125) and the memory locations content is received on ground in TM(6,6) packets.

The procedure assumes that the command stack has already been generated using the OBSM system and is ready for loading on the Manual Stack. The command stack generation activity is not covered by this procedure.

This procedure is called by the Herschel ACMS procedures ${\tt H_FCP_AOC_4S51}$ and ${\tt H_FCP_AOC_4S52}$.

Summary of Constraints

CDMU in Operational Mode

- ACC in Operational Mode
- STR NOT in INI Mode
- A maximum of 1536 32-bit words can be dumped with a single STR memory dump command
- The value of the 'STRSw Nr Words' parameter in the STR memory dump TC has to be a multiple of $12\,$
- The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of $4\,$
- STR Main telemetry is part of the essential and mode telemetry packets. If the STR selected for dump is not configured as MAIN, a diagnostic telemetry packet has to be enablen in order to verify the status of the physical unit.

Note: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.

Spacecraft Configuration

Start of Procedure

CDMU in Operational Mode

- ACC in Operational Mode

- STR NOT in INI Mode

End of Procedure

Same as start except:

- STR1 and/or STR2 EEPROM dump executed

Reference File(s)

Input Command Sequences

Status : Version 1 - Unchanged

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Output Command Sequences

OFCP284I OFCP284K

Referenced Displays

ANDs GRDs SLDs AA01X109

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
03/04/09	2.3	1	Created	Istefanov-hp	

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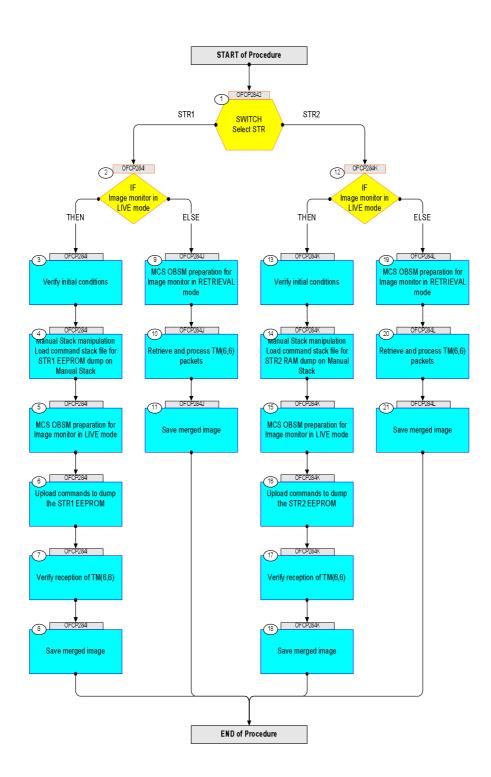
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Procedure Flowchart Overview



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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch AIT Co	mment
		Beginning of Procedure			
	OFCP2842	TC Seq. Name : OFCP2842 (STR EEPROM Dmp Mon) STR EEPROM dump monitoring			
		TimeTag Type:			
		Sub Schedule ID:			
			I	Novt Cton:	
1		SWITCH		Next Step: STR1 2	
		Select STR		STR2 12	
		type: [Switch]			
		End of Sequence			
	OFCP284I	TC Seq. Name : OFCP284I (STR1 EEPROM DmpMon I) STR1 EEPROM dump monitoring in LIVE mode			
	UFUF2041				
		TimeTag Type: B Sub Schedule ID:			
2		IF		Next Step: THEN 3	
		Image monitor in LIVE mode		ELSE 9	
		type: [If]			
				North Chan	
3		Verify initial conditions		Next Step:	
		Check:			
		- CDMU in Operational Mode - ACC in Operational Mode			
		- STR1 NOT in INI Mode			
		Note:			
		In ACMS mode in 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.			
		CDMU SOE to confirm CDMU mode			
		AOCS SOE to confirm ACC and STR mode			
		Note: STR Main telemetry is part of the essential and mode			
		telemetry packets. If not configured as MAIN, a diagnostic telemetry packet has to be enabled in order			
		to verify the status of the physical unit. This is executed in calling procedure H_SVT_AOC_4S51			
		or H_SVT_AOC_4S51			
		Verify Telemetry STRM Mode AEX04001	<> Initialisation	AND=AA01X109	
		OR			
		Verify Telemetry Operating Mode AMX12074	<> Initialisation	AND=AA01X109	
1	1				

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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
4		Manual Stack manipulation		Next Step: 5	
		Load command stack file for STR1 EEPROM dump on Manual			
		Stack			
		NOTE:			
		The current procedure assumes that the memory dump in Live mode is performed using commands with immediate			
		execution.			
		Select the File -> LoadStack option from the main menu of the Manual Stack window			
		ment of the Manual Stack Window			
		Select file			
		STR1EEPG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.			
		machine			
		from directory			
		/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/STR1EEPG			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		${\tt XXXXYYYY}$ = Image ID(X) and Version(Y) - depend on image used for stack generation			
		YYYY_DDD hhmmss - depend on stack generation time			
		machine - depends on the name of the machine used for			
		stack generation			
		File name examples			
		- No model associated to the memory image:			
		STR1EEPG_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT STR1EEPG1, ID 0003, Version 001 associated to the			
		memory image:			
		 STR1EEPG_DI_0002001_C_STR1EEPG1_0003001_2007_337T09332			
		0.sun043			
<u> </u>					
4.1		Check memory dump command stack loaded			
***************************************		For a full STR EEPROM dump :			
		Start Address = 0400.0000 hex End Address = 0407.FFDF hex Length = 1FFF8 hex (32-bit words)			
		<pre>IMPORTANT: The STR memory is addressed in 32-bit words, while the</pre>			
		address propagation is done at byte level. The start			
		address of any service 6 TC shall to be a multiple of 4.			

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No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Following steps assume a complete dump of the STR1 EEPROM, including following memory areas: EAPPL_SW (including Star Catalogues) Bad Pixel Table IF one or several other partial dumps of the STR1 EEPROM are commanded, the number of dump TCs, start address and length will be different.			
4.1.1		Check number of memory dump commands in the stack			
		IMPORTANT: A maximum of 1536 32-bit words can be dumped with a single STR memory dump command.			
		IMPORTANT: The value of the 'STRSw Nr Words' parameter in TC ACXD1001 has to be always a multiple of 12.			
		Note: For full STR1 EEPROM dump, the stack contains: 86 TCs ACXD1001			
4.1.2		Check start address and length of the first dump command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the first ACXD1001 command: STRSw STR Mem = 0400.0000 hex STRSw Nr Words = 1536 dec (32-bit words) IMPORTANT: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.			
		STRSW STR ID AHFXU001 STRSW STR Mem AHFXM001 STRSW Nr Words AHFXN001 TC Control Flags: GBM IL DSEY Subsch. ID: 20 Det. descr.: TC_DUMP_STR_SOFTWARE	ACXD1001 STRSwHandling (Def) Dumping (Def) Disable 86 (Def) Disable 86 (Def) STR-1 04000000 <hex> 1536 <dec></dec></hex>	TC	
4.1.3		This Telecommand will not be included in the export Check start address and length of the last dump command in the stack			

Update STR EEPROM ground image from memory dump

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		With the Manual Stack in 'Full mode', check the Start Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the last ACXD1001 command: STRSw STR Mem = 0407.FE00 hex STRSw Nr Words = 120 dec (32-bit words) IMPORTANT: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4. Execute Telecommand		TC	
		Dump STR software	ACXD1001	TC	
		STRSw DD86 Cmd AH8U2001	STRSwHandling (Def) Dumping (Def) Disable 86 (Def) Disable 86 (Def) STR-1 0407FE00 <he><</he>		
		TC Control Flags : GBM IL DSE			
		Subsch. ID : 20 Det. descr. : TC_DUMP_STR_SOFTWARE			
		This Telecommand will not be included in the export			
5		MCS OBSM preparation for Image monitor in LIVE mode		Next Step: 6	
		Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
5.1		Select 'Image MONITOR' from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select Monitor.			
		The 'Image Catalog' window opens.			
5.2		Select image to be monitored			
		Select the image to be monitored for the memory device STR1EEPG.			
		The 'Image MONITOR' window opens.			
5.3		Start dump TM processing			

Update STR EEPROM ground image from memory dump

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	11110	In LIVE mode, processing of incoming real-time	10/1211	Dispidy/ Didner	TITI COMMETTE
		telemetry starts automatically after the image selection.			
		5616613011			
6		Upload commands to dump the STR1 EEPROM		Next Step:	
		Uplink the ACXD1001 memory dump commands with ARM-GO			
		oprime the homorous memory dump commands with him do			
		After successful execution of each command, 2 TM(6,6) packets shall be received on ground.			
		packets shall be received on ground.			
7		Verify reception of TM(6,6)		Next Step: 8	
		Note: 2 TM(6,6) packets will be received for each memory			
		dump command uplinked.			
		Verify Packet Reception			
		Memory Dump - Absolute Addresses - SAU 8			
		Packet Mnemonic : MemDmpAbsAdd			
		APID: 512 Type: 6			
		Subtype : 6 PI1 :			
		PI2 :			
7.1		Check OBSM dump packet processing			
		Charle that the ODGM is assessing the insuring			
		Check that the OBSM is processing the incoming memory dump packets.			
7.2		Check contents of memory dump packets			
		Verify that there are NO OBSM reported differences			
		between the memory dump data and the ground image used			
		for monitoring.			
		IF there are differences reported by OBSM between the			
		dump data and the ground image, the merged image shall be saved for offline analysis.			
				Nort Stori	
8		Save merged image		Next Step: END	
		Liver Control of the			
		WAIT for execution completion of the last dump command.			
		IF there are mismatches reported by OBSM, save merged image with new ID.			
		Conduct off-line analysis of the reported mismatches.			
		End of Sequence			

Update STR EEPROM ground image from memory dump

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Step	mi		mg (mr.)	Discolar (Durana)	3.Tm Gammanh
No.	Time	Activity/Remarks TC Seq. Name : OFCP284J (STR1 EEPORM DmpMon J)	TC/TLM	Display/ Branch	AIT Comment
	OFCP284J	STR1 EEPROM dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID:			
	1			Next Step:	
9		MCS OBSM preparation for Image monitor in RETRIEVAL mode		10	
		Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
9.1		Select 'Image MONITOR' from the menu			
		Select the Image menu of the OBSM Desktop. From the Image menu, select Monitor. The 'Image Catalog' window opens.			
9.2		Select image to be monitord			
		Select the image to be monitored for the memory device STRIEEPG. The 'Image MONITOR' window opens.			
9.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons.			
10		Retrieve and process TM(6,6) packets		Next Step:	
		Use the STEP button to retrieve and process the TM(6,6) packets, packet by packet and starting from the time shown in the packet time field.			
		OR .			
		Use the PLAY button to retrieve and process the TM(6,6) packets in automated mode. Pressing the PLAY button, the display will start to retrieve and process packets, starting from the time shown in the packet time field. This processing will stop automatically when a packet is received which creation time is greater than the one contained in the			
		end time field.			

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Step	Time	Data inite / Damanha	mg/mr.w	Display/ Branch AIT Comment
No.	Time	Activity/Remarks	TC/TLM	
11		Save merged image		Next Step: END
		WAIT for retrieval completion of the last dump packet.		
		wall for reciteval completion of the last dump packet.		
		IF there are mismatches reported by OBSM, save merged		
		image with new ID.		
		Conduct off-line analysis of the reported mismatches.		
		End of Sequence TC Seq. Name : OFCP284K (STR2 EEPROM DmpMon K)		
	OFCP284K	STR2 EEPROM dump monitoring in LIVE mode		
		TimeTag Type: B		
		Sub Schedule ID:		
				North Chart
12		IF		Next Step: THEN 13
		Image monitor in LIVE mode		ELSE 19
		type: [If]		
				North Chant
13		Verify initial conditions		Next Step:
		Check:		
		- CDMU in Operational Mode - ACC in Operational Mode		
		- STR1 NOT in INI Mode		
		Note:		
		In ACMS mode in 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.		
		CDMU SOE to confirm CDMU mode		
		AOCS SOE to confirm ACC and STR mode		
		Note:		
		STR Main telemetry is part of the essential and mode telemetry packets. If not configured as MAIN, a		
		diagnostic telemetry packet has to be enabled in order		
		to verify the status of the physical unit. This is executed in calling procedure H_SVT_AOC_4S51		
		or H_SVT_AOC_4S52.		
		Verify Telemetry		
		STRM Mode AEX04001	<> Initialisation	AND=AA01X109
		OR		
		Verify Telemetry Operating Mode AMX12074	<> Initialisation	AND=AA01X109
I	1		1	I

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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch Next Step:	AIT Comment
14		Manual Stack manipulation		15	
		Load command stack file for STR2 RAM dump on Manual			
		Stack			
		NOTE:			
		The current procedure assumes that the memory dump in			
		Live mode is performed using commands with immediate			
		execution.			
		Select the File -> LoadStack option from the main			
		menu of the Manual Stack window			
		Select file			
		STR2EEPG_DI_XXXXYYY_N_NoModel_NoModel_YYYYY_DDDThhmmss.			
		machine			
		from directory			
		/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB			
		SM/STR2EEPG			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		THI OKTANI .			
		XXXXYYYY = Image ID(X) and Version(Y) - depend on			
		image used for stack generation			
		YYYY_DDD hhmmss - depend on stack generation time			
		TITI_DDD INMMSS - depend on stack generation time			
		machine - depends on the name of the machine used for			
		stack generation			
		File name examples		***************************************	**************************************
		- No model associated to the memory image:			
		STR2EEPG_DI_0002001_N_NoModel_NoModel_2007_254T123300.			
		sun043			
		- CT STR2EEPG1, ID 0003, Version 001 associated to the memory image:			
		memory rmage.			
		STR2EEPG_DI_0002001_C_STR2EEPG1_0003001_2007_337T09332			
		0.sun043			
14.1		Check memory dump command stack loaded			
		For a full STR EEPROM dump:			
		Start Address = 0400.0000 hex			
		End Address = 0407.FFDF hex			
		Length = 1FFF8 hex (32-bit words)			
		IMPORTANT:			
		The STR memory is addressed in 32-bit words, while the			
		address propagation is done at byte level. The start			
		address of any service 6 TC shall to be a multiple of			
		4.			

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	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	Note: Following steps assume a complete dump of the STR1 EEPROM, including following memory areas: EAPPL_SW (including Star Catalogues) Bad Pixel Table IF one or several other partial dumps of the STR1 EEPROM are commanded, the number of dump TCs, start address and length will be different.			
14.1.1	Check number of memory dump commands in the stack			
	Note: A maximum of 1536 32-bit words can be dumped with a single STR memory dump command.			
	<pre>IMPORTANT: The value of the 'STRSw Nr Words' parameter in TC ACXD1001 has to be always a multiple of 12.</pre>			
	Note: For full STR EEPROM dump, the stack contains: 86 TCs ACXD1001			
14.1.2	Check start address and length of the first dump command in the stack			
	With the Manual Stack in 'Full mode', check the Start Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the first ACXD1001 command: STRSw STR Mem = 0400.0000 hex STRSw Nr Words = 1536 dec (32-bit words) IMPORTANT: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.			
	STRSW DF86 Cmd	ACXD1001 STRSwHandling (Def) Dumping (Def) Disable 86 (Def) Disable 86 (Def) STR-2 04000000 <hex> 1536 <dec></dec></hex>	TC	
14.1.3	This Telecommand will not be included in the export Check start address and length of the last dump command in the stack			

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Step	mi	National Community	ma /mr	Dismlan (Days)	ATM Comment
No.	Time	Activity/Remarks With the Manual Stack in 'Full mode', check the Start Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the last ACXD1001 command: STRSw STR Mem = 0407.FE00 hex STRSw Nr Words = 120 dec (32-bit words) IMPORTANT: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.		Display/ Branch	AIT Comment
		Execute Telecommand Dump STR software	ACXD1001	TC	
		### Command Parameter(s): ### ASW Function ID	STRSwHandling (Def) Dumping (Def) Disable 86 (Def) Disable 86 (Def) STR-2 0407FE00 <hex> 120 <dec></dec></hex>		
				Next Step:	
15		Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.		16	
15.1		Select 'Image MONITOR' from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select Monitor. The 'Image Catalog' window opens.			
15.2		Select image to be monitored			
		Select the image to be monitored for the memory device STR2RMPG. The 'Image MONITOR' window opens			
		The 'Image MONITOR' window opens.			
15.3		Start dump TM processing			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch AIT Comment
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image		
		selection.		
16		Upload commands to dump the STR2 EEPROM		Next Step:
		opening of the party of the par		
		Uplink the ACXD1001 memory dump commands with ARM-GO		
		After successful execution of each command, 2 TM(6,6)		
		packets shall be received on ground.		
17		Verify reception of TM(6,6)		Next Step: 18
		Note:		
		2 TM(6,6) packets will be received for each memory dump command uplinked.		
		dang Command aprinced.		
		Verify Packet Reception		
		Memory Dump - Absolute Addresses - SAU 8		
		Packet Mnemonic: MemDmpAbsAdd APID: 512		
		Type: 6		
		Subtype : 6 PI1 :		
		PI2 :		
17.1		Check OBSM dump packet processing		
17.1		check obside dump packet processing		
		Check that the OBSM is processing the incoming memory		
		dump packets.		
17.2		Check contents of memory dump packets		
		Verify that there are NO OBSM reported differences		
		between the memory dump data and the ground image used		
		for monitoring.		
		IF there are differences reported by OBSM between the dump data and the ground image, the merged image shall		
		be saved for offline analysis.		
1.0				Next Step:
18		Save merged image		END

		WAIT for execution completion of the last dump command.		
		IF there are mismatches reported by OBSM, save merged		
		image with new ID .		
		Conduct off-line analysis of the reported mismatches.		
		conduct off fine analysis of the reported mismatches.		
		End of Sequence		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	OFCP284L	TC Seq. Name :OFCP284L (STR2 EEPROM DmpMon L) STR2 EEPROM dump monitoring in Retrieval mode			
		TimeTag Type: Sub Schedule ID:			
		Sub Schedule ID:			
				Next Step:	
19		MCS OBSM preparation for Image monitor in RETRIEVAL mode		20	
		Note:			
		It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS			
		client. Starting the OBSM application is not covered by the			
		current procedure.			
19.1		Select 'Image MONITOR' from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select Monitor.			
		The 'Image Catalog' window opens.			
19.2		Select image to be monitored			
		Select the image to be monitored for the memory device STR2EEPG.			
		The 'Image MONITOR' window opens.			
10.2		Charle down TM markets managering			
19.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval			
		of TM packets using the PLAY buttons.			
20		Retrieve and process TM(6,6) packets		Next Step: 21	
		Use the STEP button to retrieve and process the			
		TM(6,6) packets, packet by packet and starting from the time shown in the packet time field.			
		OR .			
		Use the PLAY button to retrieve and process the $TM(6,6)$ packets in automated mode.			
		Pressing the PLAY button, the display will start to			
		retrieve and process packets, starting from the time shown in the packet time field. This processing will			
		stop automatically when a packet is received which creation time is greater than the one contained in the			
		end time field.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment			
	Time	TOUT VICE / ROMATES	10,1111	Dispidy/ Didneil	TITI COMMICTIC			
21		Save merged image		Next Step: END				
		WAIT for retrieval completion of the last dump packet.						
		IF there are mismatches reported by OBSM, save merged image with new ID.						
		Conduct off-line analysis of the reported mismatches.						
	End of Sequence							
	End of Procedure							

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