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

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

Update PACS SPU RAM Data DRAM ground image via memory dump

File: H_FCP_OBS_4249.xls
Author: lstefanov-hp





Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform a PACS SPU RAM Data DRAM ground image update from memory dump of one or several PACS SPU RAM Data DRAM memory areas. It is used for both SPU SWL and SPU LWL subsystems.

The memory dump is commanded using TC(6,5) 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.

Summary of Constraints

CDMU in Operational Mode

- PACS instrument in INIT mode (DPU ASW running)
- SPU ON
- DPU-SPU connection established

Memory areas are Dumped through TC(6,5); this TC will be delayed

when there is an ongoing:

- TC(6,2) Load Memory Using Absolute Addresses
- TC(6,5) Dump Memory Using Absolute Addresses
- TC(6,9) Check Memory Using Absolute Addresses
- TC(8,4,1,1) Copy Memory

Spacecraft Configuration

Start of Procedure

CDMU in Operational Mode

- PACS instrument in INIT mode (DPU ASW running)
- SPU ON
- DPU-SPU connection established

End of Procedure

Same as start

Reference File(s)

Input Command Sequences

Output Command Sequences

OFCP424m OFCP424o

Referenced Displays

ANDS GRDs SLDs

Configuration Control Information

Status : Version 1 - Unchanged

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DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
04/00/00		-		1	•

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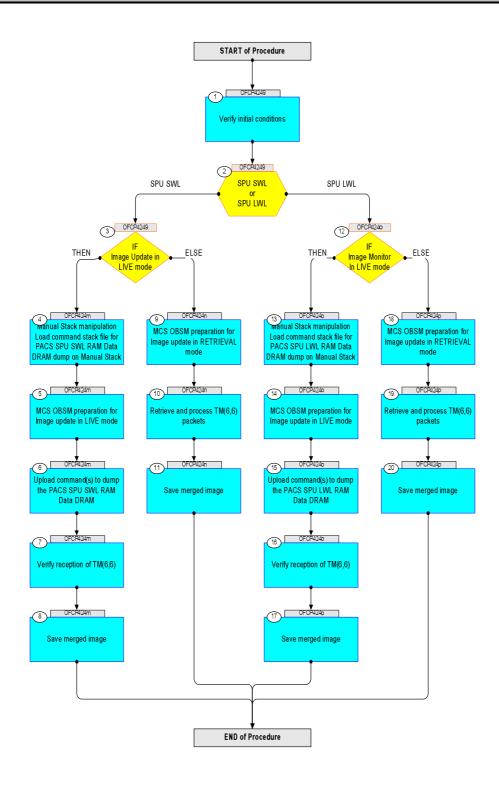
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Procedure Flowchart Overview



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Step					
No.	Time	Activity/Remarks Beginning of Procedure	TC/TLM	Display/ Branch	AIT Comment
		TC Seq. Name :OFCP4249 ()			
	OFCP4249	PACS SPU RAM Data DRAM ground image update			
		TimeTag Type: B Sub Schedule ID:			
1		Verify initial conditions		Next Step: 2	
		Check: - PACS instrument in INIT mode (DPU ASW running)			
		- SPU ON - DPU-SPU connection established			
		Instrument SOE to confirm PACS instrument mode and SPU			
		status.			
				Variable Charles	
2		SPU SWL		Next Step: SPU SWL 3	
		OT SPU LWL		SPU LWL 12	
		type: [Switch]			
				Next Step:	
3		IF Image Update in LIVE mode		THEN 4 ELSE 9	
		type: [If]			
		End of Sequence			
	OFCP424m	TC Seq. Name : OFCP424m () PACS SPU SWL RAM Data DRAM image update in Live mode			
	01 05424111	TimeTag Type: B			
		Sub Schedule ID:			
				Next Step:	
4		Manual Stack manipulation Load command stack file for PACS SPU SWL RAM Data DRAM		5	
		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			
4.1		IF PACS Nominal			
1	1				

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select file			
		PASPDDSW_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/PASPDDSW			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		<pre>XXXXYYYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</pre>			
		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:			
		PASPDDSW_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASPDDSW1, ID 0003, Version 001 associated to the memory image:			
		PASPDDSW_DI_0002001_C_PASPDDSW1_0003001_2007_337T09332 0.sun043			

4.2		ELSE PACS Redundant			
		Select file			
		PASDDSWR_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASDDSWR			
		as indicated by the OBSM engineer			
-		IMPORTANT:			
		<pre>XXXXYYYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</pre>			
		YYYY_DDD hhmmss - depend on stack generation time			
		<pre>machine - depends on the name of the machine used for stack generation</pre>			
		File same examples			
		File name examples			
		- No model associated to the memory image: PASDDSWR_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043			
		- CT PASDDSWR1, ID 0003, Version 001 associated to the memory image:			
		PASDDSWR_DI_0002001_C_PASDDSWR1_0003001_2007_337T09332 0.sun043			
I					

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4.3	Check command stack loaded			
	Check that loaded stack contains one or PC028380	several TCs		
	Display the Manual Stack in 'Full mode' the Memory ID parameter in the PC028380			
	set to 54 hex:			
	Memory ID = 54 hex			
	Note: The Memory ID of the target memory devic	e is stored in		
	the MSB of the 16-bit long Mem ID TC par. The LSB of the same parameter carries th			
	significant 8 bits of the Start Address.			
	Execute Telecommand		TC	
		EMORY_DUMP PC028380	= 3	
	Command Parameter(s) : DPU MEMORY BLOCK ID	PP009380 54xx hex		
	DPU_MEMORY_ADDR DPU_DATA_LENGTH	PP003380		
	TC Control Flags :	race (Del)		
		GBM IL DSE Y		
	Subsch. ID : 90 Det. descr. : DUMP OF A DPU MEMORY AREA			
	This Telecommand will not be included in	the export		
5	MCS OBSM preparation for Image update i	n LIVE mode	Next Step:	
	Note:			
	It is assumed that the OBSM application running and the OBSM Desktop is displayed			
	client. Starting the OBSM application is not cov	ered by the		
	current procedure.			
5.1	Select 'Image UPDATE' from the menu			
	Colorb the Zurer way 5 12	_		
	Select the Image menu of the OBSM Deskto . From the Image menu, select Update .	P ·		
	The 'Image Catalog' window opens.			
	THE Image Catalog window opens.			
5.2	Select image to be updated			
5.2.1	IF			
J. Z. I	PACS Nominal			

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Update PACS SPU RAM Data DRAM ground image via memory dump

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Step					
No.	Time	Activity/Remarks Select the image to be updated for the memory device	TC/TLM	Display/ Branch	AIT Comment
		PASPDDSW.			
		The 'Image UPDATE' window opens.			
5.2.2		ELSE			
		PACS Redundant			
		Select the image to be updated for the memory device			
		PASDDSWR.			
		The 'Image UPDATE' window opens.			
5.3		Start dump TM processing			
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image			
		selection.			
				Next Step:	
6		Upload command(s) to dump the PACS SPU SWL RAM Data		7	
		Uplink the PC028380 memory dump command(s) with ARM-GO			
		For each command, one or more $TM(6,6)$ packets must be received on ground.			
7		Verify reception of TM(6,6)		Next Step: 8	
		Note:			
		One or more $TM(6,6)$ packets will be received for each memory dump command uplinked.			
7.1		IF			
		PACS Prime			
		Verify Packet Reception			
		MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP			
		APID: 1152 Type: 6			
		Subtype : 6 PI1 :			
		P12 :			
7.2		ELSE			
		PACS Redundant			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception	10,12		
		MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP			
		APID: 1153 Type: 6			
		Subtype : 6 PI1 :			
		PI2 :			
7.3		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
				Next Step:	
8		Save merged image		END	
		Save merged image with new ID.			
		End of Sequence TC Seq. Name : OFCP424n ()			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type:			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type:			
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL		Next Step:	
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID:			
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL			
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL			
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode Note:			
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS			
9	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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			
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	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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. Select 'Image UPDATE' from the menu Select the Image menu of the OBSM Desktop. From the Image menu, select Update.			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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. Select 'Image UPDATE' from the menu Select the Image menu of the OBSM Desktop.			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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. Select 'Image UPDATE' from the menu Select the Image menu of the OBSM Desktop. From the Image menu, select Update.			
	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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. Select 'Image UPDATE' from the menu Select the Image menu of the OBSM Desktop. From the Image menu, select Update.			
9.1	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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. Select 'Image UPDATE' from the menu Select the Image menu of the OBSM Desktop. From the Image menu, select Update. The 'Image Catalog' window opens.			
9.1	OFCP424n	PACS SPU SWL RAM Data DRAM image update in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image update in RETRIEVAL mode 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. Select 'Image UPDATE' from the menu Select the Image menu of the OBSM Desktop. From the Image menu, select Update. The 'Image Catalog' window opens.			

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Update PACS SPU RAM Data DRAM ground image via memory dump

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Step				_, , , _ ,	
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
9.2.1		IF PACS Nominal			
		Select the image to be updated for the memory device			
		PASPDDSW.			
		The 'Image UPDATE' window opens.			
9.2.2		ELSE PACS Redundant			
		Select the image to be updated for the memory device			
		PASDDSWR.			
		The 'Image UPDATE' window opens.			
9.3		Start dump TM packets processing			
7.5		Source damp in passions processing			
		Set retrieval start time and start retrieval of TM			
		packets using the PLAY buttons.			
10		Retrieve and process TM(6,6) packets		Next Step:	
10		Recified and process in(0,0) packets			
		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.			
		cha criac freda.			
11		Save merged image		Next Step: END	
		Save merged image with new ID .			
		End of Sequence			
	OFCP424o	TC Seq. Name :OFCP424o () PACS SPU LWL RAM Data DRAM image update in Live mode			
		TimeTag Type: B			
		Sub Schedule ID:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
12		IF		Next Step: THEN 13	
		Image Monitor In LIVE mode		ELSE 18	
		type: [If]			
13		Manual Stack manipulation Load command stack file for PACS SPU LWL RAM Data DRAM dump on Manual Stack		Next Step: 14	
		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			
13.1		IF PACS Nominal			
		Select file			
		PASPDDLW_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASPDDLW			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		<pre>XXXXYYYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</pre>			
		YYYY_DDDD 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:			
		PASPDDLW_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASPDDLW1, ID 0003, Version 001 associated to the memory image:			
		PASPDDLW_DI_0002001_C_PASPDDLW1_0003001_2007_337T09332 0.sun043			
13.2		ELSE PACS Redundant			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select file	20,224		Comment
		PASDDLWR_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASDDLWR			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		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:			
		PASDDLWR_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASDDLWR1, ID 0003, Version 001 associated to the memory image:			
		PASDDLWR_DI_0002001_C_PASDDLWR1_0003001_2007_337T09332 0.sun043			
13.3		Check command stack loaded			
***************************************		Check that loaded stack contains one or several TCs PC028380			
		Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the PC028380 command(s) is set to 74 hex:			
		Memory ID = 74 hex			
		Note: The Memory ID of the target memory device is stored in the MSB of the 16-bit long Mem ID TC parameter. The LSB of the same parameter carries the most significant 8 bits of the Start Address.			
		Execute Telecommand		TC	
		DPU_MEMORY_DUMP	PC028380		
		Command Parameter(s): DPU_MEMORY_BLOCK_ID PP009380	74xx		
		DPU_MEMORY_ADDR PP003380 DPU_DATA_LENGTH PP008380	<hex> (Def) <dec> (Def)</dec></hex>		
		TC Control Flags :			
		GBM IL DSE			
		Subsch. TD: 90 Det. descr.: DUMP OF A DPU MEMORY AREA This Telecommand will not be included in the export			
		and refecommand will not be included in the export			
***************************************				Next Step:	
14		MCS OBSM preparation for Image update in LIVE mode		15	

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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		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.			
14.1		Select 'Image UPDATE' from the menu			
eson som som som som som omnorma		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select Update.			
		The 'Image Catalog' window opens.			
14.2		Select image to be updated			
14.2.1		IF PACS Nominal			
		Select the image to be updated for the memory device			
		PASPDDLW. The 'Image UPDATE' window opens.			
14.2.2		ELSE PACS Redundant			
		Select the image to be updated for the memory device PASDDLWR.			
		The 'Image UPDATE' window opens.			
14.3		Start dump TM processing			
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection.			
				Next Step:	
15		Upload command(s) to dump the PACS SPU LWL RAM Data DRAM		16	
		Uplink the PC028380 memory dump command(s) with ARM-GO			
		For each command, one or more TM(6,6) packets must be received on ground.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
16		Verify reception of TM(6,6)		Next Step:	
10		verify reception of IM(0,0)		1,	
		Note:			
		One or more TM(6,6) packets will be received for each			
		memory dump command uplinked.			
16.1		IF			
		PACS Prime			
		Verify Packet Reception			
		MEMORY_DUMP			
		Packet Mnemonic : MEMORY_DUMP			
		APID: 1152 Type: 6			
		Subtype : 6 PI1 :			
		PI2:			
16.2		77.07			
16.2		ELSE PACS Redundant			
		Verify Packet Reception			
		MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP			
		APID: 1153			
		Type: 6 Subtype: 6			
		PI1 : PI2 :			
16.3		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory			
		dump packets.			
				Next Step:	
17		Save merged image		END	
		Save merged image with new ID .			
		End of Sequence		1	
	OFCP424p	TC Seq. Name :OFCP424p () PACS SPU LWL RAM Data DRAM image update in Retrieval mode			
		TimeTag Type:			
		Sub Schedule ID:			

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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch Next Step:	AIT Comment
18		MCS OBSM preparation for Image update in RETRIEVAL mode		19	
		mode			
		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.			
18.1		Select 'Image UPDATE' from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select Update.			
		The 'Image Catalog' window opens.			
		The Timage Catalog Window opens.			

18.2		Select image to be updated			
18.2.1		IF PACS Nominal			
		PACS NUMITIAL			
		Select the image to be updated for the memory device PASPDDLW.			
		The 'Image UPDATE' window opens.			
18.2.2		ELSE			
		PACS Redundant			
		Select the image to be updated for the memory device			
		PASDDLWR.			
		The 'Image UPDATE' window opens.			
18.3		Start dump TM packets processing			
		Set retrieval start time and start retrieval of TM			
		packets using the PLAY buttons.			
19		Retrieve and process TM(6,6) packets		Next Step: 20	
		The state of the s			

Update PACS SPU RAM Data DRAM ground image via memory dump

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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		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.			
20		Company of the company		Next Step:	
20		Save merged image		END	
		Save merged image with new ID.			
End of Sequence					
End of Procedure					

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