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

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

Monitor dump of SPU EEPROM memory area

File: H_FCP_OBS_4240.xls Author: Liviu Stefanov





Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform the dump monitoring of one or several PACS SPU EEPROM 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

OFCP424A OFCP424C

Referenced Displays

ANDS GRDs SLDs

Configuration Control Information

DATE	FOP ISSUE VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
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30/01/08		1	Created	Istefanov-hp	
30/01/08	1	2	corrected typo in TC Sequence Names OFCP424B and OFCP424D	Istefanov-hp	
04/09/08		3	1. added current steps 4.1 and 4.2 to separate dump stack load for PACS Nom and Red 2. added steps 5.2.1 and 5.2.2 to separate image selection for PACS Nom and Red 3. added steps 9.2.1 and 9.2.2 to separate image selection for PACS Nom and Red 4. added current steps 13.1 and 13.2 to separate dump stack load for PACS Nom and Red 5. added steps 14.2.1 and 14.2.2 to separate image selection for PACS Nom and Red 6. added steps 18.2.1 and 18.2.2 to separate image selection for PACS Nom and Red	Istefanov-hp	
04/09/08	2	4	updated initial conditions on cover page and in step 1	Istefanov-hp	

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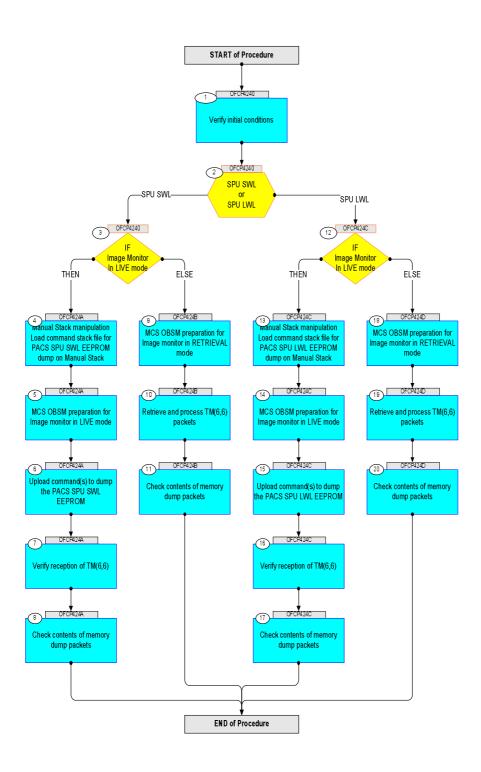
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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	TIME	Beginning of Procedure	IC, THE		111 Comment
		TC Seq. Name :OFCP4240 ()			
	OFCP4240	PACS SPU EEPROM dump monitoring			
		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			
		210 010 commedical epidazitaned			
		Instrument SOE to confirm PACS instrument mode and SPU status.			
		Scacas.			
				Next Step:	
2		SPU SWL		SPU SWL 3	
		or SPU LWL		SPU LWL 12	
		type: [Switch]			
		cype (Switch)			
				Next Step:	
3		IF		THEN 4 ELSE 9	
		Image Monitor In LIVE mode		ELSE 9	
		type: [If]			
		End of Sequence			
	OFCP424A	TC Seq. Name : OFCP424A () PACS SPU SWL EEPROM dump monitoring in LIVE mode			
	OI OF424A				
		TimeTag Type: B Sub Schedule ID:			
				Next Step:	
4		Manual Stack manipulation Load command stack file for PACS SPU SWL EEPROM dump		5	
		on Manual Stack			
		NOTE:			
		The current procedure assumes that the memory dump in Live mode is performed using commands with immediate			
		execution.			
		Colort the Pile . Tradet - Land Con			
		Select the File -> LoadStack option from the main menu of the Manual Stack window			
4.1		IF			
		PACS Nominal			
1	T.	i e	I	1	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select file			
		PASPEPSW_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASPEPSW			
		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:			
		PASPEPSW_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASPEPSW1, ID 0003, Version 001 associated to the memory image:			
		PASPEPSW_DI_0002001_C_PASPEPSW1_0003001_2007_337T09332 0.sun043			
4.2		ELSE PACS Redundant			
		Select file			
		PASEPSWR_DI_XXXXYYY_N_NoModel_NoModel_YYYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/PASEPSWR			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		$\begin{tabular}{lll} $XXXXYYYY$ = $Image ID(X)$ and $Version(Y)$ - depend on image used for stack generation \end{tabular}$			
		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:			
		PASEPSWR_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASEPSWR1, ID 0003, Version 001 associated to the memory image:			
		PASEPSWR_DI_0002001_C_PASEPSWR1_0003001_2007_337T09332 0.sun043			
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
4.3		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 43 hex:			
		Memory ID = 43 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 DPU MEMORY ADDR PP003380	43xx hex		
		DPU_MEMORY_ADDR PP003380 DPU_DATA_LENGTH PP008380	<hex> (Def) <dec> (Def)</dec></hex>		
		TC Control Flags : 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 monitor in LIVE mode		Next Step:	
3		nee ozen preparación rei image menicor in zirz 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.			

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			
5.2.1		IF			
		PACS Nominal			
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select the image to be monitored for the memory device PASPEPSW. The 'Image MONITOR' window opens.			
5.2.2		ELSE PACS Redundant			
		Select the image to be monitored for the memory device PASEPSWR. The 'Image MONITOR' window opens.			
5.3		Start dump TM processing			
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection.			
6		Upload command(s) to dump the PACS SPU SWL EEPROM		Next Step:	
		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 PII : PIZ :			
7.2		ELSE PACS Redundant			

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No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception			
		MEMORY_DUMP			
		Packet Mnemonic : MEMORY_DUMP			
		APID: 1153 Type: 6			
		Subtype: 6 PI1:			
		PI2:			
				Next Step:	
8		Check contents of memory dump packets		END	
		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.			
8.1		Save merged image			
		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 : OFCP424B ()			
	OFCP424B	PACS SPU SWL EEPROM dump monitoring in Retrieval mode			
		TimeTag Type: Sub Schedule ID:			
9		Sub Schedule ID:		Next Step:	
9				Next Step: 10	
9		Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL			
9		Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL			
9		Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL			
9		MCS OBSM preparation for Image monitor in RETRIEVAL mode Note: It is assumed that the OBSM application is already			
9		MCS OBSM preparation for Image monitor in RETRIEVAL mode Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client.			
9		MCS OBSM preparation for Image monitor in RETRIEVAL mode Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS			
9		MCS OBSM preparation for Image monitor 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			
9		MCS OBSM preparation for Image monitor 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			
9.1		MCS OBSM preparation for Image monitor 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			
		MCS OBSM preparation for Image monitor 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.			
		MCS OBSM preparation for Image monitor 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.			
		MCS OBSM preparation for Image monitor 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.			
		MCS OBSM preparation for Image monitor 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 MONITOR' from the menu Select the Image menu of the OBSM Desktop.			
		MCS OBSM preparation for Image monitor 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 MONITOR' from the menu Select the Image menu of the OBSM Desktop. From the Image menu, select Monitor.			
		MCS OBSM preparation for Image monitor 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 MONITOR' from the menu Select the Image menu of the OBSM Desktop.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
9.2		Select image to be monitored			
7.2		befeet image to be monitored			
9.2.1		IF PACS Nominal			
		Select the image to be monitored for the memory device PASPEPSW.			
		The 'Image MONITOR' window opens.			
		The limited notifies without opens.			
9.2.2		ELSE PACS Redundant			
		Sologt the image to be manifered for the memory device			
		Select the image to be monitored for the memory device PASEPSWR.			
		The 'Image MONITOR' window opens.			
0.2		Shark day my			
9.3		Start dump TM packets 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		Retrieve and process im(0,0) packets		11	
		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.			
11		Check contents of memory dump packets		Next Step: END	
		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.			
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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
11.1		Save merged image			
		IF there are mismatches reported by OBSM, save merged image with new ID.			
		Image with new 15 .			
		Conduct off-line analysis of the reported mismatches.			
		End of Sequence			
	OFCP424C	TC Seq. Name : OFCP424C () PACS SPU LWL EEPROM dump monitoring in LIVE mode			
	0. 00				
		TimeTag Type: B Sub Schedule ID:			
				Nevt Sten:	
12		IF		Next Step: THEN 13	
		Image Monitor In LIVE mode		ELSE 18	
		type: [If]			
				Next Step:	
13		Manual Stack manipulation Load command stack file for PACS SPU LWL EEPROM dump		14	
		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			
13.1		IF			
		PACS Nominal			
		Select file			
		PASPEPLW_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.			
		machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASPEPLW			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		XXXXYYYYY = 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			
		· · · · · · · · · · · · · · · · · · ·			

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Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		File name examples			
		- No model associated to the memory image:			
		PASPEPLW_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASPEPLW1, ID 0003, Version 001 associated to the memory image:			
		PASPEPLW_DI_0002001_C_PASPEPLW1_0003001_2007_337T09332 0.sun043			
13.2		ELSE PACS Redundant			
		Select file			
		PASEPLWR_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/PASEPLWR			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		<pre>XXXXYYYY = 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 name examples			
		- No model associated to the memory image:			
		PASEPLWR_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043			
		- CT PASEPLWR1, ID 0003, Version 001 associated to the memory image:			
		PASEPLWR_DI_0002001_C_PASEPLWR1_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 63 hex:			
		Memory ID = 63 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.			

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Step	Ti	Activity /Parada	TO /TT M	Dignlary Program	ATT Comment
No.	Time	Activity/Remarks Execute Telecommand	TC/TLM	Display/ Branch	AIT Comment
		DPU_MEMORY_DUMP	PC028380		
		Command Parameter(s) :			
		DPU_MEMORY_BLOCK_ID PP009380 DPU_MEMORY_ADDR PP003380	63xx <hex> (Def)</hex>		
		DPU_DATA_LENGTH PP008380	<dec> (Def)</dec>		
		TC Control Flags :			
		GBM IL DSE Y			
		Subsch. ID : 90			
		Det. descr. : DUMP OF A DPU MEMORY AREA This Telecommand will not be included in the export			
	nka kini ka kini kalindin gi mili gi kini gi dang nina gi mili gi mili mili mili mili mili mil				a dang atau gantung antan dan kalanda dan kahada dan kahadan gantung atau gantung dan ga dang dan kahada dan k
14		MCS OBSM preparation for Image monitor in LIVE mode		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.			
14.1		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.			
14.2		Select image to be monitored			
14.2.1		IF			
		PACS Nominal			
		Select the image to be monitored for the memory device			
		PASPEPLW.			
		The 'Image MONITOR' window opens.			

14.2.2		ELSE PACS Redundant			
		Select the image to be monitored for the memory device PASEPLWR.			
		The 'Image MONITOR' window opens.			

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Step				
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch AIT Comment
14.3		Start dump TM processing		
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection.		
15		Upload command(s) to dump the PACS SPU LWL EEPROM		Next Step: 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.		
16		Verify reception of TM(6,6)		Next Step: 17
		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		ELSE PACS Redundant		
		Verify Packet Reception MEMORY_DUMP Packet Mnemonic: MEMORY_DUMP APID: 1153 Type: 6 Subtype: 6 PI1: PI2:		
17		Check contents of memory dump packets		Next Step: END
		Verify that there are NO OBSM reported differences between the memory dump data and the ground image used for monitoring.		

Monitor dump of SPU EEPROM memory area

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Step	m.	2010-10-72	mg/	ni i -	3.T.M. G.
No.	Time	Activity/Remarks IF there are differences reported by OBSM between the	TC/TLM	Display/ Branch	AIT Comment
		dump data and the ground image, the merged image shall			
		be saved for offline analysis.			
17.1		Save merged image			
***************************************		IF there are mismatches reported by OBSM, save merged			
		image with new ID.			
		Conduct off-line analysis of the reported mismatches.			
		The doct Common on			
		End of Sequence TC Seq. Name : OFCP424D ()			
	OFCP424D	PACS SPU LWL EEPROM dump monitoring in Retrieval mode			
		TimeTag Type:			
		Sub Schedule ID:			
18		MCS OBSM preparation for Image monitor in RETRIEVAL		Next Step: 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 MONITOR' from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select Monitor.			
		The 'Image Catalog' window opens.			
		_			
18.2		Select image to be monitored			
18.2.1		IF			
		PACS Nominal			
		Select the image to be monitored for the memory device PASPEPLW.			
		The 'Image MONITOR' window opens.			
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Step								
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment			
18.2.2		ELSE PACS Redundant						
		Select the image to be monitored for the memory device PASEPLWR.						
		The 'Image MONITOR' window opens.						
18.3		Start dump TM packets processing						
		Set retrieval start time and start retrieval of TM packets using the PLAY buttons.						
				Next Step:				
19		Retrieve and process TM(6,6) packets		20				
		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		Check contents of memory dump packets		Next Step: END				
		Verify that there are NO OBSM reported differences between the memory dump data and the ground image used for monitoring.						
		<pre>IF there are differences reported by OBSM between the dump data and the ground image, the merged image shall be saved for offline analysis.</pre>						
20.1		Save merged image						
		<pre>IF there are mismatches reported by OBSM, save merged image with new ID.</pre>						
		Conduct off-line analysis of the reported mismatches.						
	End of Sequence							
End of Procedure								