

# Procedure Summary

# Objectives

This Herschel OBSM nominal procedure is used to perform the dump monitoring of one or several PACS SPU RAM Ext 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: –  ${\rm TC(6,2)}$  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

Same as start

- DPU-SPU connection established

End of Procedure

# Reference File(s)

Input Command Sequences

Output Command Sequences OFCP424a

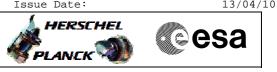
OFCP424c

## Referenced Displays

ANDS GRDS SLDS

Configuration Control Information

Doc No.	:PT-HMOC-OPS-FOP-60	01-OPS-OAH
Fop Issue	:	3.0
Taquo Dato	•	12/04/10

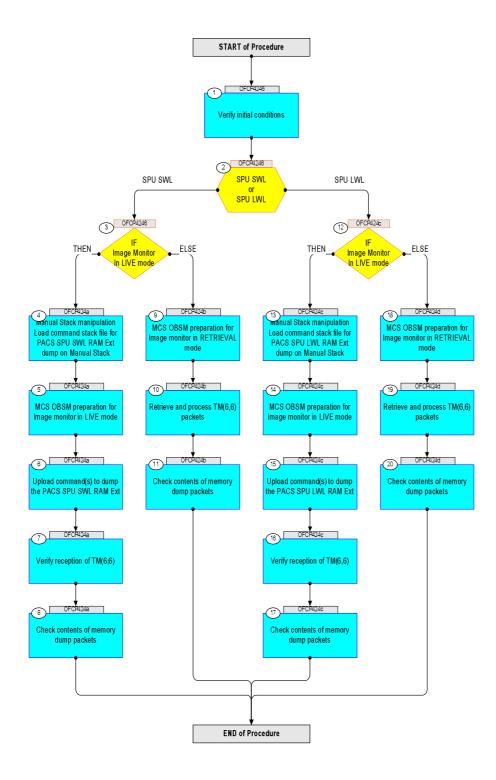


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/09/08	2	1	Created	lstefanov-hp	

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# Procedure Flowchart Overview





Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Beginning of Procedure			
	OFCP4246	TC Seq. Name :OFCP4246 ( ) PACS SPU RAM Ext dump monitoring			
	0.01.12.10	TimeTag Type: B			
		Sub Schedule ID:			
				Next Step:	
1		Verify initial conditions		2	
		Check:			
		- PACS instrument in <b>INIT mode</b> (DPU ASW running) - SPU ON			
		- DPU-SPU connection established			
		Instrument SOE to confirm PACS instrument mode and SPU status.			
2		SPU SWL		Next Step: SPU SWL 3	
		or SPU LWL		SPU LWL 12	
		type: [Switch]			
3		IF Image Monitor		Next Step: THEN 4 ELSE 9	
		In LIVE mode			
		type: [If]			
		End of Sequence			
	OFCP424a	<i>TC Seq. Name</i> :OFCP424a ( ) PACS SPU SWL RAM Ext dump monitoring in LIVE mode			
		TimeTag Type: B Sub Schedule ID:			
		Sub Schedule 1D:			
4		Manual Stack manipulation		Next Step: 5	
		Load command stack file for PACS SPU SWL RAM Ext 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			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select file			
		PASPRESW_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss. machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB			
		SM/PASPRESW			
		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 <b>examples</b>			
		- No model associated to the memory image:			
		PASPRESW_DI_0002001_N_NoModel_NoModel_2007_254T123300.			
		sun043			
		- CT PASPRESW1, ID 0003, Version 001 associated to the memory image:			
		PASPRESW_DI_0002001_C_PASPRESW1_0003001_2007_337T09332			
		0.sun043			
4.2		ELSE			
		PACS Redundant			
		Select file			
		PASRESWR_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss. machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB			
		SM/PASRESWR			
		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			
		<pre>machine - depends on the name of the machine used for stack generation</pre>			
		File name <b>examples</b>			
		- No model associated to the memory image:			
		PASRESWR_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043			
		- CT PASRESWR1, ID 0003, Version 001 associated to the			
		memory image:			
		PASRESWR_DI_0002001_C_PASRESWR1_0003001_2007_337T09332 0.sun043			



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 <b>Memory ID</b> parameter in the PC028380 command(s) is			
		set to <b>52 hex:</b>			
		Memory ID = 52 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		тс	
		DPU_MEMORY_DUMP	PC028380		
		Command Parameter(s) : DPU_MEMORY_BLOCK_ID PP009380	52xx 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: 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 <b>Image</b> menu of the <b>OBSM Desktop</b> .			
		From the Image menu, select Monitor.			
		The 'Image Catalog' window opens.			
		ine image catalog window opens.			
5.2		Select image to be monitored			
F 0 1					
5.2.1		IF PACS Nominal			

7.2



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select the image to be monitored for the memory device <b>PASPRESW.</b>			
		The 'Image MONITOR' window opens.			
5.2.2		ELSE PACS Redundant			
		Select the image to be monitored for the memory device <b>PASRESWR</b> .			
		The 'Image MONITOR' window opens.			
		The Things Montrok window opend.			
5.3		Start dump TM processing			
		In <b>LIVE</b> mode, processing of incoming real-time			
		telemetry starts automatically after the image selection.			
6		Upload command(s) to dump the PACS SPU SWL RAM Ext		Next Step: 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 1152 6 6

MEMORY\_DUMP

PI1 : PI2 :

ELSE PACS Redundant

Packet Mnemonic : APID : Type : Subtype :



Step					
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 Of en t	
8		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 <b>differences</b> reported by OBSM between the dump data and the ground image, <b>the merged image shall</b>			
		be saved for offline analysis.			
8.1		Course reward image			
0.1		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			
	OFCP424b	End of Sequence TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode			
	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode			
	OFCP424b	TC Seq. Name : OFCP424b ( )			
	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type:			
	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type:			
	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type:		Next Step:	
9	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL		Next Step: 10	
9	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID:			
9	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL			
9	OFCP424b	TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL			
9	OFCP424b	TC Seq. Name : OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: MCS OBSM preparation for Image monitor in RETRIEVAL mode Note:			
9	OFCP424b	<pre>TC Seq. Name : OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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</pre>			
9	OFCP424b	<pre>TC Seq. Name : OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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</pre>			
9	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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.</pre>			
9	OFCP424b	<pre>TC Seq. Name : OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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</pre>			
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9	OFCP424b	<pre>TC Seq. Name : OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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</pre>			
	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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.</pre>			
	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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</pre>			
	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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.</pre>			
	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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</pre>			
	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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.</pre>			
	OFCP424b	<pre>TC Seq. Name :OFCP424b ( ) PACS SPU SWL RAM Ext dump monitoring in Retrieval mode TimeTag Type: Sub Schedule ID: 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.</pre>			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
9.2		Select image to be monitored			
9.2.1		IF			
9.2.1		PACS Nominal			
		Select the image to be monitored for the memory device			
		PASPRESW.			
		The 'Image MONITOR' window opens.			
9.2.2		ELSE			
		PACS Redundant			
		Select the image to be monitored for the memory device <b>PASRESWR.</b>			
		The 'Image MONITOR' window opens.			
9.3		Start dump TM packets processing			
		Set retrieval start time and start retrieval of TM packets using the PLAY buttons.			
				Next Step:	
10		Retrieve and process TM(6,6) packets		11	
	1				
		Use the <b>STEP</b> 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 <b>PLAY</b> 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.			
				Next Obs.	
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 <b>differences</b> reported by OBSM between the			
		dump data and the ground image, the merged image shall			
		be saved for offline analysis.			
			L.,	I	



Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
11.1		Save merged image			
11.1		Save merged image			
		IF there are <b>mismatches</b> reported by OBSM, save merged			
		image with new ID.			
		Conduct off-line analysis of the reported mismatches.			
		End of Sequence TC Seq. Name :OFCP424c ( )			
	OFCP424c	PACS SPU LWL RAM Ext dump monitoring in LIVE mode			
		TimeTag Type: B			
		Sub Schedule ID:			
				Next Step:	
12		IF Image Monitor		THEN 13 ELSE 18	
		In LIVE mode			
		type: [If]			
13		Manual Stack manipulation		Next Step: 14	
		Load command stack file for PACS SPU LWL RAM Ext 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			
13.1		IF			
15.1		PACS Nominal			
		Select file			
		PASPRELW_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss. machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASPRELW			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		XXXXYYYY = Image ID(X) and Version(Y) - depend on			
		<pre>image used for stack generation YYYY_DDD hhmmss - depend on stack generation time</pre>			
		machine - depends on the name of the machine used for			
		machine - depends on the name of the machine used for stack generation			



Step	<b>m</b> inu a				
No.	Time	Activity/Remarks File name examples	TC/TLM	Display/ Branch	AIT Comment
		- No model associated to the memory image:			
		PASPRELW_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043			
		- CT PASPRELW1, ID 0003, Version 001 associated to the memory image:			
		PASPRELW_DI_0002001_C_PASPRELW1_0003001_2007_337T09332 0.sun043			
13.2		ELSE PACS Redundant			
		Select file			
		PASRELWR_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss. machine			
		from directory			
		/home/pmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/PASRELWR			
		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			
		<pre>machine - depends on the name of the machine used for stack generation</pre>			
		File name <b>examples</b>			
		- No model associated to the memory image:			
		PASRELWR_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043			
		- CT PASRELWR1, ID 0003, Version 001 associated to the memory image:			
		PASRELWR_DI_0002001_C_PASRELWR1_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 <b>Memory ID</b> parameter in the PC028380 command(s) is set to <b>72 hex</b> :			
		Memory ID = 72 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.			

Activity/Remarks

Step

No.

Time



TC/TLM	Display/	Branch	AIT	Comment		
PC028380	TC					

	 Execute Telecommand	10,114	TC	MII COMMENT
	DPU_MEMORY_DUMP	PC028380		
	Command Parameter(s) : DPU_MEMORY_BLOCK_ID PP009380	72xx		
	DPU_MEMORY_ADDR PP003380	<pre>/2xx <hex> (Def)</hex></pre>		
	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			
			Next Step:	
14	MCS OBSM preparation for Image monitor in LIVE mode		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	Colored Street MONTROD & From the more			
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			
	PASPRELW.			
	The 'Image MONITOR' window opens.			
14.2.2	ELSE			
11.6.6	PACS Redundant			
	Select the image to be monitored for the memory device			
	PASRELWR.			
	The 'Image MONITOR' window opens.			
	<b>~</b>			
I	I	I	I	I



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



Step	minus		ma (mr.)		
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			
		<b>be saved</b> for offline analysis.			
17.1		Gauge menungal image			
1/.1		Save merged image			
		IF there are mismatches reported by OBSM, save merged			
		image with <b>new ID</b> .			
		Conduct off-line analysis of the reported mismatches.			
		End of Sequence			
	OFCP424d	TC Seq. Name :OFCP424d ( ) PACS SPU LWL RAM Ext dump monitoring in Retrieval mode			
	01 01 4240				
		TimeTag Type: Sub Schedule ID:			
				Next Step:	
18		MCS OBSM preparation for Image monitor in RETRIEVAL mode		19	
		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 <b>Image</b> menu of the <b>OBSM Desktop</b> .			
		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			
		PASPRELW.			
		The 'Image MONITOR' window opens.			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
18.2.2		ELSE			
101212		PACS Redundant			
		Select the image to be monitored for the memory device <b>PASRELWR</b> .			
		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.			
				Nauta Ci	
19		Retrieve and process TM(6,6) packets		Next Step: 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 <b>PLAY</b> 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.			
		IF there are <b>differences</b> reported by OBSM between the			
		dump data and the ground image, the merged image shall be saved for offline analysis.			
20.1		Save merged image			
		$\ensuremath{\mathbf{IF}}$ there are $\ensuremath{mismatches}$ reported by OBSM, save merged image with $\ensuremath{new}$ ID.			
		Conduct off-line analysis of the reported mismatches.			
		End of Sequence			
		End of Procedure			