

Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform the dump monitoring 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: – ${\rm TC(6,2)}$ 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 OFCP424i

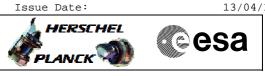
OFCP424k

Referenced Displays

ANDS GRDS SLDS

Configuration Control Information

Doc No. :PT-HMOC-OPS-FOP-6001-OPS-OAH Fop Issue : 3.0 Issue Date: 13/04/10

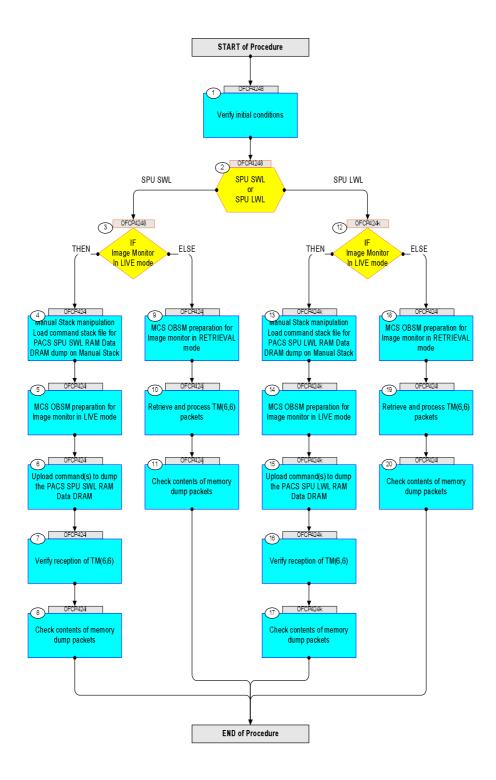


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/09/08	2	1	Created	lstefanov-hp	ļI

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Procedure Flowchart Overview





Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Beginning of Procedure			
	OFCP4248	TC Seq. Name :OFCP4248 () PACS SPU RAM Data DRAM dump monitoring			
		TimeTag Type: B Sub Schedule ID:			
	1		1		
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.			
				Next Step:	
2		SPU SWL or SPU LWL		SPU SWL 3 SPU LWL 12	
		type: [Switch]			
3		IF Image Monitor In LIVE mode		Next Step: THEN 4 ELSE 9	
		type: [If]			
		End of Sequence		1	
	OFCP424i	TC Seg. Name :OFCP424i () PACS SPU SWL RAM Data DRAM dump monitoring in LIVE mode			
		TimeTag Type: B Sub Schedule ID:			
4		Manual Stack manipulation Load command stack file for PACS SPU SWL RAM Data DRAM		Next Step: 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			



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/OB SM/PASPDDSW			
		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 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:			
		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			
		stack generation			
		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			



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 54 hex:			
		Memory ID = 54 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 DPU_MEMORY_DUMP	PC028380	TC	
		Command Parameter(s) :	10020500		
		DPU_MEMORY_BLOCK_ID PP009380	54xx 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	
5		Nes obsw preparation for image monitor in hive mode		0	
		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			
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.			
		The Image calaroy window Opens.			
5.2		Select image to be monitored			
5.2.1		IF PACS Nominal			
		THE MULTER			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select the image to be monitored for the memory device PASPDDSW.			
		The 'Image MONITOR' window opens.			
5.2.2		ELSE			
		PACS Redundant			
		Select the image to be monitored for the memory device			
		PASDDSWR.			
		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 RAM Data		Next Step: 7	
		DRAM			
		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.			
				Next Step:	
7		Verify reception of TM(6,6)		8	
		Note:			
		One or more ${\rm TM}(6,6)$ 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 : PI2 :			
7.2		ELSE PACS Redundant			



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 :			
8		Check contents of memory dump packets		Next Step: END	
0		check concerts of memory dump protects		BND	
		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			
		<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			
	OFCP424j	TC Seq. Name :OFCP424j () PACS SPU SWL RAM Data DRAM dump monitoring in Retrieval mode			
		TimeTag Type:			
		Sub Schedule ID:			
	1			1	
9		MCS OBSM preparation for Image monitor in RETRIEVAL		Next Step: 10	
		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			
		Starting the OBSM application is not covered by the current procedure.			
9.1		Select 'Image MONITOR' from the menu			
				1	
		Select the Image menu of the OBSM Desktop .			
		From the Image menu, select Monitor.			
		From the Image menu, select Monitor.			



No. 9.2	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
5.2		Select image to be monitored			
		Select image to be monitored			
9.2.1		IF PACS Nominal			
		PACS NOULINAL			
		Select the image to be monitored for the memory device PASPDDSW.			
		The 'Image MONITOR' window opens.			
9.2.2		ELSE			
		PACS Redundant			
		Select the image to be monitored for the memory device PASDDSWR .			
		The 'Image MONITOR' window opens.			
		The image noniton window opens.			
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: 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.			
				Next Step:	
11		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.			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
11.1		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			
	OFCP424k	TC Seg. Name :OFCP424k () PACS SPU LWL RAM Data DRAM dump monitoring in LIVE mode			
		TimeTag Type: B Sub Schedule ID:			
12		IF Image Monitor		Next Step: 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 Data DRAM 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			
1011		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:			
		$\ensuremath{\textbf{XXXXYYYY}}$ = 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			



Step					
No.	Time	Activity/Remarks File name examples	TC/TLM	Display/ Branch	AIT Comment
		- 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			
		Select file 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			
		<pre>machine - depends on the name of the machine used for stack generation</pre>			
		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.			



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand DPU_MEMORY_DUMP	PC028380	TC	
			1002000		
		Command Parameter(s) : DPU_MEMORY_BLOCK_ID PP009380	74xx		
		DPU_MEMORY_ADDR PP003380	<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			
				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		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.			
		ine image cacalog 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			
		PASPDDLW.	-		
		The 'Image MONITOR' window opens.			
		ine image noniton "indo" opensi			
14.2.2		ELSE			
		PACS Redundant			
		Cologe the image to be meritaned for the merit			
		Select the image to be monitored for the memory device PASDDLWR .	2		
		The 'Image MONITOR' window opens.			
		The image monitor window opens.			
1			1	· ·	



	Step					
Image: Second		Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
15 Delemetry state automatically after the image selection. Next Step: 15 Dpload command(s) to dump the PACS SPU IAIL RAM Data Next Step: 16 Dplink the PO23380 memory dump command(s) with ARM-00 Image: selection sel	14.3		Start dump TM processing			
15 Delemetry state automatically after the image selection. Next Step: 15 Dpload command(s) to dump the PACS SPU IAIL RAM Data Next Step: 16 Dplink the PO23380 memory dump command(s) with ARM-00 Image: selection sel						
15 Delemetry state automatically after the image selection. Next Step: 15 Dpload command(s) to dump the PACS SPU IAIL RAM Data Next Step: 16 Dplink the PO23380 memory dump command(s) with ARM-00 Image: selection sel						
image:			In LIVE mode, processing of incoming real-time			
15 Upload command(s) to dump the PACS SPU LME RAM Data 16 0 Oplink the PC028360 memory dump command(s) with ANM-CO 10 16 Oplink the PC028360 memory dump command(s) with ANM-CO 10 16 Prov aach command, one or more TM(6,6) packets must be received on ground. Next Step: 16 Verify reception of TM(6,6) Next Step: 16 Verify reception of TM(6,6) Next Step: 16.1 Dee or more TM(6,6) packets will be received for each memory dump command uplinked. Next Step: 16.1 JF JF PACS Frime ISS Next Step: 16.1 JF Next Step: 16.2 Verify Packet Reception MEMORY_DUMP Packet Memoria : MEMORY_DUMP Packet Packet Memoria : MEMO						
15 Upload command(s) to dump the PACS SPU LME RAM Data 16 0 Oplink the PC028360 memory dump command(s) with ANM-CO 10 16 Oplink the PC028360 memory dump command(s) with ANM-CO 10 16 Prov aach command, one or more TM(6,6) packets must be received on ground. Next Step: 16 Verify reception of TM(6,6) Next Step: 16 Verify reception of TM(6,6) Next Step: 16.1 Dee or more TM(6,6) packets will be received for each memory dump command uplinked. Next Step: 16.1 JF JF PACS Frime ISS Next Step: 16.1 JF Next Step: 16.2 Verify Packet Reception MEMORY_DUMP Packet Memoria : MEMORY_DUMP Packet Packet Memoria : MEMO						
15 Upload command(s) to dump the PACS SPU LME RAM Data 16 0 Oplink the PC028360 memory dump command(s) with ANM-CO 10 16 Oplink the PC028360 memory dump command(s) with ANM-CO 10 16 Prov aach command, one or more TM(6,6) packets must be received on ground. Next Step: 16 Verify reception of TM(6,6) Next Step: 16 Verify reception of TM(6,6) Next Step: 16.1 Dee or more TM(6,6) packets will be received for each memory dump command uplinked. Next Step: 16.1 JF JF PACS Frime ISS Next Step: 16.1 JF Next Step: 16.2 Verify Packet Reception MEMORY_DUMP Packet Memoria : MEMORY_DUMP Packet Packet Memoria : MEMO					Next Step:	
Image: Second	15					
Image: Section of the section of th						
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Image: Section of the section of th						
Image: Instant			Uplink the PC026360 memory dump command(s) with ARM-GO			
Image: Instant			For each command, one or more TM(6.6) packets must be			
16 Verify reception of TM(6,6) 17 Note: One or more TM(6,6) packets will be received for each memory dump command uplinked. 10 16.1 TF PACS Prime 16.1 Verify Packet Reception 10 MEMORY_DUMP PACS Prime 1152 Type : 6 Subtype : 6 PII : PIZ : 16.2 RLSE Redundant Verify Packet Reception 1152 MEMORY_DUMP 1152 PII : 1152 Type : 6 Subtype : 6 PII : 1152 PII : 1153 Type : 6 Subtype : 6 PII : 1153 Type : 6 Subtype : 6 Subtyp						
16 Verify reception of TM(6,6) 17 Note: One or more TM(6,6) packets will be received for each memory dump command uplinked. 10 16.1 TF PACS Prime 16.1 Verify Packet Reception 10 MEMORY_DUMP PACS Prime 1152 Type : 6 Subtype : 6 PII : PIZ : 16.2 RLSE Redundant Verify Packet Reception 1152 MEMORY_DUMP 1152 PII : 1152 Type : 6 Subtype : 6 PII : 1152 PII : 1153 Type : 6 Subtype : 6 PII : 1153 Type : 6 Subtype : 6 Subtyp						
Image: Section of the section of t	16		Verify reception of $TM(6, 6)$			
One or more TW(6,6) packets will be received for each memory dump command uplinked. Image: Command uplinked. 16.1 IF F PACS Prime Image: Command uplinked. Image: Command uplinked. 16.1 IF Image: Command uplinked. Image: Command uplinked. 16.1 IF IF Image: Command uplinked. Image: Command uplinked. 16.1 IF If Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. 16.1 Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command u	10				17	
One or more TW(6,6) packets will be received for each memory dump command uplinked. Image: Command uplinked. 16.1 IF F PACS Prime Image: Command uplinked. Image: Command uplinked. 16.1 IF Image: Command uplinked. Image: Command uplinked. 16.1 IF IF Image: Command uplinked. Image: Command uplinked. 16.1 IF If Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. 16.1 Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command u						
One or more TW(6,6) packets will be received for each memory dump command uplinked. Image: Command uplinked. 16.1 IF F PACS Prime Image: Command uplinked. Image: Command uplinked. 16.1 IF Image: Command uplinked. Image: Command uplinked. 16.1 IF IF Image: Command uplinked. Image: Command uplinked. 16.1 IF If Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. 16.1 Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command uplinked. Image: Command u			Note-			
16.1 IF FACS Prime Image: constraint of the second o			One or more TM(6,6) packets will be received for each			
PACS Prime Image: Second s			memory dump command uplinked.			
PACS Prime Image: Second s						
Image: Second	16.1					
MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1152 APID : 1152 Type : 6 Subtype : 6 6 P12 : -			PACS Prime			
MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1152 APID : 1152 Type : 6 Subtype : 6 6 P12 : -						
MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1152 APID : 1152 Type : 6 Subtype : 6 6 P12 : -						
Packet Mnemonic : MEMORY_DUMP APID : 1152 Type : 6 Subtype : 6 PI1 : PI2 : Interpretation Interpretation Interpretation Interp			Verify Packet Reception			
APID: 1152 Type: 6 Subtype: 6 PI1: P12: I6.2 ELSE PACS Redundant Image: Second Sec			MEMORY_DUMP			
Subtype : 6 PI1 : PI2 : Image: Subtype : Image: Subtype :						
PI1 : PI2 : Image: Constraint of the second se						
16.2 ELSE PACS Redundant Verify Packet Reception MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtype : 6 PII : PI2 : Next Step:			PI1 :			
PACS Redundant Verify Packet Reception MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtype : 6 PI1 : PI2 : Next Step:						
Verify Packet Reception MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtype : 6 PI1 : PI2 : Next Step:	16.2					
MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtype : 6 PI1 : PI2 : MEMORY_DUMP APID : 1153 Type : 6 Nut Step:			PACS Redundant			
MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtype : 6 PI1 : PI2 : MEMORY_DUMP APID : 1153 Type : 6 Nut Step:						
MEMORY_DUMP Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtype : 6 PI1 : PI2 : MEMORY_DUMP APID : 1153 Type : 6 Nut Step:						
Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtrype : 6 PII : PI2 : Next Step:			Verify Packet Reception			
Packet Mnemonic : MEMORY_DUMP APID : 1153 Type : 6 Subtrype : 6 PII : PI2 : Next Step:			MEMORY_DUMP			
Type: 6 Subtype: 6 PI1: PI2: Next Step:						
PII: PI2: Next Step:			Туре : 6			
Next Step:			PI1 :			
			F14 ·			
	17		Check contents of memory dump packets			
Verify that there are NO OBSM reported differences			Verify that there are NO OBSM reported differences			
between the memory dump data and the ground image used for monitoring.			between the memory dump data and the ground image used			



Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		IF there are differences reported by OBSM between the 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.			
		- 1 4 -			
		End of Sequence TC Seq. Name : OFCP4241 ()			
	OFCP424I	PACS SPU LWL RAM Data DRAM dump monitoring in Retrieval mode			
		TimeTag Type:			
		Sub Schedule ID:			
				Next Step:	
18		MCS OBSM preparation for Image monitor in RETRIEVAL		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.			
		current procedure.			
18.1		Sologt IImage MONITORI from the menu			
10.1		Select 'Image MONITOR' from the menu			
		Select the Image menu of the OBSM Desktop.	<u> </u>		
		From the Image menu, select Monitor .			
		The 'Image Catalog' window opens.			
10.0					
18.2		Select image to be monitored			
10 0 7		TE			
18.2.1		IF PACS Nominal			
		Select the image to be monitored for the memory device			
		PASPDDLW.			
		The 'Image MONITOR' window opens.			



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 PASDDLWR .			
		The 'Image MONITOR' window opens.			
18.3		Start dump TM packets processing			
10.5		Start damp in packets processing			
		Set retrieval start time and start retrieval of TM			
		packets using the PLAY buttons.			
				Nort Otor	
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 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.			
				Next Step:	
20		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.			
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 Somence			
		End of Sequence End of Procedure			