

Monitor dump of ACC PM EEPROM memory area  
 File: H\_FCP\_OBS\_2242.xls  
 Author: lstefanov-hp



## Procedure Summary

### Objectives

This Herschel OBSM nominal procedure is used to perform an ACC PM EEPROM dump monitoring against the ground image. The procedure covers both ACC PM EEPROM1 and EEPROM2. 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  
 - ACC in Operational Mode

Execution of service 6 TCs 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  
 - ACC in Operational Mode

#### End of Procedure

Same as start except:  
 - ACC PM EEPROM1 and/or EEPROM2 memory dump executed

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

OFCP224C  
 OFCP224E

### Referenced Displays

ANDs      GRDs      SLDs

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
04/08/08	1	1	Created	dsalt-hp	

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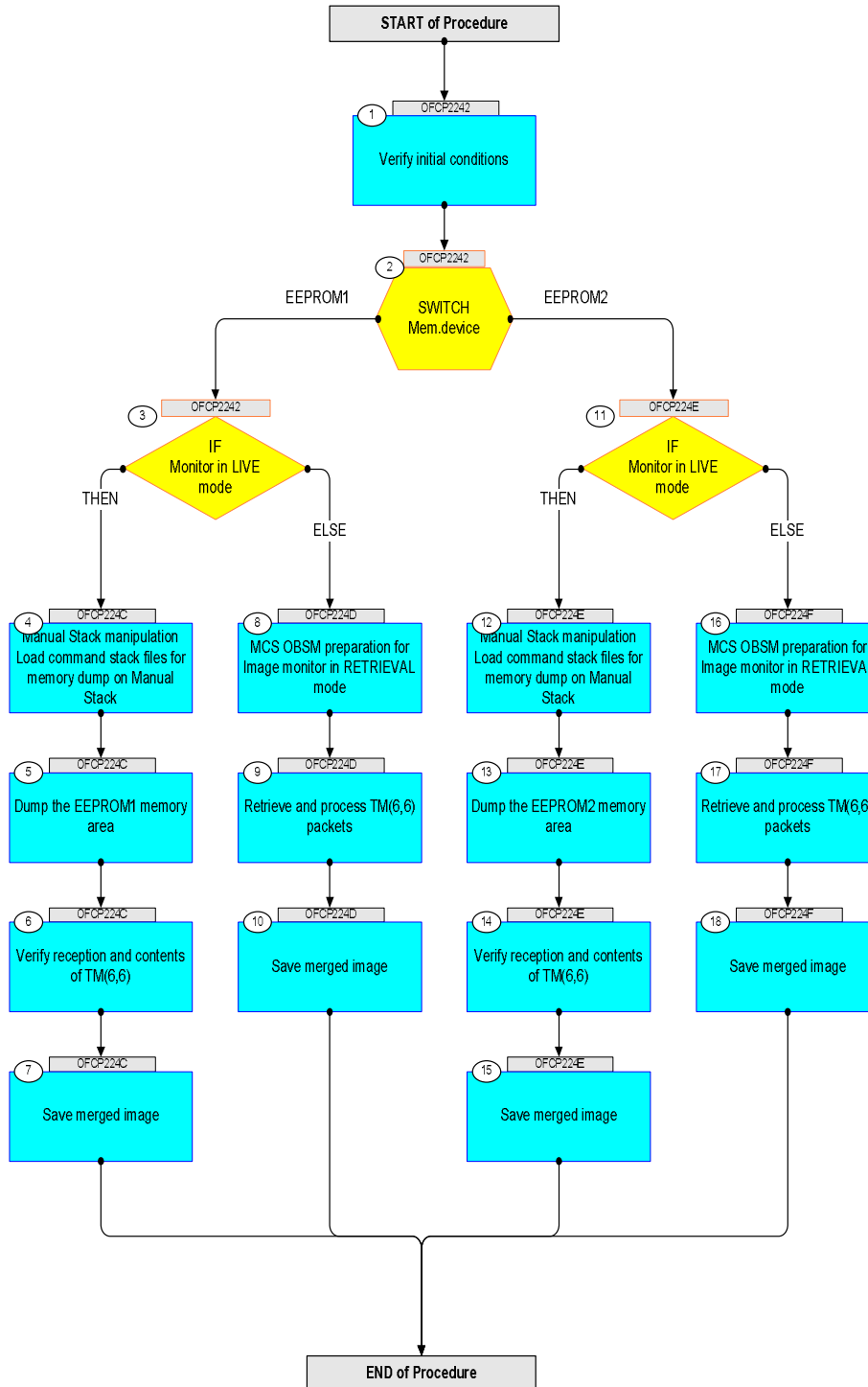


11/03/09		2	1. current step 4.1 updated: sub-steps 4.1.1 and 4.1.2 created to separate command stack load for ACC PM A and B 2. current step 5.1.2 updated: sub-steps 5.1.2.1 and 5.1.2.2 created to separate OBSM image selection for ACC PM A and B 3. current step 8.2 updated: sub-steps 8.2.1 and 8.2.2 created to separate OBSM image selection for ACC PM A and B 4. current step 12.1 updated: sub-steps 12.1.1 and 12.1.2 created to separate command stack load for ACC PM A and B 5. current step 13.1.2 updated: sub-steps 13.1.2.1 and 13.1.2.2 created to separate OBSM image selection for ACC PM A and B 6. current step 17.2 updated: sub-steps 17.2.1 and 17.2.2 created to separate OBSM image selection for ACC PM A and B	lstefanov-hp	
11/03/09	2.2	3	1. updated TC Seq. names	lstefanov-hp	
30/03/09		4	1. Procedure Title updated 2. TC Seq. descriptions updated	lstefanov-hp	
21/04/09	2.3	5	1. corrected error in TC Sequence name: OFCP124F replaced by OFCP224F	lstefanov-hp	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<b>Beginning of Procedure</b>					
OFCP2242		TC Seq. Name : OFCP2242 ( ACC EEPROM dump ) ACC PM EEPROM dump monitor  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>			
1		Verify initial conditions		Next Step: 2	
		Check: - CDMU in Operational Mode - ACC in Operational Mode			
		CDMS SOE to confirm CDMU mode			
		ACMS SOE to confirm ACC mode			
2		SWITCH Mem.device  type: [Switch]		Next Step: EEPROM1 3 EEPROM2 11	
3		IF Monitor in LIVE mode  type: [If]		Next Step: THEN 4 ELSE 8	
End of Sequence					
OFCP224C		TC Seq. Name : OFCP224C ( ACC EEPROM1 dump L ) ACC PM EEPROM1 dump monitor in LIVE mode  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>			
4		Manual Stack manipulation Load command stack files for memory dump on Manual Stack		Next Step: 5	
4.1		Load memory dump command stack			
		Select the File -> <b>LoadStack</b> option from the main menu of the Manual Stack window			
4.1.1		IF ACC PM A			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		<p>Select file</p> <p><b>ACCE1PG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</b></p> <p>from directory</p> <p><a href="#">/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ACCE1PG</a></p> <p>as indicated by the OBSM engineer</p>			
		<p>IMPORTANT:</p> <p><b>XXXXYYY</b> = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p><b>YYYY_DDD hhmmss</b> - depend on stack generation time</p> <p><b>machine</b> - depends on the name of the machine used for stack generation</p>			
		<p><b>Note:</b></p> <p>The file name pattern above assumes that NO model was associated with the image used for command stack generation.</p> <p>If the memory image used has a model associated, than the fields <b>N_NoModel_NoModel</b> will change to reflect the CT name, ID and Version of the used Configuration Table.</p>			
		<p>File name <b>example:</b></p> <p>- No model associated to the memory image:</p> <p>ACCE1PG_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045</p> <p>- CT ACCE1PG1, ID 0003, Version 001 associated to the memory image:</p> <p>ACCE1PG_DI_0002001_C_ACCE1PG1_0003001_2008_148T093320.sun045</p>			
4.1.2		<p>ELSE</p> <p>ACC PM B</p>			
		<p>Select file</p> <p><b>ACCE1PB_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</b></p> <p>from directory</p> <p><a href="#">/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ACCE1PB</a></p> <p>as indicated by the OBSM engineer</p>			
		<p>IMPORTANT:</p> <p><b>XXXXYYY</b> = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p><b>YYYY_DDD hhmmss</b> - depend on stack generation time</p> <p><b>machine</b> - depends on the name of the machine used for stack generation</p>			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment															
		<p><b>Note:</b>            The file name pattern above assumes that NO model was associated with the image used for command stack generation.</p> <p>If the memory image used has a model associated, than the fields <b>N_NoModel_NoModel</b> will change to reflect the CT name, ID and Version of the used Configuration Table.</p>																		
		<p>File name <b>example:</b></p> <p>- No model associated to the memory image:            ACCEE1PB_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045</p> <p>- CT ACCEE1PB1, ID 0003, Version 001 associated to the memory image:            ACCEE1PB_DI_0002001_C_ACCEE1PB1_0003001_2008_148T093320.sun045</p>																		
4.2		Check memory dump command stack loaded																		
		Check that loaded stack contains one or several TCs <b>AC063109</b> .																		
		<p>Display the Manual Stack in 'Full mode' and check that the <b>Memory ID</b> parameter in the AC063109 command(s) is set to <b>008 hex</b>:</p> <p><b>Memory ID = 008 hex</b></p> <p><b>Note:</b>            The Memory ID of the target memory device is stored in the most significant 12 bits of the 16-bit long Mem ID TC parameter.            The least significant 4 bits of the same parameter carry the most significant 4 bits of the Start Address.</p>																		
		<p>Execute Telecommand</p> <p style="text-align: right;"><b>Dump Memory</b></p> <p>Command Parameter(s) :</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="padding-right: 20px;">Memory ID</td> <td style="padding-right: 20px;">AH6M0109</td> <td style="padding-right: 20px;">008x &lt;hex&gt;</td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>&lt;hex&gt; (Def)</td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>&lt;hex&gt; (Def)</td> </tr> </table> <p>TC Control Flags :</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="padding-right: 20px;">GBM</td> <td style="padding-right: 20px;">IL</td> <td style="padding-right: 20px;">DSE</td> </tr> <tr> <td>--Y</td> <td>--</td> <td>---</td> </tr> </table> <p>Subsch. ID : 20            Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses            This Telecommand will not be included in the export</p>	Memory ID	AH6M0109	008x <hex>	Start Address	AH6M1109	<hex> (Def)	Length SAU	AH6M3109	<hex> (Def)	GBM	IL	DSE	--Y	--	---	<b>AC063109</b>	<b>TC</b>	
Memory ID	AH6M0109	008x <hex>																		
Start Address	AH6M1109	<hex> (Def)																		
Length SAU	AH6M3109	<hex> (Def)																		
GBM	IL	DSE																		
--Y	--	---																		
		<p><b>Note:</b>            For a full dump of ACC EEPROM1, the stack will contain 17 TCs AC063109, covering the address range <b>0080.0000 hex</b> to <b>008F.FFFF hex</b></p>																		
		<p><b>Note:</b>            The start and end address of the EEPROM 'Image 1' are (Memory ID included):</p> <p><b>Start Address = 0080.0000 hex</b>  <b>End Address = 008F.FFFF hex</b>  <b>Length = 100000 hex</b></p>																		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
5		Dump the EEPROM1 memory area		Next Step: 6	
5.1		MCS OBSM preparation for Image monitor in LIVE mode			
		<b>Note:</b> 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.			
5.1.1		Select 'Image MONITOR' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .  From the Image menu, select <b>Monitor</b> .  The 'Image Catalog' window opens.			
5.1.2		Select image to be monitored			
5.1.2.1		IF ACC PM A			
		Select the image to be monitored for the memory device <b>ACCCE1PG</b> .  The 'Image MONITOR' window opens.			
5.1.2.2		ELSE ACC PM B			
		Select the image to be monitored for the memory device <b>ACCCE1PB</b> .  The 'Image MONITOR' window opens.			
5.1.3		Start dump TM processing			
		In <b>LIVE</b> mode, processing of incoming real-time telemetry starts automatically after the image selection.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
5.2		Command memory dump			
		<b>Uplink TCs AC063109 with ARM-GO</b>			
		For each command, one or several TM(6,6) packets will be received on ground.			
6		Verify reception and contents of TM(6,6)		Next Step: 7	
		<b>Note:</b> One or several TM(6,6) packets will be received for each memory dump command uplinked.			
		Verify Packet Reception  Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic : MemDmpAbsAdd APID : 512 Type : 6 Subtype : 6 PI1 : PI2 :			
6.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
6.2		Check contents of memory dump packets			
		Verify that there are <b>NO OBSM reported differences</b> between the memory dump data and the ground image used for monitoring.			
		<b>IF</b> there are <b>differences</b> reported by OBSM between the dump data and the ground image, <b>the merged image shall be saved</b> for offline analysis.			
7		Save merged image		Next Step: END	
		WAIT for execution completion of the last dump command.			
		<b>IF</b> there are <b>mismatches</b> reported by OBSM, save merged image with <b>new ID</b> .			
		Conduct off-line analysis of the reported mismatches.			
End of Sequence					



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<p>TC Seq. Name : OFCP224D ( ACC EEPROM dump R )            ACC PM EEPROM dump monitor in Retrieval mode</p> <p>TimeTag Type:            Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
8		MCS OBSM preparation for Image monitor in RETRIEVAL mode		Next Step: 9	
		<p><b>Note:</b>            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.</p>			
8.1		Select 'Image MONITOR' from the menu			
		<p>Select the <b>Image</b> menu of the <b>OBSM Desktop</b>.</p> <p>From the Image menu, select <b>Monitor</b>.</p> <p>The 'Image Catalog' window opens.</p>			
8.2		Select image to be monitored			
8.2.1		IF ACC PM A			
		<p>Select the image to be monitored for the memory device <b>ACCEE1PG</b>.</p> <p>The 'Image MONITOR' window opens.</p>			
8.2.1.1		ELSE ACC PM B			
		<p>Select the image to be monitored for the memory device <b>ACCEE1PB</b>.</p> <p>The 'Image MONITOR' window opens.</p>			
8.3		Start dump TM packets processing			
		<p>Set <b>retrieval start</b> and <b>stop time</b> and start retrieval of TM packets using the <b>PLAY buttons</b>.</p>			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
9		Retrieve and process TM(6,6) packets		Next Step: 10	
		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.			
9.1		Check contents of memory dump packets			
		Verify that there are <b>NO OBSM reported differences</b> between the memory dump data and the ground image used for monitoring.			
		<b>IF</b> there are <b>differences</b> reported by OBSM between the dump data and the ground image, <b>the merged image shall be saved</b> for offline analysis.			
10		Save merged image		Next Step: END	
		WAIT for retrieval completion of the last dump packet.			
		<b>IF</b> there are <b>mismatches</b> reported by OBSM, save merged image with <b>new ID</b> .			
		Conduct off-line analysis of the reported mismatches.			
End of Sequence					
<b>OFCP224E</b> TC Seq. Name :OFCP224E ( ACC EEPROM2 dump L ) ACC PM EEPROM2 dump monitor in LIVE mode  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>					
11		IF Monitor in LIVE mode  type: [If]		Next Step: THEN 12 ELSE 16	
12		Manual Stack manipulation Load command stack files for memory dump on Manual Stack		Next Step: 13	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
12.1		Load memory dump command stack			
		Select the File -> <b>LoadStack</b> option from the main menu of the Manual Stack window			
12.1.1		IF ACC PM A			
		Select file  <b>ACCEE2PG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</b>  from directory  <a href="#">/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ACCEE2PG</a>  as indicated by the OBSM engineer			
		IMPORTANT:  <b>XXXXYYY</b> = Image ID(X) and Version(Y) - depend on image used for stack generation  <b>YYYY_DDD hhmmss</b> - depend on stack generation time  <b>machine</b> - depends on the name of the machine used for stack generation			
		<b>Note:</b> The file name pattern above assumes that NO model was associated with the image used for command stack generation.  If the memory image used has a model associated, than the fields <b>N_NoModel_NoModel</b> will change to reflect the CT name, ID and Version of the used Configuration Table.			
		File name <b>example:</b>  - No model associated to the memory image:  ACCEE2PG_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045  - CT ACCEE2PG1, ID 0003, Version 001 associated to the memory image:  ACCEE2PG_DI_0002001_C_ACCEE2PG1_0003001_2008_148T093320.sun045			
12.1.2		ELSE ACC PM B			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		<p>Select file</p> <p><b>ACCEE2PB_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</b></p> <p>from directory</p> <p><code>/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ACCEE2PB</code></p> <p>as indicated by the OBSM engineer</p>			
		<p><b>IMPORTANT:</b></p> <p><b>XXXXYYY</b> = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p><b>YYYY_DDD hhmmss</b> - depend on stack generation time</p> <p><b>machine</b> - depends on the name of the machine used for stack generation</p>			
		<p><b>Note:</b></p> <p>The file name pattern above assumes that NO model was associated with the image used for command stack generation.</p> <p>If the memory image used has a model associated, than the fields <b>N_NoModel_NoModel</b> will change to reflect the CT name, ID and Version of the used Configuration Table.</p>			
		<p>File name <b>example:</b></p> <p>- No model associated to the memory image:</p> <p><code>ACCEE2PB_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045</code></p> <p>- CT ACCEE2PB1, ID 0003, Version 001 associated to the memory image:</p> <p><code>ACCEE2PB_DI_0002001_C_ACCEE2PB1_0003001_2008_148T093320.sun045</code></p>			
12.2		<p>Check memory dump command stack loaded</p>			
		<p>Check that loaded stack contains one or several TCs <b>AC063109</b>.</p>			
		<p>Display the Manual Stack in 'Full mode' and check that the <b>Memory ID</b> parameter in the AC063109 command(s) is set to <b>009 hex</b>:</p> <p><b>Memory ID = 009 hex</b></p> <p><b>Note:</b></p> <p>The Memory ID of the target memory device is stored in the most significant 12 bits of the 16-bit long Mem ID TM parameter.</p> <p>The least significant 4 bits of the same parameter carry the most significant 4 bits of the Start Address.</p>			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;"><b>Dump Memory</b></p> <b>AC063109</b> Command Parameter(s) : Memory ID            AH6M0109    009x <hex> Start Address        AH6M1109    <hex> (Def) Length SAU            AH6M3109    <hex> (Def) TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export		TC	
		<b>Note:</b> For a full dump of ACC EEPROM2, the stack will contain 17 TCs AC063109, covering the address range <b>0090.0000</b> <b>hex to 009F.FFFF hex</b>			
		<b>Note:</b> The start and end address of the EEPROM 'Image 2' are (Memory ID included): Start Address = <b>0090.0000 hex</b> End Address    = <b>009F.FFFF hex</b> Length         = <b>100000 hex</b>			
13		Dump the EEPROM2 memory area		Next Step: 14	
13.1		MCS OBSM preparation for Image monitor in LIVE mode			
		<b>Note:</b> 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.			
13.1.1		Select 'Image MONITOR' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> . From the Image menu, select <b>Monitor</b> . The 'Image Catalog' window opens.			
13.1.2		Select image to be monitored			
13.1.2.1		IF ACC PM A			

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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 <b>ACCEE2PG</b> .  The 'Image MONITOR' window opens.			
13.1.2. 2		ELSE ACC PM B			
		Select the image to be monitored for the memory device <b>ACCEE2PB</b> .  The 'Image MONITOR' window opens.			
13.1.3		Start dump TM processing			
		In <b>LIVE</b> mode, processing of incoming real-time telemetry starts automatically after the image selection.			
13.2		Command memory dump  <b>Uplink TCs AC063109 with ARM-GO</b>  For each command, one or several TM(6,6) packets will be received on ground.			
14		Verify reception and contents of TM(6,6)		Next Step: 15	
		<b>Note:</b> One or several TM(6,6) packets will be received for each memory dump command uplinked.			
		Verify Packet Reception  Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic : MemDmpAbsAdd APID : 512 Type : 6 Subtype : 6 PI1 : PI2 :			
14.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
14.2		Check contents of memory dump packets			

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		Verify that there are <b>NO OBSM reported differences</b> between the memory dump data and the ground image used for monitoring.			
		<b>IF</b> there are <b>differences</b> reported by OBSM between the dump data and the ground image, <b>the merged image shall be saved</b> for offline analysis.			
15		Save merged image		Next Step: END	
		WAIT for execution completion of the last dump command.			
		<b>IF</b> there are <b>mismatches</b> reported by OBSM, save merged image with <b>new ID</b> .			
		Conduct off-line analysis of the reported mismatches.			
<b>End of Sequence</b> TC Seq. Name : OFCP224F ( ACC EEPROM2 dump R ) ACC PM EEPROM2 dump monitor in Retrieval mode  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>					
16		MCS OBSM preparation for Image monitor in RETRIEVAL mode		Next Step: 17	
		<b>Note:</b> It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
16.1		Select 'Image MONITOR' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .  From the Image menu, select <b>Monitor</b> .  The 'Image Catalog' window opens.			
16.2		Select image to be monitored			
16.2.1		IF ACC PM A			

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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 <b>ACCEE2PG</b> .  The 'Image MONITOR' window opens.			
16.2.1.1		ELSE ACC PM B			
		Select the image to be monitored for the memory device <b>ACCEE2PB</b> .  The 'Image MONITOR' window opens.			
16.3		Start dump TM packets processing			
		Set <b>retrieval start</b> and <b>stop time</b> and start retrieval of TM packets using the <b>PLAY</b> buttons.			
17		Retrieve and process TM(6,6) packets		Next Step: 18	
		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 <b>PLAY</b> 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.			
17.1		Check contents of memory dump packets			
		Verify that there are <b>NO OBSM reported differences</b> between the memory dump data and the ground image used for monitoring.			
		<b>IF</b> there are <b>differences</b> reported by OBSM between the dump data and the ground image, <b>the merged image shall be saved</b> for offline analysis.			
18		Save merged image		Next Step: END	
		WAIT for retrieval completion of the last dump packet.			
		<b>IF</b> there are <b>mismatches</b> reported by OBSM, save merged image with <b>new ID</b> .			



Monitor dump of ACC PM EEPROM memory area  
 File: H\_FCP\_OBS\_2242.xls  
 Author: lstefanov-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Conduct off-line analysis of the reported mismatches.			
End of Sequence					
<b>End of Procedure</b>					