

Update ACC SGM ground image from memory dump
 File: H_FCP_OBS_2449.xls
 Author: Liviu Stefanov



Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform the dump of the ACC SGM memory areas and the update of the corresponding ground image. The memory dump is commanded using TC(6,5) and the memory locations content is received on ground in TM(6,6) packets.

The procedures covers both ACC SGM A and SGM B.

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

ACC in Operational Mode

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

ACC in Operational Mode

End of Procedure

Same as start except:
 - ACC SGM A or/and SGM B memory dump executed

Reference File(s)

Input Command Sequences

Output Command Sequences

OFCP244A
 OFCP244C

Referenced Displays

ANDs GRDs SLDs

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
18/02/08	1	1	Created	Istefanov-hp	
30/12/08	2	2	1. updated TC Seq. names and descriptions 2. current steps 4 and 14 updated: separate sub-steps created for BSW WP, ASW WP, BSW NP and ASW NP dump command stacks manipulation	Istefanov-hp	

Status : Version 3 - Unchanged
 Last Checkin: 13/04/09

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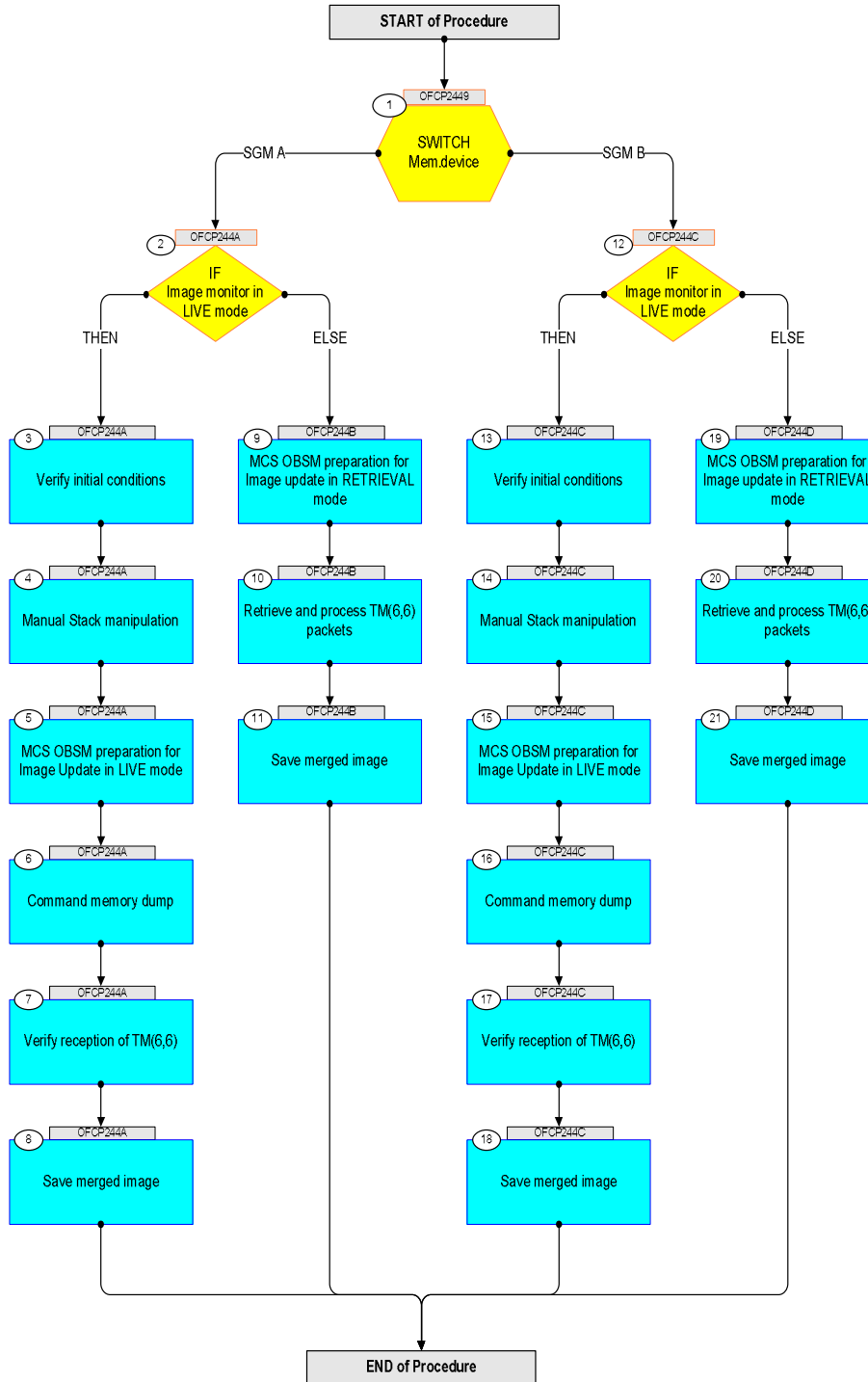


13/04/09	2.3	3	1. corrected typo in steps 4.1, 4.3, 4.5, 4.7, 14.1, 14.3, 14.5 and 14.7: 'pmcsops' replaced by 'hmcrops'	Istefanov-hp	
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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
Beginning of Procedure					
<p>OFCP2449 TC Seq. Name : OFCP2449 (ACC SGM GI update) ACC SGM A or B Gnd image update</p> <p>TimeTag Type: Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
1		SWITCH Mem.device type: [Switch]		Next Step: SGM A 2 SGM B 12	
End of Sequence					
<p>OFCP244A TC Seq. Name : OFCP244A (ACC SGM A Dmp A) ACC SGM A Gnd image update in Live mode</p> <p>TimeTag Type: B Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
2		IF Image monitor in LIVE mode type: [If]		Next Step: THEN 3 ELSE 9	
3		Verify initial conditions		Next Step: 4	
		Check: - ACC in Operational Mode			
		ACMS SOE to confirm ACC mode			
4		Manual Stack manipulation		Next Step: 5	
		IMPORTANT: - On each SGM A and B, the memory area is split in two parts where the first part is write protected and second part is unprotected . - Each protected and unprotected area is divided into one part allocated to the ASW and one part allocated to the BSW			
		The allocation of the 4 SGM memory areas - BSW Write Protected - ASW Write Protected - BSW Not Protected - ASW Not Protected is defined through HPSDB parameters: SGM_ASW_BEG_P_ADDR Start address of the protected part of the ASW SGM, byte offset within SGM SGM_BSW_BEG_ADDR Start address of the non protected BSW part of the SGM, byte offset within SGM SGM_ASW_BEG_ADDR_VALUE Start address of the non protected part of the ASW SGM, byte offset within SGM			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		For ACMS ASW v.4.0 and BSW v.2.0: SGM_ASW_BEG_P_ADDR = 80 hex SGM_BSW_BEG_ADDR = 40000 hex SGM_ASW_BEG_ADDR_VALUE = 86100 hex			
		For ACMS ASW v.4.0 and BSW v.2.0, the definitions of the 4 SGM memory areas are: SGM BSW WP Start Address = 0.0000 hex Length = 80 hex SGM ASW WP Start Address = 0.0080 hex Length = 3FF80 hex			
		SGM BSW NP Start Address = 4.0000 hex Length = 46100 hex SGM ASW NP Start Address = 8.6100 hex Length = 39F00 hex			
		IMPORTANT: All accesses to SGM memory must be 32-bit transfers, aligned to 32-bit boundaries.			
4.1		Load command stack file for SGM A BSW Write Protected part on top of 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			
		Select file ASGMAMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMAMEM as indicated by the OBSM engineer			
		IMPORTANT: XXXXYYY = 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: ASGMAMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043 - CT ASGMAMEM1, ID 0003, Version 001 associated to the memory image: ASGMAMEM_DI_0002001_C_ASGMAMEM1_0003001_2007_337T093320.sun043														
4.2		Check memory dump command stack loaded														
		For a full ACC SGM BSW WP area dump : Start Address = 0.0000 hex End Address = 0.007F hex Length = 80 hex														
		Check that loaded stack contains: 1 TC AC063109														
		Display the Manual Stack in 'Full mode' and check the Memory ID , Start Address and Length parameters in the AC063109 command: Memory ID = 00B hex Start Address = 0.0000 hex Length = 80 hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.														
		Execute Telecommand <div style="text-align: right;">Dump Memory</div> <div style="text-align: right;">AC063109</div> Command Parameter(s) : <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">Memory ID</td> <td style="padding-left: 20px;">AH6M0109</td> <td style="padding-left: 20px;">00B0 <hex></td> </tr> <tr> <td style="padding-left: 40px;">Start Address</td> <td style="padding-left: 20px;">AH6M1109</td> <td style="padding-left: 20px;">0000 <hex> (Def)</td> </tr> <tr> <td style="padding-left: 40px;">Length SAU</td> <td style="padding-left: 20px;">AH6M3109</td> <td style="padding-left: 20px;">80 <hex></td> </tr> </table> TC Control Flags : <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">GBM IL DSE</td> <td style="padding-left: 20px;">--Y -- ---</td> </tr> </table> Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export	Memory ID	AH6M0109	00B0 <hex>	Start Address	AH6M1109	0000 <hex> (Def)	Length SAU	AH6M3109	80 <hex>	GBM IL DSE	--Y -- ---		TC	
Memory ID	AH6M0109	00B0 <hex>														
Start Address	AH6M1109	0000 <hex> (Def)														
Length SAU	AH6M3109	80 <hex>														
GBM IL DSE	--Y -- ---															
4.3		Load command stack file for SGM A ASW Write Protected part on top of 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														

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select file ASGMAMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMAMEM as indicated by the OBSM engineer			
		IMPORTANT: XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation YYYY_DDD hhmmss - depend on stack generation time machine - depends on the name of the machine used for stack generation			
		File name examples - No model associated to the memory image: ASGMAMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043 - CT ASGMAMEM1, ID 0003, Version 001 associated to the memory image: ASGMAMEM_DI_0002001_C_ASGMAMEM1_0003001_2007_337T093320.sun043			
4.4		Check memory dump command stack loaded			
		For a full ACC SGM ASW WP area dump : Start Address = 0.0080 hex End Address = 3.FFFF hex Length = 3FF80 hex			
4.4.1		Check number of memory dump commands in the stack			
		Check that loaded stack contains: 4 TCs AC063109			
4.4.2		Check Memory ID			
		Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the AC063109 command(s) is set to 00B hex : Memory ID = 00B hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> Command Parameter(s) : Memory ID AH6M0109 00Bx <hex> Start Address AH6M1109 0 <hex> (Def) Length SAU AH6M3109 0 <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	
4.4.3		Check start address and length of the first dump command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address and Length in the first AC063109 command: Start Address = 0.0080 hex Length = FFFC hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> Command Parameter(s) : Memory ID AH6M0109 00B0 <hex> Start Address AH6M1109 0080 <hex> Length SAU AH6M3109 FFFC <hex> 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	
4.4.4		Check start address and length of the last dump command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address and Length in the last AC063109 command: Start Address = 3.0074 hex Length = FF8C hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> Command Parameter(s) : Memory ID AH6M0109 00B3 <hex> Start Address AH6M1109 0074 <hex> Length SAU AH6M3109 FF8C <hex> 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	AC063109	TC	
4.5		Load command stack file for SGM A BSW Not Protected part on top of 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 Select file ASGMAMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss. machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/ASGMAMEM as indicated by the OBSM engineer			
		IMPORTANT: XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation YYYY_DDD hhmmss - depend on stack generation time machine - depends on the name of the machine used for stack generation			
		File name examples - No model associated to the memory image: ASGMAMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043 - CT ASGMAMEM1, ID 0003, Version 001 associated to the memory image: ASGMAMEM_DI_0002001_C_ASGMAMEM1_0003001_2007_337T09332 0.sun043			
4.6		Check memory dump command stack loaded			
		For a full ACC SGM BSW NP area dump : Start Address = 4.0000 hex End Address = 8.60FF hex Length = 46100 hex			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment															
4.6.1		Check number of memory dump commands in the stack																		
		Check that loaded stack contains: 5 TCs AC063109																		
4.6.2		Check Memory ID																		
		Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the AC063109 command(s) is set to 00B hex : Memory ID = 00B hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.																		
		Execute Telecommand Dump Memory Command Parameter(s) : <table style="margin-left: 40px;"> <tr> <td>Memory ID</td> <td>AH6M0109</td> <td>00Bx <hex></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>0 <hex> (Def)</td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>0 <hex> (Def)</td> </tr> </table> TC Control Flags : <table style="margin-left: 40px;"> <tr> <td>GBM</td> <td>IL</td> <td>DSE</td> </tr> <tr> <td>--Y</td> <td>--</td> <td>---</td> </tr> </table> Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export	Memory ID	AH6M0109	00Bx <hex>	Start Address	AH6M1109	0 <hex> (Def)	Length SAU	AH6M3109	0 <hex> (Def)	GBM	IL	DSE	--Y	--	---	AC063109	TC	
Memory ID	AH6M0109	00Bx <hex>																		
Start Address	AH6M1109	0 <hex> (Def)																		
Length SAU	AH6M3109	0 <hex> (Def)																		
GBM	IL	DSE																		
--Y	--	---																		
4.6.3		Check start address and length of the first dump command in the stack																		
		With the Manual Stack in 'Full mode', check the Start Address and Length in the first AC063109 command: Start Address = 4.0000 hex Length = FFFC hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.																		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> Command Parameter(s) : Memory ID AH6M0109 00B4 <hex> Start Address AH6M1109 0000 <hex> (Def) Length SAU AH6M3109 FFFC <hex> 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	
4.6.4		Check start address and length of the last dump command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address and Length in the last AC063109 command: Start Address = 7.FFF0 hex Length = 6110 hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> Command Parameter(s) : Memory ID AH6M0109 00B7 <hex> Start Address AH6M1109 FFF0 <hex> Length SAU AH6M3109 6110 <hex> 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	
4.7		Load command stack file for SGM A ASW Not Protected part on top of 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			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select file ASGMAMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMAMEM as indicated by the OBSM engineer			
		IMPORTANT: XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation YYYY_DDD hhmmss - depend on stack generation time machine - depends on the name of the machine used for stack generation			
		File name examples - No model associated to the memory image: ASGMAMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043 - CT ASGMAMEM1, ID 0003, Version 001 associated to the memory image: ASGMAMEM_DI_0002001_C_ASGMAMEM1_0003001_2007_337T093320.sun043			
4.8		Check memory dump command stack loaded			
		For a full ACC SGM ASW NP area dump : Start Address = 8.6100 hex End Address = B.FFFF hex Length = 39F00 hex			
4.8.1		Check number of memory dump commands in the stack			
		Check that loaded stack contains: 4 TCs AC063109			
4.8.2		Check Memory ID			
		Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the AC063109 command(s) is set to 00B hex : Memory ID = 00B hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> Command Parameter(s) : Memory ID AH6M0109 00Bx <hex> Start Address AH6M1109 0 <hex> (Def) Length SAU AH6M3109 0 <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	
4.8.3		Check start address and length of the first dump command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address and Length in the first AC063109 command: Start Address = 8.6100 hex Length = FFFC hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> Command Parameter(s) : Memory ID AH6M0109 00B8 <hex> Start Address AH6M1109 6100 <hex> Length SAU AH6M3109 FFFC <hex> 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	
4.8.4		Check start address and length of the last dump command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address and Length in the last AC063109 command: Start Address = B.60F4 hex Length = 9F0C hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">Dump Memory</p> <p style="text-align: right;">AC063109</p> <p>Command Parameter(s) :</p> <p style="margin-left: 40px;">Memory ID AH6M0109 00BB <hex> Start Address AH6M1109 60F4 <hex> Length SAU AH6M3109 9F0C <hex></p> <p>TC Control Flags :</p> <p style="margin-left: 40px;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export</p>		TC	
5		MCS OBSM preparation for Image Update 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 UPDATE' from the menu			
		Select the Image menu of the <i>OBSM Desktop</i> . From the Image menu, select Update . The 'Image Catalog' window opens.			
5.2		Select image to be updated			
		Select the image to be updated for the memory device ASGMAMEM . The 'Image UPDATE' window opens.			
5.3		Start dump TM processing			
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection.			
6		Command memory dump		Next Step: 7	
		Uplink the AC063109 memory dump commands with ARM-GO			
		For each command, one or more TM(6,6) packets must be received on ground.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
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.			
		Verify Packet Reception Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic : MemDmpAbsAdd APID : 512 Type : 6 Subtype : 6 PI1 : PI2 :			
7.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
8		Save merged image		Next Step: END	
		Save merged image with new ID .			
End of Sequence					
OFCP244B <i>TC Seq. Name</i> : OFCP244B (ACC SGM A Dmp B) ACC SGM A Gnd image update in Retrieval mode <i>TimeTag Type</i> : <i>Sub Schedule ID</i> : <input type="checkbox"/>					
9		MCS OBSM preparation for Image update in RETRIEVAL mode		Next Step: 10	
		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.			
9.1		Select 'Image UPDATE' from the menu			
		Select the Image menu of the <i>OBSM Desktop</i> . From the Image menu, select Update . The 'Image Catalog' window opens.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
9.2		Select image to be updated			
		Select the image to be updated for the memory device ASGMAMEM . The 'Image UPDATE' window opens.			
9.3		Start dump TM packets processing			
		Set retrieval start and stop 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.			
10.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the retrieved memory dump packets.			
11		Save merged image		Next Step: END	
		Save merged image with new ID .			
End of Sequence					
OFCP244C <i>TC Seq. Name : OFCP244C (ACC SGM B Dmp C)</i> <i>ACC SGM B Gnd image update in Live mode</i> <i>TimeTag Type: B</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
12		IF Image monitor in LIVE mode type: [If]		Next Step: ELSE 19 THEN 13	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
13		Verify initial conditions		Next Step: 14	
		Check: - ACC in Operational Mode			
		ACMS SOE to confirm ACC mode			
14		Manual Stack manipulation		Next Step: 15	
		IMPORTANT: - On each SGM A and B, the memory area is split in two parts where the first part is write protected and second part is unprotected. - Each protected and unprotected area is divided into one part allocated to the ASW and one part allocated to the BSW			
		The allocation of the 4 SGM memory areas - BSW Write Protected - ASW Write Protected - BSW Not Protected - ASW Not Protected is defined through HPSDB parameters: SGM_ASW_BEG_P_ADDR Start address of the protected part of the ASW SGM, byte offset within SGM SGM_BSW_BEG_ADDR Start address of the non protected BSW part of the SGM, byte offset within SGM SGM_ASW_BEG_ADDR_VALUE Start address of the non protected part of the ASW SGM, byte offset within SGM			
		For ACMS ASW v.4.0 and BSW v.2.0: SGM_ASW_BEG_P_ADDR = 80 hex SGM_BSW_BEG_ADDR = 40000 hex SGM_ASW_BEG_ADDR_VALUE = 86100 hex			
		For ACMS ASW v.4.0 and BSW v.2.0, the definitions of the 4 SGM memory areas are: SGM BSW WP Start Address = 0.0000 hex Length = 80 hex SGM ASW WP Start Address = 0.0080 hex Length = 3FF80 hex			
		SGM BSW NP Start Address = 4.0000 hex Length = 46100 hex SGM ASW NP Start Address = 8.6100 hex Length = 39F00 hex			
		IMPORTANT: All accesses to SGM memory must be 32-bit transfers, aligned to 32-bit boundaries.			

Update ACC SGM ground image from memory dump
 File: H_FCP_OBS_2449.xls
 Author: lstefanov-hp




Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
14.1		Load command stack file for SGM B BSW Write Protected part on top of 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			
		Select file ASGMBMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMBMEM as indicated by the OBSM engineer			
		IMPORTANT: XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation YYYY_DDD hhmmss - depend on stack generation time machine - depends on the name of the machine used for stack generation			
		File name examples - No model associated to the memory image: ASGMBMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043 - CT ASGMBMEM1, ID 0003, Version 001 associated to the memory image: ASGMBMEM_DI_0002001_C_ASGMBMEM1_0003001_2007_337T093320.sun043			
14.2		Check memory dump command stack loaded			
		For a full ACC SGM BSW WP area dump : Start Address = 0.0000 hex End Address = 0.007F hex Length = 80 hex			
		Check that loaded stack contains: 1 TC AC063109			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment											
		Display the Manual Stack in 'Full mode' and check the Memory ID, Start Address and Length parameters in the AC063109 command: Memory ID = 00E hex Start Address = 0.0000 hex Length = 80 hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.														
		Execute Telecommand <div style="text-align: right;">Dump Memory</div> Command Parameter(s) : <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Memory ID</td> <td style="padding-left: 20px;">AH6M0109</td> <td style="padding-left: 20px;">00E0 <hex></td> </tr> <tr> <td style="padding-left: 20px;">Start Address</td> <td style="padding-left: 20px;">AH6M1109</td> <td style="padding-left: 20px;">0000 <hex> (Def)</td> </tr> <tr> <td style="padding-left: 20px;">Length SAU</td> <td style="padding-left: 20px;">AH6M3109</td> <td style="padding-left: 20px;">80 <hex></td> </tr> </table> TC Control Flags : <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">GBM IL DSE</td> <td style="padding-left: 20px;">--Y -- ---</td> </tr> </table> Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export	Memory ID	AH6M0109	00E0 <hex>	Start Address	AH6M1109	0000 <hex> (Def)	Length SAU	AH6M3109	80 <hex>	GBM IL DSE	--Y -- ---	AC063109	TC	
Memory ID	AH6M0109	00E0 <hex>														
Start Address	AH6M1109	0000 <hex> (Def)														
Length SAU	AH6M3109	80 <hex>														
GBM IL DSE	--Y -- ---															
14.3		Load command stack file for SGM B ASW Write Protected part on top of 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														
		Select file ASGMBMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMBMEM as indicated by the OBSM engineer														
		IMPORTANT: XXXXYYY = 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														

Update ACC SGM ground image from memory dump
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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: ASGMBMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043 - CT ASGMBMEM1, ID 0003, Version 001 associated to the memory image: ASGMBMEM_DI_0002001_C_ASGMBMEM1_0003001_2007_337T093320.sun043														
14.4		Check memory dump command stack loaded														
		For a full ACC SGM ASW WP area dump : Start Address = 0.0080 hex End Address = 3.FFFF hex Length = 3FF80 hex														
14.4.1		Check number of memory dump commands in the stack														
		Check that loaded stack contains: 4 TCs AC063109														
14.4.2		Check Memory ID														
		Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the AC063109 command(s) is set to 00E hex : Memory ID = 00E hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.														
		Execute Telecommand <div style="text-align: right;">Dump Memory</div> <div style="text-align: right;">AC063109</div> <i>Command Parameter(s) :</i> <table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Memory ID</td> <td style="text-align: right;">AH6M0109</td> <td style="text-align: left;">00Ex <hex></td> </tr> <tr> <td style="text-align: right;">Start Address</td> <td style="text-align: right;">AH6M1109</td> <td style="text-align: left;">0 <hex> (Def)</td> </tr> <tr> <td style="text-align: right;">Length SAU</td> <td style="text-align: right;">AH6M3109</td> <td style="text-align: left;">0 <hex> (Def)</td> </tr> </table> <i>TC Control Flags :</i> <table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">GBM IL DSE</td> <td style="text-align: left;">--Y -- ---</td> </tr> </table> <i>Subsch. ID : 20</i> Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export	Memory ID	AH6M0109	00Ex <hex>	Start Address	AH6M1109	0 <hex> (Def)	Length SAU	AH6M3109	0 <hex> (Def)	GBM IL DSE	--Y -- ---		TC	
Memory ID	AH6M0109	00Ex <hex>														
Start Address	AH6M1109	0 <hex> (Def)														
Length SAU	AH6M3109	0 <hex> (Def)														
GBM IL DSE	--Y -- ---															
14.4.3		Check start address and length of the first dump command in the stack														

Update ACC SGM ground image from memory dump
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment																				
		<p>With the Manual Stack in 'Full mode', check the Start Address and Length in the first AC063109 command:</p> <p>Start Address = 0.0080 hex Length = FFFC hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p style="text-align: right;">AC063109</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Memory ID</td> <td style="width: 20%;">AH6M0109</td> <td style="width: 20%;">00E0 <hex></td> <td style="width: 30%;"></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>0080 <hex></td> <td></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>FFFC <hex></td> <td></td> </tr> </table> <p>TC Control Flags :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%;">GBM IL DSE</td> <td style="width: 20%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td></td> <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	00E0 <hex>		Start Address	AH6M1109	0080 <hex>		Length SAU	AH6M3109	FFFC <hex>			GBM IL DSE				--Y -- ---				TC	
Memory ID	AH6M0109	00E0 <hex>																							
Start Address	AH6M1109	0080 <hex>																							
Length SAU	AH6M3109	FFFC <hex>																							
	GBM IL DSE																								
	--Y -- ---																								
14.4.4		<p>Check start address and length of the last dump command in the stack</p>																							
		<p>With the Manual Stack in 'Full mode', check the Start Address and Length in the last AC063109 command:</p> <p>Start Address = 3.0074 hex Length = FF8C hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p style="text-align: right;">AC063109</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Memory ID</td> <td style="width: 20%;">AH6M0109</td> <td style="width: 20%;">00E3 <hex></td> <td style="width: 30%;"></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>0074 <hex></td> <td></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>FF8C <hex></td> <td></td> </tr> </table> <p>TC Control Flags :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%;">GBM IL DSE</td> <td style="width: 20%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td></td> <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	00E3 <hex>		Start Address	AH6M1109	0074 <hex>		Length SAU	AH6M3109	FF8C <hex>			GBM IL DSE				--Y -- ---				TC	
Memory ID	AH6M0109	00E3 <hex>																							
Start Address	AH6M1109	0074 <hex>																							
Length SAU	AH6M3109	FF8C <hex>																							
	GBM IL DSE																								
	--Y -- ---																								
14.5		<p>Load command stack file for SGM B BSW Not Protected part on top of Manual Stack</p>																							

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		<p>NOTE: The current procedure assumes that the memory dump in Live mode is performed using commands with immediate execution.</p>			
		Select the File -> LoadStack option from the main menu of the Manual Stack window			
		<p>Select file</p> <p>ASGMBMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</p> <p>from directory</p> <p>/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMBMEM</p> <p>as indicated by the OBSM engineer</p>			
		<p>IMPORTANT:</p> <p>XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p>YYYY_DDD hhmmss - depend on stack generation time</p> <p>machine - depends on the name of the machine used for stack generation</p>			
		<p>File name examples</p> <p>- No model associated to the memory image:</p> <p>ASGMBMEM_DI_0002001_N_NoModel_NoModel_2007_254T123300.sun043</p> <p>- CT ASGMBMEM1, ID 0003, Version 001 associated to the memory image:</p> <p>ASGMBMEM_DI_0002001_C_ASGMBMEM1_0003001_2007_337T093320.sun043</p>			
14.6		Check memory dump command stack loaded			
		<p>For a full ACC SGM BSW NP area dump:</p> <p>Start Address = 4.0000 hex End Address = 8.60FF hex Length = 46100 hex</p>			
14.6.1		Check number of memory dump commands in the stack			
		<p>Check that loaded stack contains:</p> <p>5 TCs AC063109</p>			
14.6.2		Check Memory ID			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment												
		<p>Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the AC063109 command(s) is set to 00E hex:</p> <p>Memory ID = 00E hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Memory ID</td> <td style="width: 20%;">AH6M0109</td> <td style="width: 20%;">00Ex <hex></td> <td style="width: 30%;"></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>0 <hex> (Def)</td> <td></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>0 <hex> (Def)</td> <td></td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <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	00Ex <hex>		Start Address	AH6M1109	0 <hex> (Def)		Length SAU	AH6M3109	0 <hex> (Def)		AC063109	TC	
Memory ID	AH6M0109	00Ex <hex>															
Start Address	AH6M1109	0 <hex> (Def)															
Length SAU	AH6M3109	0 <hex> (Def)															
14.6.3		<p>Check start address and length of the first dump command in the stack</p>															
		<p>With the Manual Stack in 'Full mode', check the Start Address and Length in the first AC063109 command:</p> <p>Start Address = 4.0000 hex Length = FFFC hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Memory ID</td> <td style="width: 20%;">AH6M0109</td> <td style="width: 20%;">00E4 <hex></td> <td style="width: 30%;"></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>0000 <hex> (Def)</td> <td></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>FFFC <hex></td> <td></td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <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	00E4 <hex>		Start Address	AH6M1109	0000 <hex> (Def)		Length SAU	AH6M3109	FFFC <hex>		AC063109	TC	
Memory ID	AH6M0109	00E4 <hex>															
Start Address	AH6M1109	0000 <hex> (Def)															
Length SAU	AH6M3109	FFFC <hex>															
14.6.4		<p>Check start address and length of the last dump command in the stack</p>															

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment												
		<p>With the Manual Stack in 'Full mode', check the Start Address and Length in the last AC063109 command:</p> <p>Start Address = 7.FFF0 hex Length = 6110 hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Memory ID</td> <td style="width: 20%;">AH6M0109</td> <td style="width: 20%;">00E7 <hex></td> <td style="width: 30%;"></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>FFF0 <hex></td> <td></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>6110 <hex></td> <td></td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <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	00E7 <hex>		Start Address	AH6M1109	FFF0 <hex>		Length SAU	AH6M3109	6110 <hex>		AC063109	TC	
Memory ID	AH6M0109	00E7 <hex>															
Start Address	AH6M1109	FFF0 <hex>															
Length SAU	AH6M3109	6110 <hex>															
14.7		<p>Load command stack file for SGM B ASW Not Protected part on top of Manual Stack</p>															
		<p>NOTE: The current procedure assumes that the memory dump in Live mode is performed using commands with immediate execution.</p>															
		<p>Select the File -> LoadStack option from the main menu of the Manual Stack window</p>															
		<p>Select file</p> <p>ASGMBMEM_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</p> <p>from directory</p> <p>/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/ASGMBMEM</p> <p>as indicated by the OBSM engineer</p>															
		<p>IMPORTANT:</p> <p>XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p>YYYY_DDD hhmmss - depend on stack generation time</p> <p>machine - depends on the name of the machine used for stack generation</p>															

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14.8		Check memory dump command stack loaded																
		For a full ACC SGM ASW NP area dump : Start Address = 8.6100 hex End Address = B.FFFF hex Length = 39F00 hex																
14.8.1		Check number of memory dump commands in the stack																
		Check that loaded stack contains: 4 TCs AC063109																
14.8.2		Check Memory ID																
		Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the AC063109 command(s) is set to 00E hex : Memory ID = 00E hex Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 4 bits of the same parameter carry the most significant 4 bits of the Start Address.																
		Execute Telecommand <div style="text-align: right;">Dump Memory</div> <div style="text-align: right;">AC063109</div> <i>Command Parameter(s) :</i> <table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">Memory ID</td> <td style="text-align: right;">AH6M0109</td> <td style="text-align: left;">00Ex <hex></td> </tr> <tr> <td style="text-align: right;">Start Address</td> <td style="text-align: right;">AH6M1109</td> <td style="text-align: left;">0 <hex> (Def)</td> </tr> <tr> <td style="text-align: right;">Length SAU</td> <td style="text-align: right;">AH6M3109</td> <td style="text-align: left;">0 <hex> (Def)</td> </tr> </table> <i>TC Control Flags :</i> <table style="width: 100%; border: none;"> <tr> <td style="text-align: right;">GBM IL DSE</td> <td></td> </tr> <tr> <td style="text-align: right;">--Y --</td> <td></td> </tr> </table> <i>Subsch. ID : 20</i> Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses This Telecommand will not be included in the export	Memory ID	AH6M0109	00Ex <hex>	Start Address	AH6M1109	0 <hex> (Def)	Length SAU	AH6M3109	0 <hex> (Def)	GBM IL DSE		--Y --			TC	
Memory ID	AH6M0109	00Ex <hex>																
Start Address	AH6M1109	0 <hex> (Def)																
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GBM IL DSE																		
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14.8.3		Check start address and length of the first dump command in the stack																

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment															
		<p>With the Manual Stack in 'Full mode', check the Start Address and Length in the first AC063109 command:</p> <p>Start Address = 8.6100 hex Length = FFFC hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p>AC063109</p> <p>Command Parameter(s) :</p> <table border="0"> <tr> <td>Memory ID</td> <td>AH6M0109</td> <td>00E8 <hex></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>6100 <hex></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>FFFC <hex></td> </tr> </table> <p>TC Control Flags :</p> <table border="0"> <tr> <td>GBM</td> <td>IL</td> <td>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	00E8 <hex>	Start Address	AH6M1109	6100 <hex>	Length SAU	AH6M3109	FFFC <hex>	GBM	IL	DSE	--Y	--	---		TC	
Memory ID	AH6M0109	00E8 <hex>																		
Start Address	AH6M1109	6100 <hex>																		
Length SAU	AH6M3109	FFFC <hex>																		
GBM	IL	DSE																		
--Y	--	---																		
14.8.4		<p>Check start address and length of the last dump command in the stack</p>																		
		<p>With the Manual Stack in 'Full mode', check the Start Address and Length in the last AC063109 command:</p> <p>Start Address = B.60F4 hex Length = 9F0C hex</p> <p>Note: The Memory ID of the target memory device is stored in the MS 12 bits of the 16-bit long Mem ID TM parameter. The LS 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;">Dump Memory</p> <p>AC063109</p> <p>Command Parameter(s) :</p> <table border="0"> <tr> <td>Memory ID</td> <td>AH6M0109</td> <td>00EB <hex></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>60F4 <hex></td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>9F0C <hex></td> </tr> </table> <p>TC Control Flags :</p> <table border="0"> <tr> <td>GBM</td> <td>IL</td> <td>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	00EB <hex>	Start Address	AH6M1109	60F4 <hex>	Length SAU	AH6M3109	9F0C <hex>	GBM	IL	DSE	--Y	--	---		TC	
Memory ID	AH6M0109	00EB <hex>																		
Start Address	AH6M1109	60F4 <hex>																		
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GBM	IL	DSE																		
--Y	--	---																		
15		<p>MCS OBSM preparation for Image Update in LIVE mode</p>		Next Step: 16																

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.			
15.1		Select 'Image UPDATE' from the menu			
		Select the Image menu of the <i>OBSM Desktop</i> . From the Image menu, select Update . The 'Image Catalog' window opens.			
15.2		Select image to be updated			
		Select the image to be updated for the memory device ASGBMEM . The 'Image UPDATE' window opens.			
15.3		Start dump TM processing			
		In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection.			
16		Command memory dump		Next Step: 17	
		Uplink the AC063109 memory dump commands with ARM-GO			
		For each command, one or more TM(6,6) packets must be received on ground.			
17		Verify reception of TM(6,6)		Next Step: 18	
		Note: One or more 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 :			

Update ACC SGM ground image from memory dump File: H_FCP_OBS_2449.xls Author: lstefanov-hp	
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
17.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
18		Save merged image		Next Step: END	
		Save merged image with new ID .			
End of Sequence					
OFCP244D		<i>TC Seq. Name</i> :OFCP244D (ACC SGM A Dmp D) ACC SGM B Gnd image update in Retrieval mode <i>TimeTag Type</i> : <i>Sub Schedule ID</i> : <input type="checkbox"/>			
19		MCS OBSM preparation for Image update in RETRIEVAL mode		Next Step: 20	
		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.			
19.1		Select 'Image UPDATE' from the menu			
		Select the Image menu of the OBSM Desktop . From the Image menu, select Update . The 'Image Catalog' window opens.			
19.2		Select image to be updated			
		Select the image to be updated for the memory device ASGBMEM . The 'Image UPDATE' window opens.			
19.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons .			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
20		Retrieve and process TM(6,6) packets		Next Step: 21	
		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.			
20.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the retrieved memory dump packets.			
21		Save merged image		Next Step: END	
		Save merged image with new ID .			
End of Sequence					
End of Procedure					