

Dump of CDMU and ACC memories (code and constants) (for AIT)
File: H_FCP_OBS_LPAT.xls
Author: t.loureiro-hp



Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform CDMU and ACC memory ground images update from memory dump. The procedure is to be used for updating the OBSM ground images on the Launch Pad. The procedure assumes that the ground image updates are conducted in Retrieval.

The procedure assumes that full dumps of code and constant memory areas (no variable areas) are dumped for the following CDMU and ACC memory devices:

- CDMU PM PROM
- CDMU PM EEPROM1&2
- CDMU CPU RAM (OBS image)
- CDMU TTR SGM A&B
- ACC PM PROM
- ACC PM EEPROM1&2
- ACC CPU RAM (OBS image)
- ACC RM SGM A&B

The memory dump is commanded using TC(6,5) and the memory locations content is received on ground in TM(6,6) packets.

The memory dumps are commanded using the TC sequence generated from this procedure, and not OBSM generated command stacks.

Summary of Constraints

CDMU in Operational Mode
- ACC in Operational Mode

The CDMU and ACC CPU RAM dump requests may not cross the border between Write Protected (WP) and Not Protected (NP) areas. If the border is violated, the command is rejected.

The CDMU and ACC SGM dump requests may not cross the border between: BSW Write Protected (BSW WP), ASW Write Protected (ASW WP), BSW Not Protected (BSW NP) and ASW Not Protected (ASW NP) areas. If a border is violated, the corresponding command is rejected.

The CDMU and ACC SGM dump requests shall observe the 32-bit alignment of the SGM devices. The maximum number of SAUs in a dump command shall be FFFC hex, instead of FFFF hex.

Memory areas are dumped through TC(6,5); this TC will be delayed when there is an ongoing:

- TC(6,2) Load Memory Using Absolute Addresses
- TC(6,5) Dump Memory Using Absolute Addresses
- TC(6,9) Check Memory Using Absolute Addresses
- TC(8,4,1,1) Copy Memory

Spacecraft Configuration

Start of Procedure

CDMU in Operational Mode
- ACC in Operational Mode

End of Procedure

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Same as start except:
 - CDMU and ACC memory dump sequence executed

Reference File(s)

Input Command Sequences

Output Command Sequences
 OFCPLPAT

Referenced Displays

ANDs GRDs SLDs

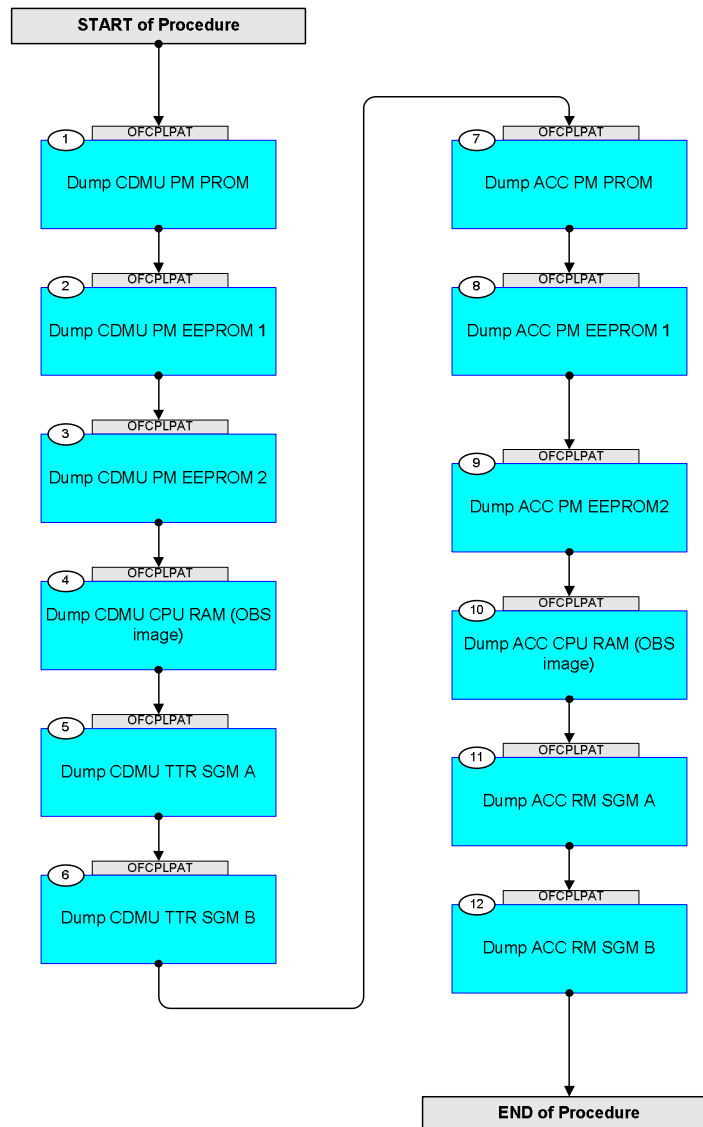
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/03/09	2.1	1	Created	Istefanov-hp	
25/03/09	2.2	2	Modified CPU RAM dumps due to updated OBSW. CDMU 3.8.2.1 ACC 4.0.4	t.loureiro-hp	
14/04/09		3	Modified CPU RAM dumps due to updated OBSW. CDMU 3.10.0.0	t.loureiro-hp	
14/04/09	2.3	4	Corrected typo on step 4 comment (no seq. generated).	t.loureiro-hp	

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Procedure Flowchart Overview



Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
Beginning of Procedure					
		OFCPLPAT TC Seq. Name : OFCPLPAT (CDMU&ACC Mem Dump) CDMU and ACC memories dump (code and constants) TimeTag Type: N Sub Schedule ID: □			
1		Dump CDMU PM PROM		Next Step: 2	
		For a full CDMU PM PROM dump (Memory ID = 0000 included in the address): Start Address = 0000.0000 hex End Address = 0000.FFFF hex Length = 10000 hex			
		Uplink the memory dump commands with ARM-GO			
		IMPORTANT: All commands in the sequence have delta release times and will be dispatched by the ARM-GO			
		Note: Ground image updates or dump data monitoring against already existing OBSM ground images will be done in Retrieval mode. This can be done in paralel with memory dump commands uplink.			
		2 TCs for CDMU PM PROM dump			
		Execute Telecommand <div style="text-align: right;">DumpMem_AbsAddr</div> <div style="text-align: right;">DC602180</div> Command Parameter(s) : <div style="display: flex; justify-content: space-between;"> <div>Memory_ID</div> <div>DH003180</div> <div>0000 <hex></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Start_Address</div> <div>DH004180</div> <div>0000 <hex></div> </div> <div style="display: flex; justify-content: space-between;"> <div>N</div> <div>DH105180</div> <div>FFFF <hex></div> </div> TC Control Flags : <div style="text-align: right;">GBM IL DSE</div> <div style="text-align: right;">--Y -- ---</div> Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
	ET=+ UT=+00.00.40	Execute Telecommand <div style="text-align: right;">DumpMem_AbsAddr</div> <div style="text-align: right;">DC602180</div> Command Parameter(s) : <div style="display: flex; justify-content: space-between;"> <div>Memory_ID</div> <div>DH003180</div> <div>0000 <hex></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Start_Address</div> <div>DH004180</div> <div>FFFF <hex></div> </div> <div style="display: flex; justify-content: space-between;"> <div>N</div> <div>DH105180</div> <div>1 <hex></div> </div> Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
2		Dump CDMU PM EEPROM 1		Next Step: 3	
		For a full CDMU PM EEPROM1 dump (Memory ID = 008 included in the address): Start Address = 0080.0000 hex End Address = 008F.FFFF hex Length = 100000 hex			
		17 TCs for CDMU PM EEPROM1 dump			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.20	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0080 <hex> 0000 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0080 <hex> FFFF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0081 <hex> FFFE <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0082 <hex> FFFD <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0083 <hex> FFFC <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0084 <hex> FFFB <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0085 <hex> FFFA <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0086 <hex> FFF9 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0087 <hex> FFF8 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0088 <hex> FFF7 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0089 <hex> FFF6 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 008A <hex> FFF5 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 008B <hex> FFF4 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 008C <hex> FFF3 <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 008D <hex> FFF2 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 008E <hex> FFF1 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 008F <hex> FFF0 <hex> 10 <hex>	TC	
3		Dump CDMU PM EEPROM 2		Next Step: 4	
		For a full CDMU PM EEPROM2 dump (Memory ID = 009 included in the address): Start Address = 0090.0000 hex End Address = 009F.FFFF hex Length = 100000 hex			
		17 TCs for CDMU PM EEPROM2 dump			
	ET=+ UT=+00.00.20	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0090 <hex> 0000 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0090 <hex> FFFF <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0091 <hex> FFFF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0092 <hex> FFFD <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0093 <hex> FFFC <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0094 <hex> FFFB <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0095 <hex> FFFA <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0096 <hex> FFF9 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0097 <hex> FFF8 <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0098 <hex> FFF7 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0099 <hex> FFF6 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 009A <hex> FFF5 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 009B <hex> FFF4 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 009C <hex> FFF3 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 009D <hex> FFF2 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 009E <hex> FFF1 <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 009F <hex> FFF0 <hex> 10 <hex>	TC	
4		Dump CDMU CPU RAM (OBS image)		Next Step: 5	
		For a dump of the CDMU CPU RAM OBS image (Memory ID = 02 included in the address): Start Address = 0200.0000 hex End Address = 020F.FFBF hex Length = FFFC0 hex			
		IMPORTANT: The CDMU CPU RAM dump request may not cross the border between Write Protected (WP) and Not Protected (NP) areas. If the border is violated, the command is rejected. The allocation of CPU RAM between WP and NP memory is defined at link time. The BSW constant, WriteProtectedRamEndAddr_C, points to the first byte of the unprotected RAM. For Herschel CDMU OBS v.3.10.0.0 WriteProtectedRamEndAddr_C = 020C.BAE0 hex			
		17 TCs for CDMU CPU RAM (OBS image only) dump			
	ET=+ UT=+00.00.20	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0200 <hex> 0000 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0200 <hex> FFFF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0201 <hex> FFFE <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0202 <hex> FFFF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0203 <hex> FFFC <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0204 <hex> FFFB <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0205 <hex> FFFA <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0206 <hex> FFF9 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0207 <hex> FFF8 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0208 <hex> FFF7 <hex> FFFF <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 0209 <hex> FFF6 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 020A <hex> FFF5 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 020B <hex> FFF4 <hex> BAEC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 020C <hex> BAE0 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 020D <hex> BADF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 020E <hex> BADE <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180 020F <hex> BADD <hex> 44E3 <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
5		Dump CDMU TTR SGM A		Next Step: 6	
		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			
		For CDMU ASW v.3.10 and BSW v.2.4, the definitions of the 4 SGM A memory areas are (Memory ID = 00B hex included): SGM BSW WP Start Address = 00B0.0000 hex Length = 80 hex SGM ASW WP Start Address = 00B0.0080 hex Length = 3FF80 hex			
		SGM BSW NP Start Address = 00B4.0000 hex Length = 46100 hex SGM ASW NP Start Address = 00B8.6100 hex Length = 39F00 hex			
		IMPORTANT: All accesses to SGM memory must be 32-bit transfers, aligned to 32-bit boundaries.			
		14 TCs for CDMU TTR SGM A dump			
5.1		Dump CDMU SGM A BSW Write Protected area			
		For a full CDMU SGM A BSW WP area dump (Memory ID = 00B hex included): Start Address = 00B0.0000 hex End Address = 00B0.007F hex Length = 80 hex			
		1 TC for CDMU SGM A BSW WP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand <div> <div>DumpMem_AbsAddr</div> <div>DC602180</div> </div> Command Parameter(s) : <div> <div>Memory_ID</div> <div>DH003180</div> <div>Start_Address</div> <div>DH004180</div> <div>N</div> <div>DH105180</div> </div> Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
5.2		Dump CDMU SGM A ASW Write Protected area			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		For a full CDMU SGM A ASW WP area dump (Memory ID = 00B hex included): Start Address = 00B0.0080 hex End Address = 00B3.FFFF hex Length = 3FF80 hex			
		4 TCs for CDMU SGM A ASW WP area dump			
	ET=+ UT=+00.00.20	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
5.3		Dump CDMU SGM A BSW Not Protected area			
		For a full CDMU SGM A BSW NP area dump (Memory ID = 00B hex included): Start Address = 00B4.0000 hex End Address = 00B8.60FF hex Length = 46100 hex			
		5 TCs for CDMU SGM A BSW NP area dump			

Dump of CDMU and ACC memories (code and constants) (for AIT)
File: H_FCP_OBS_LPAT.xls
Author: t.loureiro-hp



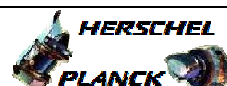
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
5.4		Dump CDMU SGM A ASW Not Protected area			
		For a full CDMU SGM A ASW NP area dump (Memory ID = 00B hex included): Start Address = 00B8.6100 hex End Address = 00BB.FFFF hex Length = 39F00 hex			
		4 TCs for CDMU SGM A ASW NP area dump			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Author: t.loureiro-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
6		Dump CDMU TTR SGM B		Next Step: 7	
		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			
		For CDMU ASW v.3.10 and BSW v.2.4, the definitions of the 4 SGM B memory areas are (Memory ID = 00E hex included): SGM BSW WP Start Address = 00E0.0000 hex Length = 80 hex SGM ASW WP Start Address = 00E0.0080 hex Length = 3FF80 hex			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		SGM BSW NP Start Address = 00E4.0000 hex Length = 46100 hex SGM ASW NP Start Address = 00E8.6100 hex Length = 39F00 hex			
		IMPORTANT: All accesses to SGM memory must be 32-bit transfers, aligned to 32-bit boundaries.			
		14 TCs for CDMU TTR SGM B dump			
6.1		Dump CDMU SGM B BSW Write Protected area			
		For a full CDMU SGM B BSW WP area dump (Memory ID = 00E hex included): Start Address = 00E0.0000 hex End Address = 00E0.007F hex Length = 80 hex			
		1 TC for CDMU SGM B BSW WP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
6.2		Dump CDMU SGM B ASW Write Protected area			
		For a full CDMU SGM B ASW WP area dump (Memory ID = 00E hex included): Start Address = 00E0.0080 hex End Address = 00E3.FFFF hex Length = 3FF80 hex			
		4 TCs for CDMU SGM B ASW WP area dump			
	ET=+ UT=+00.00.20	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
6.3		Dump CDMU SGM B BSW Not Protected area			
		For a full CDMU SGM B BSW NP area dump (Memory ID = 00E hex included): Start Address = 00E4.0000 hex End Address = 00E8.60FF hex Length = 46100 hex			
		5 TCs for CDMU SGM B BSW NP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
6.4		Dump CDMU SGM B ASW Not Protected area			
		For a full CDMU SGM B ASW NP area dump (Memory ID = 00E hex included): Start Address = 00E8.6100 hex End Address = 00EB.FFFF hex Length = 39F00 hex			
		4 TCs for CDMU SGM B ASW NP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
	ET=+ UT=+00.00.40	Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
7		Dump ACC PM PROM		Next Step: 8	
		For a full ACC PM PROM dump (Memory ID = 0000 included in the address): Start Address = 0000.0000 hex End Address = 0000.FFFF hex Length = 10000 hex			
		2 TCs for ACC PM PROM dump			
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory_ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory_ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
8		Dump ACC PM EEPROM 1		Next Step: 9	
		For a full ACC PM EEPROM1 dump (Memory ID = 008 included in the address): Start Address = 0080.0000 hex End Address = 008F.FFFF hex Length = 100000 hex			
		17 TCs for ACC PM EEPROM1 dump			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.20	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0080 <hex> 0000 <hex> (Def) FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0080 <hex> FFFF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0081 <hex> FFFE <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0082 <hex> FFFD <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0083 <hex> FFFC <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0084 <hex> FFFB <hex> FFFF <hex>	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0085 <hex> FFFA <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0086 <hex> FFF9 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0087 <hex> FFF8 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0088 <hex> FFF7 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0089 <hex> FFF6 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 008A <hex> FFF5 <hex> FFFF <hex>	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 008B <hex> FFF4 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 008C <hex> FFF3 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 008D <hex> FFF2 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 008E <hex> FFF1 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 008F <hex> FFF0 <hex> 10 <hex>	TC	
9		Dump ACC PM EEPROM2		Next Step: 10	
		For a full ACC PM EEPROM2 dump (Memory ID = 009 included in the address): Start Address = 0090.0000 hex End Address = 009F.FFFF hex Length = 100000 hex			
		17 TCs for ACC PM EEPROM2 dump			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.20	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0090 <hex> 0000 <hex> (Def) FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0090 <hex> FFFF <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0091 <hex> FFFE <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0092 <hex> FFFD <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0093 <hex> FFFC <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0094 <hex> FFFB <hex> FFFF <hex>	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0095 <hex> FFFA <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0096 <hex> FFF9 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0097 <hex> FFF8 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0098 <hex> FFF7 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0099 <hex> FFF6 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 009A <hex> FFF5 <hex> FFFF <hex>	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 009B <hex> FFF4 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 009C <hex> FFF3 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 009D <hex> FFF2 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 009E <hex> FFF1 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 009F <hex> FFF0 <hex> 10 <hex>	TC	
10		Dump ACC CPU RAM (OBS image)		Next Step: 11	
		Note: For a dump of the ACC CPU RAM OBS image (Memory ID = 02 included in the address): Start Address = 0200.0000 hex End Address = 020F.FFBF hex Length = FFFC0 hex			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		IMPORTANT: The ACC CPU RAM dump request may not cross the border between Write Protected (WP) and Not Protected (NP) areas. If the border is violated, the command is rejected. The allocation of ACC RAM between WP and NP memory is defined at link time. The BSW constant, WriteProtectedRamEndAddr_C, points to the first byte of the unprotected RAM. For Herschel ACC OBS v.4.0.4 AAE WriteProtectedRamEndAddr_C = 020A.CB98 hex			
		17 TCs for ACC PM RAM dump			
	ET=+ UT=+00.00.20	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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 Author: t.loureiro-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0204 <hex> FFFB <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0205 <hex> FFFA <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0206 <hex> FFF9 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0207 <hex> FFF8 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0208 <hex> FFF7 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 0209 <hex> FFF6 <hex> CBA2 <hex>	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 020A <hex> CB98 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 020B <hex> CB97 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 020C <hex> CB96 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 020D <hex> CB95 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 020E <hex> CB94 <hex> FFFF <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 020F <hex> CB93 <hex> 342D <hex>	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
 File: H_FCP_OBS_LPAT.xls
 Author: t.loureiro-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
11		Dump ACC RM SGM A		Next Step: 12	
		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			
		For ACMS ASW v.4.0 and BSW v.2.0, the definitions of the 4 SGM memory areas are (Memory ID = 00B hex included): SGM BSW WP Start Address = 00B0.0000 hex Length = 80 hex SGM ASW WP Start Address = 00B0.0080 hex Length = 3FF80 hex			
		SGM BSW NP Start Address = 00B4.0000 hex Length = 46100 hex SGM ASW NP Start Address = 00B8.6100 hex Length = 39F00 hex			
		IMPORTANT: All accesses to SGM memory must be 32-bit transfers, aligned to 32-bit boundaries.			
		14 TCs for ACC RM SGM A dump			
11.1		Dump ACC SGM A BSW Write Protected area			
		For a full ACC SGM A BSW WP area dump (Memory ID = 00B hex included): Start Address = 00B0.0000 hex End Address = 00B0.007F hex Length = 80 hex			
		1 TC for ACC SGM A BSW WP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand <div style="text-align: right;">Dump Memory</div> Command Parameter(s) : <div style="display: flex; justify-content: space-between;"> <div>Memory ID</div> <div>AH6M0109</div> <div>00B0 <hex></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Start Address</div> <div>AH6M1109</div> <div>0000 <hex> (Def)</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Length SAU</div> <div>AH6M3109</div> <div>80 <hex></div> </div> Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
11.2		Dump ACC SGM A ASW Write Protected area			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		For a full ACC SGM A ASW WP area dump (Memory ID = 00B hex included): Start Address = 00B0.0080 hex End Address = 00B3.FFFF hex Length = 3FF80 hex			
		4 TCs for ACC SGM A ASW WP area dump			
	ET=+ UT=+00.00.20	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
11.3		Dump ACC SGM A BSW Not Protected area			
		For a full ACC SGM A BSW NP area dump (Memory ID = 00B hex included): Start Address = 00B4.0000 hex End Address = 00B8.60FF hex Length = 46100 hex			
		5 TCs for ACC SGM A BSW NP area dump			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B4 <hex> 0000 <hex> (Def) FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B4 <hex> FFFC <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B5 <hex> FFF8 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B6 <hex> FFF4 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B7 <hex> FFF0 <hex> 6110 <hex>	TC	
11.4		Dump ACC SGM A ASW Not Protected area			
		For a full ACC SGM A ASW NP area dump (Memory ID = 00B hex included): Start Address = 00B8.6100 hex End Address = 00BB.FFFF hex Length = 39F00 hex			
		4 TCs for ACC SGM A ASW NP area dump			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B8 <hex> 6100 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00B9 <hex> 60FC <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00BA <hex> 60F8 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00BB <hex> 60F4 <hex> 9F0C <hex>	TC	
12		Dump ACC RM SGM B		Next Step: END	
		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			
		For ACMS ASW v.4.0 and BSW v.2.0, the definitions of the 4 SGM memory areas are (Memory ID = 00E hex included): SGM BSW WP Start Address = 00E0.0000 hex Length = 80 hex SGM ASW WP Start Address = 00E0.0080 hex Length = 3FF80 hex			

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		SGM BSW NP Start Address = 00E4.0000 hex Length = 46100 hex SGM ASW NP Start Address = 00E8.6100 hex Length = 39F00 hex			
		IMPORTANT: All accesses to SGM memory must be 32-bit transfers, aligned to 32-bit boundaries.			
		14 TCs for ACC RM SGM B dump			
12.1		Dump ACC SGM B BSW Write Protected area			
		For a full ACC SGM B BSW WP area dump (Memory ID = 00E hex included): Start Address = 00E0.0000 hex End Address = 00E0.007F hex Length = 80 hex			
		1 TC for ACC SGM B BSW WP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
12.2		Dump ACC SGM B ASW Write Protected area			
		For a full ACC SGM B ASW WP area dump (Memory ID = 00E hex included): Start Address = 00E0.0080 hex End Address = 00E3.FFFF hex Length = 3FF80 hex			
		4 TCs for ACC SGM B ASW WP area dump			
	ET=+ UT=+00.00.20	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

Dump of CDMU and ACC memories (code and constants) (for AIT)
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
12.3		Dump ACC SGM B BSW Not Protected area			
		For a full ACC SGM B BSW NP area dump (Memory ID = 00E hex included): Start Address = 00E4.0000 hex End Address = 00E8.60FF hex Length = 46100 hex			
		5 TCs for ACC SGM B BSW NP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00E5 <hex> FFF8 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00E6 <hex> FFF4 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00E7 <hex> FFF0 <hex> 6110 <hex>	TC	
12.4		Dump ACC SGM B ASW Not Protected area			
		For a full ACC SGM B ASW NP area dump (Memory ID = 00E hex included): Start Address = 00E8.6100 hex End Address = 00EB.FFFF hex Length = 39F00 hex			
		4 TCs for ACC SGM B ASW NP area dump			
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00E8 <hex> 6100 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00E9 <hex> 60FC <hex> FFFC <hex>	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00EA <hex> 60F8 <hex> FFFC <hex>	TC	
	ET=+ UT=+00.00.40	Execute Telecommand Dump Memory Command Parameter(s) : Memory ID AH6M0109 Start Address AH6M1109 Length SAU AH6M3109 Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	AC063109 00EB <hex> 60F4 <hex> 9F0C <hex>	TC	
End of Sequence					
End of Procedure					