

Update CDMU CROME Registers ground image from memory dump
File: H_FCP_OBS_1451.xls
Author: lstefanov-hp



Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to conduct the dump of the readable CDMU CROME Registers. The procedure covers both CDMU CROME A and B.

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

To be noted that for both register read and write activities, the access has to be done at Word level (32-bit access), with 32-bit address alignment.

The procedure uses a MOIS generated command sequence and not a command stack generated by OBSM.

Summary of Constraints

CDMU in Operational Mode

- Only one 32-bit register may be accessed per dump command
- All transfers must be 32-bit transfers (N must be a multiple of 4)
- All transfers must 32-bit aligned

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

End of Procedure

Same as start, except:
- CDMU CROME Registers dump executed

Reference File(s)

Input Command Sequences

Output Command Sequences

OFCP145E
OFCP145G

Referenced Displays

ANDs GRDs SLDs

Configuration Control Information

Status : Version 2 - Unchanged
Last Checkin: 10/04/09

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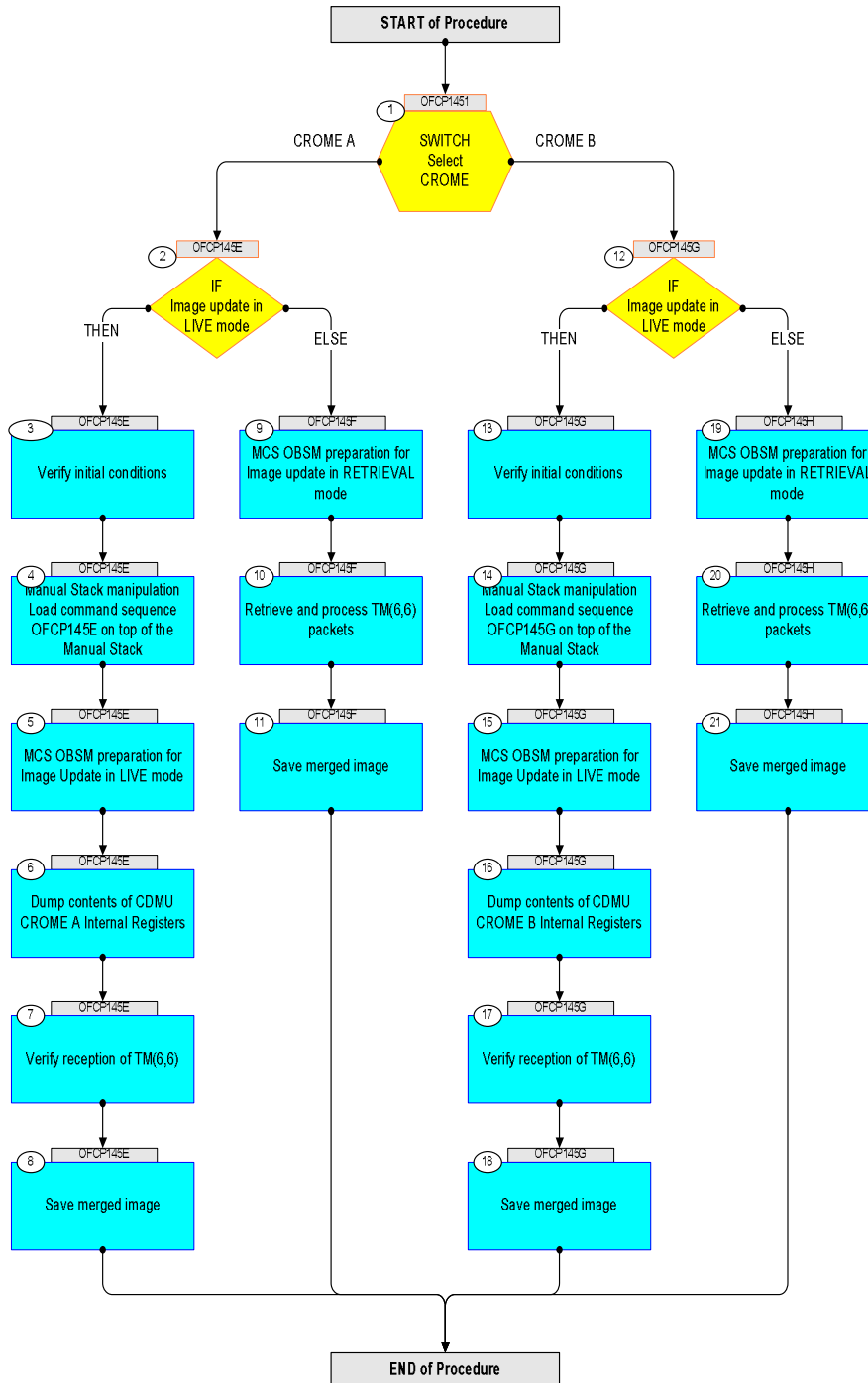


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
13/01/09	2	1	Created	lstefanov-hp	
10/04/09	2.3	2	1. removed 'Manual Dispatch' on all commands except the first one in each sequence	lstefanov-hp	

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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					
OFCP1451 <i>TC Seq. Name :OFCP1451 (CDMU CromeReg Dmp)</i> CDMU CROME Registers Gnd image update via memory dump <i>TimeTag Type:</i> <i>Sub Schedule ID:</i> <div style="text-align: center;">□</div>					
1		SWITCH Select CROME type: [Switch]		Next Step: CROME A 2 CROME B 12	
End of Sequence					
OFCP145E <i>TC Seq. Name :OFCP145E (CDMU CromeAReg Dmp E)</i> CDMU CROME A Registers Gnd image update in LIVE mode <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <div style="text-align: center;">□</div>					
2		IF Image update in LIVE mode type: [If]		Next Step: THEN 3 ELSE 9	
3		Verify initial conditions Check: - CDMU in Operational Mode CDMS SOE to confirm CDMU mode		Next Step: 4	
4		Manual Stack manipulation Load command sequence OFCP145E on top of the Manual Stack		Next Step: 5	
4.1		Sequence data FP: N/A TT: N/A			
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.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
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 CCRMAREG . 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		Dump contents of CDMU CROME A Internal Registers		Next Step: 7	
		Uplink the DC602180 memory dump commands with ARM-GO			
		Note: The commands have Delta Release time. All TCs will be dispatched by ARM-GO .			
		For each command, a TM(6,6) packets must be received on ground.			
6.1		Clock and Reset Block Module			
		CAR Power On Reset Register [CAR_PwrOnRst]:			
		Execute Telecommand <div style="text-align: right; margin-right: 20px;">DumpMem_AbsAddr</div> Command Parameter(s) : Memory_ID DH003180 00C0 <hex> Start_Address DH004180 0890 <hex> N DH105180 4 <hex> TC Control Flags : GBM IL DSE --Y --- 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
6.2		Memory Interface and Internal Bus Master Module			
		PIM Write Disable Status Register [PIM_WrDis]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber Configuration Register [PIM_ScuCNFR]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber Start Address [PIM_ScuSAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber End Address [PIM_ScuEAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Status Register [PIM_SR]:			
	ET=+ UT=+00.00.04	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		Packet Telecommand Decoder Module			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		PDEC Frame Analysis Report Copy [PDEC_FARCP]:			
	ET=+ UT=+00.00.04	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	
		PDEC Command Link Control Word [PDEC_CLCW]:			
	ET=+ UT=+00.00.04	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	
		PDEC MAP Interface 1 Status Register (MAP interface to PM A) [PDEC_MAP1STAT]:			
	ET=+ UT=+00.00.04	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	
		PDEC MAP Interface 5 Status Register [PDEC_MAP5STAT]:			
	ET=+ UT=+00.00.04	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	
		PDEC Monitor [PDEC_MON]:			
	ET=+ UT=+00.00.04	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		Packet Telecommand Encoder Module			
		TME VC Input Configuration Registers A (i.e. VC 2) [TME_VcCfgA]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers B (i.e. VC 3) [TME_VcCfgB]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers C (i.e. VC 0) [TME_VcCfgC]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers D (i.e. VC 1) [TME_VcCfgD]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers E (i.e. VC 4) [TME_VcCfgE]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers F (i.e. VC 5) [TME_VcCfgF]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		TME VC Input Configuration Registers G (i.e. VC 6) [TME_VcCfgG]:			
	ET+= UT+=00.00.04	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	
		TME VC Input Configuration Registers H (i.e. VC 7) [TME_VcCfgH]:			
	ET+= UT+=00.00.04	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	
		TME TM Encoding Configuration Register 0 [TME_TmEnCfg0]:			
	ET+= UT+=00.00.04	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	
		TME TM Encoding Configuration Register 1 [TME_TmEnCfg1]:			
	ET+= UT+=00.00.04	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	
		TME TFM SubC Divisor Register [TME_TfmSubCDiv]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		TME TFM Bit Rate Divisor Register [TME_TfmBRDiv]:			
	ET+= UT+=00.00.04	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	
6.5		CPDM Selector Module			
		CSEL Status Register [CS_STAT]:			
	ET+= UT+=00.00.04	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	
6.6		Command Pulse Distribution Module			
		CPDM Status Report Register [CPDM_SRR]:			
	ET+= UT+=00.00.04	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	
		CPDM Status Register [CPDM_SR]:			
	ET+= UT+=00.00.04	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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6.7		Reconfiguration Module (RM) and RMHAB register area			
		RMH Status Register [RMH_STAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Status Register [RMH_ASTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Monitor Status Register [RMH_MSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Filtered Alarm Status Register [RMH_FSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH LOG Pointer Register [RMH_LOGPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH AT Pointer Register [RMH_ATPTR]:			

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	ET=+ UT=+00.00.04	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	
		RMH PAP Pointer Register [PAPPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PKT Pointer Register [RMH_PKTPTTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PLT Pointer Register [RMH_PLTPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Register 0 [RMH_TGDLY0]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Register 1 [RMH_TGDLY1]:			
	ET=+ UT=+00.00.04	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	
		RMH Activation Delay Register [RMH_ADLY]:			

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	ET=+ UT=+00.00.04	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	
		RMH Retry Delay Register [RMH_RDLY]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Select Register [RMH_TGSEL]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Polarity Register [RMH_APOL]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Mode Register [RMH_TM0D]:			
	ET=+ UT=+00.00.04	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	
		RMH Vote Enable Register [RMH_VEN]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Enable Set Register [RMH_AENSET]:			

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	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 0 [RMH_TDLY0]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 1 [RMH_TDLY1]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 2 [RMH_TDLY2]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 3 [RMH_TDLY3]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 4 [RMH_TDLY4]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 5 [RMH_TDLY5]:			

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	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 6 [RMH_TDLY6]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 7 [RMH_TDLY7]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 8 [RMH_TDLY8]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 0 [RMH_ATCNT0]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 1 [RMH_ATCNT1]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 2 [RMH_ATCNT2]:			

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	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 3 [RMH_ATCNT3]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 4 [RMH_ATCNT4]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 5 [RMH_ATCNT5]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 6 [RMH_ATCNT6]:			
	ET=+ UT=+00.00.04	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	
6.8		Parallel IO Module			
		PIO IO Status Register [PIO_IOSR]:			

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	ET=+ UT=+00.00.04	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	
6.9		SpaceWire Module			
		SPW Link Status Register [SPW_SSR]:			
	ET=+ UT=+00.00.04	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	
6.10		On Board Time Module			
		OBT Control Register [OBT_CTRL]:			
	ET=+ UT=+00.00.04	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	
6.11		M1553 Module			
		M1553 Status Register [M5Stat]:			
	ET=+ UT=+00.00.04	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		Verify reception of TM(6,6)		Next Step: 8	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Note: A 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 : 16 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					
OFCP145F <i>TC Seq. Name : OFCP145F (CDMU CromeAReg Dmp F)</i> CDMU CROME A Registers 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 OBSM Desktop . From the Image menu, select Update . The 'Image Catalog' window opens.			
9.2		Select image to be updated			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Select the image to be updated for the memory device CCRMAREG . 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.			
11		Save merged image		Next Step: END	
		Save merged image with new ID .			
End of Sequence					
OFCP145G <i>TC Seq. Name</i> : OFCP145G (CDMU CromeBReg Dmp G) CDMU CROME B Registers Gnd image update in LIVE mode <i>TimeTag Type</i> : N <i>Sub Schedule ID</i> : <input type="checkbox"/>					
12		IF Image update in LIVE mode type: [If]		Next Step: THEN 13 ELSE 19	
13		Verify initial conditions		Next Step: 14	
		Check: - CDMU in Operational Mode			
		CDMS SOE to confirm CDMU mode			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
14		Manual Stack manipulation Load command sequence OFCP145G on top of the Manual Stack		Next Step: 15	
14.1		Sequence data FP: N/A TT: N/A			
15		MCS OBSM preparation for Image Update in LIVE mode		Next Step: 16	
		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 monitored			
		Select the image to be updated for the memory device CCRBREG . 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		Dump contents of CDMU CROME B Internal Registers		Next Step: 17	
		Uplink the DC602180 memory dump commands with ARM-GO			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Note: The commands have Delta Release time. All TCs will be dispatched by ARM-GO.			
		For each command, a TM(6,6) packets must be received on ground.			
16.1		Clock and Reset Block Module			
		CAR Power On Reset Register [CAR_PwrOnRst]:			
		Execute Telecommand DumpMem_AbsAddr DC602180 Command Parameter(s) : Memory_ID DH003180 00F0 <hex> Start_Address DH004180 0890 <hex> N DH105180 4 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
16.2		Memory Interface and Internal Bus Master Module			
		PIM Write Disable Status Register [PIM_WrDis]:			
	ET=+ UT=+00.00.04	Execute Telecommand DumpMem_AbsAddr DC602180 Command Parameter(s) : Memory_ID DH003180 00F0 <hex> Start_Address DH004180 004C <hex> N DH105180 4 <hex> Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
		PIM Scrubber Configuration Register [PIM_ScuCNFR]:			
	ET=+ UT=+00.00.04	Execute Telecommand DumpMem_AbsAddr DC602180 Command Parameter(s) : Memory_ID DH003180 00F0 <hex> Start_Address DH004180 0020 <hex> N DH105180 4 <hex> Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
		PIM Scrubber Start Address [PIM_ScuSAR]:			
	ET=+ UT=+00.00.04	Execute Telecommand DumpMem_AbsAddr DC602180 Command Parameter(s) : Memory_ID DH003180 00F0 <hex> Start_Address DH004180 0024 <hex> N DH105180 4 <hex> Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses		TC	
		PIM Scrubber End Address [PIM_ScuEAR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		PIM Status Register [PIM_SR]:			
	ET=+ UT=+00.00.04	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	
16.3		Packet Telecommand Decoder Module			
		PDEC Frame Analysis Report Copy [PDEC_FARCP]:			
	ET=+ UT=+00.00.04	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	
		PDEC Command Link Control Word [PDEC_CLCW]:			
	ET=+ UT=+00.00.04	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	
		PDEC MAP Interface 1 Status Register (MAP interface to PM A) [PDEC_MAP1STAT]:			
	ET=+ UT=+00.00.04	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	
		PDEC MAP Interface 5 Status Register [PDEC_MAP5STAT]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		PDEC Monitor [PDEC_MON]:			
	ET+= UT+=00.00.04	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	
16.4		Packet Telecommand Encoder Module			
		TME VC Input Configuration Registers A (i.e. VC 2) [TME_VcCfgA]:			
	ET+= UT+=00.00.04	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	
		TME VC Input Configuration Registers B (i.e. VC 3) [TME_VcCfgB]:			
	ET+= UT+=00.00.04	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	
		TME VC Input Configuration Registers C (i.e. VC 0) [TME_VcCfgC]:			
	ET+= UT+=00.00.04	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	
		TME VC Input Configuration Registers D (i.e. VC 1) [TME_VcCfgD]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers E (i.e. VC 4) [TME_VcCfgE]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers F (i.e. VC 5) [TME_VcCfgF]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers G (i.e. VC 6) [TME_VcCfgG]:			
	ET=+ UT=+00.00.04	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	
		TME VC Input Configuration Registers H (i.e. VC 7) [TME_VcCfgH]:			
	ET=+ UT=+00.00.04	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	
		TME TM Encoding Configuration Register 0 [TME_TmEnCfg0]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		TME TM Encoding Configuration Register 1 [TME_TmEncCfgl]:			
	ET+= UT+=00.00.04	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	
		TME TFM SubC Divisor Register [TME_TfmSubCDiv]:			
	ET+= UT+=00.00.04	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	
		TME TFM Bit Rate Divisor Register [TME_TfmBRDiv]:			
	ET+= UT+=00.00.04	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	
16.5		CPDM Selector Module			
		CSEL Status Register [CS_STAT]:			
	ET+= UT+=00.00.04	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	
16.6		Command Pulse Distribution Module			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		CPDM Status Report Register [CPDM_SRR]:			
	ET=+ UT=+00.00.04	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	
		CPDM Status Register [CPDM_SR]:			
	ET=+ UT=+00.00.04	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	
16.7		Reconfiguration Module (RM) and RMHAB register area			
		RMH Status Register [RMH_STAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Status Register [RMH_ASTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Monitor Status Register [RMH_MSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Filtered Alarm Status Register [RMH_FSTAT]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH LOG Pointer Register [RMH_LOGPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH AT Pointer Register [RMH_ATPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PAP Pointer Register [PAPPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PKT Pointer Register [RMH_PKTPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PLT Pointer Register [RMH_PLTPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Register 0 [RMH_TGDLY0]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Register 1 [RMH_TGDLY1]:			
	ET=+ UT=+00.00.04	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	
		RMH Activation Delay Register [RMH_ADLY]:			
	ET=+ UT=+00.00.04	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	
		RMH Retry Delay Register [RMH_RDLY]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Select Register [RMH_TGSEL]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Polarity Register [RMH_APOL]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Mode Register [RMH_TM0D]:			

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	ET=+ UT=+00.00.04	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	
		RMH Vote Enable Register [RMH_VEN]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Enable Set Register [RMH_AENSET]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 0 [RMH_TDLY0]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 1 [RMH_TDLY1]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 2 [RMH_TDLY2]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 3 [RMH_TDLY3]:			

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	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 4 [RMH_TDLY4]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 5 [RMH_TDLY5]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 6 [RMH_TDLY6]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 7 [RMH_TDLY7]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 8 [RMH_TDLY8]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 0 [RMH_ATCNT0]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 1 [RMH_ATCNT1]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 2 [RMH_ATCNT2]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 3 [RMH_ATCNT3]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 4 [RMH_ATCNT4]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 5 [RMH_ATCNT5]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 6 [RMH_ATCNT6]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
16.8		Parallel IO Module			
		PIO IO Status Register [PIO_IOSR]:			
	ET=+ UT=+00.00.04	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	
16.9		SpaceWire Module			
		SPW Link Status Register [SPW_SSR]:			
	ET=+ UT=+00.00.04	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	
16.10		On Board Time Module			
		OBT Control Register [OBT_CTRL]:			
	ET=+ UT=+00.00.04	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	
16.11		M1553 Module			

Update CDMU CROME Registers ground image from memory dump
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		M1553 Status Register [M5Stat]:			
	ET=+ UT=+00.00.04	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	
17		Verify reception of TM(6,6)		Next Step: 18	
		Note: A 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 : 16 Type : 6 Subtype : 6 PI1 : PI2 :			
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					
OFCP145H TC Seq. Name : OFCP145H (CDMU CromeBReg Dmp H) CDMU CROME B Registers Gnd image update in Retrieval mode TimeTag Type: Sub Schedule ID: <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.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
19.1		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.			
19.2		Select image to be updated			
		Select the image to be updated for the memory device CCRBREG . 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.			
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.			
21		Save merged image		Next Step: END	
		Save merged image with new ID .			
End of Sequence					
End of Procedure					