

Dump of ACC registers
 File: H_COP_OBS_9102.xls
 Author: lstefanov-hp



Procedure Summary

Objectives

This Herschel OBSM commissioning procedure is used to perform ACC ground images update from register dumps. The procedure is meant to be used for updating the OBSM ground images in the Commissioning phase, but it can also be used for commanding and monitoring ACC register dumps in any other mission phase. The procedures assumes that the ground image updates are conducted in Retrieval.

The procedure covers register dumps for the following ACC memory devices:

- ACC CPU System Registers
- ACC PM COCOS Registers
- ACC CROME A&B Registers

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

ACC in Operational Mode

Spacecraft Configuration

Start of Procedure

ACC in Operational Mode

End of Procedure

Same as start except:
 - ACC register dump sequence executed

Reference File(s)

Input Command Sequences

Output Command Sequences

OCOP9102

Referenced Displays

ANDs GRDs SLDs

Configuration Control Information

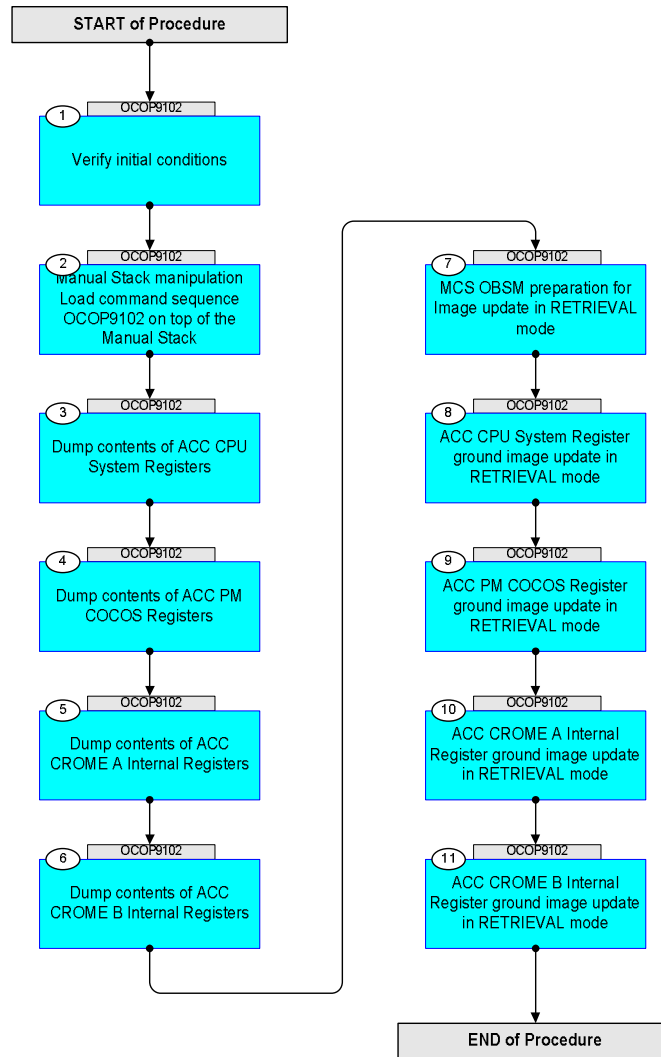
DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
01/04/09	2.3	1	Created	lstefanov-hp	

Status : Version 1 - Unchanged
 Last Checkin: 01/04/09

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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														
OCOP9102		TC Seq. Name :OCOP9102 (ACC Regs dump) ACC Registers dump TimeTag Type: N Sub Schedule ID: □												
1		Verify initial conditions		Next Step: 2										
		Check: - ACC in Operational Mode												
		ACMS SOE to confirm ACC mode												
2		Manual Stack manipulation Load command sequence OCOP9102 on top of the Manual Stack		Next Step: 3										
2.1		Sequence data FP: N/A TT: N/A												
3		Dump contents of ACC CPU System Registers		Next Step: 4										
		25 TCs for ACC CPU System Registers dump												
3.1		System Control Register												
		System Control Register [SYSCTR]:												
		Execute Telecommand <div style="display: flex; justify-content: space-between;"> Command Parameter(s) : Dump Memory AC063109 </div> <table style="width:100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width:30%;">Memory ID</td> <td style="width:20%;">AH6M0109</td> <td style="width:50%;">01F8 <hex></td> </tr> <tr> <td>Start Address</td> <td>AH6M1109</td> <td>0000 <hex> (Def)</td> </tr> <tr> <td>Length SAU</td> <td>AH6M3109</td> <td>4 <hex></td> </tr> </table> TC Control Flags : <div style="display: flex; justify-content: space-between; margin-top: 5px;"> GBM IL DSE --Y --- </div> Subsch. ID : 20 Det. descr. : TC(6,5) Dump Memory Using Absolute Addresses	Memory ID	AH6M0109	01F8 <hex>	Start Address	AH6M1109	0000 <hex> (Def)	Length SAU	AH6M3109	4 <hex>		TC	
Memory ID	AH6M0109	01F8 <hex>												
Start Address	AH6M1109	0000 <hex> (Def)												
Length SAU	AH6M3109	4 <hex>												

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
3.2		Memory Configuration Register			
		Memory Configuration Register [MCNFR]:			
	ET=+ UT=+00.00.04	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	
3.3		I/O Configuration Register			
		I/O Configuration Register [IOCNR]:			
	ET=+ UT=+00.00.04	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	
3.4		Waitstate Configuration Register			
		Waitstate Configuration Register [WSCNFR]:			
	ET=+ UT=+00.00.04	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	
3.5		Access Protection Segment 1 Base Register			
		Access Protection Segment 1 Base Register [APS1BR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
3.6		Access Protection Segment 1 End Register			
		Access Protection Segment 1 End Register [APSIER]:			
	ET+= UT+=00.00.04	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	
3.7		Access Protection Segment 2 Base Register			
		Access Protection Segment 2 Base Register [APS2BR]:			
	ET+= UT+=00.00.04	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	
3.8		Access Protection Segment 2 End Register			
		Access Protection Segment 2 End Register [APS2ER]:			
	ET+= UT+=00.00.04	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
3.9		Interrupt Shape Register			
		Interrupt Shape Register [INTSHR]:			
	ET+= UT+=00.00.04	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	
3.10		Interrupt Pending Register			
		Interrupt Pending Register [INTPDR]:			
	ET+= UT+=00.00.04	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	
3.11		Interrupt Mask Register			
		Interrupt Mask Register [INTMKR]:			
	ET+= UT+=00.00.04	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	
3.12		Interrupt Force Register			
		Interrupt Force Register [INTFCR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
3.13		Watchdog Timer Register			
		Watchdog Timer Register [WDOGTR]:			
	ET+= UT+=00.00.04	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	
3.14		Real Time Clock Timer Counter Register			
		Real Time Clock Timer Counter Register [RTCCR]:			
	ET+= UT+=00.00.04	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	
3.15		Real Time Clock Timer Scaler Register			
		Real Time Clock Timer Scaler Register [RTCSR]:			
	ET+= UT+=00.00.04	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
3.16		General Purpose Timer Counter Register			
		General Purpose Timer Counter Register [GPTCR]:			
	ET+= UT+=00.00.04	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	
3.17		General Purpose Timer Scaler Register			
		General Purpose Timer Scaler Register [GPTSr]:			
	ET+= UT+=00.00.04	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	
3.18		Timers Control Register			
		Timers Control Register [TIMCTR]:			
	ET+= UT+=00.00.04	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	
3.19		System Fault Status Register			
		System Fault Status Register [SYSFSR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
3.20		Failing Address Register			
		Failing Address Register [FAILAR]:			
	ET=+ UT=+00.00.04	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	
3.21		General Purpose Interface Configuration Register			
		General Purpose Interface Configuration Register [GPICNFR]:			
	ET=+ UT=+00.00.04	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	
3.22		General Purpose Interface Data Register			
		General Purpose Interface Data Register [GPIDATR]:			
	ET=+ UT=+00.00.04	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
3.23		Error & Reset Status Register			
		Error & Reset Status Register [ERRRSR]:			
	ET+= UT+=00.00.04	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	
3.24		Test Control Register			
		Test Control Register [TESCTR]:			
	ET+= UT+=00.00.04	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	
3.25		UART Status Register			
		UART Status Register [UARTSR]:			
	ET+= UT+=00.00.04	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	
4		Dump contents of ACC PM COCOS Registers		Next Step: 5	
		40 TCs for ACC PM COCOS Registers dump			
4.1		Alarm Signal Generator (ASG) Module			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		ASG Alarm Mask Register [ASG_AMR]:			
	ET=+ UT=+00.00.10	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	
		ASG Interrupt Mask Register [ASG_IMR]:			
	ET=+ UT=+00.00.04	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	
4.2		CPU Interface (CpuIf) Module			
		CpuIf Configuration Register [CpuIf_CR]:			
	ET=+ UT=+00.00.04	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	
		CpuIf Map Register [CpuIf_MR0]:			
	ET=+ UT=+00.00.04	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	
		CpuIf Interrupt Configuration Register 0 [CpuIf_ICR0]:			
	ET=+ UT=+00.00.04	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
		CpuIf Interrupt Configuration Register 1 [CpuIf_ICR1]:			
	ET=+ UT=+00.00.04	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	
		CpuIf Interrupt Configuration Register 2 [CpuIf_ICR2]:			
	ET=+ UT=+00.00.04	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	
		CpuIf Interrupt Configuration Register 3 [CpuIf_ICR3]:			
	ET=+ UT=+00.00.04	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	
		CpuIf Interrupt Configuration Register 4 [CpuIf_ICR4]:			
	ET=+ UT=+00.00.04	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	
4.3		Interrupt Controller (IC) Module			
		IC I/O Status Register [IC_IOSR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
4.4		1553 Interface A (M1553A) Module			
		M1553 Configuration Register [M5A_Conf]:			
	ET=+ UT=+00.00.04	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	
		M1553 Status Register [M5A_Stat]:			
	ET=+ UT=+00.00.04	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	
4.5		1553 Interface B (M1553B) Module			
		M1553 Configuration Register [M5B_Conf]:			
	ET=+ UT=+00.00.04	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	
		M1553 Status Register [M5B_Stat]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
4.6		1553 Interface C (M1553C) Module			
		M1553 Configuration Register [M5C_Conf]:			
	ET=+ UT=+00.00.04	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	
		M1553 Status Register [M5C_Stat]:			
	ET=+ UT=+00.00.04	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	
4.7		On Board Data Handling (OBDH) Module			
		OBDH Configuration Register [OBDH_CR]:			
	ET=+ UT=+00.00.04	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	
		OBDH CT Configuration Register [OBDH_CTCR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
4.8		On Board Time (OBT) Module			
		OBT Configuration Register [OBT_CONF]:			
	ET=+ UT=+00.00.04	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	
		OBT Control Register [OBT_CTRL]:			
	ET=+ UT=+00.00.04	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	
		OBT Pulse 1 Configuration Register [OBT_PUL1CONF]:			
	ET=+ UT=+00.00.04	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	
		OBT Pulse 1 Duration Register [OBT_PUL1DURFINE]:			
	ET=+ UT=+00.00.04	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	
		OBT Pulse 2 Configuration Register [OBT_PUL2CONF]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		OBT Pulse 2 Duration Register [OBT_PUL2DURFINE]:			
	ET+= UT+=00.00.04	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	
		OBT Pulse 3 Configuration Register [OBT_PUL3CONF]:			
	ET+= UT+=00.00.04	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	
		OBT Pulse 3 Duration Register [OBT_PUL3DURFINE]:			
	ET+= UT+=00.00.04	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	
		OBT Pulse 4 Configuration Register [OBT_PUL4CONF]:			
	ET+= UT+=00.00.04	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	
		OBT Pulse 4 Duration Register [OBT_PUL4DURFINE]:			

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	ET=+ UT=+00.00.04	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	
4.9		PI Bus Master (PIM) Module			
		PIM Enable Arm Register [PIM_EAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Configuration Arm Register [PIM_CAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Configuration Register [PIM_CR]:			
	ET=+ UT=+00.00.04	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	
		PIM Status Register [PIM_SR]:			
	ET=+ UT=+00.00.04	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
4.10		SpaceWire A (SPW A) Module			
		SPW Configuration Register [SPWA_CR]:			
	ET=+ UT=+00.00.04	Execute Telecommand <div style="text-align: right; margin-right: 20px;">Dump Memory</div> 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	
		SPW SSEPPL Configuration Register [SPWA_SCR]:			
	ET=+ UT=+00.00.04	Execute Telecommand <div style="text-align: right; margin-right: 20px;">Dump Memory</div> 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	
		SPW Status Register [SPWA_SR]:			
	ET=+ UT=+00.00.04	Execute Telecommand <div style="text-align: right; margin-right: 20px;">Dump Memory</div> 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	
		SPW SSEPPL Status Register [SPWA_SSR]:			
	ET=+ UT=+00.00.04	Execute Telecommand <div style="text-align: right; margin-right: 20px;">Dump Memory</div> 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	
4.11		SpaceWire B (SPW B) Module			
		SPW Configuration Register [SPWB_CR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		SPW SSEPPL Configuration Register [SPWB_SCR]:			
	ET+= UT+=00.00.04	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	
		SPW Status Register [SPWB_SR]:			
	ET+= UT+=00.00.04	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	
		SPW SSEPPL Status Register [SPWB_SSR]:			
	ET+= UT+=00.00.04	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	
5		Dump contents of ACC CROME A Internal Registers		Next Step: 6	
		47 TCs for ACC CROME A Internal Registers dump			
5.1		Clock and Reset Block Module			
		CAR Power On Reset Register [CAR_PwrOnRst]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.10	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	
5.2		Memory Interface and Internal Bus Master Module			
		PIM Write Disable Status Register [PIM_WrDis]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber Configuration Register [PIM_ScuCNFR]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber Start Address [PIM_ScuSAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber End Address [PIM_ScuEAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Status Register [PIM_SR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
5.3		CPDM Selector Module			
		CSEL Status Register [CS_STAT]:			
	ET=+ UT=+00.00.04	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	
5.4		Command Pulse Distribution Module			
		CPDM Status Report Register [CPDM_SRR]:			
	ET=+ UT=+00.00.04	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	
		CPDM Status Register [CPDM_SR]:			
	ET=+ UT=+00.00.04	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	
5.5		Reconfiguration Module (RM) and RMHAB register area			
		RMH Status Register [RMH_STAT]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Alarm Status Register [RMH_ASTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Monitor Status Register [RMH_MSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Filtered Alarm Status Register [RMH_FSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH LOG Pointer Register [RMH_LOGPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH AT Pointer Register [RMH_ATPTR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH PAP Pointer Register [PAPPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PKT Pointer Register [RMH_PKTPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH PLT Pointer Register [RMH_PLTPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Register 0 [RMH_TGDLY0]:			
	ET=+ UT=+00.00.04	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	
		RMH Toggle Delay Register 1 [RMH_TGDLY1]:			

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

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Vote Enable Register [RMH_VEN]:			
	ET=+ UT=+00.00.04	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	
		RMH Alarm Enable Set Register [RMH_AENSET]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 0 [RMH_TDLY0]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 1 [RMH_TDLY1]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 2 [RMH_TDLY2]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 3 [RMH_TDLY3]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 4 [RMH_TDLY4]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 5 [RMH_TDLY5]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 6 [RMH_TDLY6]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 7 [RMH_TDLY7]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 8 [RMH_TDLY8]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 0 [RMH_ATCNT0]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 1 [RMH_ATCNT1]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 2 [RMH_ATCNT2]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 3 [RMH_ATCNT3]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		RMH Attempt Count Register 4 [RMH_ATCNT4]:			
	ET+= UT+=00.00.04	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	
		RMH Attempt Count Register 5 [RMH_ATCNT5]:			
	ET+= UT+=00.00.04	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	
		RMH Attempt Count Register 6 [RMH_ATCNT6]:			
	ET+= UT+=00.00.04	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	
5.6		Parallel IO Module			
		PIO IO Status Register [PIO_IOSR]:			
	ET+= UT+=00.00.04	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
5.7		SpaceWire Module			
		SPW Link Status Register [SPW_SSR]:			
	ET+= UT+=00.00.04	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	
5.8		On Board Time Module			
		OBT Control Register [OBT_CTRL]:			
	ET+= UT+=00.00.04	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	
5.9		M1553 Module			
		M1553 Status Register [M5Stat]:			
	ET+= UT+=00.00.04	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	
6		Dump contents of ACC CROME B Internal Registers		Next Step: 7	
		47 TCs for ACC CROME B Internal Registers dump			
6.1		Clock and Reset Block Module			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		CAR Power On Reset Register [CAR_PwrOnRst]:			
	ET=+ UT=+00.00.10	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	
6.2		Memory Interface and Internal Bus Master Module			
		PIM Write Disable Status Register [PIM_WrDis]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber Configuration Register [PIM_ScuCNFR]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber Start Address [PIM_ScuSAR]:			
	ET=+ UT=+00.00.04	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	
		PIM Scrubber End Address [PIM_ScuEAR]:			
	ET=+ UT=+00.00.04	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
		PIM Status Register [PIM_SR]:			
	ET=+ UT=+00.00.04	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	
6.3		CPDM Selector Module			
		CSEL Status Register [CS_STAT]:			
	ET=+ UT=+00.00.04	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	
6.4		Command Pulse Distribution Module			
		CPDM Status Report Register [CPDM_SRR]:			
	ET=+ UT=+00.00.04	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	
		CPDM Status Register [CPDM_SR]:			
	ET=+ UT=+00.00.04	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	
6.5		Reconfiguration Module (RM) and RMHAB register area			
		RMH Status Register [RMH_STAT]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Alarm Status Register [RMH_ASTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Monitor Status Register [RMH_MSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH Filtered Alarm Status Register [RMH_FSTAT]:			
	ET=+ UT=+00.00.04	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	
		RMH LOG Pointer Register [RMH_LOGPTR]:			
	ET=+ UT=+00.00.04	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	
		RMH AT Pointer Register [RMH_ATPTR]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		RMH PAP Pointer Register [PAPPTR]:			
	ET+= UT+=00.00.04	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	
		RMH PKT Pointer Register [RMH_PKTPTR]:			
	ET+= UT+=00.00.04	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	
		RMH PLT Pointer Register [RMH_PLTPTR]:			
	ET+= UT+=00.00.04	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	
		RMH Toggle Delay Register 0 [RMH_TGDLY0]:			
	ET+= UT+=00.00.04	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	
		RMH Toggle Delay Register 1 [RMH_TGDLY1]:			

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

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		RMH Vote Enable Register [RMH_VEN]:			
	ET+= UT+=00.00.04	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	
		RMH Alarm Enable Set Register [RMH_AENSET]:			
	ET+= UT+=00.00.04	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	
		RMH Temporisation Delay Register 0 [RMH_TDLY0]:			
	ET+= UT+=00.00.04	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	
		RMH Temporisation Delay Register 1 [RMH_TDLY1]:			
	ET+= UT+=00.00.04	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	
		RMH Temporisation Delay Register 2 [RMH_TDLY2]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 3 [RMH_TDLY3]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 4 [RMH_TDLY4]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 5 [RMH_TDLY5]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 6 [RMH_TDLY6]:			
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 7 [RMH_TDLY7]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.04	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	
		RMH Temporisation Delay Register 8 [RMH_TDLY8]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 0 [RMH_ATCNT0]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 1 [RMH_ATCNT1]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 2 [RMH_ATCNT2]:			
	ET=+ UT=+00.00.04	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	
		RMH Attempt Count Register 3 [RMH_ATCNT3]:			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET+= UT+=00.00.04	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	
		RMH Attempt Count Register 4 [RMH_ATCNT4]:			
	ET+= UT+=00.00.04	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	
		RMH Attempt Count Register 5 [RMH_ATCNT5]:			
	ET+= UT+=00.00.04	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	
		RMH Attempt Count Register 6 [RMH_ATCNT6]:			
	ET+= UT+=00.00.04	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	
6.6		Parallel IO Module			
		PIO IO Status Register [PIO_IOSR]:			
	ET+= UT+=00.00.04	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
6.7		SpaceWire Module			
		SPW Link Status Register [SPW_SSR]:			
	ET+= UT+=00.00.04	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	
6.8		On Board Time Module			
		OBT Control Register [OBT_CTRL]:			
	ET+= UT+=00.00.04	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	
6.9		M1553 Module			
		M1553 Status Register [M5Stat]:			
	ET+= UT+=00.00.04	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	
7		MCS OBSM preparation for Image update in RETRIEVAL mode		Next Step: 8	
		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
		Note: Following steps assume Image UPDATE from dump data is executed. IF dump data is to be monitored against already existing OBSM ground images, ' Image UPDATE ' preparation activities in the following steps shall be replaced by ' Image MONITOR '.			
8		ACC CPU System Register ground image update in RETRIEVAL mode		Next Step: 9	
8.1		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.			
8.2		Select image to be updated			
8.2.1		IF ACC PM A			
		Select the image to be updated for the memory device ACCSYRGR . The 'Image UPDATE' window opens.			
8.2.2		ELSE ACC PM B			
		Select the image to be updated for the memory device ACCSYRGB . The 'Image UPDATE' window opens.			
8.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons .			
8.4		Retrieve and process TM(6,6) packets			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		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.			
8.5		Save merged image			
		Save merged image with new ID .			
9		ACC PM COCOS Register ground image update in RETRIEVAL mode		Next Step: 10	
9.1		Select 'Image UPDATE' from the menu			
		Select the Image menu of the <i>OBSM Desktop</i> . From the Image menu, select Update . The 'Image Catalog' window opens.			
9.2		Select image to be updated			
9.2.1		IF ACC PM A			
		Select the image to be updated for the memory device ACCRGCOC . The 'Image UPDATE' window opens.			
9.2.2		ELSE ACC PM B			
		Select the image to be updated for the memory device ACCRGCOB . The 'Image UPDATE' window opens.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
9.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons.			
9.4		Retrieve and process TM(6,6) packets			
		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.			
9.5		Save merged image			
		Save merged image with new ID .			
10		ACC CROME A Internal Register ground image update in RETRIEVAL mode		Next Step: 11	
10.1		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.			
10.2		Select image to be updated			
		Select the image to be updated for the memory device ACRMAREG . The 'Image UPDATE' window opens.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
10.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons.			
10.4		Retrieve and process TM(6,6) packets			
		Use the STEP button to retrieve and process the TM(6,6) packets, packet by packet and starting from the time shown in the packet time field.			
		OR			
		Use the PLAY button to retrieve and process the TM(6,6) packets in automated mode. Pressing the PLAY button, the display will start to retrieve and process packets, starting from the time shown in the packet time field. This processing will stop automatically when a packet is received which creation time is greater than the one contained in the end time field.			
10.5		Save merged image			
		Save merged image with new ID .			
11		ACC CROME B Internal Register ground image update in RETRIEVAL mode		Next Step: END	
11.1		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.			
11.2		Select image to be updated			
		Select the image to be updated for the memory device ACRMBREG . The 'Image UPDATE' window opens.			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
11.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons.			
11.4		Retrieve and process TM(6,6) packets			
		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.			
11.5		Save merged image			
		Save merged image with new ID .			
End of Sequence					
End of Procedure					