

Enable/Disable write to CDMU CPU and COCOS registers or EEPROM
 File: C_CRP_OBS_1100.xls
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Procedure Summary

Objectives

This Herschel and Planck common OBSM contingency procedure is used to Enable or Disable the write access to the CDMU CPU and COCOS registers or EEPROM. The write access via TC(6,2) or TC(8,4,7,1) is enabled/disabled.

Note: The write access to CDMU ASW/BSW code and constants can be Enabled/Disabled using procedure C_CRP_OBS_1102.

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

CDMU in operational mode
 - Write access to CDMU CPU and COCOS registers or EEPROM Enabled or Disabled

End of Procedure

CDMU in operational mode
 - Write access to CDMU CPU and COCOS registers or EEPROM Disabled or Enabled

Reference File(s)

Input Command Sequences

Output Command Sequences

OCR110A
 OCR110B
 OCR110C
 OCR110D

Referenced Displays

ANDs GRDs SLDs
 ZAD51999

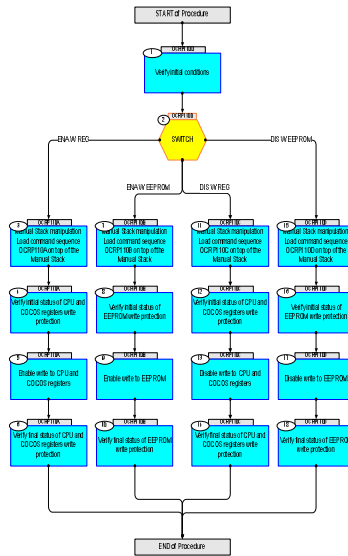
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
30/01/08	1	1	Created	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					
<p>OCR1100 TC Seq. Name :OCR1100 (ENA/DIS W EEPROM/REG) Enable/Disable write to CDMU CPU and COCOS registers or EEPROM</p> <p>TimeTag Type: Sub Schedule ID:</p> <p style="text-align: center;">□</p>					
1		Verify initial conditions		Next Step: 2	
		Check: - CDMU in operational mode - ENA/DIS status of write access to CDMU CPU and COCOS registers and EEPROM			
1.1		Check CDMU in operational mode			
1.2		Check write protection status			
		Note: Note that the parameters CPU/COCOS and EEPROM write protection status (daughters of DID_BSW_MEM_ACCESS) are part of the default CDMU diagnostic packet (BSW1) ; thus to acquire these parameters the packet must be enabled .			
		Note: Following TM check assumes write access to CPU and COCOS registers and EEPROM is Disabled .			
		Verify Telemetry CpuCocosWrtProt DEL0G160 = ENABLED		AND=ZAD51999	
		Verify Telemetry EEPromWriteProt DEL0J160 = ENABLED		AND=ZAD51999	
2		SWITCH type: [Switch]		Next Step: ENA W EEPROM 7 DIS W REG 11 ENA W REG 3 DIS W EEPROM 15	
End of Sequence					
<p>OCR110A TC Seq. Name :OCR110A (ENA W CDMU REGISTERS) Enable write to CDMU CPU and COCOS registers</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p>					

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
14		Verify final status of CPU and COCOS registers write protection		Next Step: END	
		Note: Protection Enabled = Write access Disabled Protection Disabled = Write access Enabled			
		Note: Note that the parameter CPU/COCOS write protection status (daughter of DID_BSW_MEM_ACCESS) is part of the default CDMU diagnostic packet (BSW1); thus to acquire this parameter the packet must be enabled.			
		Verify Telemetry CpuCocosWrtProt DELOG160	= ENABLED	AND=ZAD51999	
End of Sequence					
OCR110D <i>TC Seq. Name : OCR110D (DIS W CDMU EEPROM)</i> <i>Diabile write to CDMU EEPROM</i> <i>TimeTag Type: N</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
15		Manual Stack manipulation Load command sequence OCR110D on top of the Manual Stack		Next Step: 16	
15.1		Sequence data FP: N/A TT: N/A			
16		Verify initial status of EEPROM write protection		Next Step: 17	
		Note: Protection Enabled = Write access Disabled Protection Disabled = Write access Enabled			
		Note: Note that the parameter EEPROM write protection status (daughter of DID_BSW_MEM_ACCESS) is part of the default CDMU diagnostic packet (BSW1); thus to acquire this parameter the packet must be enabled.			
		Verify Telemetry EEPromWriteProt DEL0J160	= DISABLED	AND=ZAD51999	
17		Disable write to EEPROM		Next Step: 18	
		Uplink TC with ARM GO			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <div style="text-align: right;">DisableEEwrite</div> <i>TC Control Flags :</i> <div style="text-align: right;">GBM IL DSE --Y -- ---</div> <i>Subsch. ID : 10</i> <i>Det. descr. : Disable write to EEPROM</i>	DC805180	TC	
18		Verify final status of EEPROM write protection		Next Step: END	
		Note: Protection Enabled = Write access Disabled Protection Disabled = Write access Enabled			
		Note: Note that the parameter EEPROM write protection status (daughter of DID_BSW_MEM_ACCESS) is part of the default CDMU diagnostic packet (BSW1); thus to acquire this parameter the packet must be enabled.			
		Verify Telemetry <div style="text-align: right;">EEPromWriteProt DEL0J160 = ENABLED</div>	= ENABLED	AND=ZAD51999	
End of Sequence					
End of Procedure					