

Patch of Watchdog Temporisation Delay  
 File: H\_CRP\_DHS\_WDDL.xls  
 Author: S. Manganelli



## Procedure Summary

### Objectives

This procedure has to be run in order to change the Watchdog Temporisation delay from 2 to 4 seconds on both RM A and RM B settings. The procedure is needed only in case of SOHO failure, when TTRs lose power and TTR EEPROM values are restored.

### Summary of Constraints

To be run under guidance of a SOE

### Spacecraft Configuration

#### Start of Procedure

Standard Watchdog Alarm temporization delay

#### End of Procedure

Modified Watchdog Alarm temporization delay

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HRDWDDL

### Referenced Displays

ANDs	GRDs	SLDs
ZAZAI999		
ZAZAA999		
ZAZ4Z999		
ZAZ7R999		

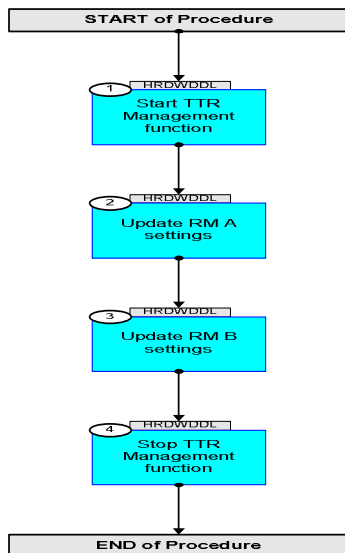
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
12/03/09		1	Created	cmevi-hp	
20/03/09	2.2	2	Added reference to SCR, modified proc cover comments, replaced AND reference	S. Manganelli	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<b>Beginning of Procedure</b>					
	HRDWDDL	TC Seq. Name :HRDWDDL ( WD Temp Delay patch )  TimeTag Type: N Sub Schedule ID:  □			
1		Start TTR Management function		Next Step: 2	
		Verify Telemetry  TtrSts DEL17170	= Stopped	AND=ZAZAI999	
		Execute Telecommand  StartTtrManag  TC Control Flags :  Subsch. ID : 10 Det. descr. : Start Ttr Management TC(8,1,109)  GBM IL DSE --Y -- ---	DCN06170	TC	
		Verify Telemetry  TtrSts DEL17170	= Running	AND=ZAZAI999	
		The operation can be followed as well using the scrolling display SCR XL001999			
2		Update RM A settings		Next Step: 3	
		Verify Telemetry  RMA_fromTTR-RMA DEEXG160	= ENABLED	AND=ZAZAA999	
		Verify Telemetry  RMA_fromTTR-RMB DEEXH160	= ENABLED	AND=ZAZAA999	
		Execute Telecommand  RM_A_Disable  TC Control Flags :  Subsch. ID : 10 Det. descr. : RM A Disable - High Priority Standard  GBM IL DSE --Y -- ---	DCA11170	TC	
		Verify Telemetry  RMA_fromTTR-RMA DEEXG160	= DISABLED	AND=ZAZAA999	
		Verify Telemetry  RMA_fromTTR-RMB DEEXH160	= DISABLED	AND=ZAZAA999	
		Execute Telecommand  ReadCromeReg  Command Parameter(s) : CromeId DH096170 CromeAddr DH102170  TC Control Flags :  Subsch. ID : 10 Det. descr. : TEMPLATE Read CROME Register TC(8,4,109,17)  GBM IL DSE --Y -- ---	DCT64170	TC	
			Crome_A (Def) 07005900 <hex>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Telemetry CromeAddr DE329170	= 7005900 <hex>	AND=ZAZ7R999	
		Verify Telemetry CromeData DE367170	= 9C07 <hex>	AND=ZAZ7R999	
		Execute Telecommand WriteCromeReg DCT65170 Command Parameter(s) : CromeId DH096170 CromeAddr DH102170 CromeData DH103170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Write CROME Register TC(8,4,109,18)	Crome_A (Def) 07005900 <hex> 9D08 <hex>	TC	
		Execute Telecommand ReadCromeReg DCT64170 Command Parameter(s) : CromeId DH096170 CromeAddr DH102170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Read CROME Register TC(8,4,109,17)	Crome_A (Def) 07005900 <hex>	TC	
		Verify Telemetry CromeAddr DE329170	= 7005900 <hex>	AND=ZAZ7R999	
		Verify Telemetry CromeData DE367170	= 9D08 <hex>	AND=ZAZ7R999	
		Verify Telemetry RMA_fromTTR-RMA DEEXG160	= DISABLED	AND=ZAZAA999	
		Verify Telemetry RMA_fromTTR-RMB DEEXH160	= DISABLED	AND=ZAZAA999	
		Execute Telecommand RM_A_enable DCA14170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : RM A enable - High Priority Standard		TC	
		Verify Telemetry RMA_fromTTR-RMA DEEXG160	= ENABLED	AND=ZAZAA999	
		Verify Telemetry RMA_fromTTR-RMB DEEXH160	= ENABLED	AND=ZAZAA999	
3		Update RM B settings		Next Step: 4	
		Verify Telemetry RMB_fromTTR-RMA DEEXJ160	= ENABLED	AND=ZAZAA999	
		Verify Telemetry RMB_fromTTR-RMB DEEXK160	= ENABLED	AND=ZAZAA999	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>RM_B_enable</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;"><b>GBM IL DSE</b></div> <div style="text-align: right; margin-right: 20px;"><b>--Y -- ---</b></div> <i>Subsch. ID : 10</i> <i>Det. descr. : RM B enable - High Priority Standard</i>	<b>DCA15170</b>	TC	
4		Stop TTR Management function		Next Step: END	
		Verify Telemetry <div style="text-align: right; margin-right: 20px;"><b>TtrSts</b></div> <div style="text-align: right; margin-right: 20px;"><b>DEL17170</b></div>	<b>= Running</b>	AND=ZAZAI999	
		Execute Telecommand <div style="text-align: right; margin-right: 20px;"><b>StopTtrManag</b></div> <i>TC Control Flags :</i> <div style="text-align: right; margin-right: 20px;"><b>GBM IL DSE</b></div> <div style="text-align: right; margin-right: 20px;"><b>--Y -- ---</b></div> <i>Subsch. ID : 10</i> <i>Det. descr. : Stop Ttr Management TC(8,2,109)</i>	<b>DCN07170</b>	TC	
		Verify Telemetry <div style="text-align: right; margin-right: 20px;"><b>TtrSts</b></div> <div style="text-align: right; margin-right: 20px;"><b>DEL17170</b></div>	<b>= Stopped</b>	AND=ZAZAI999	
End of Sequence					
<b>End of Procedure</b>					