

Configure TX2 for MR
File: H_CRP_TTC_T2MX.xls
Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to update the complete XPND2 configuration in order to align ASW TTC XPND2 configuration to the expected XPND2 configuration for MBR (150 Kbps).

Summary of Constraints

As a consequence of CDMU OBSW reboot, the datapool is reinitialised. i.e. the ASW TTC-2 configuration is "all zeros" in the datapool. Therefore in this case is necessary to command full TTC-2 configuration to align ASW TTC XPND2 configuration to the expected XPND2 configuration.

This procedure is applicable to all recoveries from any CDMU OBSW reboot as the overall ASW XPND2 configuration is not maintained in SGM.

The transponder configuration is performed through ASW TC(8,4,115,9); thus the status of the ASW function "TTC Management" has to be "running".

Spacecraft Configuration

Start of Procedure

CDMU in default configuration;
Downlink active via TX1 and TWTAl;
ASW TTC XPND2 configuration uninitialised.

End of Procedure

CDMU in default configuration;
Downlink active via TX1 and TWTAl;
ASW TTC XPND2 configuration initialised.

Reference File(s)

Input Command Sequences

Output Command Sequences

HRRT2MX

Referenced Displays

ANDs	GRDs	SLDs
WALC1584		(None)
ZAZ7I999		
ZAZ39999		
ZAZ7N999		

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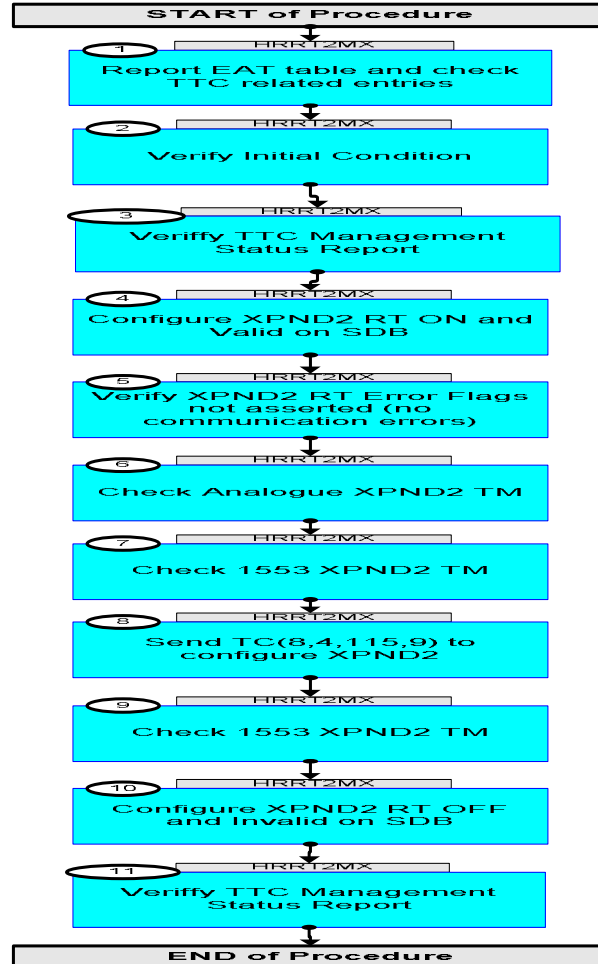
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
15/09/09	2.5	1	Created	E. Picallo	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name : HRRT2MX (Configure TX2 for MR) Transponder 2 Configuration for MBR (150Kbps) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Report EAT table and check TTC related entries		Next Step: 2
		Execute Telecommand <div style="text-align: right;">ReptEvtActTable</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- --</div> Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6)	DCT86170	
		Check that the following EAT entries are enabled: EventID Event Description 160 XPND1_NOT_VIT_RT_INV 37400 EPC1_HelixCur_OutHi_Lim 37401 EPC2_HelixCur_OutHi_Lim 37416 EPC1_HelixCur_OutLo_Lim 37417 EPC2_HelixCur_OutLo_Lim 37402 XPND1 RX Failure 37403 XPND2 RX Failure		
		37376 RFDNSW1_Not_In_PosB_Fail 37377 RFDNSW1_Not_In_PosA_Fail 37378 RFDNSW2_Not_In_PosB_Fail 37379 RFDNSW2_Not_In_PosA_Fail 37380 RFDNSW3_Not_In_PosB_Fail 37381 RFDNSW3_Not_In_PosA_Fail 37382 RFDNSW4_Not_In_PosB_Fail 37383 RFDNSW4_Not_In_PosA_Fail		
		Check that the following EAT entries is disabled: EventID Event Description 161 XPND2_NOT_VIT_RT_INV		
2		Verify Initial Condition		Next Step: 3
2.1		Verify XPND2 Status		<input type="checkbox"/>
		Verify Telemetry <div style="text-align: right;">Xpnd2Tx_L16_S WM92C565</div>	= ON	AND=WALC1584
		Verify Telemetry <div style="text-align: right;">Xpnd2Tx_L16_I WM908565</div>	>= 0.30 A <= 0.40 A	AND=ZAZ7I999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TX2 ON-OFF Stat RMB16442	= OFF	AND=ZAZ71999
2.2		Verify SDB status		<input type="checkbox"/>
		Verify Telemetry Active_Bus_A_B DEFJ1160	= BUS_A	AND=ZAZ39999
		Verify Telemetry BusA_HealthySts DEFJ2160	= Healthy	AND=ZAZ39999
		Verify Telemetry BusB_HealthySts DEFJ3160	= Healthy	AND=ZAZ39999
		Verify Telemetry SDB_FDIR DEFJ4160	= ENABLED	AND=ZAZ39999
3		Verify TTC Management Status Report		Next Step: 4
3.1		Send TC (8,5,115) to acquire the status of the ASW TTC function		<input type="checkbox"/>
		Execute Telecommand TtcReportStatus TC Control Flags : Subsch. ID : 10 Det. descr. : TTC: Report TTC Management Status TC(8,5,115) GBM IL DSE --Y -- ---	DC30F170	
3.2		Verify that TM(8,6,115) has been received		<input type="checkbox"/>
		Verify Packet Reception TM 8-6-115 TTC Management Status Report - RunningIdle Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 29695 PI2: 0	TtcMngRun	
		Verify Packet Telemetry (Pkt = TtcMngRun) Function_ID DE008170	= TTC_Manag	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) ActivityId DE022170		
		Verify Packet Telemetry (Pkt = TtcMngRun) SID DE010170	= 0 <dec>	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = TtcMngRun) TmEncSubSSts DEW33170	= TmEncSubSmpOff	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) TmEncAConfId DEW35170	= TmMod150KbpsM	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) TmEncBConfId DEW36170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1RxBitRate DE036170	= rate_4_kbps	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2RxBitRate DE129170	= rate_125_bps	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1Unus DE037170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1Unus DE050170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_ER DE038170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_CM DE039170	= ON	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_RM DE040170	= ON/OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_HRM DE041170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_MRM DE042170	= ON	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1LRM1 DE043170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1LRM2 DE044170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_RMI DE045170	= 0.6	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_TMI DE046170	= 1.2	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW2_PG DE047170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW2Unus DE048170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW2OPLS DE049170	= -4	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1Unus DEW37170		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1Unus DEW50170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_ER DEW38170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_CM DEW39170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_RM DEW40170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_HRM DEW41170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_MRM DEW42170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1LRM1 DEW43170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1LRM2 DEW44170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_RMI DEW45170	= 0	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_TMI DEW46170	= 0	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW2_PG DEW47170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW2Unus DEW48170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW2OPLS DEW49170	= -7	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) ArmRfdnSwCode DEZA7170	= NONE	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) RfdnSwStatus DEZD2170	= Not armed	(None)
4		Configure XPND2 RT ON and Valid on SDB		Next Step: 5
4.1		Set XPND2 RT ON and Valid		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand ConfigureSDBFDIR Command Parameter(s) : RTA DH011161 M0 DH030161 M1 DH031161 M2 DH032161 M3 DH033161 M4 DH034161 M5 DH035161 M6 DH036161 M7 DH037161 F0 DH018161 F1 DH019161 F2 DH020161 F3 DH021161 F4 DH022161 F5 DH023161 F6 DH024161 F7 DH025161 M12 DH051161 M_C DH043161 M8 DH038161 M9 DH039161 M10 DH040161 M11 DH041161 F12 DH050161 CNT DH042161 F8 DH026161 F9 DH027161 F10 DH028161 F11 DH029161 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 10 Det. descr. : Configure SDB FDIR	DC005161 XPND 2 Update status Ignore Flag Ignore Flag Ignore Flag Update status Ignore Flag Ignore Flag Ignore Flag ON Alive Well TC Well TM Valid Non-vital NOMINAL ON Ignore Flag Ignore CNT Ignore Flag Ignore Flag Ignore Flag Ignore Flag ENABLED LoopCnt1 Bus A Healthy Healthy ENABLED	
4.2		Verify XPND2 status on the 1553 S/C bus		<input type="checkbox"/>
		Verify Telemetry XPND2On_Off DEFD1160	= ON	AND=ZAZ7I999
		Verify Telemetry XPND2Val_Inval DEFD5160	= Valid	AND=ZAZ7I999
5		Verify XPND2 RT Error Flags not asserted (no communication errors)		Next Step: 6
		Verify XPND2 RT message error bit status Telemetry MsgErr DEYT2161	= 0 <dec>	AND=ZAZ7N999
		Verify XPND2 RT busy bit status Telemetry Busy DEYT6161	= 0 <dec>	AND=ZAZ7N999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify XPND2 subsystem error flag status Telemetry SubSys DEYT7161	= 1 <dec>	AND=ZAZ7N999
		Verify XPND2 RT terminal flag bit status Telemetry Term DEYT9161	= 0 <dec>	AND=ZAZ7N999
6		Check Analogue XPND2 TM		Next Step: 7
		Verify RX AGC Level Telemetry XPND2_RX2_AGC_LV RMB10442	>= -140.0 dbmW	AND=ZAZ7I999
		Verify PLL Phase Error Telemetry XPND2_RX2_PLL_SP RMB12442	< 130.0 kHz > -130.0 kHz	AND=ZAZ7I999
		Verify RF Output Power Telemetry XPND2_RF2_OUT_PW RMB14442	< -13.0 dbmW	AND=ZAZ7I999
		Verify RX TC rate Status Telemetry RX2 125-4K Stat RMB18442	= 125 bps	AND=ZAZ7I999
		Verify Transmitter temperature Telemetry TX2_TEMP RMB03442	> 20.0 degC	AND=ZAZ7I999
7		Check 1553 XPND2 TM		Next Step: 8
		Verify XPND2 status Telemetry X2 Status - XS RMB43442	= NoTmModeActive	AND=ZAZ7I999
		Verify Telemetry counter Telemetry X2 TLM counter RMB42442	= 80 <dec>	AND=ZAZ7I999
		Verify Low Rate-1 status Telemetry X2 LowRate-1 MD RMB51442	= OFF	AND=ZAZ7I999
		Verify Low Rate-2 status Telemetry X2 LowRate-2 MD RMB52442	= OFF	AND=ZAZ7I999
		Verify Medium Rate Modulator status Telemetry X2 MedRate-MRM RMB50442	= ON	AND=ZAZ7I999
		Verify High Rate status Telemetry X2 HIRateMD-HRM RMB49442	= OFF	AND=ZAZ7I999
		Verify Ranging Modulator status Telemetry X2 Rang MD - RM RMB48442	= OFF	AND=ZAZ7I999
		Verify Coherent Mode status Telemetry X2 Coher MOD-CM RMB47442	= OFF	AND=ZAZ7I999
		Verify RNG Modulation Index Telemetry X2 RNGMD ID-RMI RMB53442	= 0.6 rad	AND=ZAZ7I999
		Verify TM Modulation Index Telemetry X2 TM MD ID-TMI RMB54442	= 1.2 rad	AND=ZAZ7I999

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		Verify Output Power Level Setting Telemetry X2 OutPowLevSet RMB56442	= -4 dbmW	AND=ZAZ7I999																																												
		Verify Internal Bit Pattern Generator Telemetry X2 IntBitPatGen RMB55442	= OFF	AND=ZAZ7I999																																												
		Verify External Reference Telemetry X2 Ext Ref - ER RMB46442	= OFF	AND=ZAZ7I999																																												
		Verify Receiver lock status Telemetry X2 Rx Lock - RL RMB45442	= No locked	AND=ZAZ7I999																																												
		Verify RX AGC Level Telemetry X2 AGC TMUplnk RMB41442	= 32.5 dbmW	AND=ZAZ7I999																																												
		Verify PLL Phase Error Telemetry X2 RX PLL PhErr RMB40442	= 440.0 kHz	AND=ZAZ7I999																																												
		Verify Squelch Status Telemetry X2 SqlchSts-SS RMB44442	= ON	AND=ZAZ7I999																																												
		Verify Telemetry X2 TcBitRateTCB RMB62442	= Low	AND=ZAZ7I999																																												
		It is expected that the following XPND2 telemeries provided through 1553 bus are not reliable (value remain frozen): PLL Phase Error, RX AGC Level, TLM counter, XPND status, Squelsh status Rx lock status																																														
8		Send TC(8,4,115,9) to configure XPND2		Next Step: 9																																												
		Execute Telecommand <p style="text-align: center;">XpndConfigure_Templ</p> Command Parameter(s) : <table style="margin-left: 40px; border: none;"> <tr> <td>XpndId</td> <td>DH018170</td> <td>XpndB</td> <td></td> </tr> <tr> <td>XpndConfMask1Unus</td> <td>DH220170</td> <td>11 <bin></td> <td></td> </tr> <tr> <td>XpndConfMask1_ER</td> <td>DH221170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1_CM</td> <td>DH222170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1_RM</td> <td>DH223170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1_HRM</td> <td>DH224170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1_MRM</td> <td>DH225170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1LRM1</td> <td>DH226170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1LRM2</td> <td>DH227170</td> <td>ON</td> <td></td> </tr> <tr> <td>XpndConfMask1_RMI</td> <td>DH228170</td> <td>Update</td> <td></td> </tr> <tr> <td>XpndConfMask1_TMI</td> <td>DH229170</td> <td>Update</td> <td></td> </tr> </table>	XpndId	DH018170	XpndB		XpndConfMask1Unus	DH220170	11 <bin>		XpndConfMask1_ER	DH221170	ON		XpndConfMask1_CM	DH222170	ON		XpndConfMask1_RM	DH223170	ON		XpndConfMask1_HRM	DH224170	ON		XpndConfMask1_MRM	DH225170	ON		XpndConfMask1LRM1	DH226170	ON		XpndConfMask1LRM2	DH227170	ON		XpndConfMask1_RMI	DH228170	Update		XpndConfMask1_TMI	DH229170	Update		DCT18170	
XpndId	DH018170	XpndB																																														
XpndConfMask1Unus	DH220170	11 <bin>																																														
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XpndConfMask1_MRM	DH225170	ON																																														
XpndConfMask1LRM1	DH226170	ON																																														
XpndConfMask1LRM2	DH227170	ON																																														
XpndConfMask1_RMI	DH228170	Update																																														
XpndConfMask1_TMI	DH229170	Update																																														

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		XpndConfMask2_PG XpndConfMask2Unus XpndConfMask2OPLS XpndConfDW1Unus XpndConfDW1_ER XpndConfDW1_CM XpndConfDW1_RM XpndConfDW1_HRM XpndConfDW1_MRM XpndConfDW1LRM1 XpndConfDW1LRM2 XpndConfDW1_RMI XpndConfDW1_TMI XpndConfDW2_PG XpndConfDW2Unus	DH230170 DH231170 DH232170 DH020170 DH021170 DH022170 DH023170 DH024170 DH025170 DH026170 DH027170 DH028170 DH029170 DH030170 DH031170	ON 0 <dec> (Def) Update 0 <dec> (Def) OFF (Def) OFF (Def) OFF (Def) OFF (Def) ON OFF (Def) OFF (Def) 0.6 1.2 OFF (Def) 0 <dec> (Def)	
		XpndConfDW2OPLS	DH032170	-4	
		TC Control Flags :			
			GBM IL DSE --Y -- --		
		Subsch. ID : 10 Det. descr. : TEMPLATE Configure Xpnd TC(8,4,115,9)			
9		Check 1553 XPND2 TM			Next Step: 10
		Verify XPND2 status Telemetry X2 Status - XS	RMB43442	= NoTmModeActive	AND=ZAZ7I999
		Verify Telemetry counter Telemetry X2 TLM counter	RMB42442	= 80 <dec>	AND=ZAZ7I999
		Verify Low Rate-1 status Telemetry X2 LowRate-1 MD	RMB51442	= OFF	AND=ZAZ7I999
		Verify Low Rate-2 status Telemetry X2 LowRate-2 MD	RMB52442	= OFF	AND=ZAZ7I999
		Verify Medium Rate Modulator status Telemetry X2 MedRate-MRM	RMB50442	= ON	AND=ZAZ7I999
		Verify High Rate status Telemetry X2 HIRateMD-HRM	RMB49442	= OFF	AND=ZAZ7I999
		Verify Ranging Modulator status Telemetry X2 Rang MD - RM	RMB48442	= OFF	AND=ZAZ7I999
		Verify Coherent Mode status Telemetry X2 Coher MOD-CM	RMB47442	= OFF	AND=ZAZ7I999
		Verify RNG Modulation Index Telemetry X2 RNGMD ID-RMI	RMB53442	= 0.6 rad	AND=ZAZ7I999
		Verify TM Modulation Index Telemetry X2 TM MD ID-TMI	RMB54442	= 1.2 rad	AND=ZAZ7I999
		Verify Output Power Level Setting Telemetry X2 OutPowLevSet	RMB56442	= -4 dbmW	AND=ZAZ7I999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Internal Bit Pattern Generator Telemetry X2 IntBitPatGen RMB55442	= OFF	AND=ZAZ7I999
		Verify External Reference Telemetry X2 Ext Ref - ER RMB46442	= OFF	AND=ZAZ7I999
		Verify Receiver lock status Telemetry X2 Rx Lock - RL RMB45442	= No locked	AND=ZAZ7I999
		Verify RX AGC Level Telemetry X2 AGC TMUplnk RMB41442	= 32.5 dbmW	AND=ZAZ7I999
		Verify PLL Phase Error Telemetry X2 RX PLL PhErr RMB40442	= 440.0 kHz	AND=ZAZ7I999
		Verify Squelch Status Telemetry X2 SqlchSts-SS RMB44442	= ON	AND=ZAZ7I999
		Verify Telemetry X2 TcBitRateTCB RMB62442	= Low	AND=ZAZ7I999
10		Configure XPND2 RT OFF and Invalid on SDB		Next Step: 11
10.1		Set XPND2 RT OFF and Invalid		<input type="checkbox"/>
		Execute Telecommand Command Parameter(s) :	ConfiguresSDBFDIR DC005161	
		RTA DH011161	XPND 2	
		M0 DH030161	Update status	
		M1 DH031161	Ignore Flag	
		M2 DH032161	Ignore Flag	
		M3 DH033161	Ignore Flag	
		M4 DH034161	Update status	
		M5 DH035161	Ignore Flag	
		M6 DH036161	Ignore Flag	
		M7 DH037161	Ignore Flag	
		F0 DH018161	OFF	
		F1 DH019161	Alive	
		F2 DH020161	Well TC	
		F3 DH021161	Well TM	
		F4 DH022161	Invalid	
		F5 DH023161	Non-vital	
		F6 DH024161	NOMINAL	
		F7 DH025161	ON	
		M12 DH051161	Ignore Flag	
		M_C DH043161	Ignore CNT	
		M8 DH038161	Ignore Flag	
		M9 DH039161	Ignore Flag	
		M10 DH040161	Ignore Flag	
		M11 DH041161	Ignore Flag	
		F12 DH050161	ENABLED	
		CNT DH042161	LoopCnt1	
		F8 DH026161	Bus A	

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		F9 DH027161 F10 DH028161 F11 DH029161 TC Control Flags : Subsch. ID : 10 Det. descr. : Configure SDB FDIR	Healthy Healthy ENABLED GBM IL DSE --Y -- ---	
10.2		Verify XPND2 status on the 1553 S/C bus		<input type="checkbox"/>
		Verify Telemetry XPND2On_Off DEFD1160	= OFF	AND=ZAZ7I999
		Verify Telemetry XPND2Val_Inval DEFD5160	= Invalid	AND=ZAZ7I999
11		Verify TTC Management Status Report		Next Step: END
11.1		Send TC (8,5,115) to acquire the status of the ASW TTC function		<input type="checkbox"/>
		Execute Telecommand TtcReportStatus TC Control Flags : Subsch. ID : 10 Det. descr. : TTC: Report TTC Management Status TC(8,5,115)	DC30F170 GBM IL DSE --Y -- ---	
11.2		Verify that TM(8,6,115) has been received		<input type="checkbox"/>
		Verify Packet Reception TM 8-6-115 TTC Management Status Report - RunningIdle Packet Details:	TtcMngRun APID: 16 Type: 8 Subtype: 6 P11: 29695 P12: 0	
		Verify Packet Telemetry (Pkt = TtcMngRun) Function_ID DE008170	= TTC_Manag	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) ActivityId DE022170		
		Verify Packet Telemetry (Pkt = TtcMngRun) SID DE010170	= 0 <dec>	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = TtcMngRun) TmEncSubSSts DEW33170	= TmEncSubSmpOff	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) TmEncAConfId DEW35170	= TmMod150KbpsM	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) TmEncBConfId DEW36170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1RxBitRate DE036170	= rate_4_kbps	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2RxBitRate DE129170	= rate_125_bps	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1Unus DE037170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1Unus DE050170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_ER DE038170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_CM DE039170	= ON	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_RM DE040170	= ON/OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_HRM DE041170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_MRM DE042170	= ON	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1LRM1 DE043170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1LRM2 DE044170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_RMI DE045170	= 0.6	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW1_TMI DE046170	= 1.2	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW2_PG DE047170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW2Unus DE048170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd1CfgDW2OPLS DE049170	= -4	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1Unus DEW37170		

Configure TX2 for MR
 File: H_CRP_TTC_T2MX.xls
 Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1Unus DEW50170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_ER DEW38170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_CM DEW39170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_RM DEW40170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_HRM DEW41170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_MRM DEW42170	= ON	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1LRM1 DEW43170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1LRM2 DEW44170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_RMI DEW45170	= 0.6	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW1_TMI DEW46170	= 1.2	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW2_PG DEW47170	= OFF	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW2Unus DEW48170		
		Verify Packet Telemetry (Pkt = TtcMngRun) Xpnd2CfgDW2OPLS DEW49170	= -4	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) ArmRfdnSwCode DEZA7170	= NONE	(None)
		Verify Packet Telemetry (Pkt = TtcMngRun) RfdnSwStatus DEZD2170	= Not armed	(None)
End of Procedure				