

Reset PAP attempt counters on RM B  
 File: H\_CRP\_DHS\_ATT\_B.xls  
 Author: S. Manganelli



## Procedure Summary

### Objectives

To provide a self-contained procedure to reset the attempt counters on RM B

### Summary of Constraints

The procedure must be performed under guidance of a SOE

### Spacecraft Configuration

#### Start of Procedure

Some configuration of the RM B attempt counter and last chance table register

#### End of Procedure

RM B attempt counter and last chance table register reset to zero

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HRDATTBX  
 HRDATT0B  
 HRDATT1B  
 HRDATT2B  
 HRDATT3B  
 HRDATT4B  
 HRDATT5B  
 HRDATT6B  
 HRDATTBY

### Referenced Displays

<b>ANDs</b>	<b>GRDs</b>	<b>SLDs</b>
ZAZ7R999		(None)
ZAZAA999		
ZAZAI999		

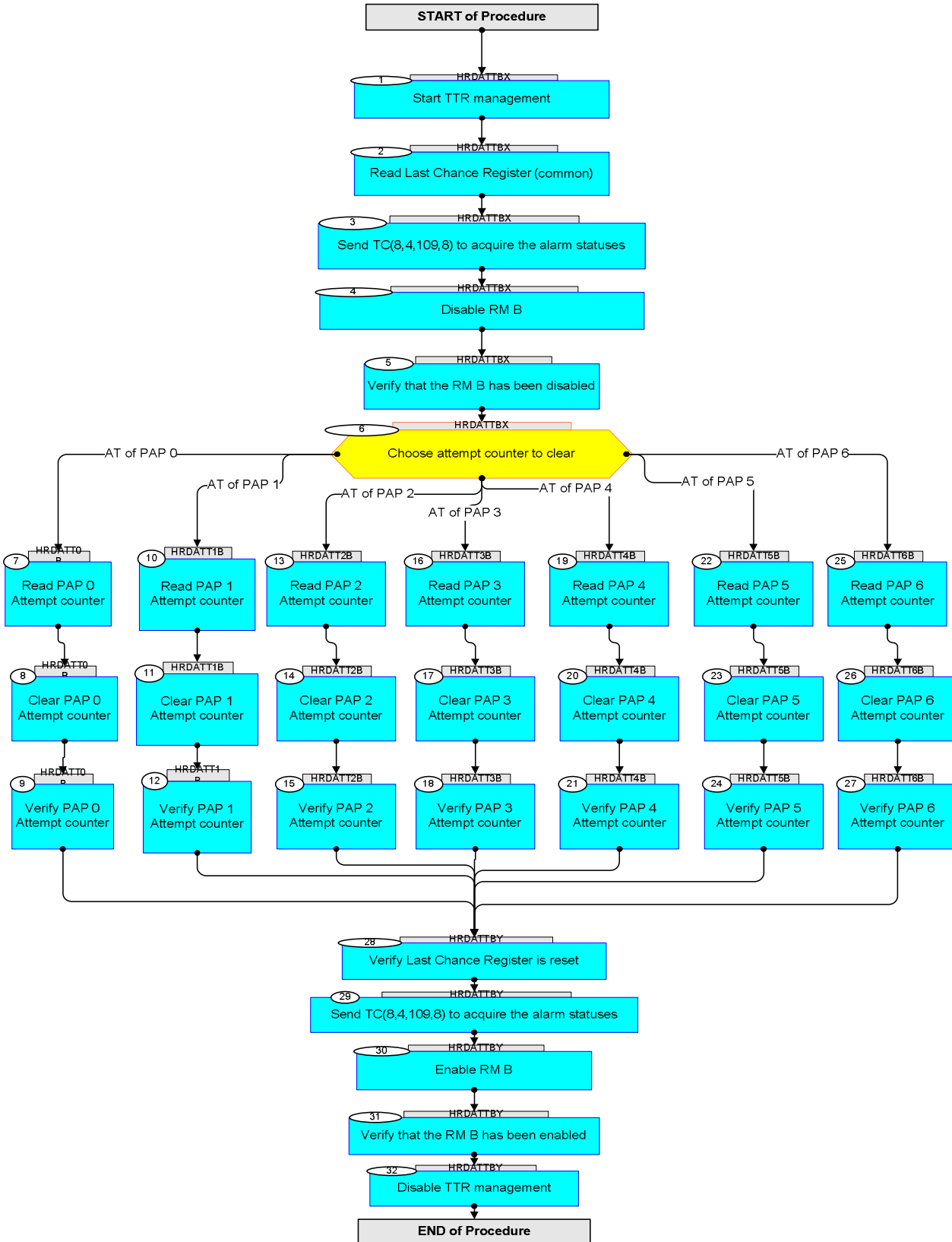
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
01/02/09		1	Created	S. Manganelli	
01/02/09	2	2	Forced Manual Dispatch	S. Manganelli	
09/02/09	2.1	3	Comment updated at step 29.	cmevi-hp	
20/03/09	2.2	4	DB change due to OBSW 3_8_2	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>					
HRDATTBX TC Seq. Name :HRDATTBX ( Strt att cnt res RMB ) TimeTag Type: N Sub Schedule ID: □					
1		Start TTR management		Next Step: 2	
		Verify Telemetry <b>TtrSts DEL17170</b>	<b>= Stopped</b>	AND=ZAZ7R999	
		Execute Telecommand <b>StartTtrManag</b>  TC Control Flags : <b>GBM IL DSE</b> <b>--Y -- ---</b> Subsch. ID : 10 Det. descr. : Start Ttr Management TC(8,1,109)	<b>DCN06170</b>	TC	
		Verify Telemetry <b>TtrSts DEL17170</b>	<b>= Running</b>	AND=ZAZ7R999	
		All operations in this procedure can be followed using AND ZAZ7R999			
2		Read Last Chance Register (common)		Next Step: 3	
		Execute Telecommand <b>ReadCromeReg</b>  Command Parameter(s) : <b>CromeId DH096170</b> <b>CromeAddr DH102170</b> TC Control Flags : <b>GBM IL DSE</b> <b>--Y -- ---</b> Subsch. ID : 10 Det. descr. : TEMPLATE Read CROME Register TC(8,4,109,17)	<b>DCT64170</b>	TC	
		Record in the logbook the register value for future reference. The register will be automatically cleared by following steps.			
		Verify Packet Reception  TM 8-6-109-17 TTR Management - Crome Register Report Packet Mnemonic : CromeRegRpt APID : 16 Type : 8 Subtype : 6 PI1 : 27921 PI2 : 0			
		<b>DE285170</b> <b>CromeId</b>	<b>Crome_B</b>	AND=ZAZ7R999 PKT=CromeRegRpt	
		<b>DE329170</b> <b>CromeAddr</b>	<b>07005A40 &lt;hex&gt;</b>	(None) PKT=CromeRegRpt	
		<b>DE367170</b> <b>CromeData</b>	<b>note down</b>	(None) PKT=CromeRegRpt	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
3		Send TC(8,4,109,8) to acquire the alarm statuses		Next Step: 4	
		Execute Telecommand  <div style="text-align: center;">ReadAlarmSts</div> Command Parameter(s) : <div style="text-align: center;">RmId                 DH093170</div> TC Control Flags : <div style="text-align: center;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : TEMPLATE Read Alarm Status TC(8,4,109,8)	DCT62170	TC	
		The alarm statuses in AND ZAZ7R999 should be inspected and understood before disabling the RM. If needed, refer to H_CRP_DHS_3011			
4		Disable RM B		Next Step: 5	
		Verify Telemetry <div style="text-align: center;">RMA_fromTTR-RMA                 DEEXG160</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: center;">RMA_fromTTR-RMB                 DEEXH160</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: center;">RMB_fromTTR-RMA                 DEEXJ160</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: center;">RMB_fromTTR-RMB                 DEEXK160</div>		AND=ZAZAA999	
		Execute Telecommand  <div style="text-align: center;">RM_B_Disable</div> TC Control Flags : <div style="text-align: center;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : RM B Disable - High Priority Standard	DCA12170	TC	
5		Verify that the RM B has been disabled		Next Step: 6	
		Verify Telemetry <div style="text-align: center;">RMB_fromTTR-RMA                 DEEXJ160</div>	= DISABLED	AND=ZAZAA999	
		Verify Telemetry <div style="text-align: center;">RMB_fromTTR-RMB                 DEEXK160</div>	= DISABLED	AND=ZAZAA999	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment	
6		Choose attempt counter to clear type: [Switch]		Next Step: AT of PAP 0 7 AT of PAP 1 10 AT of PAP 2 13 AT of PAP 3 16 AT of PAP 4 19 AT of PAP 5 22 AT of PAP 6 25		
End of Sequence						
HRDATT0B TC Seq. Name :HRDATT0B ( Reset att cnt 0 RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>						
7		Read PAP 0 Attempt counter		Next Step: 8		
	ET= UT=	RMH Attempt Count Reg N=0 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC		
8		Clear PAP 0 Attempt counter		Next Step: 9		
		Execute Telecommand <b>SetPapAttCntr</b>  Command Parameter(s) : RmId                  DH093170 PapNr                  DH094170 PapAttCnt              DH095170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC		
		This TC resets as well the last chance register				
9		Verify PAP 0 Attempt counter		Next Step: 28		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=0 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
End of Sequence					
HRDATT1B TC Seq. Name :HRDATT1B ( Reset att cnt 1 RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
10		Read PAP 1 Attempt counter		Next Step: 11	
	ET= UT=	RMH Attempt Count Reg N=1 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
11		Clear PAP 1 Attempt counter		Next Step: 12	
		Execute Telecommand <b>SetPapAttCntr</b>  Command Parameter(s) : RmId            DH093170 PapNr           DH094170 PapAttCnt       DH095170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC	
This TC resets as well the last chance register					
12		Verify PAP 1 Attempt counter		Next Step: 28	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=1 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
End of Sequence					
HRDATT2B TC Seq. Name :HRDATT2B ( Reset att cnt 2 RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
13		Read PAP 2 Attempt counter		Next Step: 14	
	ET= UT=	RMH Attempt Count Reg N=2 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
14		Clear PAP 2 Attempt counter		Next Step: 15	
		Execute Telecommand <b>SetPapAttCntr</b>  Command Parameter(s) : RmId                DH093170 PapNr               DH094170 PapAttCnt          DH095170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC	
This TC resets as well the last chance register					
15		Verify PAP 2 Attempt counter		Next Step: 28	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=2 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
End of Sequence					
HRDATT3B TC Seq. Name :HRDATT3B ( Reset att cnt 3 RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
16		Read PAP 3 Attempt counter		Next Step: 17	
	ET= UT=	RMH Attempt Count Reg N=3 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
17		Clear PAP 3 Attempt counter		Next Step: 18	
		Execute Telecommand <b>SetPapAttCntr</b>  Command Parameter(s) : RmId                DH093170 PapNr               DH094170 PapAttCnt          DH095170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC	
This TC resets as well the last chance register					
18		Verify PAP 3 Attempt counter		Next Step: 28	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=3 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
End of Sequence					
HRDATT4B TC Seq. Name :HRDATT4B ( Reset att cnt 4 RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
19		Read PAP 4 Attempt counter		Next Step: 20	
		RMH Attempt Count Reg N=4 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
20		Clear PAP 4 Attempt counter		Next Step: 21	
		Execute Telecommand <b>SetPapAttCntr</b>  Command Parameter(s) : RmId                DH093170 PapNr               DH094170 PapAttCnt          DH095170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC	
This TC resets as well the last chance register					
21		Verify PAP 4 Attempt counter		Next Step: 28	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		RMH Attempt Count Reg N=4 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b> 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)	DCT64170	TC	
End of Sequence					
HRDATT5B TC Seq. Name :HRDATT5B ( Reset att cnt 5 RMB ) TimeTag Type: N Sub Schedule ID: □					
22		Read PAP 5 Attempt counter		Next Step: 23	
	ET= UT=	RMH Attempt Count Reg N=5 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b> 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)	DCT64170	TC	
23		Clear PAP 5 Attempt counter		Next Step: 24	
		Execute Telecommand <b>SetPapAttCntr</b> Command Parameter(s) : RmId            DH093170 PapNr           DH094170 PapAttCnt       DH095170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC	
This TC resets as well the last chance register					
24		Verify PAP 5 Attempt counter		Next Step: 28	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=5 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
End of Sequence					
HRDATT6B TC Seq. Name :HRDATT6B ( Reset att cnt 6 RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
25		Read PAP 6 Attempt counter		Next Step: 26	
	ET= UT=	RMH Attempt Count Reg N=6 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170	TC	
26		Clear PAP 6 Attempt counter		Next Step: 27	
		Execute Telecommand <b>SetPapAttCntr</b>  Command Parameter(s) : RmId                DH093170 PapNr               DH094170 PapAttCnt          DH095170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE Set PAP Attempt Counter TC(8,4,109,2)	DCT56170	TC	
This TC resets as well the last chance register					
27		Verify PAP 6 Attempt counter		Next Step: 28	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=6 [RMH_ATCNTN] Crome B <b>ReadCromeReg</b>  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)	DCT64170  Crome_B 07005A98 <hex>	TC	
End of Sequence					
HRDATTBY TC Seq. Name :HRDATTBY ( End att cnt res RMB )  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
28		Verify Last Chance Register is reset		Next Step: 29	
		Execute Telecommand <b>ReadCromeReg</b>  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)	DCT64170  Crome_B 07005A40 <hex>	TC	
		Verify Packet Reception  TM 8-6-109-17 TTR Management - Crome Register Report Packet Mnemonic : CromeRegRpt APID : 16 Type : 8 Subtype : 6 PI1 : 27921 PI2 : 0			
		Verify Packet Telemetry CromeId           DE285170	= Crome_B	AND=ZAZ7R999	
		Verify Packet Telemetry CromeAddr        DE329170	= 07005A40 <hex>	(None)	
		Verify Packet Telemetry CromeData         DE367170	note down	(None)	
29		Send TC(8,4,109,8) to acquire the alarm statuses		Next Step: 30	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;"><b>ReadAlarmSts</b></p> <i>Command Parameter(s) :</i> <p style="text-align: right;"><b>RmId                    DH093170</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Read Alarm Status TC(8,4,109,8)</i>	<b>DCT62170</b>	TC	
		The alarm statuses in AND ZAZ7R999 should be inspected and understood before enabling the RM. <b>In particular, they should be the same received in step 3.</b> If needed, refer to H_CRP_DHS_3011			
30		Enable RM B		Next Step: 31	
		Execute Telecommand <p style="text-align: right;"><b>RM_B_enable</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : RM B enable - High Priority Standard</i>	<b>DCA15170</b>	TC	
31		Verify that the RM B has been enabled		Next Step: 32	
		Verify Telemetry <p style="text-align: right;"><b>RMB_fromTTR-RMA                    DEEXJ160</b></p> <p style="text-align: right;"><b>= ENABLED</b></p>		AND=ZAZAA999	
		Verify Telemetry <p style="text-align: right;"><b>RMB_fromTTR-RMB                    DEEXK160</b></p> <p style="text-align: right;"><b>= ENABLED</b></p>		AND=ZAZAA999	
32		Disable TTR management		Next Step: END	
		The TTR Management function should be stopped by default.			
		Verify Telemetry <p style="text-align: right;"><b>TtrSts                                    DEL17170</b></p> <p style="text-align: right;"><b>= Running</b></p>		AND=ZAZAI999	
		Execute Telecommand <p style="text-align: right;"><b>StopTtrManag</b></p> <i>TC Control Flags :</i> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- ---</b></p> <i>Subsch. ID : 10</i> <i>Det. descr. : Stop Ttr Management TC(8,2,109)</i>	<b>DCN07170</b>	TC	
		Verify Telemetry <p style="text-align: right;"><b>TtrSts                                    DEL17170</b></p> <p style="text-align: right;"><b>= Stopped</b></p>		AND=ZAZAI999	
End of Sequence					
<b>End of Procedure</b>					