

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli



Procedure Summary

Objectives

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

Summary of Constraints

The procedure must be performed under guidance of a SOE

Spacecraft Configuration

Start of Procedure

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

End of Procedure

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

Reference File(s)

Input Command Sequences

Output Command Sequences

HRDATTAX
 HRDATT0A
 HRDATT1A
 HRDATT2A
 HRDATT3A
 HRDATT4A
 HRDATT5A
 HRDATT6A
 HRDATTAY

Referenced Displays

ANDs	GRDs	SLDs
ZAZ7R999		(None)
ZAZAA999		
ZAZAI999		

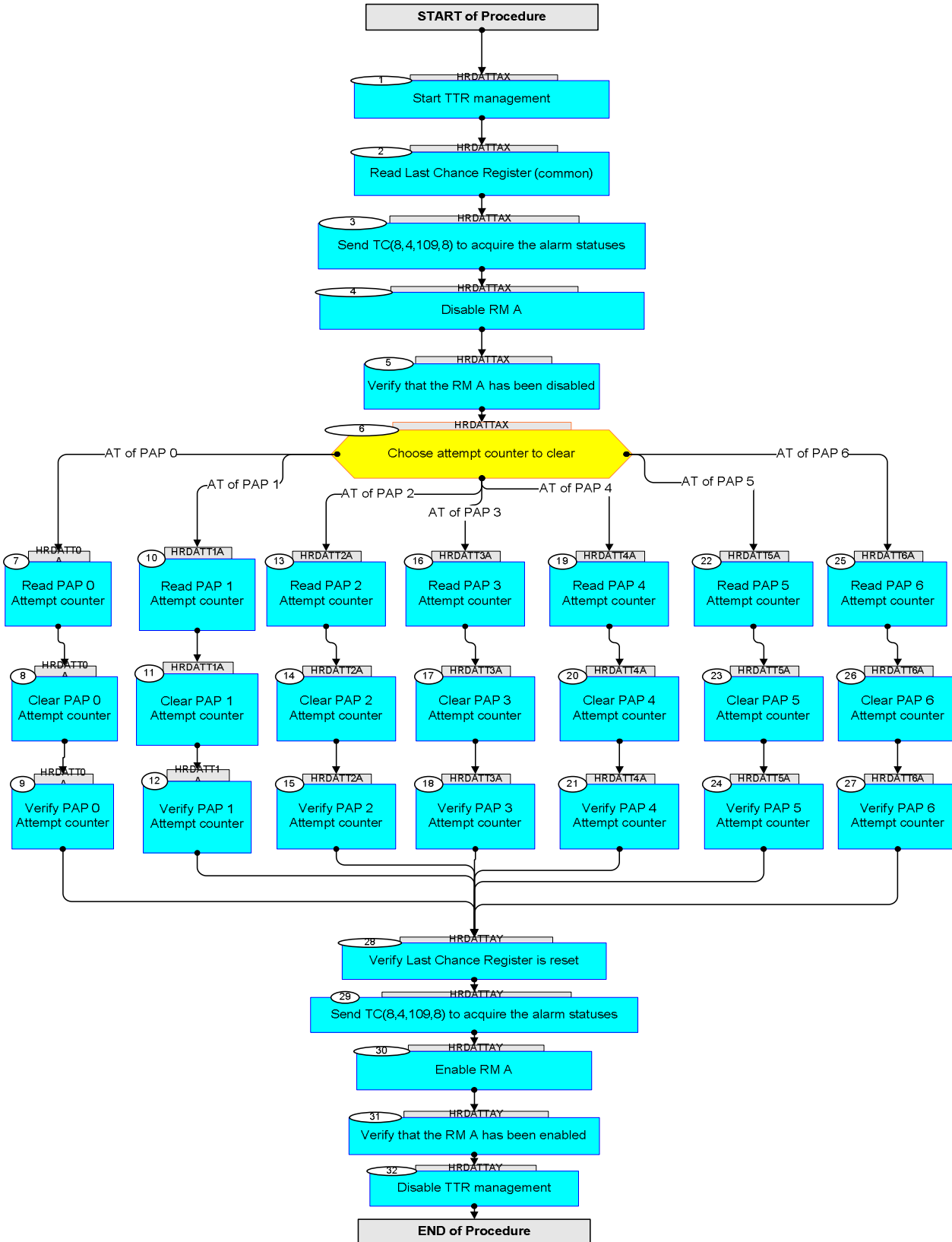
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
01/02/09		1	Created	S. Manganelli	
01/02/09		2	Changed TC(6,5) with TC(8,4,109,17)	S. Manganelli	
01/02/09	2	3	Manual dispatch forced	S. Manganelli	
09/02/09	2.1	4	Comment updated at step 29.	cmevi-hp	
20/03/09	2.2	5	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
Beginning of Procedure					
HRDATTAX TC Seq. Name :HRDATTAX (Strt att cnt res RMA) TimeTag Type: N Sub Schedule ID: □					
1		Start TTR management		Next Step: 2	
		Verify Telemetry TtrSts DEL17170	= Stopped	AND=ZAZ7R999	
		Execute Telecommand StartTtrManag TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Start Ttr Management TC(8,1,109)	DCN06170	TC	
		Verify Telemetry TtrSts DEL17170	= Running	AND=ZAZ7R999	
		All operations in this procedure can be followed using AND ZAZ7R999			
2		Read Last Chance Register (common)		Next Step: 3	
		Execute Telecommand ReadCromeReg 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	
		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			
		DE285170 CromeId	Crome_A	AND=ZAZ7R999 PKT=CromeRegRpt	
		DE329170 CromeAddr	07005A40 <hex>	(None) PKT=CromeRegRpt	
		DE367170 CromeData	note down	(None) PKT=CromeRegRpt	

Reset PAP attempt counters on RM A File: H_CRP_DHS_ATT_A.xls Author: S. Manganelli	
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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: right; margin-right: 100px;">ReadAlarmSts</div> Command Parameter(s) : <div style="text-align: right; margin-right: 100px;">RmId DH093170</div> TC Control Flags : <div style="text-align: right; margin-right: 100px;">GBM IL DSE</div> <div style="text-align: right; margin-right: 100px;">--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 A		Next Step: 5	
		Verify Telemetry <div style="text-align: right; margin-right: 100px;">RMA_fromTTR-RMA DEEXG160</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: right; margin-right: 100px;">RMA_fromTTR-RMB DEEXH160</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: right; margin-right: 100px;">RMB_fromTTR-RMA DEEXJ160</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: right; margin-right: 100px;">RMB_fromTTR-RMB DEEXK160</div>		AND=ZAZAA999	
		Execute Telecommand <div style="text-align: right; margin-right: 100px;">RM_A_Disable</div> TC Control Flags : <div style="text-align: right; margin-right: 100px;">GBM IL DSE</div> <div style="text-align: right; margin-right: 100px;">--Y -- ---</div> Subsch. ID : 10 Det. descr. : RM A Disable - High Priority Standard	DCA11170	TC	
5		Verify that the RM A has been disabled		Next Step: 6	
		Verify Telemetry <div style="text-align: right; margin-right: 100px;">RMA_fromTTR-RMA DEEXG160 = DISABLED</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: right; margin-right: 100px;">RMA_fromTTR-RMB DEEXH160 = DISABLED</div>		AND=ZAZAA999	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
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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						
HRDATTOA TC Seq. Name :HRDATTOA (Reset att cnt 0 RMA) 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 A ReadCromeReg 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 SetPapAttCntr 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		

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli




Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=0 [RMH_ATCNTN] Crome A ReadCromeReg 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					
HRDATT1A TC Seq. Name :HRDATT1A (Reset att cnt 1 RMA) 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 A ReadCromeReg 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 SetPapAttCntr 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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli




Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=1 [RMH_ATCNTN] Crome A ReadCromeReg 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					
HRDATT2A TC Seq. Name :HRDATT2A (Reset att cnt 2 RMA) 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 A ReadCromeReg 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 SetPapAttCntr 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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=2 [RMH_ATCNTN] Crome A ReadCromeReg 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					
HRDATT3A TC Seq. Name :HRDATT3A (Reset att cnt 3 RMA) 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 A ReadCromeReg 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 SetPapAttCntr 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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=3 [RMH_ATCNTN] Crome A ReadCromeReg 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					
HRDATT4A TC Seq. Name :HRDATT4A (Reset att cnt 4 RMA) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
19		Read PAP 4 Attempt counter		Next Step: 20	
	ET= UT=	RMH Attempt Count Reg N=4 [RMH_ATCNTN] Crome A ReadCromeReg 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 SetPapAttCntr 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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=4 [RMH_ATCNTN] Crome A ReadCromeReg 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					
HRDATT5A TC Seq. Name :HRDATT5A (Reset att cnt 5 RMA) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
22		Read PAP 5 Attempt counter		Next Step: 23	
	ET= UT=	RMH Attempt Count Reg N=5 [RMH_ATCNTN] Crome A ReadCromeReg 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 SetPapAttCntr 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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET= UT=	RMH Attempt Count Reg N=5 [RMH_ATCNTN] Crome A ReadCromeReg 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					
HRDATT6A TC Seq. Name :HRDATT6A (Reset att cnt 6 RMA) 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 A ReadCromeReg 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 SetPapAttCntr 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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
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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 A ReadCromeReg <i>Command Parameter(s) :</i> CromeId DH096170 CromeAddr DH102170 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Read CROME Register</i> <i>TC(8,4,109,17)</i>	DCT64170	TC	
End of Sequence					
HRDATTAY <i>TC Seq. Name :HRDATTAY (End att cnt res RMA)</i> <i>TimeTag Type:</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
28		Verify Last Chance Register is reset		Next Step: 29	
		Execute Telecommand ReadCromeReg <i>Command Parameter(s) :</i> CromeId DH096170 CromeAddr DH102170 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Read CROME Register</i> <i>TC(8,4,109,17)</i>	DCT64170	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_A	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	

Reset PAP attempt counters on RM A
 File: H_CRP_DHS_ATT_A.xls
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">ReadAlarmSts</p> <i>Command Parameter(s) :</i> <p style="text-align: right;">RmId DH093170</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : TEMPLATE Read Alarm Status TC(8,4,109,8)</i>	DCT62170 RM_A (Def)	TC	
		The alarm statuses in AND ZAZ7R999 should be inspected and understood before enabling the RM. In particular, they should be the same received in step 3. If needed, refer to H_CRP_DHS_3011			
30		Enable RM A		Next Step: 31	
		Execute Telecommand <p style="text-align: right;">RM_A_enable</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : RM A enable - High Priority Standard</i>	DCA14170	TC	
31		Verify that the RM A has been enabled		Next Step: 32	
		Verify Telemetry <p style="text-align: right;">RMA_fromTTR-RMA DEEXG160</p>	= ENABLED	AND=ZAZAA999	
		Verify Telemetry <p style="text-align: right;">RMA_fromTTR-RMB DEEXH160</p>	= ENABLED	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;">TtrSts DEL17170</p>	= Running	AND=ZAZAI999	
		Execute Telecommand <p style="text-align: right;">StopTtrManag</p> <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 10</i> <i>Det. descr. : Stop Ttr Management TC(8,2,109)</i>	DCN07170	TC	
		Verify Telemetry <p style="text-align: right;">TtrSts DEL17170</p>	= Stopped	AND=ZAZAI999	
End of Sequence					
End of Procedure					