

MM reset
File: H_CRP_DHS_3029.xls
Author: S. Manganelli



Procedure Summary

Objectives

This procedure describes the steps needed to reset the selected Mass Memory and to restore the same status as after a nominal initialization, that is with MM board ON, all 4 banks OFF and the default logical mapping for the 4 banks.

Summary of Constraints

When a MM ON command is sent to an already powered MM board, the MM board will be reset. All banks will be switched OFF and all data stored on the board is lost. But the bank power status stored within BSW is not updated.

This will result in one or several of the following events, informing on Spacewire error, ICB bus error or potentially other errors: TM(5,x,y), where y= 68..81, 84, 85, 88..91, 122..129, 148, 149.

The MM is initialised through TC(8,4,2,6); this TC will fail when there is an ongoing:

- TC(8,4,2,3) Check Mass Memory
- TC(8,4,2,4) Map Mass Memory
- TC(8,4,2,5) Turn Bank on/off
- TC(8,4,2,6) Initialise Mass Memory

Spacecraft Configuration

Start of Procedure

n/a

End of Procedure

MM A/B reset, MM A/B banks OFF

Reference File(s)

Input Command Sequences

Output Command Sequences

HRD3029A
HRD3029B

Referenced Displays

ANDs	GRDs	SLDs
ZAZAB999		(None)
ZAZAC999		
ZAZAD999		
ZAZAF999		

Configuration Control Information

Status : Version 4 - Unchanged
Last Checkin: 07/04/09

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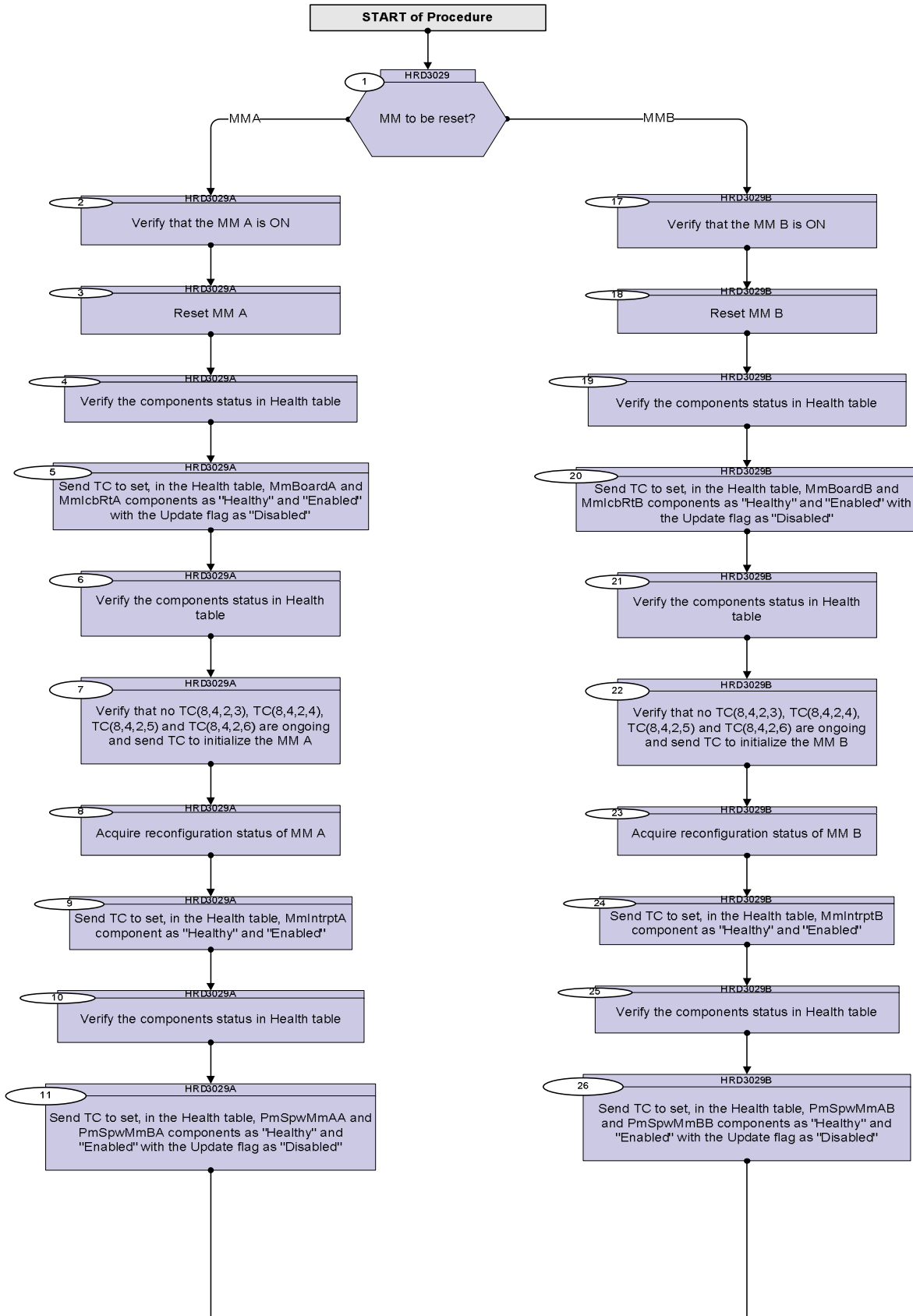


DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
15/11/08		1	Created	S. Manganelli	
11/01/09	2	2	Updated following OBSW 3_8	S. Manganelli	
21/03/09	2.2	3	Added last step of each sequence to map banks as per TAS-I inputs 3 march 09	S. Manganelli	
07/04/09	2.3	4	Inverted the order of last two steps for each procedure branch (following TASF comments)	S. Manganelli	

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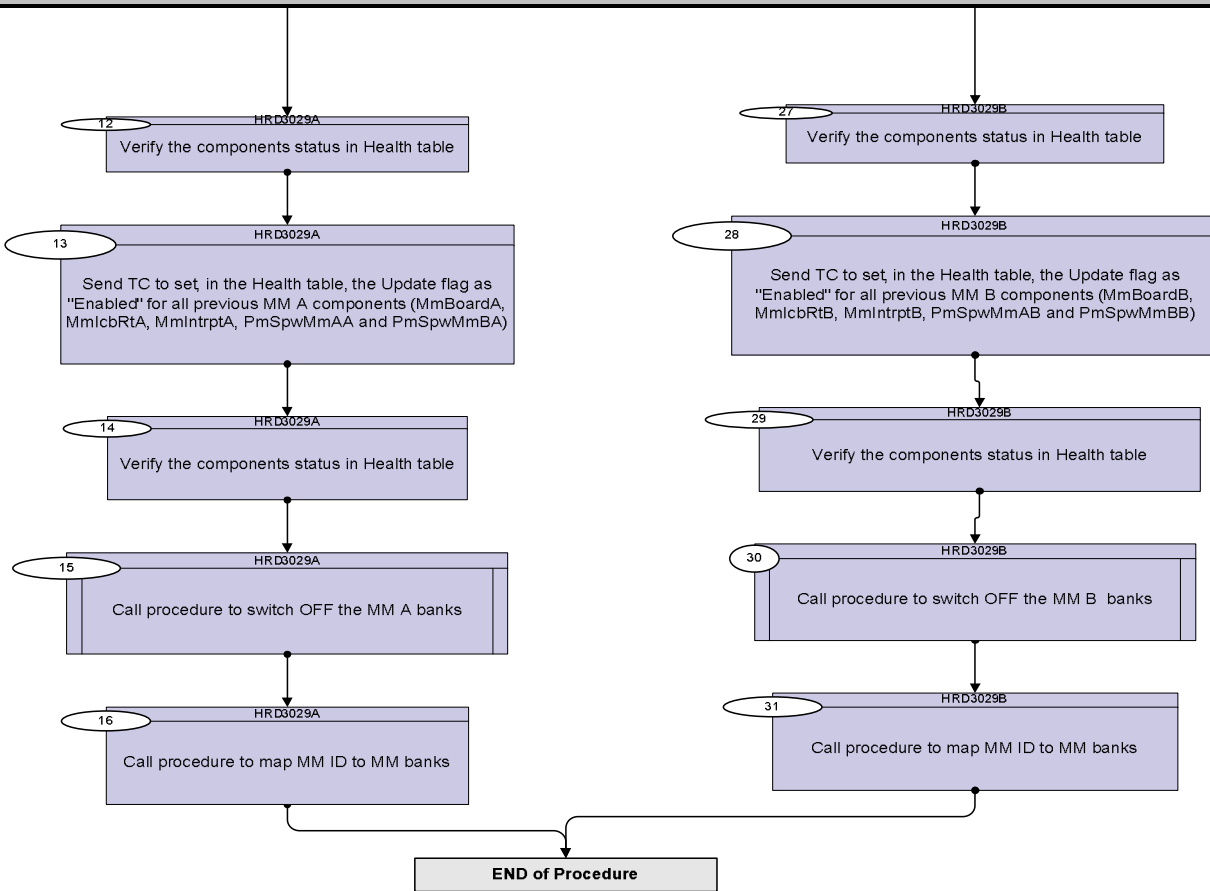
Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HRD3029 (Dummy sequence) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
1		MM to be reset?		Next Step: MMA 2 MMB 17
TC Seq. Name :HRD3029A (Reset SSMMA) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
2		Verify that the MM A is ON		Next Step: 3
		Verify Telemetry MMstsA_fromTTRA DEEDG160 = ON		AND=ZAZAB999
		Verify Telemetry MMstsA_fromTTRB DEEDH160 = ON		AND=ZAZAB999
3		Reset MM A		Next Step: 4
		If health update is enabled, after the reset command, one or several of the following health components will be labeled as unhealthy and/or disabled; - MM Board A - MM A ICB RT - MM A Interrupt - SPW Link PM A – MM A - SPW Link PM B – MM A Notice that for MM Interrupt, health update setting is ignored.		
		Execute Telecommand MM_A_on-MM_A_Reset TC Control Flags : GBM IL DSE ---Y --- Subsch. ID : 10 Det. descr. : MM A on / MM A Reset - High Priority Standard	DCA53170	
4		Verify the components status in Health table		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry MmBrdA_UpdateEn DEJM1160		AND=ZAZAC999
		Verify Telemetry MmBrdA_Enabled DEJM2160		AND=ZAZAC999
		Verify Telemetry MmBrdA_Healthy DEJM3160		AND=ZAZAC999
		Verify Telemetry MmIcbA_UpdateEn DEJN1160		AND=ZAZAC999
		Verify Telemetry MmIcbA_Enabled DEJN2160		AND=ZAZAC999
		Verify Telemetry MmIcbA_Healthy DEJN3160		AND=ZAZAC999
		Verify Telemetry MmIntA_UpdateEn DEJMG160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIntA_Enabled DEJMH160		AND=ZAZAC999
		Verify Telemetry MmIntA_Healthy DEJMZ160		AND=ZAZAC999
		Verify Telemetry PmSpwMmAA_UpdE DEJS1160		AND=ZAZAD999
		Verify Telemetry PmSpwMmAA_Enab DEJS2160		AND=ZAZAD999
		Verify Telemetry PmSpwMmAA_Hlth DEJS3160		AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_UpdE DEJSG160		AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_Enab DEJSH160		AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_Hlth DEJSZ160		AND=ZAZAD999
5		Send TC to set, in the Health table, MmBoardA and MmIcbRtA components as "Healthy" and "Enabled" with the Update flag as "Disabled"		Next Step: 6

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		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p>N: number of components for which the health tables shall be updated. In this case it has to be set to 2.</p> <p>Parameters repeated N times:</p> <p>COMP: component for which the Health table shall be updated. In this case the components to be modified are the following: - MmBoardA - MmIcbRtA</p> <p>Notice that the previous order must not be changed.</p>																																														
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		<p>Execute Telecommand</p> <p style="text-align: center;">UpdateHealthTable</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">N</td> <td style="width: 25%;">DH014160</td> <td style="width: 45%;">2 <dec></td> </tr> <tr> <td></td> <td>COMP</td> <td>DH100160</td> <td>MmBoardA</td> </tr> <tr> <td></td> <td>M0</td> <td>DH055160</td> <td>Update Status</td> </tr> <tr> <td></td> <td>M1</td> <td>DH056160</td> <td>Update Status</td> </tr> <tr> <td></td> <td>M2</td> <td>DH057160</td> <td>Update Status</td> </tr> <tr> <td></td> <td>F0</td> <td>DH015160</td> <td>Healthy</td> </tr> <tr> <td></td> <td>F1</td> <td>DH016160</td> <td>ENABLED</td> </tr> <tr> <td></td> <td>F2</td> <td>DH017160</td> <td>DISABLED</td> </tr> <tr> <td></td> <td>COMP</td> <td>DH100160</td> <td>MmIcbRtA</td> </tr> <tr> <td></td> <td>M0</td> <td>DH055160</td> <td>Update Status</td> </tr> <tr> <td></td> <td>M1</td> <td>DH056160</td> <td>Update Status</td> </tr> </table>		N	DH014160	2 <dec>		COMP	DH100160	MmBoardA		M0	DH055160	Update Status		M1	DH056160	Update Status		M2	DH057160	Update Status		F0	DH015160	Healthy		F1	DH016160	ENABLED		F2	DH017160	DISABLED		COMP	DH100160	MmIcbRtA		M0	DH055160	Update Status		M1	DH056160	Update Status	DC822160	
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		M2 DH057160 F0 DH015160 F1 DH016160 F2 DH017160 TC Control Flags : Subsch. ID : 10 Det. descr. : Update Health Table GBM IL DSE --Y -- ---	Update Status Healthy ENABLED DISABLED	
6		Verify the components status in Health table		Next Step: 7
		Verify Telemetry MmBrda_UpdateEn DEJM1160	= DISABLED	AND=ZAZAC999
		Verify Telemetry MmBrda_Enabled DEJM2160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmBrda_Healthy DEJM3160	= Healthy	AND=ZAZAC999
		Verify Telemetry MmIcba_UpdateEn DEJN1160	= DISABLED	AND=ZAZAC999
		Verify Telemetry MmIcba_Enabled DEJN2160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIcba_Healthy DEJN3160	= Healthy	
7		Verify that no TC(8,4,2,3), TC(8,4,2,4), TC(8,4,2,5) and TC(8,4,2,6) are ongoing and send TC to initialize the MM A		Next Step: 8
		Verify Telemetry TC_8-4-2-3_x DEE0J161	= FALSE	(None)
		Verify Telemetry TC_8-4-2-4_x DEE0K161	= FALSE	(None)
		Verify Telemetry TC_8-4-2-5_x DEE0L161	= FALSE	(None)
		Verify Telemetry TC_8-4-2-6_x DEE0M161	= FALSE	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">InitMassMemory</p> <i>Command Parameter(s) :</i> EQU DH025160 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 10</i> <i>Det. descr. : Initialize Mass Memory</i>	DC806160 MM A	
8		Acquire reconfiguration status of MM A		Next Step: 9
		<p>Note that the parameter can have the following values during the reconfiguration:</p> <ul style="list-style-type: none"> - 1 = Started - 2 = Init COCOS - 3 = Remap banks - 4 = Power switching - 5 = SDRAM init - 6 = Clear NUT area - 7 = Clear banks <p>When the reconfiguration is completed it should be set to 0, ie No Cfg Ongoing</p>		
		Verify Telemetry BSW_MM_A_CfgSts DEL2F160	= NoCfgOngoing	AND=ZAZAF999
9		Send TC to set, in the Health table, MmIntrptA component as "Healthy" and "Enabled"		Next Step: 10
		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p><u>N</u>: number of components for which the health tables shall be updated. In this case it has to be set to 1.</p> <p>Parameters repeated N times:</p> <p><u>COMP</u>: component for which the Health table shall be updated. In this case the component to be modified is MmIntrptA.</p>		

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		<p>Execute Telecommand</p> <p style="text-align: center;">UpdateHealthTable</p> <p>Command Parameter(s) :</p> <table style="margin-left: 40px;"> <tr><td>N</td><td>DH014160</td><td>1 <dec> (Def)</td></tr> <tr><td>COMP</td><td>DH100160</td><td>MMIntrptA</td></tr> <tr><td>M0</td><td>DH055160</td><td>Update Status</td></tr> <tr><td>M1</td><td>DH056160</td><td>Update Status</td></tr> <tr><td>M2</td><td>DH057160</td><td>Ignore Flag</td></tr> <tr><td>F0</td><td>DH015160</td><td>Healthy</td></tr> <tr><td>F1</td><td>DH016160</td><td>ENABLED</td></tr> <tr><td>F2</td><td>DH017160</td><td>ENABLED</td></tr> </table> <p>TC Control Flags :</p> <p style="margin-left: 100px;">GBM IL DSE</p> <p style="margin-left: 100px;">--Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : Update Health Table</p>	N	DH014160	1 <dec> (Def)	COMP	DH100160	MMIntrptA	M0	DH055160	Update Status	M1	DH056160	Update Status	M2	DH057160	Ignore Flag	F0	DH015160	Healthy	F1	DH016160	ENABLED	F2	DH017160	ENABLED	DC822160	
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10		Verify the components status in Health table		Next Step: 11																								
		Verify Telemetry MmIntA_UpdateEn DEJMG160 = ENABLED		AND=ZAZAC999																								
		Verify Telemetry MmIntA_Enabled DEJMH160 = ENABLED		AND=ZAZAC999																								
		Verify Telemetry MmIntA_Healthy DEJMZ160 = Healthy		AND=ZAZAC999																								

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11		Send TC to set, in the Health table, PmSpwMmAA and PmSpwMmBA components as "Healthy" and "Enabled" with the Update flag as "Disabled"		Next Step: 12																																												
		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p>N: number of components for which the health tables shall be updated. In this case it has to be set to 2.</p> <p>Parameters repeated N times:</p> <p>COMP: component for which the Health table shall be updated. In this case the components to be modified are the following: - PmSpwMmAA - PmSpwMmBA</p>																																														
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12		Verify the components status in Health table		Next Step: 13
		Verify Telemetry PmSpwMmAA_UpdE DEJS1160	= DISABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAA_Enab DEJS2160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAA_Hlth DEJS3160	= Healthy	AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_UpdE DEJSG160	= DISABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_Enab DEJSH160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_Hlth DEJSZ160	= Healthy	AND=ZAZAD999
13		Send TC to set, in the Health table, the Update flag as "Enabled" for all previous MM A components (MmBoardA, MmIcbRtA, MmIntrptA, PmSpwMmAA and PmSpwMmBA)		Next Step: 14
		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p>N: number of components for which the health tables shall be updated. In this case it has to be set to 5.</p> <p>Parameters repeated N times:</p> <p>COMP: component for which the Health table shall be updated. In this case the components to be modified are the following:</p> <ul style="list-style-type: none"> - MmBoardA - MmIcbRtA - MmIntrptA - PmSpwMmAA - PmSpwMmBA <p>Notice that the previous order must not be changed.</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		F0 DH015160 F1 DH016160 F2 DH017160 COMP DH100160 M0 DH055160 M1 DH056160 M2 DH057160 F0 DH015160 F1 DH016160 F2 DH017160	Healthy ENABLED ENABLED PmSpwMmBA Ignore Flag Ignore Flag Update Status Healthy ENABLED ENABLED	
		TC Control Flags : Subsch. ID : 10 Det. descr. : Update Health Table	GBM IL DSE --Y -- ---	
14		Verify the components status in Health table		Next Step: 15
		Verify Telemetry MmBrdA_UpdateEn DEJM1160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmBrdA_Enabled DEJM2160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmBrdA_Healthy DEJM3160	= Healthy	AND=ZAZAC999
		Verify Telemetry MmIcba_UpdateEn DEJN1160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIcba_Enabled DEJN2160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIcba_Healthy DEJN3160	= Healthy	AND=ZAZAC999
		Verify Telemetry MmIntA_UpdateEn DEJMG160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIntA_Enabled DEJMH160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIntA_Healthy DEJMZ160	= Healthy	AND=ZAZAC999
		Verify Telemetry PmSpwMmAA_UpdE DEJS1160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAA_Enab DEJS2160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAA_Hlth DEJS3160	= Healthy	AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_UpdE DEJSG160	= ENABLED	AND=ZAZAD999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry PmSpwMmBA_Enab DEJSH160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmBA_Hlth DEJSZ160	= Healthy	AND=ZAZAD999
15		<i>Call procedure to switch OFF the MM A banks</i>		Next Step: 16
		Execute Procedure: H_FCP_DHS_3017 Switching a MM bank ON or OFF Parameters: MM EQU 0<dec> BANK BNK 0<dec> MM EQU 0<dec> BANK BNK 0<dec>		
16		<i>Call procedure to map MM ID to MM banks</i>		Next Step: END
		Execute Procedure: H_FCP_DHS_3016 Map a MM ID to a MM bank Parameters: MM EQU 0<dec> POS0 BNK0 0<dec> POS1 BNK1 1<dec> POS2 BNK2 2<dec> POS3 BNK3 3<dec>		
TC Seq. Name :HRD3029B (Reset SSMMB)				
TimeTag Type: Sub Schedule ID: □				
17		<i>Verify that the MM B is ON</i>		Next Step: 18
		Verify Telemetry MMstsB_fromTTRA DEEDZ160	= ON	AND=ZAZAB999
		Verify Telemetry MMstsB_fromTTRB DEEDJ160	= ON	AND=ZAZAB999
18		<i>Reset MM B</i>		Next Step: 19

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>If health update is enabled, after the reset command, one or several of the following health components will be labeled as unhealthy and/or disabled;</p> <ul style="list-style-type: none"> - MM Board B - MM B ICB RT - MM B Interrupt - SPW Link PM A – MM B - SPW Link PM B – MM B <p>Notice that for MM Interrupt, health update setting is ignored.</p>		
		<p>Execute Telecommand</p> <p style="text-align: right;">MM_B_on-MM_B_Reset</p> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10 Det. descr. : MM B on / MM B Reset - High Priority Standard</p>	DCA69170	
19		Verify the components status in Health table		Next Step: 20
		Verify Telemetry MmBrdB_UpdateEn DEJM4160		AND=ZAZAC999
		Verify Telemetry MmBrdB_Enabled DEJM5160		AND=ZAZAC999
		Verify Telemetry MmBrdB_Healthy DEJM6160		AND=ZAZAC999
		Verify Telemetry MmIcbB_UpdateEn DEJN4160		AND=ZAZAC999
		Verify Telemetry MmIcbB_Enabled DEJN5160		AND=ZAZAC999
		Verify Telemetry MmIcbB_Healthy DEJN6160		AND=ZAZAC999
		Verify Telemetry MmIntB_UpdateEn DEJMJ160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIntB_Enabled DEJMK160		AND=ZAZAC999
		Verify Telemetry MmIntB_Healthy DEJML160		AND=ZAZAC999
		Verify Telemetry PmSpwMmAB_UpdE DEJS4160		AND=ZAZAD999
		Verify Telemetry PmSpwMmAB_Enab DEJS5160		AND=ZAZAD999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry PmSpwMmAB_Hlth DEJS6160		AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_UpdE DEJSJ160		AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_Enab DEJSK160		AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_Hlth DEJSL160		AND=ZAZAD999
20		Send TC to set, in the Health table, MmBoardB and MmIcbRtB components as "Healthy" and "Enabled" with the Update flag as "Disabled"		Next Step: 21
		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p>N: number of components for which the health tables shall be updated. In this case it has to be set to 2.</p> <p>Parameters repeated N times:</p> <p>COMP: component for which the Health table shall be updated. In this case the components to be modified are the following: - MmBoardB - MmIcbRtB</p> <p>Notice that the previous order must not be changed.</p>		
		<p>Mask for "Component Health" flag: 0=Ignore Flag; 1=Update the status.</p> <p>Mask for "Component enable/disable status" flag: 0=Ignore Flag; 1=Update the status.</p> <p>Mask for "Health and Status Update" flag: 0=Ignore Flag; 1=Update the status.</p> <p>In this case, these 3 flags have to be set to 1</p>		
		<p>Component Health: 0=Unhealthy; 1=Healthy. In this case, it has to be set to 1</p> <p>Component enable/disable status: 0=Disabled; 1=Enabled. In this case, it has to be set to 1</p> <p>Health and Status Update: 0=Disabled; 1=Enabled. In this case, it has to be set to 0</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand UpdateHealthTable Command Parameter(s) : N DH014160 COMP DH100160 M0 DH055160 M1 DH056160 M2 DH057160 F0 DH015160 F1 DH016160 F2 DH017160 COMP DH100160 M0 DH055160 M1 DH056160 M2 DH057160 F0 DH015160 F1 DH016160 F2 DH017160 TC Control Flags : Subsch. ID : 10 Det. descr. : Update Health Table GBM IL DSE --Y -- --	DC822160 2 <dec> MMBoardB Update Status Update Status Update Status Healthy ENABLED DISABLED MMIcbRtB Update Status Update Status Update Status Healthy ENABLED DISABLED	
21		Verify the components status in Health table		Next Step: 22
		Verify Telemetry MmBrdB_UpdateEn DEJM4160	= DISABLED	AND=ZAZAC999
		Verify Telemetry MmBrdB_Enabled DEJM5160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmBrdB_Healthy DEJM6160	= Healthy	AND=ZAZAC999
		Verify Telemetry MmIcbB_UpdateEn DEJN4160	= DISABLED	AND=ZAZAC999
		Verify Telemetry MmIcbB_Enabled DEJN5160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIcbB_Healthy DEJN6160	= Healthy	AND=ZAZAC999
22		Verify that no TC(8,4,2,3), TC(8,4,2,4), TC(8,4,2,5) and TC(8,4,2,6) are ongoing and send TC to initialize the MM B		Next Step: 23
		Verify Telemetry TC_8-4-2-3_x DEE0J161	= FALSE	(None)
		Verify Telemetry TC_8-4-2-4_x DEE0K161	= FALSE	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TC_8-4-2-5_x DEE0L161	= FALSE	(None)
		Verify Telemetry TC_8-4-2-6_x DEE0M161	= FALSE	(None)
		Execute Telecommand InitMassMemory Command Parameter(s) : EQU DH025160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Initialize Mass Memory	DC806160 MM B	
23		Acquire reconfiguration status of MM B		Next Step: 24
		Note that the parameter can have the following values during the reconfiguration: - 1 = Started - 2 = Init COCOS - 3 = Remap banks - 4 = Power switching - 5 = SDRAM init - 6 = Clear NUT area - 7 = Clear banks When the reconfiguration is completed it should be set to 0, ie No Cfg Ongoing		
		Verify Telemetry BSW_MM_B_CfgSts DEL30160	= NoCfgOngoing	AND=ZAZAF999
24		Send TC to set, in the Health table, MmIntrptB component as "Healthy" and "Enabled"		Next Step: 25
		In the TC(8,4,10,3) it is necessary to set the following parameters: <u>N</u> : number of components for which the health tables shall be updated. In this case it has to be set to 1. Parameters repeated N times: <u>COMP</u> : component for which the Health table shall be updated. In this case the component to be modified is MmIntrptA.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																																
		<p>Mask for "Component Health" flag: 0=Ignore Flag; 1=Update the status. In this case, it has to be set to 1</p> <p>Mask for "Component enable/disable status" flag: 0=Ignore Flag; 1=Update the status. In this case, it has to be set to 1</p> <p>Mask for "Health and Status Update" flag: 0=Ignore Flag; 1=Update the status. "Don't care" in this case</p>																																		
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25		Verify the components status in Health table		Next Step: 26																																
		Verify Telemetry MmIntB_UpdateEn	DEJMJ160	= ENABLED AND=ZAZAC999																																
		Verify Telemetry MmIntB_Enabled	DEJMK160	= ENABLED AND=ZAZAC999																																
		Verify Telemetry MmIntB_Healthy	DEJML160	= Healthy AND=ZAZAC999																																

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																																												
26		Send TC to set, in the Health table, PmSpwMmAB and PmSpwMmBB components as "Healthy" and "Enabled" with the Update flag as "Disabled"		Next Step: 27																																												
		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p>N: number of components for which the health tables shall be updated. In this case it has to be set to 2.</p> <p>Parameters repeated N times:</p> <p>COMP: component for which the Health table shall be updated. In this case the components to be modified are the following: - PmSpwMmAB - PmSpwMmBB</p>																																														
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		M2 DH057160 F0 DH015160 F1 DH016160 F2 DH017160 TC Control Flags : Subsch. ID : 10 Det. descr. : Update Health Table GBM IL DSE --Y -- ---	Update Status Healthy ENABLED DISABLED	
27		Verify the components status in Health table		Next Step: 28
		Verify Telemetry PmSpwMmAB_UpdE DEJS4160	= DISABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAB_Enab DEJS5160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAB_Hlth DEJS6160	= Healthy	AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_UpdE DEJSJ160	= DISABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_Enab DEJSK160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_Hlth DEJSL160	= Healthy	AND=ZAZAD999
28		Send TC to set, in the Health table, the Update flag as "Enabled" for all previous MM B components (MmBoardB, MmIcbRtB, MmIntrptB, PmSpwMmAB and PmSpwMmBB)		Next Step: 29
		<p>In the TC(8,4,10,3) it is necessary to set the following parameters:</p> <p>N: number of components for which the health tables shall be updated. In this case it has to be set to 5.</p> <p>Parameters repeated N times:</p> <p>COMP: component for which the Health table shall be updated. In this case the components to be modified are the following:</p> <ul style="list-style-type: none"> - MmBoardB - MmIcbRtB - MmIntrptB - PmSpwMmAB - PmSpwMmBB <p>Notice that the previous order must not be changed.</p>		

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		<p>Mask for "Component Health" flag: 0=Ignore Flag; 1=Update the status. In this case, it has to be set to 0</p> <p>Mask for "Component enable/disable status" flag: 0=Ignore Flag; 1=Update the status. In this case, it has to be set to 0</p> <p>Mask for "Health and Status Update" flag: 0=Ignore Flag; 1=Update the status. In this case, it has to be set to 1</p>																																																																																
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M1	DH056160	Ignore Flag																																																																																
M2	DH057160	Update Status																																																																																
F0	DH015160	Healthy																																																																																
F1	DH016160	ENABLED																																																																																
F2	DH017160	ENABLED																																																																																
COMP	DH100160	MMIntrptB																																																																																
M0	DH055160	Ignore Flag																																																																																
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F2	DH017160	ENABLED																																																																																
COMP	DH100160	PmSpwMmAB																																																																																
M0	DH055160	Ignore Flag																																																																																
M1	DH056160	Ignore Flag																																																																																
M2	DH057160	Update Status																																																																																

MM reset
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		F0 DH015160 F1 DH016160 F2 DH017160 COMP DH100160 M0 DH055160 M1 DH056160 M2 DH057160 F0 DH015160 F1 DH016160 F2 DH017160	Healthy ENABLED ENABLED PmSpwMmBB Ignore Flag Ignore Flag Update Status Healthy ENABLED ENABLED	
		TC Control Flags : Subsch. ID : 10 Det. descr. : Update Health Table	GBM IL DSE --Y -- ---	
29		Verify the components status in Health table		Next Step: 30
		Verify Telemetry MmBrdB_UpdateEn DEJM4160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmBrdB_Enabled DEJM5160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmBrdB_Healthy DEJM6160	= Healthy	AND=ZAZAC999
		Verify Telemetry MmIcbB_UpdateEn DEJN4160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIcbB_Enabled DEJN5160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIcbB_Healthy DEJN6160	= Healthy	AND=ZAZAC999
		Verify Telemetry MmIntB_UpdateEn DEJMJ160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIntB_Enabled DEJMK160	= ENABLED	AND=ZAZAC999
		Verify Telemetry MmIntB_Healthy DEJML160	= Healthy	AND=ZAZAC999
		Verify Telemetry PmSpwMmAB_UpdE DEJS4160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAB_Enab DEJS5160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmAB_Hlth DEJS6160	= Healthy	AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_UpdE DEJSJ160	= ENABLED	AND=ZAZAD999

MM reset
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry PmSpwMmBB_Enab DEJSK160	= ENABLED	AND=ZAZAD999
		Verify Telemetry PmSpwMmBB_Hlth DEJSL160	= Healthy	AND=ZAZAD999
30		Call procedure to switch OFF the MM B banks		Next Step: 31
		Execute Procedure: H_FCP_DHS_3017 Switching a MM bank ON or OFF Parameters: MM EQU 0<dec> BANK BNK 0<dec> MM EQU 0<dec> BANK BNK 0<dec>		
31		Call procedure to map MM ID to MM banks		Next Step: END
		Execute Procedure: H_FCP_DHS_3016 Map a MM ID to a MM bank Parameters: MM EQU 0<dec> POS0 BNK0 0<dec> POS1 BNK1 1<dec> POS2 BNK2 2<dec> POS3 BNK3 3<dec>		
End of Procedure				