

Dumping BSW TM routing Info array
 File: H_FCP_DHS_1027.xls
 Author: S. Manganelli



Procedure Summary

Objectives

To dump the TM Route info area of the BSW from SSMM A or B or the active PM RAM. Only this last method (dump from PM RAM at step 6) should be used since the SSMM areas are not necessarily up to date with the latest configuration.

Summary of Constraints

none

Spacecraft Configuration

Start of Procedure

Any

End of Procedure

Unchanged

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD1027A
 HFD1027B
 HFD1027C

Referenced Displays

ANDs GRDs SLDs

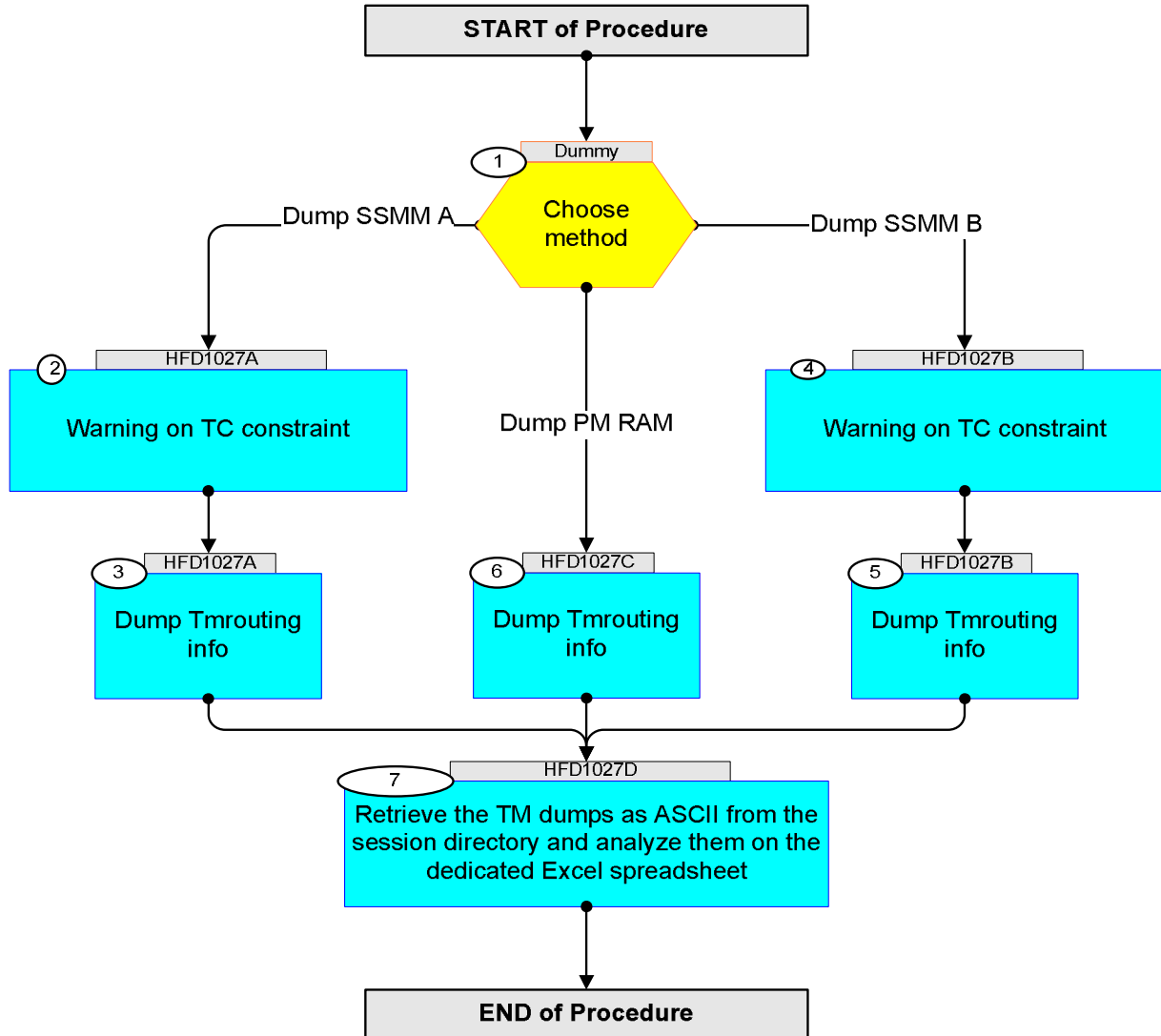
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/10/2008	2	1	Created	S. Manganelli	
17/02/2009	2.1	2	Automatic uplink offset times, comments modified, manual flag removed	S. Manganelli	
23/03/2009	2.2	3	Title changed, inserted method to dump the area from PM RAM rather than one of the SSMM.	S. Manganelli	
13/10/2010	3.1	4	Modified step 6 to optimize the decommutation of the matrix raw data.	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																	
		TC Seq. Name :Dummy () Dummy TimeTag Type: Sub Schedule ID: <input type="checkbox"/>															
1		Choose method type: [Switch]		Next Step: Dump SSMM B 4 Dump SSMM A 2 Dump PM RAM 6													
End of Sequence																	
	HFD1027A	TC Seq. Name :HFD1027A (Dump SSMMA TMroutingf) Dump SSMM BSW TM Routing Info array TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>															
2		Warning on TC constraint		Next Step: 3													
		Verify that none of the TCs listed below is executing during the whole procedure, in order to avoid TC failures or unneeded delays in execution TC(8,4,1,1) Copy Memory TC(8,4,2,1) Load Mass Memory 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															
2.1		Each of the following TCs will generate a packet Mass Memory Dump with SPID "40813160". Perform a raw print-to-file of each of the seven TM packets as "BSW_rout_SSMMA_1A" to "BSW_rout_SSMMA_7A"															
3		Dump Tmrouting info		Next Step: 7													
		Execute Telecommand <div style="text-align: right; margin-right: 100px;">DumpMassMem</div> Command Parameter(s) : <table style="margin-left: 100px; border: none;"> <tr> <td style="padding-right: 20px;">SRC</td> <td style="padding-right: 20px;">DH023160</td> <td>000100026400 <hex></td> </tr> <tr> <td>LEN</td> <td>DH006160</td> <td>3E2 <hex></td> </tr> </table> TC Control Flags : <table style="margin-left: 100px; border: none;"> <tr> <td style="padding-right: 20px;">GBM</td> <td style="padding-right: 20px;">IL</td> <td style="padding-right: 20px;">DSE</td> </tr> <tr> <td>--Y</td> <td>--</td> <td>---</td> </tr> </table> Subsch. ID : 10 Det. descr. : Dump Mass Memory	SRC	DH023160	000100026400 <hex>	LEN	DH006160	3E2 <hex>	GBM	IL	DSE	--Y	--	---	DC802160	TC	
SRC	DH023160	000100026400 <hex>															
LEN	DH006160	3E2 <hex>															
GBM	IL	DSE															
--Y	--	---															

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
3.1		Dump Tmrouting info segment 2			
	ET+= UT+=00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
3.2		Dump Tmrouting info segment 3			
	ET+= UT+=00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
3.3		Dump Tmrouting info segment 4			
	ET+= UT+=00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
3.4		Dump Tmrouting info segment 5			
	ET+= UT+=00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
3.5		Dump Tmrouting info segment 6			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
3.6		Dump Tmrouting info segment 7			
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
End of Sequence					
TC Seq. Name :HFD1027B (Dump SSMB TMroutinf) Dump SSMM BSW TM Routing Info array TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
4		Warning on TC constraint		Next Step: 5	
Verify that none of the TCs listed below is executing during the whole procedure, in order to avoid TC failures or unneeded delays in execution					
TC(8,4,1,1) Copy Memory TC(8,4,2,1) Load Mass Memory 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					
4.1		Each of the following TCs will generate a packet Mass Memory Dump with SPID "40813160". Perform a raw print-to-file of each of the seven TM packets as "BSW_rout_SSMMA_1B" to "BSW_rout_SSMMA_7B"			
5		Dump Tmrouting info		Next Step: 7	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
5.1		Dump Tmrouting info segment 2			
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
5.2		Dump Tmrouting info segment 3			
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
5.3		Dump Tmrouting info segment 4			
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
5.4		Dump Tmrouting info segment 5			

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
5.5		Dump Tmrouting info segment 6			
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
5.6		Dump Tmrouting info segment 7			
	ET=+ UT=+00.00.10	Execute Telecommand DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
End of Sequence					
TC Seq. Name : HFD1027C (Dump PM RAM TMroutinf) HFD1027C TimeTag Type: N Sub Schedule ID: □					
6		Dump Tmrouting info		Next Step: 7	
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand DumpMem_AbsAddr Command Parameter(s) : Memory_ID DH003180 Start_Address DH004180 N DH105180 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses	DC602180	TC	
		Each TC will generate one packet TM(6,6) . The raw data of each packet will be used offline for the decommutation of the Xmit / Storage matrix			
End of Sequence					
HFD1027D TC Seq. Name :HFD1027D (Dummy) TimeTag Type: Sub Schedule ID: □					
7		Retrieve the TM dumps as ASCII from the session directory and analyze them on the dedicated Excel spreadsheet		Next Step: END	
End of Sequence					
End of Procedure					