

Define the standard packet stores on SSMM A and B (4 banks)
 File: H_FCP_DHS_1005.xls
 Author: S. Manganelli



Procedure Summary

Objectives

To define the standard packet stores. This procedure is valid if the three packet stores on SSMM A and three on SSMM B are defined using all 4 memory banks on SSMM A and all 4 memory banks on SSMM B.

Summary of Constraints

SSMM banks ON and mapped

Spacecraft Configuration

Start of Procedure

SSMM A / B ON, banks 0/1/2/3 ON on both SSMM, no packet stores defined

End of Procedure

SSMM A / B ON, banks 0/1/2/3 ON on both SSMM, standard packet stores defined

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD1005A
 HFD1005B
 HFD1005C

Referenced Displays

ANDs	GRDs	SLDs
ZAZAB999		(None)
ZAD22999		

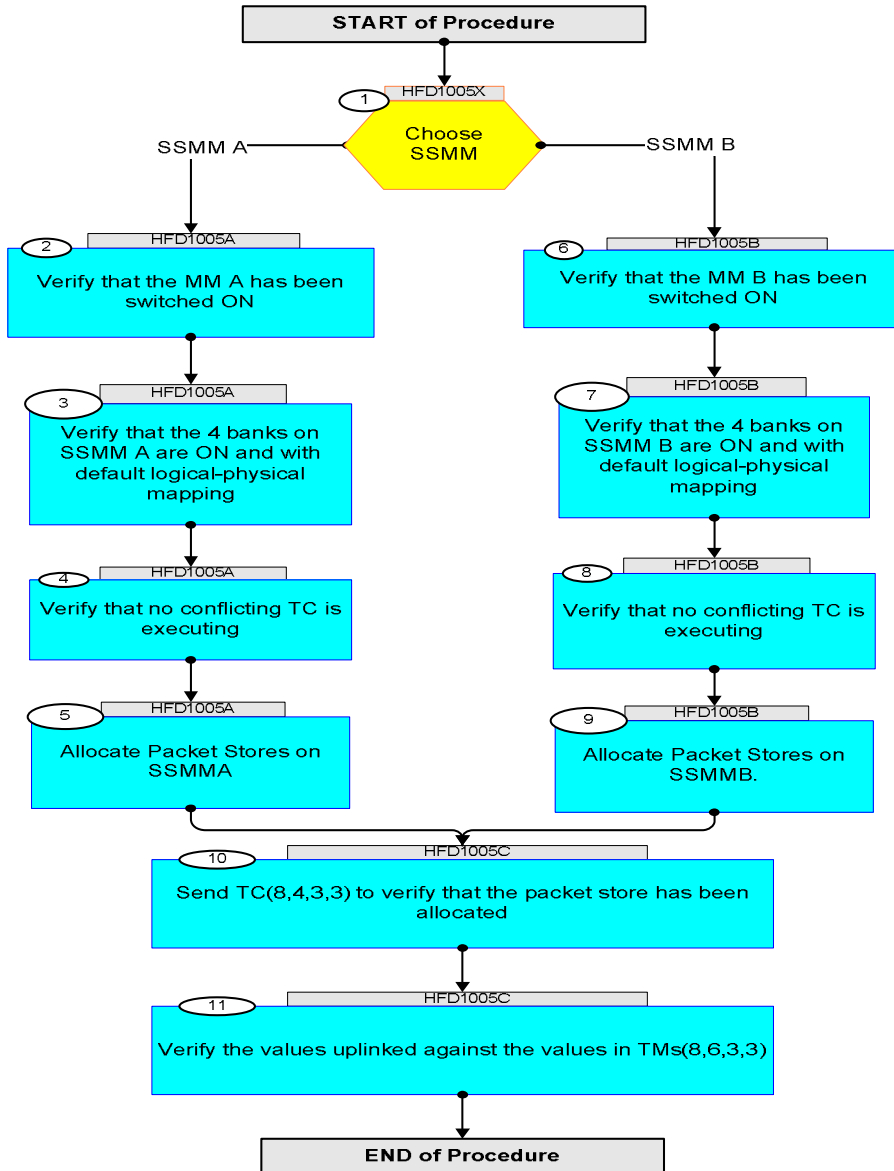
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
26/11/07		1	Created	cmevi-hp	
16/01/08	1	2	Batch update of TC flags	S. Manganelli	
15/09/08		3	Syntax checked against OBSW 3.6 db.	cmevi-hp	
09/12/08	2	4	Restructured to use 4 banks, added TM checks	S. Manganelli	
24/03/09	2.2	5	Complete restructuring to split sequences between SSMM A and SSMM B. □ Added TM checks as per TAS-I inputs 3 march 09	S. Manganelli	

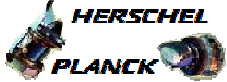
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Procedure Flowchart Overview




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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
Beginning of Procedure					
HFD1005X <i>TC Seq. Name :HFD1005X (dummy)</i> <i>TimeTag Type:</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
1		Choose SSMM type: [Switch]		Next Step: SSMM A 2 SSMM B 6	
End of Sequence					
HFD1005A <i>TC Seq. Name :HFD1005A (def pktst 4 MM A)</i> <i>TimeTag Type:</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
2		Verify that the MM A has been switched ON		Next Step: 3	
		Verify Telemetry MMstsA_fromTTRA DEEDG160 = ON		AND=ZAZAB999	
		Verify Telemetry MMstsA_fromTTRB DEEDH160 = ON		AND=ZAZAB999	
3		Verify that the 4 banks on SSMM A are ON and with default logical-physical mapping		Next Step: 4	
		Verify Telemetry A0_Phys_Bank DEEE1160 = PhysBank0		AND=ZAZAB999	
		Verify Telemetry PWR_Sts_BankA1 DEECH160 = ON		AND=ZAZAB999	
		Verify Telemetry A1_Phys_Bank DEEF1160 = PhysBank1		(None)	
		Verify Telemetry PWR_Sts_BankA2 DEECZ160 = ON		(None)	
		Verify Telemetry A2_Phys_Bank DEEG1160 = PhysBank2		(None)	
		Verify Telemetry PWR_Sts_BankA3 DEECJ160 = ON		(None)	
		Verify Telemetry A3_Phys_Bank DEEH1160 = PhysBank3		(None)	
		Verify Telemetry PWR_Sts_BankB0 DEECK160 = ON		AND=ZAZAB999	
4		Verify that no conflicting TC is executing		Next Step: 5	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Telemetry TC_8-4-2-3_x DEE0J161	= FALSE	AND=ZAD22999	
		Verify Telemetry TC_8-4-2-4_x DEE0K161	= FALSE	AND=ZAD22999	
		Verify Telemetry TC_8-4-2-5_x DEE0L161	= FALSE	AND=ZAD22999	
		Verify Telemetry TC_8-4-2-6_x DEE0M161	= FALSE	AND=ZAD22999	
		The following activities are conflicting so, before one is started, no other one must be going on. Destructive testing of a mass memory range, initiated by TC(8,4,2,3) Remapping of banks, initiated by TC(8,4,2,4) Bank switch on/off, initiated by TC(8,4,2,5) MM board initialization, initiated by TC(8,4,2,6)			
5		Allocate Packet Stores on SSMM A		Next Step: 10	
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 VC DH034160 ID DH035160 SAD DH032160 LEN DH012160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 VC DH034160 ID DH035160 SAD DH032160 LEN DH012160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 VC DH034160 ID DH035160 SAD DH032160 LEN DH012160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 Cyclic VC DH034160 Dump on VC3 ID DH035160 StorID_003 SAD DH032160 24AC49F4 <hex> LEN DH012160 3679630860 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	
End of Sequence					
TC Seq. Name : HFD1005B (def pktst 4 MM B)					
HFD1005B					
TimeTag Type:					
Sub Schedule ID:					
□					
6		Verify that the MM B has been switched ON		Next Step: 7	
		Verify Telemetry MMstsB_fromTTRA DEEDZ160 = ON		AND=ZAZAB999	
		Verify Telemetry MMstsB_fromTTRB DEEDJ160 = ON		AND=ZAZAB999	
7		Verify that the 4 banks on SSMM B are ON and with default logical-physical mapping		Next Step: 8	
		Verify Telemetry B0_Phys_Bank DEEEG160 = PhysBank0		AND=ZAZAB999	
		Verify Telemetry PWR_Sts_BankB1 DEECL160 = ON		(None)	
		Verify Telemetry B1_Phys_Bank DEEFG160 = PhysBank1		(None)	
		Verify Telemetry PWR_Sts_BankB2 DEECM160 = ON		(None)	
		Verify Telemetry B2_Phys_Bank DEEGG160 = PhysBank2		(None)	
		Verify Telemetry PWR_Sts_BankB3 DEECN160 = ON		(None)	
		Verify Telemetry B3_Phys_Bank DEEHG160 = PhysBank3		(None)	
		Verify Telemetry PWR_Sts_BankA0 DEECG160 = ON		AND=ZAZAB999	
8		Verify that no conflicting TC is executing		Next Step: 9	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Telemetry TC_8-4-2-3_x DEE0J161	= FALSE	AND=ZAD22999	
		Verify Telemetry TC_8-4-2-4_x DEE0K161	= FALSE	AND=ZAD22999	
		Verify Telemetry TC_8-4-2-5_x DEE0L161	= FALSE	AND=ZAD22999	
		Verify Telemetry TC_8-4-2-6_x DEE0M161	= FALSE	AND=ZAD22999	
		The following activities are conflicting so, before one is started, no other one must be going on. Destructive testing of a mass memory range, initiated by TC(8,4,2,3) Remapping of banks, initiated by TC(8,4,2,4) Bank switch on/off, initiated by TC(8,4,2,5) MM board initialization, initiated by TC(8,4,2,6)			
9		Allocate Packet Stores on SSMMB.		Next Step: 10	
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 VC DH034160 ID DH035160 SAD DH032160 LEN DH012160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 VC DH034160 ID DH035160 SAD DH032160 LEN DH012160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	
		Execute Telecommand AllocatePktStore Command Parameter(s) : TYP DH033160 VC DH034160 ID DH035160 SAD DH032160 LEN DH012160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Allocate Packet Store	DC807160	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">AllocatePktStore</p> <i>Command Parameter(s) :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>TYP DH033160</p> <p>VC DH034160</p> <p>ID DH035160</p> <p>SAD DH032160</p> <p>LEN DH012160</p> </div> <div style="width: 45%;"> <p>Cyclic</p> <p>Dump on VC3</p> <p>StorID_131</p> <p>24AC49F4 <hex></p> <p>3679630860 <dec></p> </div> </div> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> GBM IL DSE</p> <p> --Y -- ---</p> </div> <div style="width: 45%;"> </div> </div> <i>Subsch. ID : 10</i> <i>Det. descr. : Allocate Packet Store</i>	DC807160	TC	
End of Sequence					
<i>TC Seq. Name : HFD1005C (verif bank on)</i> HFD1005C <i>TimeTag Type:</i> <i>Sub Schedule ID:</i> <input type="checkbox"/>					
10		Send TC(8,4,3,3) to verify that the packet store has been allocated		Next Step: 11	
The allocation is reported in up to four TM (8,6,3,3).					
		Execute Telecommand <p style="text-align: right;">ReportPktStrAlloc</p> <i>TC Control Flags :</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> GBM IL DSE</p> <p> --Y -- ---</p> </div> <div style="width: 45%;"> </div> </div> <i>Subsch. ID : 10</i> <i>Det. descr. : Report Packet Store Allocation</i>	DC809160	TC	
11		Verify the values uplinked against the values in TMs(8,6,3,3)		Next Step: END	
		Verify Packet Reception Packet Store Allocation Report Packet Mnemonic : PktStoreAlloc APID : 16 Type : 8 Subtype : 6 PI1 : 771 PI2 : 22			
		Verify Telemetry <p style="text-align: right;">FUN DE016160</p>		(None)	
		Verify Telemetry <p style="text-align: right;">ACT DE017160</p>		(None)	
		Verify Telemetry <p style="text-align: right;">SID DE018160</p>		(None)	
		Verify Telemetry <p style="text-align: right;">N DE023160</p>		(None)	
The following parameters are repeated N times					
		Verify Telemetry <p style="text-align: right;">PKS_ID DE024160</p>		(None)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Telemetry SAD DE019160		(None)	
		Verify Telemetry LEN DE025160		(None)	
End of Sequence					
End of Procedure					