

Dump of PSITs from default stores.
 File: H_FCP_DHS_1007.xls
 Author: S. Manganelli



Procedure Summary

Objectives

To obtain the PSIT information from all stores on board.

Summary of Constraints

The values of the start addresses in this procedure are compliant with the configuration of stores on 4+4 SSMM banks. If a different bank configuration is used, the addresses must be modified

Spacecraft Configuration

Start of Procedure

any

End of Procedure

unchanged

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD1007

Referenced Displays

ANDs GRDs SLDs

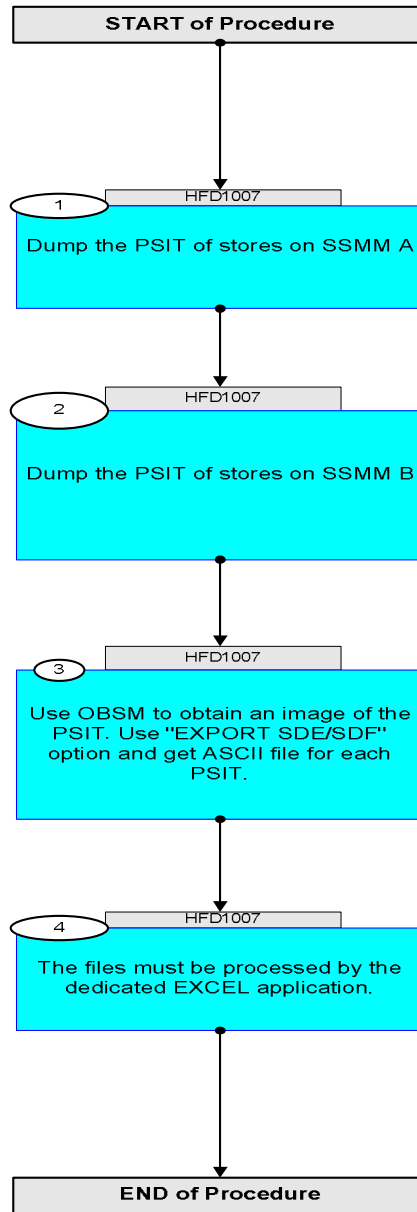
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
28/11/07		1	Created	cmevi-hp	
16/01/08	1	2	Batch update of TC flags	S. Manganelli	
09/12/08	2	3	Added steps about processing	S. Manganelli	
26/02/09	2.1	4	PSIT start address updated due to new 4+4 banks configuration.	S. Manganelli	
19/03/09	2.2	5	Modified after DB consistency check (mass mem dump packet has been modified by ESOC to have MIB PI1 / PI2 = 0 due to OBSM constraint) <input type="checkbox"/> Added info sheet	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					
	HFD1007	TC Seq. Name :HFD1007 (Dump default PSITs) TimeTag Type: N Sub Schedule ID: □			
1		Dump the PSIT of stores on SSMM A		Next Step: 2	
		The PSIT is the last 32768 bytes of the store and it is dumped in 32 max size segments of 994 bytes, plus a final one which is just 960 bytes. USE LOGICAL ADDRESSES!			
		Execute Telecommand - Dump Store 0 PSIT DumpMassMem Command Parameter(s) : SRC DH023160 0001019C9AFC <hex> LEN DH006160 8000 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
		Execute Telecommand - Dump Store 1 PSIT DumpMassMem Command Parameter(s) : SRC DH023160 000102833670 <hex> LEN DH006160 8000 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
		Execute Telecommand - Dump Store 2 PSIT DumpMassMem Command Parameter(s) : SRC DH023160 000124ABC9F4 <hex> LEN DH006160 8000 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	
		Execute Telecommand - Dump Store 3 PSIT DumpMassMem Command Parameter(s) : SRC DH023160 0001FFFE8000 <hex> LEN DH006160 8000 <hex> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160	TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception Mass Memory Dump Packet Mnemonic : MassMemDmp APID : 16 Type : 8 Subtype : 9 PI1 : PI2 :			
		DE016160 FUN	<input type="checkbox"/>	PKT=MassMemDmp	
		DE017160 ACT	<input type="checkbox"/>	PKT=MassMemDmp	
		DE018160 SID	<input type="checkbox"/>	PKT=MassMemDmp	
		DE019160 SAD	<input type="checkbox"/>	PKT=MassMemDmp	
		DE041160 N	<input type="checkbox"/>	PKT=MassMemDmp	
		DE012160 Data8	<input type="checkbox"/>	PKT=MassMemDmp	
2		Dump the PSIT of stores on SSMM B		Next Step: 3	
		The PSIT is the last 32768 bytes of the store and it is dumped in 32 max size segments of 994 bytes, plus a final one which is just 960 bytes. USE LOGICAL ADDRESSES!			
		Execute Telecommand - Dump Store 128 PSIT 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	
		Execute Telecommand - Dump Store 129 PSIT 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	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand - Dump Store 130 PSIT DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160 000324ABC9F4 <hex> 8000 <hex>	TC	
		Execute Telecommand - Dump Store 131 PSIT DumpMassMem Command Parameter(s) : SRC DH023160 LEN DH006160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Dump Mass Memory	DC802160 0003FFFE8000 <hex> 8000 <hex>	TC	
		Verify Packet Reception Mass Memory Dump Packet Mnemonic : MassMemDmp APID : 16 Type : 8 Subtype : 9 PI1 : PI2 :			
		DE016160 FUN	<input type="checkbox"/>	PKT=MassMemDmp	
		DE017160 ACT	<input type="checkbox"/>	PKT=MassMemDmp	
		DE018160 SID	<input type="checkbox"/>	PKT=MassMemDmp	
		DE019160 SAD	<input type="checkbox"/>	PKT=MassMemDmp	
		DE041160 N	<input type="checkbox"/>	PKT=MassMemDmp	
		DE012160 Data8	<input type="checkbox"/>	PKT=MassMemDmp	
3		Use OBSM to obtain an image of the PSIT. Use "EXPORT SDE/SDF" option and get ASCII file for each PSIT.		Next Step: 4	
4		The files must be processed by the dedicated EXCEL application.		Next Step: END	
End of Sequence					
End of Procedure					

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INFO

USE LOGICAL ADDRESSES FOR ALL MM MANAGEMENT TC EXCEPT THE PACKET STORE ALLOCATION TC

SSMMA	Physical start address	Physical end address	LOGICAL start (byte)	LOGICAL end (byte)	PSIT start addr	PSIT start addr Hex
Reserved BSW area at start	0	163,839	4,294,967,296	4,295,131,135		
ASW Buffers plus a margin of 7231 bytes	163,840	21,008,383	4,295,131,136	4,315,975,679		
Store 0 (default packet store)	21,008,384	27,073,275	4,315,975,680	4,322,040,571	4,322,007,804	1019C9AFC
Store 1 (SEL : serv 1, 5 and 8)	27,073,276	42,186,351	4,322,040,572	4,337,153,647	4,337,120,880	102833670
Store 2 (all HK)	42,186,352	615,270,899	4,337,153,648	4,910,238,195	4,910,205,428	124ABC9F4
Store 3 (serv 21)	615,270,900	4,294,899,307	4,910,238,196	8,589,869,055	8,589,836,288	1FFFE8000
Reserved BSW area at end	4,294,901,760	4,294,967,295	8,589,869,056	8,589,934,591		
SSMMB	Physical start address	Physical end address	LOGICAL start (byte)	LOGICAL end (byte)	PSIT start addr	PSIT start addr Hex
Reserved BSW area at start	0	163,839	12,884,901,888	12,885,065,727		
ASW Buffers plus margin	163,840	21,008,383	12,885,065,728	12,905,910,271		
Store 128 80h (default packet store)	21,008,384	27,073,275	12,905,910,272	12,911,975,163	12,911,942,396	3019C9AFC
Store 129 81h (SEL : serv 1, 5 and 8)	27,073,276	42,186,351	12,911,975,164	12,927,088,239	12,927,055,472	302833670
Store 130 82h (all HK)	42,186,352	615,270,899	12,927,088,240	13,500,172,787	13,500,140,020	324ABC9F4
Store 131 83h (serv 21)	615,270,900	4,294,901,759	13,500,172,788	17,179,803,647	17,179,770,880	3FFFE8000
Reserved BSW area at end	4,294,901,760	4,294,967,295	17,179,803,648	17,179,869,183		