Select a bus profile to be active
File: H_FCP_DHS_3053.xls
Author: S. Manganelli

Procedure Summary

Objectives

This procedure describes the steps needed to activate one of the 16 S/C bus profiles stored in the SGMs.

Summary of Constraints

The activation is synchronised by the BSW so that the profile-switch occurs on the frame boundary. This also means that not more than one profile activation can be carried out during each SW cycle (1Hz).

There is always one active BP which specifies for the BSW when and how interaction with a certain RT shall be performed.

Note that TC(8,4,6,4) will be delayed when a TC(8,4,6,4) is already ongoing or when a TC(8,4,6,3) is ongoing.

Spacecraft Configuration

Start of Procedure

CDMU in default configuration, that is:
- PM A or B ON (nominally A)
- TM Encoder/OBT A or B active (nominally A)
- RM A and B enabled
- MM A and B ON

End of Procedure

CDMU in default configuration, that is:
- PM A or B ON (nominally A)
- TM Encoder/OBT A or B active (nominally A)
- RM A and B enabled
- MM A and B ON

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD3053

Referenced Displays

ANDs	GRDs	SLDs
ZAD07999		
ZAZAF999		

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
06/11/07		1	Created	cmevi-hp	

Status : Version 4 - Unchanged
Last Checkin: 11/12/08

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10/06/08		2	TC Flag and Seq Properly changed	S. Manganelli	
04/08/08	1	3	Added list of bus profiles	S. Manganelli	
11/12/08	2	4	Added FP, Checked against OBSW 3_6_2	S. Manganelli	

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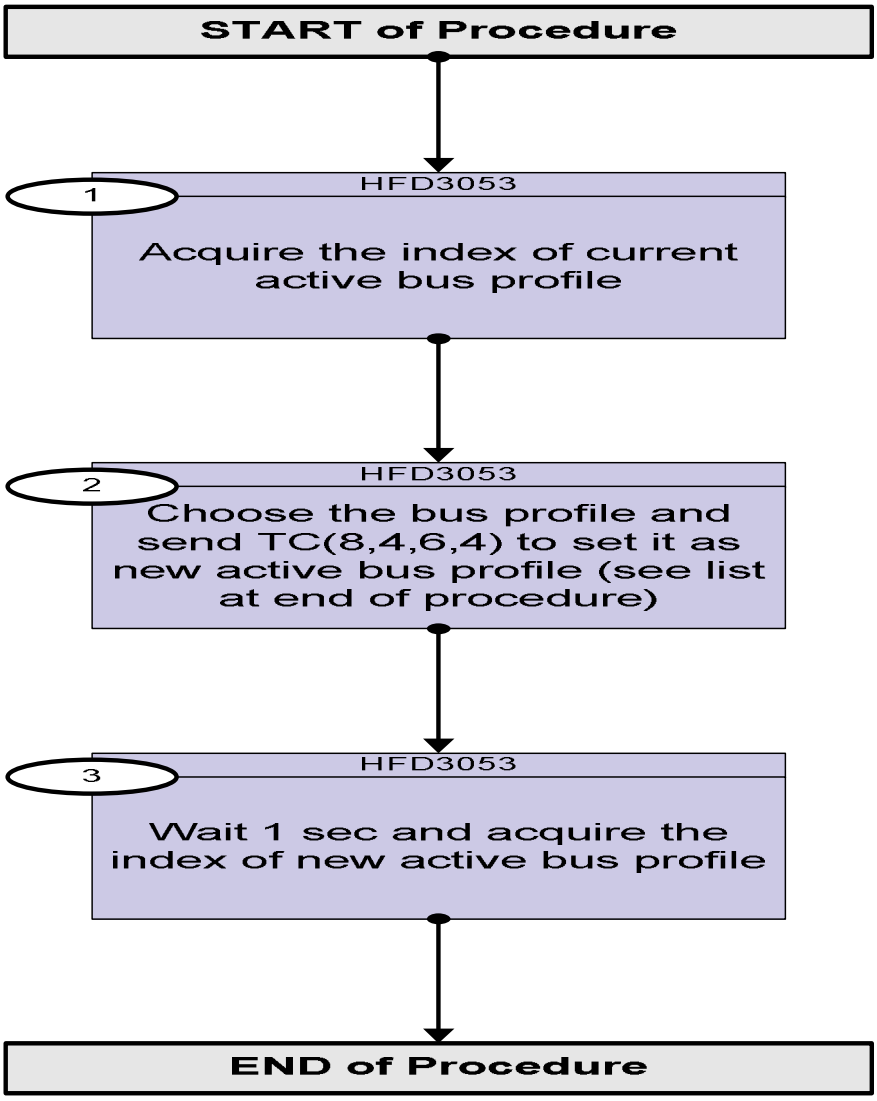
Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
		TC Seq. Name :HFD3053 (Select SCBP bus prof) *TimeTag Type: N* *Sub Schedule ID:* *Formal Parameter List :* SCBP SCBP_ID=		
1		*Acquire the index of current active bus profile*		Next Step: 2
		Verify Telemetry **BSW_SDB_ActProf** **DEF5F160**		AND=ZAZAF999
2		*Choose the bus profile and send TC(8,4,6,4) to set it as new active bus profile (see list at end of procedure)*		Next Step: 3
		This TC copies the selected SCBP from the SCBP table to the current active SCBP. **The change of current bus-profile will take affect in the next sub-frame zero.**		
		Execute Telecommand **SelectActiveSCBP** *Command Parameter(s) :* **SCBP** **DH049160** *TC Control Flags :* **GBM IL DSE** **--Y -- ---** *Subsch. ID : 10* Det. descr. : Select Active SCBP from SCBP Table	**DC819160** **SCBP_ID**	
3		*Wait 1 sec and acquire the index of new active bus profile*		Next Step: END
		Verify Telemetry **BSW_SDB_ActProf** **DEF5F160**		AND=ZAZAF999
End of Procedure				

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esa

List of bus profiles

HERSCHEL: **9 Operative Bus Profiles**

- Launch : index 0 and defined by TC(8,4,6,1) identified by C001 to C064.
- Earth Acquisition : index 1 and defined by TC(8,4,6,1) identified by C101 to C164.
- HIFI Prime : index 2 and defined by TC(8,4,6,1) identified by C201 to C264.
- SPIRE Prime : index 3 and defined by TC(8,4,6,1) identified by C301 to C364.
- PACS Prime : index 4 and defined by TC(8,4,6,1) identified by C401 to C464.
- Sun Acquisition : index 5 and defined by TC(8,4,6,1) identified by C501 to C564.
- Survival : index 6 and defined by TC(8,4,6,1) identified by C601 to C664.
- Burst : index 7 and defined by TC(8,4,6,1) identified by C701 to C764.
- Parallel Mode : index 8 and defined by TC(8,4,6,1) identified by C801 to C864.

PLANCK: **5 Operative Bus Profiles**

- Launch : index 0 and defined by TC(8,4,6,1) identified by C001 to C064.
- Earth Acquisition : index 1 and defined by TC(8,4,6,1) identified by C101 to C164.
- Science : index 2 and defined by TC(8,4,6,1) identified by C201 to C264.
- Sun Acquisition : index 3 and defined by TC(8,4,6,1) identified by C301 to C364.
- Survival : index 4 and defined by TC(8,4,6,1) identified by C401 to C464.