

Restore launch pad update OBDB values
 File: H_CRP_AOC_D5LP.xls
 Author: dsalt-hp



Procedure Summary

Objectives

The objective of this procedure is to restore the OBDB values that were updated on the Launch Pad in the event that they are lost or corrupted after a PM switch-over.

The procedure involves the following activities:

- check status of mission and ASW version
- restore control gains and RCS thrust related parameters, if necessary
- restore control decoupling parameters, if necessary

NOTE 1: OBDB parameters and their values are taken from the Dutch Space "User Manual Flight Control Procedures for the Herschel S/C" (H-P-4-DS-MA-007, Issue 2, Rev. 4, Section 2.2.1.7) and relate to Step 19 to 22 respectively, in that document.

Summary of Constraints

This procedure should only be used after a PM switch-over has occurred early in mission (i.e. before ASW r4.1B000 has been installed in EEPROM)

Spacecraft Configuration

Start of Procedure

S/C recovered from PM switch-over with default OBDB values

End of Procedure

S/C recovered from PM switch-over with launch Pad OBDB values, as necessary

Reference File(s)

Input Command Sequences

Output Command Sequences

HRAD5LPA
 HRAD5LPB

Referenced Displays

ANDs GRDs SLDs

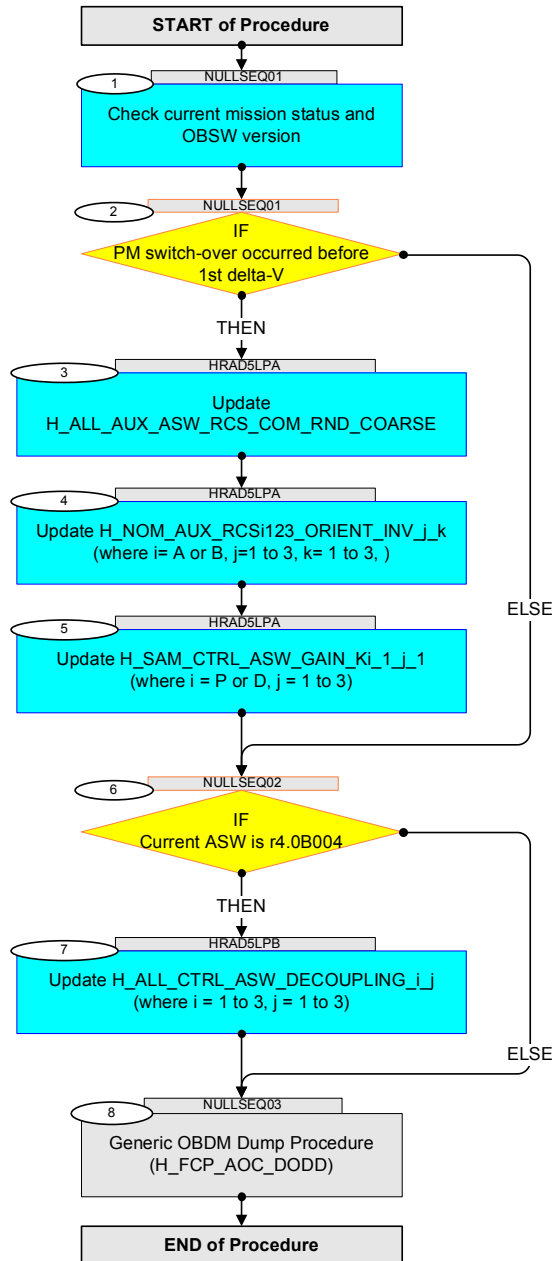
Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|----------|-----------|---------|---|----------|---------|
| 17/04/09 | 2.3 | 1 | Created | dsalt-hp | |
| 04/05/09 | 2.4 | 2 | TCs in sequences reduced and time-tags removed for more efficient uploading | dsalt-hp | |

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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 : NULLSEQ01 (Null Sequence 01) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 1 | | Check current mission status and OBSW version | | Next Step: 2 |
| | | Check current mission status is <u>prior to 1st delta-V</u> | | |
| | | Check if current version of ACC ASW is <u>r4.0B004</u> | | |
| 2 | | IF PM switch-over occurred before 1st delta-V | | Next Step: THEN 3 ELSE 6 |
| | | Check current mission status IF: 1st delta-V has not yet been performed THEN: go to Step 3 ELSE: go to Step 6 | | |
| TC Seq. Name : HRAD5LPA (OBDB_full_pad) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/> | | | | |
| 3 | | Update H_ALL_AUX_ASW_RCS_COM_RND_COARSE | | Next Step: 4 |
| | | NOTE: It is assumed that OBDB Issue 8.1 is the valid source for the default values. H_NOM_AUX_ASW_RCS_COM_RND_COARSE = 0.7 | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|---|-----------------|
| | | Execute Telecommand <p style="text-align: center;">Start database loading</p> Command Parameter(s) : DbLoad Nr Cmds AHFDL001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC_START_DATABASE_LOAD | ACDS1001 1 <dec> | |
| | | Following the Start_database_loading command the following commands must each be sent within C_ALL_OPS_ASW_CRIT_CMD_TIMEOUT (=180 seconds default) of the previous command to avoid the started status of the function timing-out. | | |
| | | Execute Telecommand <p style="text-align: center;">Load databaseReal</p> Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 Enable 86 DbLoad DD86 Cmd AH8D2001 Enable 86 DbLoad StartInd AHFDS001 78 <dec> DbLoad Nr Wrds AHFDN001 1 <dec> (Def) DbLoad Dwd Real AHFDZ001 0.55 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) - Load database Real | ACZTY109 Enable 86 Enable 86 78 <dec> 1 <dec> (Def) 0.55 <dec> | |
| | | Execute Telecommand <p style="text-align: center;">Fire Start DB loading</p> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Start DB loading | ACZ5L109 | |
| 4 | | Update H_NOM_AUX_RCSi123_ORIENT_INV_j_k (where i= A or B, j=1 to 3, k= 1 to 3,) | | Next Step: 5 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|----------|-----------------|
| | | <p>NOTE: It is assumed that OBDB Issue 8.1 is the valid source for the default values.</p> <p>H_NOM_AUX_RCSA123_ORIENT_INV_1_1 = 0.015484432 H_NOM_AUX_RCSA123_ORIENT_INV_1_2 = -0.0001033 H_NOM_AUX_RCSA123_ORIENT_INV_1_3 = -0.022367245 H_NOM_AUX_RCSA123_ORIENT_INV_2_1 = -0.000134757 H_NOM_AUX_RCSA123_ORIENT_INV_2_2 = -0.014843203 H_NOM_AUX_RCSA123_ORIENT_INV_2_3 = -0.022240021 H_NOM_AUX_RCSA123_ORIENT_INV_3_1 = 0.015634597 H_NOM_AUX_RCSA123_ORIENT_INV_3_2 = -0.015100991 H_NOM_AUX_RCSA123_ORIENT_INV_3_3 = 1.58E-05</p> <p>H_NOM_AUX_RCSB123_ORIENT_INV_1_1 = 0.015643744</p> | | |
| | | <p>H_NOM_AUX_RCSB123_ORIENT_INV_1_2 = -0.000293334 H_NOM_AUX_RCSB123_ORIENT_INV_1_3 = -0.022929057 H_NOM_AUX_RCSB123_ORIENT_INV_2_1 = 7.56E-05 H_NOM_AUX_RCSB123_ORIENT_INV_2_2 = -0.015099007 H_NOM_AUX_RCSB123_ORIENT_INV_2_3 = -0.022984271 H_NOM_AUX_RCSB123_ORIENT_INV_3_1 = 0.015602846 H_NOM_AUX_RCSB123_ORIENT_INV_3_2 = -0.014989039 H_NOM_AUX_RCSB123_ORIENT_INV_3_3 = 2.30E-05</p> | | |
| | | <p>Execute Telecommand</p> <p style="text-align: center;">Start database loading</p> <p>Command Parameter(s) : DbLoad Nr Cmds AHFDL001</p> <p>TC Control Flags : GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : TC_START_DATABASE_LOAD</p> | ACDS1001 | 1 <dec> |
| | | <p>Following the Start_database_loading command the following commands must each be sent within C_ALL_OPS_ASW_CRIT_CMD_TIMEOUT (=180 seconds default) of the previous command to avoid the started status of the function timing-out.</p> | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|----------------------|--|----------|-----------------|
| | | Execute Telecommand Load databaseReal Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 Enable 86 DbLoad DD86 Cmd AH8D2001 Enable 86 DbLoad StartInd AHFDS001 156 <dec> DbLoad Nr Wrds AHFDN001 18 <dec> DbLoad Dwd Real AHFDZ001 0.015484432 <dec> DbLoad Dwd Real AHFDZ001 -0.0001033 <dec> DbLoad Dwd Real AHFDZ001 -0.022367245 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 -0.000134757 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 -0.014843203 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 -0.022240021 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 0.015634597 <dec> DbLoad Dwd Real AHFDZ001 -0.015100991 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 1.58E-05 <dec> DbLoad Dwd Real AHFDZ001 0.015643744 <dec> DbLoad Dwd Real AHFDZ001 -0.000293334 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 -0.022929057 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 7.56E-05 <dec> DbLoad Dwd Real AHFDZ001 -0.015099007 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 -0.022984271 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 0.015602846 <dec> DbLoad Dwd Real AHFDZ001 -0.014989039 DbLoad Dwd Real AHFDZ001 <dec> DbLoad Dwd Real AHFDZ001 2.30E-05 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) - Load database Real | ACZTY109 | |
| | ET=+ UT=+00.00.02 | Execute Telecommand Fire Start DB loading Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Start DB loading | ACZ5L109 | |
| 5 | | Update H_SAM_CTRL_ASW_GAIN_Ki_1_j_1 (where i = P or D, j = 1 to 3) | | Next Step: 6 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|--|---|-----------------|
| | | Execute Telecommand <p style="text-align: center;">Start database loading</p> Command Parameter(s) : DbLoad Nr Cmds AHFDL001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC_START_DATABASE_LOAD | ACDS1001 2 <dec> | |
| | | Following the Start_database_loading command the following commands must each be sent within C_ALL_OPS_ASW_CRIT_CMD_TIMEOUT (=180 seconds default) of the previous command to avoid the started status of the function timing-out. | | |
| | | Execute Telecommand <p style="text-align: center;">Load databaseReal</p> Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 Enable 86 DbLoad DD86 Cmd AH8D2001 Enable 86 DbLoad StartInd AHFDS001 493 <dec> DbLoad Nr Wrds AHFDN001 3 <dec> DbLoad Dwd Real AHFDZ001 2673.8 <dec> DbLoad Dwd Real AHFDZ001 5564.6 <dec> DbLoad Dwd Real AHFDZ001 5814.5 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) - Load database Real | ACZTY109 Enable 86 Enable 86 493 <dec> 3 <dec> 2673.8 <dec> 5564.6 <dec> 5814.5 <dec> | |
| | | Execute Telecommand <p style="text-align: center;">Load databaseReal</p> Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 Enable 86 DbLoad DD86 Cmd AH8D2001 Enable 86 DbLoad StartInd AHFDS001 505 <dec> DbLoad Nr Wrds AHFDN001 3 <dec> DbLoad Dwd Real AHFDZ001 101.1946 <dec> DbLoad Dwd Real AHFDZ001 210.6004 <dec> DbLoad Dwd Real AHFDZ001 0.0 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) - Load database Real | ACZTY109 Enable 86 Enable 86 505 <dec> 3 <dec> 101.1946 <dec> 210.6004 <dec> 0.0 <dec> | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|--|------|---|-------------------------|--------------------------------|
| | | Execute Telecommand <p style="text-align: right;">Fire Start DB loading</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Start DB loading | ACZ5L109 | |
| TC Seq. Name : NULLSEQ02 (Null Sequence 02) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 6 | | IF Current ASW is r4.0B004 | | Next Step: THEN 7 ELSE 8 |
| | | Check if current version of ACC ASW IF: current ASW version is r4.0B004 THEN: go to Step 7 ELSE: exit this procedure | | |
| TC Seq. Name : HRAD5LPB (OBDB_part_pad) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/> | | | | |
| 7 | | Update H_ALL_CTRL_ASW_DECOUPLING_i_j (where i = 1 to 3, j = 1 to 3) | | Next Step: 8 |
| | | Execute Telecommand <p style="text-align: right;">Start database loading</p> Command Parameter(s) : <p style="text-align: right;">DbLoad Nr Cmds AHFDL001</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC_START_DATABASE_LOAD | ACDS1001 1 <dec> | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|------|--|----------|-------------------|
| | | Following the Start_database_loading command the following commands must each be sent within C_ALL_OPS_ASW_CRIT_CMD_TIMEOUT (=180 seconds default) of the previous command to avoid the started status of the function timing-out. | | |
| | | Execute Telecommand <div style="text-align: right;">Load databaseReal</div> Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 Enable 86 DbLoad DD86 Cmd AH8D2001 Enable 86 DbLoad StartInd AHFDS001 33 <dec> DbLoad Nr Wrds AHFDN001 9 <dec> DbLoad Dwd Real AHFDZ001 1.0 <dec> DbLoad Dwd Real AHFDZ001 0.0107225 <dec> DbLoad Dwd Real AHFDZ001 -0.074245 <dec> DbLoad Dwd Real AHFDZ001 0.022315 <dec> DbLoad Dwd Real AHFDZ001 1.0 <dec> DbLoad Dwd Real AHFDZ001 0.0070586 <dec> DbLoad Dwd Real AHFDZ001 -0.1614532 <dec> | ACZTY109 | |
| | | DbLoad Dwd Real AHFDZ001 0.0073755 <dec> DbLoad Dwd Real AHFDZ001 1.0 <dec> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 20 Det. descr. : TC(8,4) - Load database Real | | |
| | | Execute Telecommand <div style="text-align: right;">Fire Start DB loading</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Start DB loading | ACZ5L109 | |
| TC Seq. Name :NULLSEQ03 (Null Sequence 03) | | | | |
| TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 8 | | Generic OBDM Dump Procedure (H_FCP_AOC_DODD) | | Next Step: END |
| | | Execute Procedure: H_FCP_AOC_DODD Herschel ACMS : Generic OBDB Dump Procedure | | |
| | | NOTE: This procedure enables a direct dump of the OBDB from RAM or Safe-Guard Memory (SGM), as well as reading the OBDB via diagnostic telemetry (DTM) packets | | |

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| | | <p><u>Relevant details for use with H FCP AOC DODD</u></p> <p>Based upon the latest ASW ICD (H-P-4-TASW-IF-0002, Issue 3 G), this procedure loads the following parameters into specific OBDB offset locations in RAM:</p> <p>H_ALL_CTRL_ASW_DECOUPLING_*_* are at OBDB offsets 33-41</p> <p>H_NOM_AUX_ASW_RCS_COM_RND_COARSE is at OBDB offset 78</p> <p>H_NOM_AUX_RCS*123_ORIENT_INV_*_* are at OBDB offsets 156-173</p> <p>H_SAM_CTRL_ASW_GAIN_KD_*_*_* are at OBDB offsets 493-495</p> <p>H_SAM_CTRL_ASW_GAIN_KP_*_*_* are at OBDB offsets 505-507</p> <p>These are located in Block 1, 2 & 3 of the OBDB</p> <p>It also copies the following parameters into specific OBDB offset locations in SGM:</p> <p>H_ALL_CTRL_ASW_DECOUPLING_*_* are at OBDB offsets 137-145</p> <p>H_NOM_AUX_ASW_RCS_COM_RND_COARSE is at OBDB offset 118</p> <p>H_NOM_AUX_RCS*123_ORIENT_INV_*_* are at OBDB offsets 100-117</p> <p>H_SAM_CTRL_ASW_GAIN_KD_*_*_* are at OBDB offsets 125-127</p> <p>H_SAM_CTRL_ASW_GAIN_KP_*_*_* are at OBDB offsets 122-124</p> | | |
| 8.1 | | <i>Dump via DTM</i> | | <input type="checkbox"/> |
| | | <p><u>Relevant details for use with H FCP AOC DODD</u></p> <p>The following parameters H_ALL_CTRL_ASW_DECOUPLING_*_* H_NOM_AUX_ASW_RCS_COM_RND_COARSE H_NOM_AUX_RCS*123_ORIENT_INV_*_* These are located in Block 1 of the OBDB</p> <p>The following parameters H_SAM_CTRL_ASW_GAIN_KD_*_*_* These are located in Block 2 of the OBDB</p> <p>The following parameters H_SAM_CTRL_ASW_GAIN_KP_*_*_* These are located in Block 3 of the OBDB</p> | | |
| | | <p><u>Use sequences HFADODDA HFADODDE & HFADODDC</u></p> | | |

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| | | <p>NOTE: The contents of diagnostic packet A3DH0BDB1109 {DTM with Herschel OBDB data1} are spread over a group of 4 monitoring displays:</p> <p>ZAZ60999 DTMOBDB1_1 ZAZ61999 DTMOBDB1_2 <- values are in this display ZAZ62999 DTMOBDB1_3 <- values are in this display ZAZ63999 DTMOBDB1_4</p> | | |
| | | <p>NOTE: The contents of diagnostic packet A3DH0BDB2109 {DTM with Herschel OBDB data2} are spread over a group of 4 monitoring displays:</p> <p>ZAZ64999 DTMOBDB2_1 ZAZ65999 DTMOBDB2_2 ZAZ66999 DTMOBDB2_3 ZAZ67999 DTMOBDB2_4 <- values are in this display</p> | | |
| | | <p>NOTE: The contents of diagnostic packet A3DH0BDB3109 {DTM with Herschel OBDB data3} are spread over a group of 4 monitoring displays:</p> <p>ZAZ68999 DTMOBDB3_1 <- values are in this display ZAZ69999 DTMOBDB3_2 ZAZ6A999 DTMOBDB3_3 ZAZ6B999 DTMOBDB3_4</p> | | |
| | | <p>NOTE: This step enables diagnostic packets that contain data from specific blocks of the OBDB, where each block contains 250 onboard database parameters.</p> <p>The Herschel onboard database currently contains 2134 parameters and there are 8 diagnostic packets defined to cover the first 2000 entries. In HP-4-TASW-IF-0002 (ACC ASW_ICD) section 6.1 you can find a list of Herschel OBDB parameters ordered by offset.</p> | | |
| 8.2 | | Dump from RAM | | <input type="checkbox"/> |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|--|--------|-----------------|
| | | <p>Relevant details for use with H FCP AOC DODD</p> <p>Based upon the latest ASW ICD (H-P-4-TASW-IF-0002, Issue 3 G), this procedure loads the following parameters into specific OBDB offset locations in RAM:</p> <p>H_ALL_CTRL_ASW_DECOUPLING_*_* are at OBDB offsets 33-41</p> <p>H_NOM_AUX_ASW_RCS_COM_RND_COARSE is at OBDB offset 78</p> <p>H_NOM_AUX_RCS*123_ORIENT_INV_*_* are at OBDB offsets 156-173</p> <p>H_SAM_CTRL_ASW_GAIN_KD_*_*_* are at OBDB offsets 493-495</p> <p>H_SAM_CTRL_ASW_GAIN_KP_*_*_* are at OBDB offsets 505-507</p> <p>The <u>absolute address</u> of offset 78 is therefore:</p> <p>020A = Memory ID D050 = Start Address</p> <p>The <u>absolute address</u> of offset 156 is therefore: 020A = Memory ID D188 = Start Address</p> | | |
| | | <p>Use sequence HFADODDL</p> <p>to dump <u>all</u> the OBDB in RAM, or edit: Start Address = CF18 Length = 8553</p> | | |
| | | <p>NOTE:</p> <p>The RAM memory address for a parameter with a given OBDB ID can be calculated as follows: RAM address = OBDB start address + parameter offset; OBDB start address = address of Asw_DatabaseManager_Obj + 12; parameter offset = OBDB ID * 4.</p> <p>Parameter ID's are listed in the ASW ICD (H-P-4-TASW-IF-002).</p> <p>Asw_Databasemanager_Obj is an ASW container structure used in the management of the OBDB and its address has to be obtained from the linker memory map valid for the software build currently used onboard.</p> | | |
| 8.3 | | Dump from SGM | | □ |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|-------------------------|------|--|--------|-----------------|
| | | <p>Relevant details for use with H FCP AOC DODD</p> <p>Based upon the latest ASW ICD (H-P-4-TASW-IF-0002, Issue 3 G), this procedure copies the following parameters into specific OBDB offset locations in SGM</p> <p>H_ALL_CTRL_ASW_DECOUPLING_*_* are at OBDB offsets 137-145</p> <p>H_NOM_AUX_ASW_RCS_COM_RND_COARSE is at OBDB offset 118</p> <p>H_NOM_AUX_RCS*123_ORIENT_INV_*_* are at OBDB offsets 100-117</p> <p>H_SAM_CTRL_ASW_GAIN_KD_*_*_* are at OBDB offsets 125-127</p> <p>H_SAM_CTRL_ASW_GAIN_KP_*_*_* are at OBDB offsets 122-124</p> <p>The <u>absolute address</u> of offset 100 is therefore:</p> <p>BA018C in SGA (=12190092 <dec>) EA018C in SGB (=15335820 <dec>)</p> <p>The <u>absolute address</u> of offset 118 is therefore: BA00FC in SGA (=12189948 <dec>) EA00FC in SGB (=15335676 <dec>)</p> | | |
| | | <p>Use sequences HFADODDJ & HFADODDK to dump <u>all</u> the OBDB in SGMA & SGMB, or edit: Start Address = BA0000 / EA0000 Length = 1688</p> | | |
| | | <p>NOTE: The address of a parameter with a given ID can be calculated as follows:</p> <p>SGMA Address = 0xBA0000 + (ParamID-1) * 4</p> <p>SGMB Address = 0xEA0000 + (ParamID-1) * 4</p> <p>Parameter ID's refer to the listing of SGM OBDB parameters in the ASW ICD (H-P-4-TASW-IF-0002) and are not the same as the ID's in the RAM OBDB.</p> | | |
| End of Procedure | | | | |