

Monitor dump of CDMU PM EEPROM memory area
 File: H_FCP_OBS_1242.xls
 Author: lstefanov-hp



Procedure Summary

Objectives

This Herschel OBSM nominal procedure is used to perform a CDMU PM EEPROM dump monitoring against the ground image. The procedure covers both CDMU PM EEPROM1 and EEPROM2. The memory dump is commanded using TC(6,5) and the memory locations content is received on ground in TM(6,6) packets.

The procedure assumes that the command stack has already been generated using the OBSM system and is ready for loading on the Manual Stack. The command stack generation activity is not covered by this procedure.

Summary of Constraints

CDMU in Operational Mode

Execution of service 6 TCs will be delayed when there is an ongoing:

- TC(6,2) Load Memory Using Absolute Addresses
- TC(6,5) Dump Memory Using Absolute Addresses
- TC(6,9) Check Memory Using Absolute Addresses
- TC(8,4,1,1) Copy Memory

Spacecraft Configuration

Start of Procedure

CDMU in Operational Mode

End of Procedure

Same as start except:
 - CDMU PM EEPROM1 and/or EEPROM2 memory dump executed

Reference File(s)

Input Command Sequences

Output Command Sequences

OFCP124C
 OFCP124E

Referenced Displays

ANDs GRDs SLDs

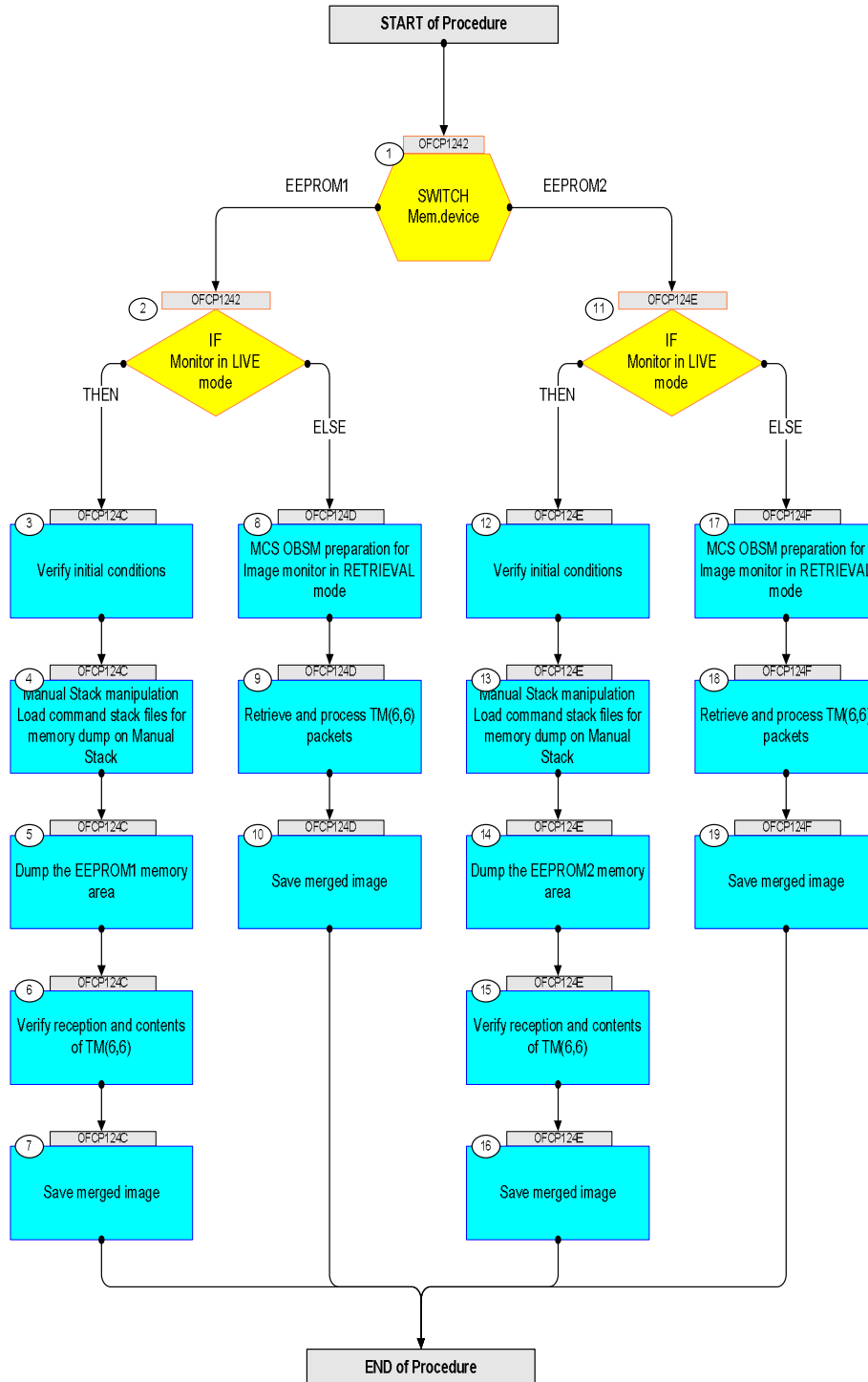
Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|----------|-----------|---------|--------------------------|--------------|---------|
| 21/04/09 | 2.3 | 1 | Created | lstefanov-hp | |

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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 | | | | | |
| OFCP1242 | | TC Seq. Name :OFCP1242 (CDMU EEPROM dump) CDMU PM EEPROM dump monitor TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | |
| 1 | | SWITCH Mem.device type: [Switch] | | Next Step: EEPROM1 2 EEPROM2 11 | |
| 2 | | IF Monitor in LIVE mode type: [If] | | Next Step: THEN 3 ELSE 8 | |
| End of Sequence | | | | | |
| OFCP124C | | TC Seq. Name :OFCP124C (CDMU EEPROM1 dump L) CDMU PM EEPROM1 dump monitor in LIVE mode TimeTag Type: B Sub Schedule ID: <input type="checkbox"/> | | | |
| 3 | | Verify initial conditions Check: - CDMU in Operational Mode CDMS SOE to confirm CDMU mode | | Next Step: 4 | |
| 4 | | Manual Stack manipulation Load command stack files for memory dump on Manual Stack | | Next Step: 5 | |
| 4.1 | | Load memory dump command stack Select the File -> LoadStack option from the main menu of the Manual Stack window | | | |
| 4.1.1 | | IF CDMU PM A | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|----------|------|--|--------|-----------------|-------------|
| | | <p>Select file</p> <p>CDMEE1PG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</p> <p>from directory</p> <p>/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/CDMEE1PG</p> <p>as indicated by the OBSM engineer</p> | | | |
| | | <p>IMPORTANT:</p> <p>XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p>YYYY_DDD hhmmss - depend on stack generation time</p> <p>machine - depends on the name of the machine used for stack generation</p> | | | |
| | | <p>Note:</p> <p>The file name pattern above assumes that NO model was associated with the image used for command stack generation.</p> <p>If the memory image used has a model associated, than the fields N_NoModel_NoModel will change to reflect the CT name, ID and Version of the used Configuration Table.</p> | | | |
| | | <p>File name example:</p> <p>- No model associated to the memory image:</p> <p>CDMEE1PG_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045</p> <p>- CT CDMEE1PG1, ID 0003, Version 001 associated to the memory image:</p> <p>CDMEE1PG_DI_0002001_C_CDMEE1PG1_0003001_2008_148T093320.sun045</p> | | | |
| 4.1.2 | | <p>ELSE</p> <p>CDMU PM B</p> | | | |
| | | <p>Select file</p> <p>CDMEE1PB_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine</p> <p>from directory</p> <p>/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/CDMEE1PB</p> <p>as indicated by the OBSM engineer</p> | | | |
| | | <p>IMPORTANT:</p> <p>XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation</p> <p>YYYY_DDD hhmmss - depend on stack generation time</p> <p>machine - depends on the name of the machine used for stack generation</p> | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment | | | | | | | | | | | | | | | | | | |
|----------------------|-------------------|---|------------------|-----------------|-------------|--|----------------------|----------|-------------|--|----------|----------|-------------|--|--|-------------------|--|--|-------------------|--|-----------------|-----------|--|
| | | <p>Note: The file name pattern above assumes that NO model was associated with the image used for command stack generation.</p> <p>If the memory image used has a model associated, than the fields N_NoModel_NoModel will change to reflect the CT name, ID and Version of the used Configuration Table.</p> | | | | | | | | | | | | | | | | | | | | | |
| | | <p>File name example:</p> <p>- No model associated to the memory image: CDMEE1PB_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045</p> <p>- CT CDMEE1PB1, ID 0003, Version 001 associated to the memory image: CDMEE1PB_DI_0002001_C_CDMEE1PB1_0003001_2008_148T093320.sun045</p> | | | | | | | | | | | | | | | | | | | | | |
| 4.2 | | Check memory dump command stack loaded | | | | | | | | | | | | | | | | | | | | | |
| | | <p>For a full CDMU PM EEPROM1 ('Imagel') dump (Memory ID = 008 included in the address):</p> <p>Start Address = 0080.0000 hex End Address = 008F.FFFF hex Length = 100000 hex</p> | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Note: For a full dump of CDMU EEPROM1, the stack will contain 17 TCs DC602180, covering the address range 0080.0000 hex to 008F.FFFF hex</p> | | | | | | | | | | | | | | | | | | | | | |
| | | Check that loaded stack contains one or several TCs DC602180 . | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the DC602180 command(s) is set to 008 hex:</p> <p>Memory ID = 008 hex</p> <p>Note: The Memory ID of the target memory device is stored in the most significant 12 bits of the 16-bit long Mem ID TC parameter. The least significant 4 bits of the same parameter carry the most significant 4 bits of the Start Address.</p> | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Execute Telecommand</p> <p style="text-align: right;">DumpMem_AbsAddr</p> <p>DC602180</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Memory_ID</td> <td style="width: 20%;">DH003180</td> <td style="width: 20%;">008x <hex></td> <td style="width: 30%;"></td> </tr> <tr> <td>Start_Address</td> <td>DH004180</td> <td><hex> (Def)</td> <td></td> </tr> <tr> <td>N</td> <td>DH105180</td> <td><hex> (Def)</td> <td></td> </tr> </table> <p>TC Control Flags :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;">GBM IL DSE</td> <td style="width: 50%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">--Y -- ---</td> <td></td> </tr> </table> <p>Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses This Telecommand will not be included in the export</p> | Memory_ID | DH003180 | 008x <hex> | | Start_Address | DH004180 | <hex> (Def) | | N | DH105180 | <hex> (Def) | | | GBM IL DSE | | | --Y -- --- | | DC602180 | TC | |
| Memory_ID | DH003180 | 008x <hex> | | | | | | | | | | | | | | | | | | | | | |
| Start_Address | DH004180 | <hex> (Def) | | | | | | | | | | | | | | | | | | | | | |
| N | DH105180 | <hex> (Def) | | | | | | | | | | | | | | | | | | | | | |
| | GBM IL DSE | | | | | | | | | | | | | | | | | | | | | | |
| | --Y -- --- | | | | | | | | | | | | | | | | | | | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|----------|------|---|--------|-----------------|-------------|
| 5 | | Dump the EEPROM1 memory area | | Next Step: 6 | |
| 5.1 | | MCS OBSM preparation for Image monitor in LIVE mode | | | |
| | | Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure. | | | |
| 5.1.1 | | Select 'Image MONITOR' from the menu | | | |
| | | Select the Image menu of the OBSM Desktop . From the Image menu, select Monitor . The 'Image Catalog' window opens. | | | |
| 5.1.2 | | Select image to be monitored | | | |
| 5.1.2.1 | | IF CDMU PM A | | | |
| | | Select the image to be monitored for the memory device CDMEE1PG . The 'Image MONITOR' window opens. | | | |
| 5.1.2.2 | | ELSE CDMU PM B | | | |
| | | Select the image to be monitored for the memory device CDMEE1PB . The 'Image MONITOR' window opens. | | | |
| 5.1.3 | | Start dump TM processing | | | |
| | | In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection. | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|-----------------|------|---|--------|-------------------|-------------|
| 5.2 | | Command memory dump | | | |
| | | Uplink TCs DC602180 with ARM-GO | | | |
| | | For each command, one or several TM(6,6) packets will be received on ground. | | | |
| 6 | | Verify reception and contents of TM(6,6) | | Next Step: 7 | |
| | | Note: One or several TM(6,6) packets will be received for each memory dump command uplinked. | | | |
| | | Verify Packet Reception Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic : MemDmpAbsAdd APID : 16 Type : 6 Subtype : 6 PI1 : PI2 : | | | |
| 6.1 | | Check OBSM dump packet processing | | | |
| | | Check that the OBSM is processing the incoming memory dump packets. | | | |
| 6.2 | | Check contents of memory dump packets | | | |
| | | Verify that there are NO OBSM reported differences between the memory dump data and the ground image used for monitoring. | | | |
| | | IF there are differences reported by OBSM between the dump data and the ground image, the merged image shall be saved for offline analysis. | | | |
| 7 | | Save merged image | | Next Step: END | |
| | | WAIT for execution completion of the last dump command. | | | |
| | | IF there are mismatches reported by OBSM, save merged image with new ID . | | | |
| | | Conduct off-line analysis of the reported mismatches. | | | |
| End of Sequence | | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|--|------|--|--------|-----------------|-------------|
| <p>TC Seq. Name : OFCP124D (CDMU EEPROM1 dump R) CDMU PM EEPROM1 dump monitor in Retrieval mode</p> <p>TimeTag Type: Sub Schedule ID:</p> <p style="text-align: center;">□</p> | | | | | |
| 8 | | MCS OBSM preparation for Image monitor in RETRIEVAL mode | | Next Step: 9 | |
| | | <p>Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.</p> | | | |
| 8.1 | | Select 'Image MONITOR' from the menu | | | |
| | | <p>Select the Image menu of the OBSM Desktop.</p> <p>From the Image menu, select Monitor.</p> <p>The 'Image Catalog' window opens.</p> | | | |
| 8.2 | | Select image to be monitored | | | |
| 8.2.1 | | IF CDMU PM A | | | |
| | | <p>Select the image to be monitored for the memory device CDMEE1PG.</p> <p>The 'Image MONITOR' window opens.</p> | | | |
| 8.2.1.1 | | ELSE ACC PM B | | | |
| | | <p>Select the image to be monitored for the memory device CDMEE1PB.</p> <p>The 'Image MONITOR' window opens.</p> | | | |
| 8.3 | | Start dump TM packets processing | | | |
| | | Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons . | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|---|------|--|--------|----------------------------------|-------------|
| 9 | | Retrieve and process TM(6,6) packets | | Next Step: 10 | |
| | | Use the STEP button to retrieve and process the TM(6,6) packets, packet by packet and starting from the time shown in the packet time field. | | | |
| | | OR | | | |
| | | Use the PLAY button to retrieve and process the TM(6,6) packets in automated mode. Pressing the PLAY button, the display will start to retrieve and process packets, starting from the time shown in the packet time field. This processing will stop automatically when a packet is received which creation time is greater than the one contained in the end time field. | | | |
| 9.1 | | Check contents of memory dump packets | | | |
| | | Verify that there are NO OBSM reported differences between the memory dump data and the ground image used for monitoring. | | | |
| | | IF there are differences reported by OBSM between the dump data and the ground image, the merged image shall be saved for offline analysis. | | | |
| 10 | | Save merged image | | Next Step: END | |
| | | WAIT for retrieval completion of the last dump packet. | | | |
| | | IF there are mismatches reported by OBSM, save merged image with new ID . | | | |
| | | Conduct off-line analysis of the reported mismatches. | | | |
| End of Sequence | | | | | |
| OFCP124E TC Seq. Name :OFCP124E (CDMU EEPROM2 dump L) CDMU PM EEPROM2 dump monitor in LIVE mode TimeTag Type: B Sub Schedule ID: <input type="checkbox"/> | | | | | |
| 11 | | IF Monitor in LIVE mode type: [If] | | Next Step: THEN 12 ELSE 17 | |
| 12 | | Verify initial conditions | | Next Step: 13 | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|----------|------|---|--------|------------------|-------------|
| | | Check: - CDMU in Operational Mode | | | |
| | | CDMS SOE to confirm CDMU mode | | | |
| 13 | | Manual Stack manipulation Load command stack files for memory dump on Manual Stack | | Next Step: 14 | |
| 13.1 | | Load memory dump command stack | | | |
| | | Select the File -> LoadStack option from the main menu of the Manual Stack window | | | |
| 13.1.1 | | IF CDMU PM A | | | |
| | | Select file CDMEE2PG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/CDMEE2PG as indicated by the OBSM engineer | | | |
| | | IMPORTANT: XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation YYYY_DDD hhmmss - depend on stack generation time machine - depends on the name of the machine used for stack generation | | | |
| | | Note: The file name pattern above assumes that NO model was associated with the image used for command stack generation. If the memory image used has a model associated, than the fields N_NoModel_NoModel will change to reflect the CT name, ID and Version of the used Configuration Table. | | | |
| | | File name example: - No model associated to the memory image: CDMEE2PG_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045 - CT CDMEE2PG1, ID 0003, Version 001 associated to the memory image: CDMEE2PG_DI_0002001_C_CDMEE2PG1_0003001_2008_148T093320.sun045 | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|----------|------|---|--------|-----------------|-------------|
| 13.1.2 | | ELSE CDMU PM B | | | |
| | | Select file CDMEE2PB_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.machine from directory /home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OBSM/CDMEE2PB as indicated by the OBSM engineer | | | |
| | | IMPORTANT: XXXXYYY = Image ID(X) and Version(Y) - depend on image used for stack generation YYYY_DDD hhmmss - depend on stack generation time machine - depends on the name of the machine used for stack generation | | | |
| | | Note: The file name pattern above assumes that NO model was associated with the image used for command stack generation. If the memory image used has a model associated, than the fields N_NoModel_NoModel will change to reflect the CT name, ID and Version of the used Configuration Table. | | | |
| | | File name example: - No model associated to the memory image: CDMEE2PB_DI_0002001_N_NoModel_NoModel_2008_133T123300.sun045 - CT CDMEE2PB1, ID 0003, Version 001 associated to the memory image: CDMEE2PB_DI_0002001_C_CDMEE2PB1_0003001_2008_148T093320.sun045 | | | |
| 13.2 | | Check memory dump command stack loaded | | | |
| | | For a full CDMU PM EEPROM2 ('Image2') dump (Memory ID = 009 included in the address): Start Address = 0090.0000 hex End Address = 009F.FFFF hex Length = 100000 hex | | | |
| | | Note: For a full dump of CDMU EEPROM2, the stack will contain 17 TCs DC602180, covering the address range 0090.0000 hex to 009F.FFFF hex | | | |
| | | Check that loaded stack contains one or several TCs DC602180 . | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment | | | | | | | | | | | | | | | |
|----------------------|----------|--|------------------|------------------|-------------|----------------------|----------|-------------|----------|----------|-------------|------------|----|-----|-----|----|-----|----------|----|--|
| | | <p>Display the Manual Stack in 'Full mode' and check that the Memory ID parameter in the DC602180 command(s) is set to 009 hex:</p> <p>Memory ID = 009 hex</p> <p>Note: The Memory ID of the target memory device is stored in the most significant 12 bits of the 16-bit long Mem ID TM parameter. The least significant 4 bits of the same parameter carry the most significant 4 bits of the Start Address.</p> | | | | | | | | | | | | | | | | | | |
| | | <p>Execute Telecommand</p> <p style="text-align: right;">DumpMem_AbsAddr</p> <p>DC602180</p> <p>Command Parameter(s) :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Memory_ID</td> <td style="width: 20%;">DH003180</td> <td style="width: 10%;">009x <hex></td> </tr> <tr> <td>Start_Address</td> <td>DH004180</td> <td><hex> (Def)</td> </tr> <tr> <td>N</td> <td>DH105180</td> <td><hex> (Def)</td> </tr> </table> <p>TC Control Flags :</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">GBM</td> <td style="width: 20%;">IL</td> <td style="width: 10%;">DSE</td> </tr> <tr> <td>--Y</td> <td>--</td> <td>---</td> </tr> </table> <p>Subsch. ID : 10 Det. descr. : Dump Memory Using Absolute Addresses This Telecommand will not be included in the export</p> | Memory_ID | DH003180 | 009x <hex> | Start_Address | DH004180 | <hex> (Def) | N | DH105180 | <hex> (Def) | GBM | IL | DSE | --Y | -- | --- | DC602180 | TC | |
| Memory_ID | DH003180 | 009x <hex> | | | | | | | | | | | | | | | | | | |
| Start_Address | DH004180 | <hex> (Def) | | | | | | | | | | | | | | | | | | |
| N | DH105180 | <hex> (Def) | | | | | | | | | | | | | | | | | | |
| GBM | IL | DSE | | | | | | | | | | | | | | | | | | |
| --Y | -- | --- | | | | | | | | | | | | | | | | | | |
| 14 | | Dump the EEPROM2 memory area | | Next Step: 15 | | | | | | | | | | | | | | | | |
| 14.1 | | MCS OBSM preparation for Image monitor in LIVE mode | | | | | | | | | | | | | | | | | | |
| | | <p>Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure.</p> | | | | | | | | | | | | | | | | | | |
| 14.1.1 | | Select 'Image MONITOR' from the menu | | | | | | | | | | | | | | | | | | |
| | | <p>Select the Image menu of the <i>OBSM Desktop</i>.</p> <p>From the Image menu, select Monitor.</p> <p>The 'Image Catalog' window opens.</p> | | | | | | | | | | | | | | | | | | |
| 14.1.2 | | Select image to be monitored | | | | | | | | | | | | | | | | | | |
| 14.1.2.1 | | IF CDMU PM A | | | | | | | | | | | | | | | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|----------------|------|---|--------|------------------|-------------|
| | | Select the image to be monitored for the memory device CDMEE2PG . The 'Image MONITOR' window opens. | | | |
| 14.1.1.2. 2 | | ELSE CDMU PM B | | | |
| | | Select the image to be monitored for the memory device CDMEE2PB . The 'Image MONITOR' window opens. | | | |
| 14.1.1.3 | | Start dump TM processing | | | |
| | | In LIVE mode, processing of incoming real-time telemetry starts automatically after the image selection. | | | |
| 14.2 | | Command memory dump Uplink TCs DC602180 with ARM-GO | | | |
| | | For each command, one or several TM(6,6) packets will be received on ground. | | | |
| 15 | | Verify reception and contents of TM(6,6) | | Next Step: 16 | |
| | | Note: One or several TM(6,6) packets will be received for each memory dump command uplinked. | | | |
| | | Verify Packet Reception Memory Dump - Absolute Addresses - SAU 8 Packet Mnemonic : MemDmpAbsAdd APID : 16 Type : 6 Subtype : 6 PI1 : PI2 : | | | |
| 15.1 | | Check OBSM dump packet processing | | | |
| | | Check that the OBSM is processing the incoming memory dump packets. | | | |
| 15.2 | | Check contents of memory dump packets | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|--|------|---|--------|-------------------|-------------|
| | | Verify that there are NO OBSM reported differences between the memory dump data and the ground image used for monitoring. | | | |
| | | IF there are differences reported by OBSM between the dump data and the ground image, the merged image shall be saved for offline analysis. | | | |
| 16 | | Save merged image | | Next Step: END | |
| | | WAIT for execution completion of the last dump command. | | | |
| | | IF there are mismatches reported by OBSM, save merged image with new ID . | | | |
| | | Conduct off-line analysis of the reported mismatches. | | | |
| End of Sequence TC Seq. Name : OFCP124F (CDMU EEPROM2 dump R) CDMU PM EEPROM2 dump monitor in Retrieval mode TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | | |
| 17 | | MCS OBSM preparation for Image monitor in RETRIEVAL mode | | Next Step: 18 | |
| | | Note: It is assumed that the OBSM application is already running and the OBSM Desktop is displayed on the MCS client. Starting the OBSM application is not covered by the current procedure. | | | |
| 17.1 | | Select 'Image MONITOR' from the menu | | | |
| | | Select the Image menu of the OBSM Desktop . From the Image menu, select Monitor . The 'Image Catalog' window opens. | | | |
| 17.2 | | Select image to be monitored | | | |
| 17.2.1 | | IF CDMU PM A | | | |

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| Monitor dump of CDMU PM EEPROM memory area File: H_FCP_OBS_1242.xls Author: lstefanov-hp |  |
|--|--|

| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|----------|------|---|--------|-------------------|-------------|
| | | Select the image to be monitored for the memory device CDMEE2PG . The 'Image MONITOR' window opens. | | | |
| 17.2.1.1 | | ELSE ACC PM B | | | |
| | | Select the image to be monitored for the memory device CDMEE2PB . The 'Image MONITOR' window opens. | | | |
| 17.3 | | Start dump TM packets processing | | | |
| | | Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons. | | | |
| 18 | | Retrieve and process TM(6,6) packets | | Next Step: 19 | |
| | | Use the STEP button to retrieve and process the TM(6,6) packets, packet by packet and starting from the time shown in the packet time field. | | | |
| | | OR | | | |
| | | Use the PLAY button to retrieve and process the TM(6,6) packets in automated mode. Pressing the PLAY button, the display will start to retrieve and process packets, starting from the time shown in the packet time field. This processing will stop automatically when a packet is received which creation time is greater than the one contained in the end time field. | | | |
| 18.1 | | Check contents of memory dump packets | | | |
| | | Verify that there are NO OBSM reported differences between the memory dump data and the ground image used for monitoring. | | | |
| | | IF there are differences reported by OBSM between the dump data and the ground image, the merged image shall be saved for offline analysis. | | | |
| 19 | | Save merged image | | Next Step: END | |
| | | WAIT for retrieval completion of the last dump packet. | | | |
| | | IF there are mismatches reported by OBSM, save merged image with new ID . | | | |

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|--|--|

| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|-------------------------|------|---|--------|-----------------|-------------|
| | | Conduct off-line analysis of the reported mismatches. | | | |
| End of Sequence | | | | | |
| End of Procedure | | | | | |