

Normal MTL maintenance  
File: H\_FCP\_DHS\_3024.xls  
Author: S. Manganelli



## Procedure Summary

### Objectives

This procedure describes the steps needed to perform one of the following actions related to the Mission Timeline:

- Insert a TC in the MTL;
- Delete TCs from the MTL;
- Delete TCs from the MTL over a time period;
- Acquire a summary or a detailed report;
- Acquire the status of the command schedule.

### Summary of Constraints

Default status of the ASW function "On board Scheduling":  
"Stopped".

When the function is stopped, it does not accept any other telecommands than the:

- Start Function TC(8,1,105);
- Report Function Status TC(8,5,105);
- Reset Command Schedule TC(11,3).

Thus, if the function is stopped this procedure cannot be executed.

### 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

HFD3024E  
HFD3024A  
HFD3024B  
HFD3024C

### Referenced Displays

ANDs	GRDs	SLDs
ZAZAI999		
ZAZ7A999		(None)

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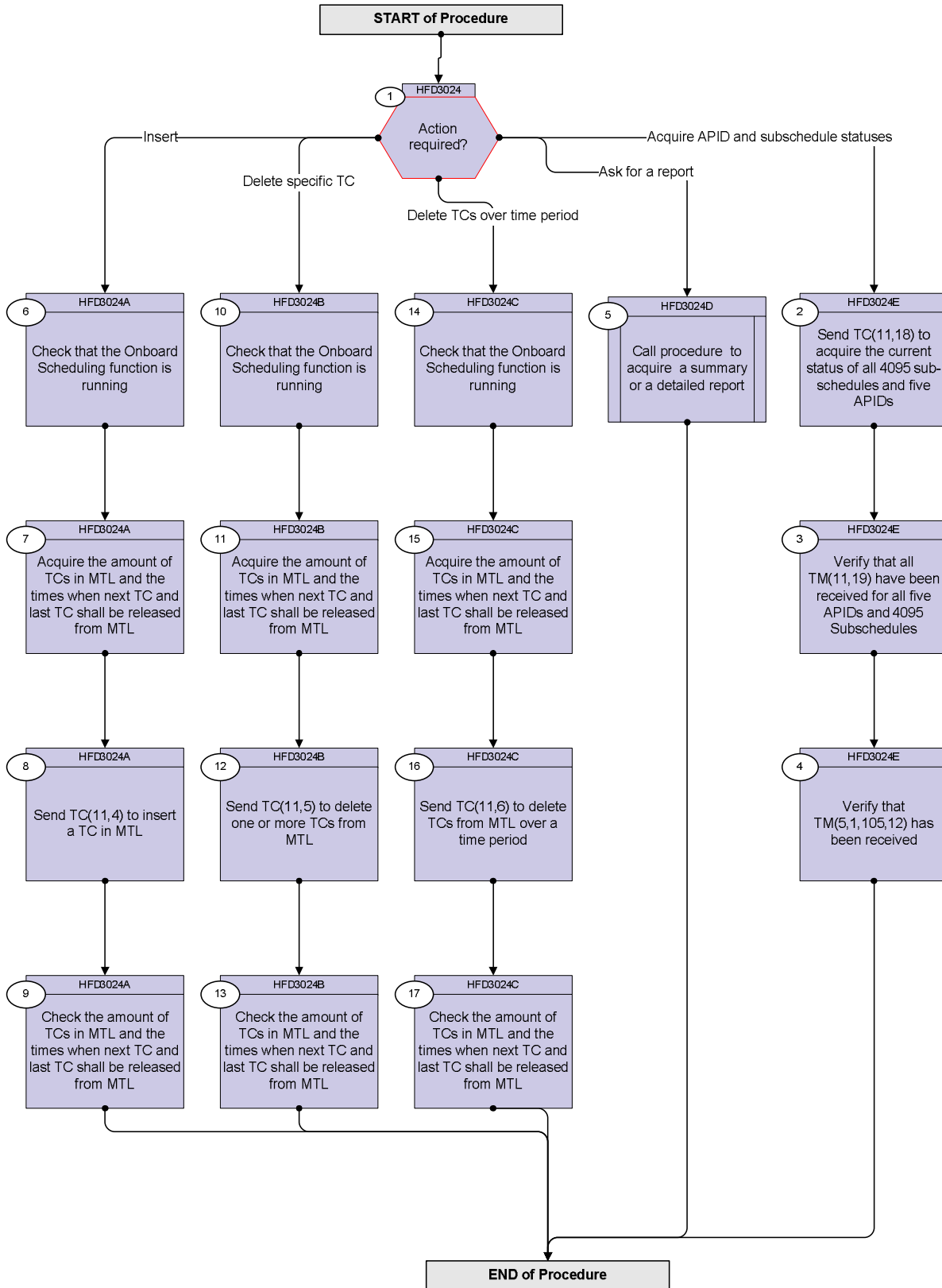
**Configuration Control Information**

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
12/11/07		1	Created	cmevi-hp	
17/01/08	1	2	Batch update of TC flags	S. Manganelli	
23/11/08		3	Updated following industry inputs 16 oct 08	S. Manganelli	
11/12/08		4	Modified sequence names, corrected procedure references	S. Manganelli	
12/01/09	2	5	Updated following OBSW 3_8	S. Manganelli	
20/04/09	2.3	6	Instantiated ESOC TC modified for TC(11,5)	S. Manganelli	
07/10/09	2.5	7	Added step to check the event report issued by ASW after MTL TC deletion	S. Manganelli	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
<p><i>TC Seq. Name :HFD3024 (Dummy sequence)</i></p> <p><i>TimeTag Type:</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		Action required?		Next Step: Acquire APID and subschedule statuses 2 Ask for a report 5 Insert 6 Delete specific TC 10 Delete TCs over time period 14
<p><i>TC Seq. Name :HFD3024E (Sched Status)</i></p> <p><i>TimeTag Type: N</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
2		Send TC(11,18) to acquire the current status of all 4095 sub-schedules and five APIDs		Next Step: 3
		<p><b>When this request is received, a Command Schedule Status Report (set of TM(11,19) packets) will be generated containing the release status (enabled or disabled) of all five Application Processes and of all 4095 Subschedules.</b></p> <p><b>When the dump of TM(11,19) has ended, an Event Report TM(5,1,105,12) indicating the number of reported TM(11,19) is issued.</b></p>		
		Execute Telecommand <div style="text-align: center;">RetStatusOfCmdSchedule</div> TC Control Flags : <div style="text-align: center;">GBM IL DSE --Y -- --</div> Subsch. ID : 10 Det. descr. : ReportStatusOfCmdSchedule, TC(11,18)	DC89F170	
3		Verify that all TM(11,19) have been received for all five APIDs and 4095 Subschedules		Next Step: 4

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception <b>TM 11-19 Command schedule status report - Subschedule and Apid</b> Packet Details: <div style="text-align: right;"> <b>CmdSchStRpt</b>  <b>APID: 16</b>  <b>Type: 11</b>  <b>Subtype: 19</b>  <b>PI1:</b>  <b>PI2:</b> </div>		
3.1		<i>Subschedules status report</i>		☐
		Verify Telemetry <div style="text-align: right;"> <b>N1 DE076170</b> </div>		(None)
		<b>The following 2 parameters are repeated N1 times</b>		
		Verify Telemetry <div style="text-align: right;"> <b>SubscheduleId_A DE075170</b> </div>	1--4095	(None)
		Verify Telemetry <div style="text-align: right;"> <b>SubschedStatus DE078170</b> </div>	Enabled or Disabled	(None)
3.2		<i>APID status report</i>		☐
		Verify Telemetry <div style="text-align: right;"> <b>N2 DE077170</b> </div>		(None)
		<b>The following 2 parameters are repeated N2 times</b>		
		Verify Telemetry <div style="text-align: right;"> <b>Apid DE053170</b> </div>	ACMS/CDMS/HFI/LFI/SCS	(None)
		Verify Telemetry <div style="text-align: right;"> <b>ApidStatus DE079170</b> </div>	Enabled or Disabled	(None)
4		<i>Verify that TM(5,1,105,12) has been received</i>		Next Step: END
		Verify Packet Reception <b>CdmuAsw Event 5-1 TM 11-19 Dump Ended</b> Packet Details: <div style="text-align: right;"> <b>D_EvRp_7042</b>  <b>APID: 16</b>  <b>Type: 5</b>  <b>Subtype: 1</b>  <b>PI1: 26892</b>  <b>PI2: 0</b> </div>		
		Verify Packet Telemetry <div style="text-align: right;"> <b>TM5xEventID DEZSJ170</b> </div>	= Tm11_19_DmpEnd	(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry <b>NrOfTmPktIss</b> <b>DE100170</b>	<b>as many as the number of received TM(11,19) in previous step</b>	(None)
<i>TC Seq. Name :HFD3024D (Report)</i>  <i>TimeTag Type:</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>				
5		<i>Call procedure to acquire a summary or a detailed report</i>		Next Step: END
		<b>Execute procedure H_FCP_DHS_3027.</b>		
<i>TC Seq. Name :HFD3024A (Insert MTL TC)</i>  <i>TimeTag Type: B</i> <i>Sub Schedule ID:</i>  <input type="checkbox"/>				
6		<i>Check that the Onboard Scheduling function is running</i>		Next Step: 7
		Verify Telemetry <b>Mt1Sts</b> <b>DEH26170</b>	<b>= Running</b>	AND=ZAZA1999
7		<i>Acquire the amount of TCs in MTL and the times when next TC and last TC shall be released from MTL</i>		Next Step: 8
		Verify Telemetry <b>Mt1TcCnt</b> <b>DE82F170</b>		AND=ZAZ7A999
		Verify Telemetry <b>Mt1NextTcTime</b> <b>DEA73170</b>		AND=ZAZ7A999
		Verify Telemetry <b>Mt1LastTcTime</b> <b>DEA72170</b>		AND=ZAZ7A999
8		<i>Send TC(11,4) to insert a TC in MTL</i>		Next Step: 9

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>With this command one Telecommand for a certain end-user, identified by its APID, can be added to the onboard Mission Timeline, together with the time of release.</p> <p>When this request is received, the Telecommand in the request shall be checked for consistency with the rest of the MTL and, if no error is detected, it is added to the Command Schedule.</p> <p>The actual size of executable Telecommands is limited to 228 octets (216 octets for the data field) because the data space available to end-users is reduced by the schedule control parameters.</p>		
		<p>In the TC(11,4) it is necessary to set the following parameters:</p> <ul style="list-style-type: none"> <li>- <b>Absolute Time Tag:</b> The Absolute Time Tag is the on-board CUC time of the Central Time Reference, at which the Telecommand packet is to be sent to its Application Process ID.  <b>Note the 16 LSB corresponding to the Fine Time need to be set to 0, otherwise the TC is rejected and a TM(1,2) event is raised with failure code 0x8046.</b></li> <li>- <b>Subschedule ID:</b> The Subschedule Identifier allows to identify a set of Telecommands for one or several Applications/ users, and to distinguish them from the rest of the MTL.</li> <li>- <b>Telecommand Packet:</b> This is a standard Telecommand packet of any Type/Subtype. The source of the Telecommand packet is indicated in the Source Part of the Packet Sequence Control field, its value shall be 010 (i.e. Telecommand from the on-board MTL). The length of this field is defined by the Length-field of the Packet-Header of the Telecommand.</li> </ul>		
		<p>It should never be necessary for ESOC to use the following command because the MCS uses a TC(11,4) (statically configured) everytime a TT command is sent from the command sources.</p>		
		<pre>Execute Telecommand                                 Insert_Tc_InSchedule                                 DC79F170  Command Parameter(s) :     AbsTime           DHA56170    Absolute_time     SubscheduleId     DH053170    Subschedule_ID     Varb1OctetStr     DH060170    Command to be                                 sent in hex  TC Control Flags :                                 GBM IL DSE                                 --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE InsertTcInSchedule, TC(11,4) This Telecommand will not be included in the export</pre>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
9		Check the amount of TCs in MTL and the times when next TC and last TC shall be released from MTL		Next Step: END
		Verify TC count has increased by one <b>MtlTcCnt</b> <b>DE82F170</b>	> previous MTL TC counter reading	AND=ZAZ7A999
<p>TC Seq. Name :HFD3024B (Delete MTL TC)</p> <p>TimeTag Type: B            Sub Schedule ID:  <input type="checkbox"/></p>				
10		Check that the Onboard Scheduling function is running		Next Step: 11
		Verify Telemetry <b>MtlSts</b> <b>DEH26170</b>	= Running	AND=ZAZ7A999
11		Acquire the amount of TCs in MTL and the times when next TC and last TC shall be released from MTL		Next Step: 12
		Verify Telemetry <b>MtlTcCnt</b> <b>DE82F170</b>		AND=ZAZ7A999
		Verify Telemetry <b>MtlNextTcTime</b> <b>DEA73170</b>		AND=ZAZ7A999
		Verify Telemetry <b>MtlLastTcTime</b> <b>DEA72170</b>		AND=ZAZ7A999
12		Send TC(11,5) to delete one or more TCs from MTL		Next Step: 13
		<b>When this request is received, the Telecommand which satisfy the selection criteria defined by the Subschedule-ID, the Application Process ID, the Absolute Time Tag and the Sequence Count shall be deleted as well as the [Number of Telecommands-1] Telecommands that follow in the identified subschedule.</b>		



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>In the TC(11,5) it is necessary to set the following parameters:</p> <ul style="list-style-type: none"> <li>- <b>Subschedule-ID:</b> The Subschedule Identifier identifies a set of Telecommands for one or several Applications/users. In this TC, Subschedule-ID identifies the subschedule to which belongs a telecommand sequence that shall be deleted. <b>If SSID=0, TCs belonging to any Subschedule are deleted</b></li> <li>- <b>Application-ID:</b> The APID identifies the Application affected. In this TC, APID identifies the destination Application Process of the first Telecommand packet belonging to the sequence that shall be deleted.</li> <li>- <b>Absolute Time Tag:</b> The Absolute Time Tag indicates the date of release (in CTR) of the first Telecommand packet belonging to the sequence that shall be deleted.</li> </ul>		
		<ul style="list-style-type: none"> <li>- <b>Sequence Count:</b> The Sequence Count is the Packet Sequence Control field of the first Telecommand packet belonging to the sequence that shall be deleted. As a consequence to the allocation for Source Part of the Packet Sequence Control field, its five first bits shall be 11010b.</li> </ul> <p><b>The instantiated ESOC TC is built so that the sequence count to be used is the one read for that TC in the OBQD display.</b></p> <ul style="list-style-type: none"> <li>- <b>Number of Telecommands:</b> The number of (successive in date of release order) Telecommand packets that shall be deleted from the specified MTL subschedule (regardless of their destination APID).</li> </ul>		
		<pre> Execute Telecommand                                 DelSetOfCdmsTCs_Templ Command Parameter(s) :       N_Repetition                XH006999       SubscheduleId               XH007999       Apid                        XH009999       Absolute Time-Tag           XH023999       SeqCnt-counter              XH022999       NrOfTcs                     XH013999 TC Control Flags :                                 GBM IL DSE                                 --Y -- --- Subsch. ID : 30           </pre>	XC009999	
		<p>Det. descr. : TEMPLATE DeleteSetOf Cdms TCs TC(11,5)          This Telecommand will not be included in the export          or the following command if no valid TCO is available</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand  DelSetOfCdmsTCs_Templ  Command Parameter(s) : N_Repetition          XH306991 SubscheduleId      XH307991 Apid                  XH305991 Coarse Time          XH310991 Fine Time              XH311991 SeqCnt-counter      XH295991 NrOfTcs              XH303991  TC Control Flags : GBM IL DSE --Y -- ---	XC325991  1 <dec> (Def) SSId for all TC APID of 1st TC CoarsT of 1st TC always 0000 for1stTC (OBQD) NrofTC to be del	
		Subsch. ID : 30 Det. descr. : TEMPLATE DeleteSetOf Cdms TCs TC(11,5) This Telecommand will not be included in the export		
12.1		Check deletion event report		<input type="checkbox"/>
		Verify Packet Reception CdmuAsw Event 5-1 MTL Delete TC Success Packet Details: APID:      16 Type:       5 Subtype:   1 PI1:      26900 PI2:       0	D_EvRp_365	
		Verify Packet Telemetry (Pkt = D_EvRp_365)  SSC APID16      XM920991		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  PktType       XM922991		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  PktStype      XM923991		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  Function_ID      DE008170		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  TM5xEventID      DEZSJ170		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  LsbEvtId       DE098170		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  SID              DE010170		
		Verify Packet Telemetry (Pkt = D_EvRp_365)  NrOfTcDeleted      DEV00170	The number of TCs actually deleted on board	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_365)  EventSeqCounter      DE069170		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
13		Check the amount of TCs in MTL and the times when next TC and last TC shall be released from MTL		Next Step: END
		Verify TC count has increased by one <b>MtlTcCnt</b> <b>DE82F170</b>	< previous MTL TC counter reading	AND=ZAZ7A999
<p>TC Seq. Name :HFD3024C (Del MTLTC over time )</p> <p>TimeTag Type: B            Sub Schedule ID:  <input type="checkbox"/></p>				
14		Check that the Onboard Scheduling function is running		Next Step: 15
		Verify Telemetry <b>MtlSts</b> <b>DEH26170</b>	= Running	AND=ZAZ7A999
15		Acquire the amount of TCs in MTL and the times when next TC and last TC shall be released from MTL		Next Step: 16
		Verify Telemetry <b>MtlTcCnt</b> <b>DE82F170</b>		AND=ZAZ7A999
		Verify Telemetry <b>MtlNextTcTime</b> <b>DEA73170</b>		AND=ZAZ7A999
		Verify Telemetry <b>MtlLastTcTime</b> <b>DEA72170</b>		AND=ZAZ7A999
16		Send TC(11,6) to delete TCs from MTL over a time period		Next Step: 17
		<b>When this request is received, the specified Telecommands between Time Tag 1 and Time Tag 2 are deleted from the Command Schedule.</b>		
		<b><u>WARNING: the following TC is a variable length TC which does not allow the definition of a generic procedure. The following is therefore only an example.</u></b>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>In the TC(11,6) it is necessary to set the following parameters:</p> <ul style="list-style-type: none"> <li>- <b>Time Tag 1:</b> All Telecommands selected by APID and Sub Schedule-ID with an execution time equal or larger than Time Tag 1, up to including Time Tag 2, shall be deleted.</li> <li>- <b>Time Tag 2:</b> Time Tag 2 determines the latest absolute time for which Telecommands shall be deleted from the current MTL.</li> <li>- <b>Subschedule ID:</b> The Subschedule Identifier allows to identify a set of Telecommands for one or several Applications/users that shall be deleted. If Telecommands from all Subschedule shall be deleted, this field shall be set to zero.</li> <li>- <b>N:</b> This field specifies the number of Applications for which a sequence of Telecommands shall be deleted. If N is set to zero all Telecommands between Time Tag 1 and 2 (for the identified Subschedule) shall be deleted.</li> <li>- <b>Application Process ID:</b> The APID is the identification of the destination Application Process from which Telecommands are to be deleted.</li> </ul> <p><b>WARNING: the following TCs are intended to be just examples.</b></p>		
16.1		Delete in all Subschedules and for all APID		□
		<pre>Execute Telecommand                                 DeleteTcs_OverTimePeriod                                 DC82F170  Command Parameter(s) :       AbsTime           DHA56170      Absolute_time_1       AbsTime2          DHA61170      Absolute_time_2       SubscheduleId     DH053170      0 &lt;dec&gt; (Def)       N_Repetition      DH041170      0 &lt;dec&gt;  TC Control Flags :                                 GBM IL DSE                                 --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6) This Telecommand will not be included in the export</pre>		
		or the following command if no valid TCO is available		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b>  Command Parameter(s) : Coarse Time XH027991 Fine Time XH028991 Coarse Time XH027991 Fine Time XH028991 SubscheduleId XH009991 N_Repetition XH008991  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10  Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6) This Telecommand will not be included in the export	XC315991  start coarse time always 0000 end coarse time always 0000 0 <dec> (Def) 0 <dec>	
16.2		Delete in all Subschedules for a specific APID		<input type="checkbox"/>
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b>  Command Parameter(s) : AbsTime DHA56170 AbsTime2 DHA61170 SubscheduleId DH053170 N_Repetition DH041170 APID_for_TC_11-x DH235170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6)	DC82F170  Absolute_time_1 Absolute_time_2 0 <dec> (Def) 1 <dec> (Def) Apid	
		This Telecommand will not be included in the export or the following command if no valid TCO is available		
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b>  Command Parameter(s) : Coarse Time XH027991 Fine Time XH028991 Coarse Time XH027991 Fine Time XH028991 SubscheduleId XH009991 N_Repetition XH008991 Apid XH010991  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6) This Telecommand will not be included in the export	XC315991  start coarse time always 0000 end coarse time always 0000 0 <dec> (Def) 1 <dec> (Def) APID of deleted TC	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
16.3		Delete in a specific Subschedule		<input type="checkbox"/>
16.3.1		All APIDs		<input type="checkbox"/>
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b> Command Parameter(s) : AbsTime                  DHA56170 AbsTime2                DHA61170 SubscheduleId          DH053170 N_Repetition           DH041170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6) This Telecommand will not be included in the export	DC82F170  Absolute_time_1 Absolute_time_2 Subschedule_ID 0 <dec>	
		or the following command if no valid TCO is available		
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b> Command Parameter(s) : Coarse Time              XH027991 Fine Time                XH028991 Coarse Time              XH027991 Fine Time                XH028991 SubscheduleId          XH009991 N_Repetition           XH008991 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6) This Telecommand will not be included in the export	XC315991  start coarse time always 0000 end coarse time always 0000 any 0 <dec>	
16.3.2		A specific APID for a specific Subschedule		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b>	DC82F170	
		Command Parameter(s) : AbsTime                  DHA56170 AbsTime2                DHA61170 SubscheduleId          DH053170 N_Repetition            DH041170 APID_for_TC_11-x      DH235170  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6)	Absolute_time_1 Absolute_time_2 Subschedule_ID 1 <dec> (Def) Apid	
		This Telecommand will not be included in the export		
		or the following command if no valid TCO is available		
		Execute Telecommand <b>DeleteTcs_OverTimePeriod</b>	XC315991	
		Command Parameter(s) : Coarse Time              XH027991 Fine Time                XH028991 Coarse Time              XH027991 Fine Time                XH028991 SubscheduleId          XH009991 N_Repetition            XH008991 Apid                      XH010991  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : TEMPLATE DeleteTcsOverTimePeriod, TC(11,6) This Telecommand will not be included in the export	start coarse time always 0000 end coarse time always 0000 any 1 <dec> (Def) APID of deleted TC	
16.4		Check deletion event report		<input type="checkbox"/>
		Verify Packet Reception <b>CdmuAsw Event 5-1 MTL Delete TC Success</b>	D_EvRp_365	
		Packet Details: APID:      16 Type:      5 Subtype:   1 PI1:      26900 PI2:      0		
		Verify Packet Telemetry (Pkt = D_EvRp_365)		
		<b>SSC APID16                  XM920991</b>		
		Verify Packet Telemetry (Pkt = D_EvRp_365)		
		<b>PktType                      XM922991</b>		
		Verify Packet Telemetry (Pkt = D_EvRp_365)		
		<b>PktStype                      XM923991</b>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = D_EvRp_365) <b>Function_ID</b> DE008170		
		Verify Packet Telemetry (Pkt = D_EvRp_365) <b>TM5xEventID</b> DEZSJ170		
		Verify Packet Telemetry (Pkt = D_EvRp_365) <b>LsbEvtId</b> DE098170		
		Verify Packet Telemetry (Pkt = D_EvRp_365) <b>SID</b> DE010170		
		Verify Packet Telemetry (Pkt = D_EvRp_365) <b>NrOfTcDeleted</b> DEV00170		<b>The number of TCs actually deleted on board</b> (None)
		Verify Packet Telemetry (Pkt = D_EvRp_365) <b>EventSeqCounter</b> DE069170		
17		<i>Check the amount of TCs in MTL and the times when next TC and last TC shall be released from MTL</i>		Next Step: END
		Verify TC count has decreased <b>MtlTcCnt</b> DE82F170	< previous MTL TC counter	AND=ZAZ7A999
<b>End of Procedure</b>				