

Nominal TRANSMIT/STORAGE settings  
 File: H\_FCP\_DHS\_1003.xls  
 Author: S. Manganelli



## Procedure Summary

### Objectives

Dedicated procedure to be used any time the standard Xmit Storage settings have to be reinforced (policy change, on-board reconfiguration)

### Summary of Constraints

No strong constraint. To be noted that for a short time some packets may be routed to packet store 0

### Spacecraft Configuration

**Start of Procedure**

Initial transmit/storage configuration (service 14)

**End of Procedure**

Modified transmit/storage configuration

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

HFD1003

### Referenced Displays

ANDs      GRDs      SLDs

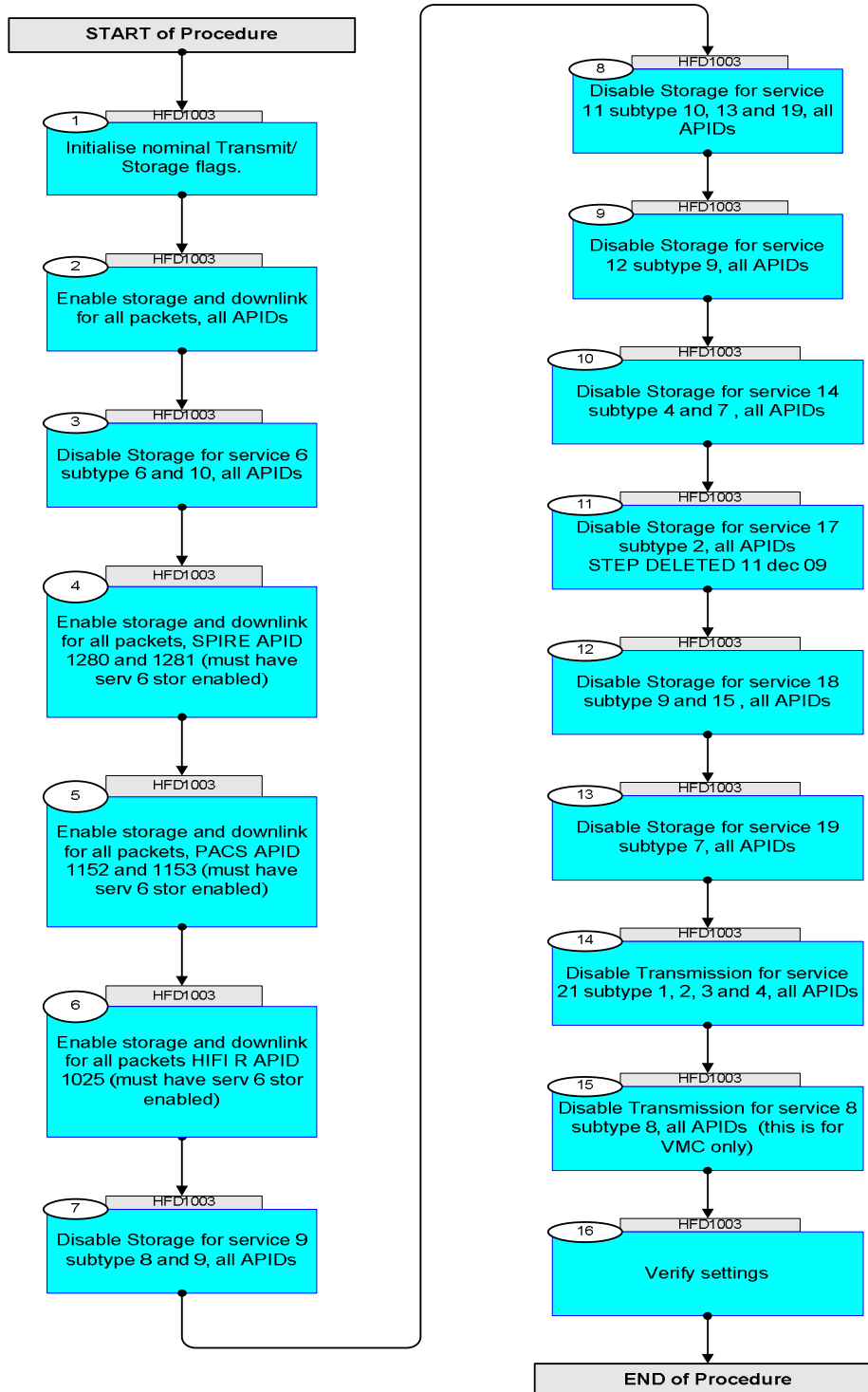
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
26/11/2007		1	Created	cmevi-hp	
16/01/2008		2	Batch update of TC flags	S. Manganelli	
11/02/2008		3	Updated with disable TRANSMIT for APIDs 1158 and 1159.	cmevi-hp	
29/04/2008		4	Disabling transmission of TM(8,8) added.	cmevi-hp	
02/06/2008		5	Command to disable transmission of APIDs 1158 and 1159 removed (NCR-3746 supposed to be fixed).	cmevi-hp	
13/06/2008		6	Title added, DB check	S. Manganelli	
26/06/2008		7	Added TM checks	S. Manganelli	
24/07/2008	1	8	Storage enabled for APIDs 1152 and 1153.	cmevi-hp	
15/09/2008		9	Commands updated according to OBSW 3.6 changes.	cmevi-hp	
28/09/2008		10	Procedure modified according to OBSW 3.6 updates.	cmevi-hp	
10/11/2008		11	Split in different steps, one per TC	S. Manganelli	
18/12/2008	2	12	DB checked. Sequence exported.	cmevi-hp	
11/12/2009	3	13	Deleted content of step 10 to allow storage of TM(17,2)	S. Manganelli	
05/10/2010	3.1	14	Added step (now 6) to enable service 6 storage for HIFI redundant	S. Manganelli	

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### Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
<b>Beginning of Procedure</b>					
TC Seq. Name :HFD1003 ( Nominal TRA/STO flag )  HFD1003  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>					
1		Initialise nominal Transmit/Storage flags.		Next Step: 2	
		Execute Telecommand <div style="text-align: right;"><b>RepDownlinkTMStorage</b></div> TC Control Flags : <div style="text-align: right;">GBM IL DSE --Y -- ---</div> Subsch. ID : 10 Det. descr. : Report Telemetry Packets Down-linking/ Storage Status	DC141160	TC	
		Verify Packet Reception  Telemetry Packets DownLinking-Storage Status Report Packet Mnemonic : (14,7)-1400 APID : 16 Type : 14 Subtype : 7 PI1 : PI2 :			
		DE042160	N	<input type="checkbox"/>	PKT=(14,7)-1400
		DE047160	APID	<input type="checkbox"/>	PKT=(14,7)-1400
		DE043160	Type	<input type="checkbox"/>	PKT=(14,7)-1400
		DE046160	Sub-Type	<input type="checkbox"/>	PKT=(14,7)-1400
		DE048160	Transmit_Flag	<input type="checkbox"/>	PKT=(14,7)-1400
		DE049160	Storage_Flag	<input type="checkbox"/>	PKT=(14,7)-1400
2		Enable storage and downlink for all packets, all APIDs		Next Step: 3	
		Execute Telecommand <div style="text-align: right;"><b>SelDownlinkTMStorage</b></div> Command Parameter(s) : <div style="text-align: right;">N            DH019160    1 &lt;dec&gt; (Def)              Application_ID    DH058160    0 &lt;dec&gt;                              Type            DH020160    0 &lt;dec&gt;                              Sub-Type        DH021160    0 &lt;dec&gt;                      Keep_Transmit    DH070160    Update                      Transmit_Flag    DH059160    ENABLED                      Keep_Storage     DH071160    Update                      Storage_Flag     DH060160    ENABLED</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE</div>	DC140160	TC	

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		<p style="text-align: right;">--Y -- ---</p> <p>Subsch. ID : 10            Det. descr. : Select Down-linking/ Storage of Telemetry Packets</p>																																																			
3		<p>Disable Storage for service 6 subtype 6 and 10, all APIDs</p>		Next Step: 4																																																	
		<p>Execute Telecommand</p> <p style="text-align: center;"><b>SelDownlinkTMStorage</b></p> <p style="text-align: center;">DC140160</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>N</td><td>DH019160</td><td>2 &lt;dec&gt;</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>6 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>6 &lt;dec&gt;</td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>DISABLED</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>6 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>10 &lt;dec&gt;</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>DISABLED</td></tr> </table> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10            Det. descr. : Select Down-linking/ Storage of Telemetry Packets</p>	N	DH019160	2 <dec>	Application_ID	DH058160	0 <dec>	Type	DH020160	6 <dec>	Sub-Type	DH021160	6 <dec>	Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	DISABLED	Application_ID	DH058160	0 <dec>	Type	DH020160	6 <dec>	Sub-Type	DH021160	10 <dec>				Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	DISABLED		TC	
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4		<p>Enable storage and downlink for all packets, SPIRE APID 1280 and 1281 (must have serv 6 stor enabled)</p>		Next Step: 5																																																	
		<p>Execute Telecommand</p> <p style="text-align: center;"><b>SelDownlinkTMStorage</b></p> <p style="text-align: center;">DC140160</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>N</td><td>DH019160</td><td>2 &lt;dec&gt;</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>1280 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>ENABLED</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>1281 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>0 &lt;dec&gt;</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>ENABLED</td></tr> </table> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 10            Det. descr. : Select Down-linking/ Storage of Telemetry Packets</p>	N	DH019160	2 <dec>	Application_ID	DH058160	1280 <dec>	Type	DH020160	0 <dec>	Sub-Type	DH021160	0 <dec>	Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	ENABLED	Application_ID	DH058160	1281 <dec>	Type	DH020160	0 <dec>	Sub-Type	DH021160	0 <dec>				Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	ENABLED		TC	
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5		Enable storage and downlink for all packets, PACS APID 1152 and 1153 (must have serv 6 stor enabled)		Next Step: 6																																																			
		Execute Telecommand <div style="text-align: right; margin-left: 100px;"><b>SelDownlinkTMStorage</b></div> <div style="text-align: right; margin-left: 100px;"><b>DC140160</b></div> Command Parameter(s) : <table style="margin-left: 40px; border: none;"> <tr><td style="padding-right: 20px;">N</td><td style="padding-right: 20px;">DH019160</td><td>2 &lt;dec&gt;</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>1152 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>ENABLED</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>1153 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>0 &lt;dec&gt;</td></tr> <tr><td colspan="3"> </td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>ENABLED</td></tr> </table> TC Control Flags : <table style="margin-left: 40px; border: none;"> <tr><td style="padding-right: 20px;">GBM IL DSE</td></tr> <tr><td>--Y -- ---</td></tr> </table> Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets	N	DH019160	2 <dec>	Application_ID	DH058160	1152 <dec>	Type	DH020160	0 <dec>	Sub-Type	DH021160	0 <dec>	Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	ENABLED	Application_ID	DH058160	1153 <dec>	Type	DH020160	0 <dec>	Sub-Type	DH021160	0 <dec>				Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	ENABLED	GBM IL DSE	--Y -- ---		TC	
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Application_ID	DH058160	1152 <dec>																																																					
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6		Enable storage and downlink for all packets HIFI R APID 1025 (must have serv 6 stor enabled)		Next Step: 7																																																			
		Execute Telecommand <div style="text-align: right; margin-left: 100px;"><b>SelDownlinkTMStorage</b></div> <div style="text-align: right; margin-left: 100px;"><b>DC140160</b></div> Command Parameter(s) : <table style="margin-left: 40px; border: none;"> <tr><td style="padding-right: 20px;">N</td><td style="padding-right: 20px;">DH019160</td><td>1 &lt;dec&gt; (Def)</td></tr> <tr><td>Application_ID</td><td>DH058160</td><td>1025 &lt;dec&gt;</td></tr> <tr><td>Type</td><td>DH020160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Sub-Type</td><td>DH021160</td><td>0 &lt;dec&gt;</td></tr> <tr><td>Keep_Transmit</td><td>DH070160</td><td>Update</td></tr> <tr><td>Transmit_Flag</td><td>DH059160</td><td>ENABLED</td></tr> <tr><td>Keep_Storage</td><td>DH071160</td><td>Update</td></tr> <tr><td>Storage_Flag</td><td>DH060160</td><td>ENABLED</td></tr> </table> TC Control Flags : <table style="margin-left: 40px; border: none;"> <tr><td style="padding-right: 20px;">GBM IL DSE</td></tr> <tr><td>--Y -- ---</td></tr> </table> Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets	N	DH019160	1 <dec> (Def)	Application_ID	DH058160	1025 <dec>	Type	DH020160	0 <dec>	Sub-Type	DH021160	0 <dec>	Keep_Transmit	DH070160	Update	Transmit_Flag	DH059160	ENABLED	Keep_Storage	DH071160	Update	Storage_Flag	DH060160	ENABLED	GBM IL DSE	--Y -- ---		TC																									
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7		Disable Storage for service 9 subtype 8 and 9, all APIDs		Next Step: 8																																																			

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		Execute Telecommand SelDownlinkTMStorage Command Parameter(s) : N                   DH019160 Application_ID    DH058160 Type               DH020160 Sub-Type          DH021160 Keep_Transmit     DH070160 Transmit_Flag     DH059160 Keep_Storage      DH071160 Storage_Flag      DH060160 Application_ID    DH058160 Type               DH020160 Sub-Type          DH021160  Keep_Transmit     DH070160 Transmit_Flag     DH059160 Keep_Storage      DH071160 Storage_Flag      DH060160  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets	DC140160	TC	
8		Disable Storage for service 11 subtype 10, 13 and 19, all APIDs		Next Step: 9	
		Execute Telecommand SelDownlinkTMStorage Command Parameter(s) : N                   DH019160 Application_ID    DH058160 Type               DH020160 Sub-Type          DH021160 Keep_Transmit     DH070160 Transmit_Flag     DH059160 Keep_Storage      DH071160 Storage_Flag      DH060160 Application_ID    DH058160 Type               DH020160 Sub-Type          DH021160  Keep_Transmit     DH070160 Transmit_Flag     DH059160 Keep_Storage      DH071160 Storage_Flag      DH060160 Application_ID    DH058160 Type               DH020160 Sub-Type          DH021160 Keep_Transmit     DH070160 Transmit_Flag     DH059160 Keep_Storage      DH071160 Storage_Flag      DH060160  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets	DC140160	TC	
9		Disable Storage for service 12 subtype 9, all APIDs		Next Step: 10	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: center;"><b>SelDownlinkTMStorage</b></p> <i>Command Parameter(s) :</i> N                  DH019160 Application_ID    DH058160 Type              DH020160 Sub-Type          DH021160 Keep_Transmit    DH070160 Transmit_Flag    DH059160 Keep_Storage     DH071160 Storage_Flag     DH060160  <i>TC Control Flags :</i> <p style="text-align: center;">                          GBM IL DSE</p> <p style="text-align: center;">                          --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : Select Down-linking/ Storage of Telemetry Packets	DC140160	TC	
10		Disable Storage for service 14 subtype 4 and 7 , all APIDs		Next Step: 11	
		Execute Telecommand <p style="text-align: center;"><b>SelDownlinkTMStorage</b></p> <i>Command Parameter(s) :</i> N                  DH019160 Application_ID    DH058160 Type              DH020160 Sub-Type          DH021160 Keep_Transmit    DH070160 Transmit_Flag    DH059160 Keep_Storage     DH071160 Storage_Flag     DH060160 Application_ID    DH058160 Type              DH020160 Sub-Type          DH021160  Keep_Transmit    DH070160 Transmit_Flag    DH059160 Keep_Storage     DH071160 Storage_Flag     DH060160  <i>TC Control Flags :</i> <p style="text-align: center;">                          GBM IL DSE</p> <p style="text-align: center;">                          --Y -- ---</p> <i>Subsch. ID : 10</i> Det. descr. : Select Down-linking/ Storage of Telemetry Packets	DC140160	TC	
11		Disable Storage for service 17 subtype 2, all APIDs STEP DELETED 11 dec 09		Next Step: 12	
12		Disable Storage for service 18 subtype 9 and 15 , all APIDs		Next Step: 13	

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		Execute Telecommand SelDownlinkTMStorage Command Parameter(s) : N                  DH019160 Application_ID      DH058160 Type                DH020160 Sub-Type           DH021160 Keep_Transmit      DH070160 Transmit_Flag      DH059160 Keep_Storage       DH071160 Storage_Flag       DH060160 Application_ID      DH058160 Type                DH020160 Sub-Type           DH021160 Keep_Transmit      DH070160 Transmit_Flag      DH059160 Keep_Storage       DH071160 Storage_Flag       DH060160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets	DC140160	TC	
13		Disable Storage for service 19 subtype 7, all APIDs		Next Step: 14	
		Execute Telecommand SelDownlinkTMStorage Command Parameter(s) : N                  DH019160 Application_ID      DH058160 Type                DH020160 Sub-Type           DH021160 Keep_Transmit      DH070160 Transmit_Flag      DH059160 Keep_Storage       DH071160 Storage_Flag       DH060160 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets	DC140160	TC	
14		Disable Transmission for service 21 subtype 1, 2, 3 and 4, all APIDs		Next Step: 15	
		Execute Telecommand SelDownlinkTMStorage Command Parameter(s) : N                  DH019160 Application_ID      DH058160 Type                DH020160 Sub-Type           DH021160 Keep_Transmit      DH070160 Transmit_Flag      DH059160 Keep_Storage       DH071160 Storage_Flag       DH060160 Application_ID      DH058160 Type                DH020160 Sub-Type           DH021160	DC140160	TC	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Keep_Transmit DH070160 Update Transmit_Flag DH059160 DISABLED Keep_Storage DH071160 Update Storage_Flag DH060160 ENABLED Application_ID DH058160 0 <dec> Type DH020160 21 <dec> Sub-Type DH021160 3 <dec> Keep_Transmit DH070160 Update Transmit_Flag DH059160 DISABLED Keep_Storage DH071160 Update Storage_Flag DH060160 ENABLED Application_ID DH058160 0 <dec> Type DH020160 21 <dec> Sub-Type DH021160 4 <dec> Keep_Transmit DH070160 Update  Transmit_Flag DH059160 DISABLED Keep_Storage DH071160 Update Storage_Flag DH060160 ENABLED  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets			
15		Disable Transmission for service 8 subtype 8, all APIDs (this is for VMC only)		Next Step: 16	
		Execute Telecommand SelDownlinkTMStorage DC140160  Command Parameter(s) : N DH019160 1 <dec> (Def) Application_ID DH058160 0 <dec> Type DH020160 8 <dec> Sub-Type DH021160 8 <dec> Keep_Transmit DH070160 Update Transmit_Flag DH059160 DISABLED Keep_Storage DH071160 Update Storage_Flag DH060160 ENABLED  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Select Down-linking/ Storage of Telemetry Packets		TC	
16		Verify settings		Next Step: END	
		Execute Telecommand RepDownlinkTMStorage DC141160  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 10 Det. descr. : Report Telemetry Packets Down-linking/ Storage Status		TC	

Nominal TRANSMIT/STORAGE settings  
 File: H\_FCP\_DHS\_1003.xls  
 Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception  Telemetry Packets DownLinking-Storage Status Report Packet Mnemonic : (14,7)-1400 APID : 16 Type : 14 Subtype : 7 PI1 : PI2 :			
		Verify Packet Telemetry  N DE042160			
		Verify Packet Telemetry  APID DE047160			
		Verify Packet Telemetry  Type DE043160			
		Verify Packet Telemetry  Sub-Type DE046160			
		Verify Packet Telemetry  Transmit_Flag DE048160			
		Verify Packet Telemetry  Storage_Flag DE049160			
End of Sequence					
<b>End of Procedure</b>					