

## Procedure Summary

Objectives
This Herschel OBSM nominal procedure is used to perform an STR1
or STR2 EEPROM ground image update from memory dump. The
procedure assumes the whole STR EEPROM is dumped, including the
following memory areas:
EAPPL_SW (including the Star Catalogues)
Bad Pixel Table
The ACMS ASW provides a dedicated function for executing STR
memory dumps. This function manages both the collection of data
from the STR and the transmission to the ground through standard
service 6 memory dump packets.
The memory dump is commanded using $TC(8,4,130,125)$ 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.
This procedure is called by the Herschel ACMS procedures
H_FCP_AOC_4S51 and H_FCP_AOC_4S52.
Summary of Constraints
CDMU in Operational Mode
- ACC in Operational Mode
- STR NOT in INI Mode
STR NOT TH THE MOLE
- A maximum of 1536 32-bit words can be dumped with a single STR
memory dump command
- The value of the 'STRSw Nr Words' parameter in the STR memory
dump TC has to be a multiple of 12
- The STR memory is addressed in 32-bit words, while the address
propagation is done at byte level. The start address of any
service 6 TC shall to be a multiple of 4
- STR Main telemetry is part of the essential and mode telemetry
packets. If the STR selected for dump is not configured as MAIN,

packets. If the STR selected for dump is not configured as MAIN, a diagnostic telemetry packet has to be enablen in order to verify the status of the physical unit.

Note: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.

## Spacecraft Configuration

Start of Procedure

CDMU in Operational Mode - ACC in Operational Mode - STR NOT in INI Mode

End of Procedure

Same as start except:

- STR1 and/or STR2 EEPROM dump executed

Reference File(s)

Input Command Sequences

Doc No. :PT-HMOC-OPS-FOP-6001-OPS-OAH Fop Issue : 3.0 Issue Date: 13/04/10



Update STR EEPROM ground image from memory dump File: H\_FCP\_OBS\_2843.xls Author: lstefanov-hp

> Output Command Sequences OFCP284M OFCP2840

> > Referenced Displays

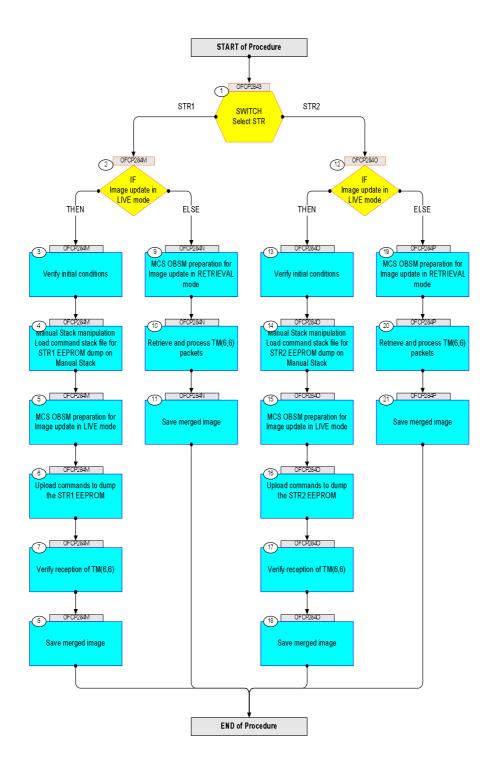
ANDS GRDS SLDS

## Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
02/04/09		1	Created	lstefanov-hp	
03/04/09	2.3	2	1. corrected typo in step 14: RAM replaced by EEPROM	lstefanov-hp	



## Procedure Flowchart Overview





Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Beginning of Procedure			
		TC Seq. Name : OFCP2843 ( STR EEPROM Dmp )			
	OFCP2843	STR EEPROM Gnd image update via memory dump			
		TimeTag Type:			
		Sub Schedule ID:			
1				Next Step:	
Ŧ		SWITCH Select STR		STR1 2 STR2 12	
		type: [Switch]			
		End of Sequence TC Seq. Name : OFCP284M ( STR1 EEPROM GI upd U )			
	OFCP284M	STRI EEPROM Gnd image update in LIVE mode			
		TimeTag Type: B			
		Sub Schedule ID:			
				Next Step:	
2		IF		THEN 3	
		Image update in LIVE mode		ELSE 9	
		type: [If]			
				Next Step:	
3		Verify initial conditions		4	
		Check:			
		- CDMU in Operational Mode			
		- ACC in Operational Mode - STR1 NOT in INI Mode			
		Note: In ACMS mode in which the STR data are used for			
		attitude determination, the STR cannot be in INI mode			
		without triggering FDIR. The procedure can, however be			
		executed also in SAM, in which there is no constraint on the STR mode so that explicit check is necessary to			
		make sure that the download commands will not be			
		rejecteded by the STR.			
		CDMU SOE to confirm CDMU mode			
		AOCS SOE to confirm ACC and STR mode			
		Note:			
		<b>STR Main</b> telemetry is part of the essential and mode telemetry packets. If not configured as MAIN, a			
		diagnostic telemetry packet has to be enabled in order			
		to verify the status of the physical unit. This is executed in calling procedure H_SVT_AOC_4S51			
		or H_SVT_AOC_4S52.			
		Verify Telemetry	C Thitislication	AND-AA01V100	
		STRM Mode AEX04001	<> Initialisation	AND-WANTYINA	
		OR			
		Verify Telemetry			
		Operating Mode AMX12074	<> Initialisation	AND=AA01X109	



|--|

Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch Next Step:	AIT Comment
4		Manual Stack manipulation Load command stack file for STR1 EEPROM dump on Manual Stack		5	
		NOTE: The current procedure assumes that the memory dump in Live mode is performed using commands with immediate execution.			
		Select the File -> <b>LoadStack</b> option from the main menu of the Manual Stack window			
		Select file			
		STR1EEPG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss. machine			
		from directory			
		/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/STRIEEPG			
		as indicated by the OBSM engineer			
		IMPORTANT:			
		XXXXYYYY = 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			
		File name <b>examples</b>			
		- No model associated to the memory image:			
		STR1EEPG_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043			
		- CT STRIEEPG1, ID 0003, Version 001 associated to the memory image:			
		STR1EEPG_DI_0002001_C_STR1EEPG1_0003001_2007_337T09332 0.sun043			
4.1		Check memory dump command stack loaded			
		For a full STR EEPROM dump: Start Address = 0400.0000 hex End Address = 0407.FFDF hex Length = 1FFF8 hex (32-bit words)			
		IMPORTANT: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.			
		I			



Step	Time	Patinity/Demostr	TC / TT 34	Digplow ( Proved	ATT Comment
No.	Time	Activity/Remarks Note:	TC/TLM	Display/ Branch	AIT Comment
		Following steps assume a complete dump of the STR1 EEPROM, including following memory areas:			
		EAPPL_SW (including Star Catalogues) Bad Pixel Table			
		IF one or several other partial dumps of the STR1 EEPROM are commanded, the number of dump TCs, start			
		address and length will be different.			
4.1.1		Check number of memory dump commands in the stack			
		IMPORTANT:			
		A <b>maximum</b> of <b>1536</b> 32-bit <b>words</b> can be dumped with a single STR memory dump command.			
		IMPORTANT: The value of the 'STRSw Nr Words' parameter in TC			
		ACXD1001 has to be always a multiple of 12.			
		Note:			
		For full STR1 EEPROM dump, the stack contains:			
		86 TCs ACXD1001			
4.1.2		Check start address and length of the first dump			
		command in the stack			
		With the Manual Stack in 'Full mode', check the <b>Start</b>			
		Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the first ACXD1001 command:			
		STRSw STR Mem = 0400.0000 hex			
		STRSW SIR Mem - 0400.0000 Hex STRSW Nr Words = 1536 dec (32-bit words)			
		IMPORTANT:			
		The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start			
		address of any service 6 TC shall to be a multiple of			
		4.			
		Execute Telecommand		TC	
		Dump STR software	ACXD1001		
		Command Parameter(s) :			
		ASW Function ID AHFUN001 STRSw AID Cmd AHFXB001	STRSwHandling (Def)		
		STRSW DF86 Cmd AH8U1001 STRSW DD86 Cmd AH8U2001	Dumping (Def) Disable 86 (Def)		
		STRSW STR ID AHFXU001	Disable 86 (Def)		
		STRSw STR Mem AHFXM001 STRSw Nr Words AHFXN001	STR-1 04000000 <hex></hex>		
		TC Control Flags :	1536 <dec></dec>		
		GBM IL DSE			
		Subsch. ID : 20			
		Det. descr. : TC_DUMP_STR_SOFTWARE This Telecommand will not be included in the export			
		This releconnand will not be included in the export			
4.1.3		Check start address and length of the last dump			
4.1.3		command in the stack			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		With the Manual Stack in 'Full mode', check the Start			
		Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the last ACXD1001 command:			
		words parameter, in the last Acabiout command.			
		STRSw STR Mem = 0407.FE00 hex			
		STRSw Nr Words = 120 dec (32-bit words)			
		IMPORTANT:			
		The STR memory is addressed in 32-bit words, while the			
		address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of			
		4.			
		Execute Telecommand		тс	
		Dump STR software	ACXD1001	10	
		Command Parameter(s) : ASW Function ID AHFUN001	STRSwHandling		
		STRSw AID Cmd AHFXB001	(Def)		
		STRSW DF86 Cmd AH8U1001 STRSW DD86 Cmd AH8U2001	Dumping (Def) Disable 86 (Def)		
			Disable 86 (Def)		
		STRSw STR Mem AHFXM001	STR-1		
		STRSw Nr Words AHFXN001	0407FE00 <hex> 120 <dec></dec></hex>		
		TC Control Flags :			
		GBM IL DSE Y			
		Subsch. ID : 20 Det. descr. : TC_DUMP_STR_SOFTWARE			
		This Telecommand will not be included in the export			
5		MCC OPEN memory for Trees unders in I THE rede		Next Step: 6	
5		MCS OBSM preparation for Image update in LIVE mode		0	
		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		Select 'Image UPDATE' from the menu			
5.1		bereet image of barr from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select <b>Update</b> .			
		The 'Image Catalog' window opens.			
5.2		Select image to be updated			
		- •			
		Select the image to be updated for the memory device			
		STR1EEPG.			
		The 'Image UPDATE' window opens.			
				1	
5.3		Start dump TM processing			



Step	min		ma (mr.)	Dignless ( Desert	ATT Company
No.	Time	Activity/Remarks In LIVE mode, processing of incoming real-time	TC/TLM	Display/ Branch	AIT Comment
		telemetry starts automatically after the image			
		selection.			
				Next Step:	
6		Upload commands to dump the STR1 EEPROM		7	
		Uplink the ACXD1001 memory dump commands with ARM-GO			
		After successful execution of each command, 2 TM(6,6)			
		packets shall be received on ground.			
				Novt Stop:	
7		Verify reception of TM(6,6)		Next Step: 8	
		Note:			
		2 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: 512 Type: 6			
		Type: 6 Subtype: 6			
		PI1 :			
		PI2 :			
7.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
		damp packeeb.			
8		Save merged image		Next Step:	
0		Save merged image		END	
		Save merged image with <b>new ID</b> .			
		Sare mergea image with Mew ID.			
		End of Sequence			
	OFCP284N	TC Seq. Name :OFCP284N ( STR1 EEPORM GI upd N ) STR1 EEPROM Gnd image update in Retrieval mode			
		TimeTag Type: Sub Schedule ID:			
0		MCS OPSM preparation for Image undate in DEPETENN		Next Step:	
9		MCS OBSM preparation for Image update in RETRIEVAL mode		10	
		Note:			
		It is assumed that the OBSM application is already			
		running and the OBSM Desktop is displayed on the MCS client.			
		Client. Starting the OBSM application is not covered by the			
		current procedure.			
			·····		



EL M	Cesa
	<b>C</b> 3u

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
NO.	IIme	ACTIVITY/Remarks	IC/ILM	Display/ Branch	All Comment
9.1		Select 'Image UPDATE' from the menu			
<i>J</i> .1		Select image of DATE from the menu			
		Select the Image menu of the OBSM Desktop.			
		From the Image menu, select <b>Update</b> .			
		The 'Image Catalog' window opens.			
		ine image cacarog window opens.			
9.2		Select image to be updated			
5.2		berebe image to be apared			
		Select the image to be updated for the memory device <b>STRIEEPG.</b>			
		The 'Image UPDATE' window opens.			
9.3		Start dump TM packets processing			
		Set retrieval start and stop time and start retrieval			
		of TM packets using the <b>PLAY buttons</b> .			
1.0				Next Step:	
10		Retrieve and process TM(6,6) packets		11	
		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 <b>PLAY</b> 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.			
11		Save merged image		Next Step: END	
		Save merged image with <b>new ID</b> .			
		End of Sequence			
	OFCP284O	<i>TC Seq. Name</i> :OFCP2840 ( STR2 EEPROM GI upd 0 ) STR2 EEPROM Gnd image update in LIVE mode			
		TimeTag Type: B			
		Sub Schedule ID:			



Step					
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
12		IF		Next Step: THEN 13	
		Image update in LIVE mode		ELSE 19	
		type: [If]			
13		Verify initial conditions		Next Step: 14	
		-			
		Check:			
		- CDMU in Operational Mode - ACC in Operational Mode			
		- STR1 NOT in INI Mode			
		Note:			
		In ACMS mode in which the STR data are used for attitude determination, the STR cannot be in INI mode			
		without triggering FDIR. The procedure can, however be			
		executed also in SAM, in which there is no constraint on the STR mode so that explicit check is necessary to			
		make sure that the download commands will not be			
		rejecteded by the STR.			
		CDMU SOE to confirm CDMU mode			
		AOCS SOE to confirm ACC and STR mode			
		Note: STR Main telemetry is part of the essential and mode			
		telemetry packets. If not configured as MAIN, a			
		diagnostic telemetry packet has to be enabled in order to verify the status of the physical unit.			
		This is executed in calling procedure H_SVT_AOC_4S51			
		or H_SVT_AOC_4S52.			
		Verify Telemetry STRM Mode AEX04001	<> Initialisation	AND=AA01X109	
		OR			
		Verify Telemetry			
		Operating Mode AMX12074	<> Initialisation	AND=AA01X109	
				Nort Stop	
14		Manual Stack manipulation		Next Step: 15	
		Load command stack file for STR2 EEPROM dump on Manual			
		Stack			
		NOTE:			
		The current procedure assumes that the memory dump in			
		Live mode is performed using commands with immediate			
		execution.			
		Select the File -> LoadStack option from the main			
		menu of the Manual Stack window			
		Select file			
		STR2EEPG_DI_XXXXYYY_N_NoModel_NoModel_YYYY_DDDThhmmss.			
		machine			
		from directory			
		/home/hmcsops/HPMCS/SESSION/current/data/CMD/STACKS/OB SM/STR2EEPG			
		as indicated by the OBSM engineer			
	l		l	1	



Step					
No.	Time	Activity/Remarks IMPORTANT:	TC/TLM	Display/ Branch	AIT Comment
		XXXXYYYY = Image ID(X) and Version(Y) - depend on image used for stack generation			
		YYYY_DDD hhmmss - depend on stack generation time			
		<pre>machine - depends on the name of the machine used for stack generation</pre>			
		File name <b>examples</b>			
		- No model associated to the memory image:			
		STR2EEPG_DI_0002001_N_NoModel_NoModel_2007_254T123300. sun043			
		- CT STR2EEPG1, ID 0003, Version 001 associated to the memory image:			
		STR2EEPG_DI_0002001_C_STR2EEPG1_0003001_2007_337T09332 0.sun043			
14.1		Charle momente dump gammand starts landst			
14.1		Check memory dump command stack loaded			
		For a full STR EEPROM dump:			
		Start Address = 0400.0000 hex End Address = 0407.FFDF hex Length = 1FFF8 hex (32-bit words)			
		<pre>IMPORTANT: The STR memory is addressed in 32-bit words, while the address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of 4.</pre>			
		Note: Following steps assume a complete dump of the STR1 EEPROM, including following memory areas: EAPPL_SW (including Star Catalogues) Bad Pixel Table			
		IF one or several other partial dumps of the STR1 EEPROM are commanded, the number of dump TCs, start address and length will be different.			
14.1.1		Check number of memory dump commands in the stack			
		Note: A maximum of 1536 32-bit words can be dumped with a single STR memory dump command.			
		IMPORTANT: The value of the 'STRSw Nr Words' parameter in TC ACXD1001 has to be always a multiple of 12.			
		Note: For full STR EEPROM dump, the stack contains: 86 TCs ACXD1001			



	esa
9	

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
14.1.2		Check start address and length of the first dump			
		command in the stack			
		With the Manual Stack in 'Full mode', check the Start			
		Address (STRSw STR Mem parameter) and Length (STRSw Nr Words parameter) in the first ACXD1001 command:			
		STRSw STR Mem = 0400.0000 hex			
		STRSw Nr Words = 1536 dec (32-bit words)			
		IMPORTANT: The STR memory is addressed in 32-bit words, while the			
		address propagation is done at byte level. The start			
		address of any service 6 TC shall to be a multiple of 4.			
		Execute Telecommand Dump STR software	ACXD1001	тс	
		Command Parameter(s) :			
		ASW Function ID AHFUN001 STRSW AID Cmd AHFXB001	STRSwHandling		
		STRSw DF86 Cmd AH8U1001	(Def) Dumping (Def)		
			Disable 86 (Def) Disable 86 (Def)		
		STRSW STR Mem AHFXM001 STRSW Nr Words AHFXN001	STR-2 04000000 <hex></hex>		
			1536 <dec></dec>		
		GBM IL DSE			
		Y			
		Subsch. ID : 20			
		Det. descr. : TC_DUMP_STR_SOFTWARE This Telecommand will not be included in the export			
		-			
14.1.3		Check start address and length of the last dump			
		command in the stack			
		With the Manual Stack in 'Full mode', check the Start Address (STRSw STR Mem parameter) and Length (STRSw Nr			
		Words parameter) in the last ACXD1001 command:			
		STRSw STR Mem = 0407.FE00 hex			
		STRSw Nr Words = 120 dec (32-bit words)			
		<pre>IMPORTANT: The STR memory is addressed in 32-bit words, while the</pre>			
		address propagation is done at byte level. The start address of any service 6 TC shall to be a multiple of			
		4.			
		Execute Telecommand		TC	
		Dump STR software	ACXD1001		
		Command Parameter(s) :			
		ASW Function ID AHFUN001 STRSw AID Cmd AHFXB001	STRSwHandling (Def)		
		STRSW DF86 Cmd AH8U1001 STRSW DD86 Cmd AH8U2001	Dumping (Def) Disable 86 (Def)		
		STRSW STR ID AHFXU001 STRSW STR Mem AHFXM001	Disable 86 (Def) STR-2		
		STRSW SIR Mem AFFAMOUI STRSW Nr Words AHFXN001	0407FE00 <hex></hex>		
		TC Control Flags :	120 <dec></dec>		
		GBM IL DSE Y			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Subsch. ID : 20	10, 121	Didfinit, Dianon	
		Det. descr. : TC_DUMP_STR_SOFTWARE This Telecommand will not be included in the export			
				Next Step:	
15		MCS OBSM preparation for Image update in LIVE mode		16	
		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.			
15.1		Select 'Image UPDATE' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .			
		From the Image menu, select Update.			
		The 'Image Catalog' window opens.			
15.2		Select image to be updated			
		Select the image to be updated for the memory device STR2RMPG.			
		The 'Image UPDATE' window opens.			
15.3		Start dump TM processing			
		In <b>LIVE</b> mode, processing of incoming real-time telemetry starts automatically after the image selection.			
16		Upload commands to dump the STR2 EEPROM		Next Step: 17	
		Uplink the ACXD1001 memory dump commands with ARM-GO			
		After successful execution of each command, 2 TM(6,6) packets shall be received on ground.			
				Next Step:	
17		Verify reception of TM(6,6)		18	
		Note: 2 TM(6,6) packets will be received for each memory dump command uplinked.			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Verify Packet Reception			
		Memory Dump - Absolute Addresses - SAU 8			
		Packet Mnemonic : MemDmpAbsAdd APID : 512			
		Type: 6 Subtype: 6			
		PI1 : PI2 :			
17.1		Check OBSM dump packet processing			
		Check that the OBSM is processing the incoming memory dump packets.			
1.0				Next Step:	
18		Save merged image		END	
		Save merged image with <b>new ID</b> .			
	1	End of Sequence			
	OFCP284P	TC Seq. Name :OFCP284P ( STR2 EEPROM GI upd P ) STR2 EEPROM Gnd image update in Retrieval mode			
		TimeTag Type:			
		Sub Schedule ID:			
				Next Step:	
19		MCS OBSM preparation for Image update in RETRIEVAL mode		20	
		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.			
19.1		Select 'Image UPDATE' from the menu			
		Select the <b>Image</b> menu of the <b>OBSM Desktop</b> .			
		From the Image menu, select <b>Update</b> .			
		The 'Image Catalog' window opens.			
19.2		Select image to be updated			
17.4		berest image to be updated			
		Select the image to be updated for the memory device			
		STR2EEPG.			
		The 'Image UPDATE' window opens.			



Step No.         Time         Activity/Remarks         TC/TLM         Display/ Branch         AIT Comm           19.3         Start dump TM packets processing						
20       Set retrieval start and stop time and start retrieval of TM packets using the PLAY buttons.         20       Retrieve and process TM(6,6) packets         21       21         20       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.         0R       0R         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 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	-	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
of TM packets using the PLAY buttons.       Next Step:         20       Retrieve and process TM(6,6) packets       Next Step:         21       21         20       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.       Next Step:         0R       0R         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	19.3		Start dump TM packets processing			
of TM packets using the PLAY buttons.       Next Step:         20       Retrieve and process TM(6,6) packets       Next Step:         21       21         20       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.       Next Step:         0R       0R         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						
of TM packets using the PLAY buttons.       Next Step:         20       Retrieve and process TM(6,6) packets       Next Step:         21       21         20       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.       Next Step:         0R       0R         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						
of TM packets using the PLAY buttons.       Next Step:         20       Retrieve and process TM(6,6) packets       Next Step:         21       21         20       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.       Next Step:         0R       0R         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						
20       Retrieve and process TM(6,6) packets       Next Step: 21         20       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.       Next Step: 21         0R       0R         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			_			
20       Retrieve and process TM(6,6) packets       21         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.       21         OR       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			of TM packets using the <b>PLAY buttons</b> .			
20       Retrieve and process TM(6,6) packets       21         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.       21         OR       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						
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						
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	20		Retrieve and process TM(6,6) packets		21	
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						
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						
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			Use the STEP button to retrieve and process the			
OR Use the <b>PLAY</b> 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			-			
Use the <b>PLAY</b> 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			the time shown in the packet time field.			
Use the <b>PLAY</b> 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			OR			
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						
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			-			
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			TM(6,6) packets in automated mode.			
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						
stop automatically when a packet is received which creation time is greater than the one contained in the						
creation time is greater than the one contained in the						
end time field.			creation time is greater than the one contained in the			
			end time field.			
North Ober 1					Novt Stop	
21 Save merged image END	21		Save merged image			
Save merged image with <b>new ID</b> .			Save merged image with <b>new ID</b> .			
End of Sequence		I	End of Sequence			

End of Procedure