

Procedure Summary

Objectives

The procedure allows the modification of any set of parameters in the ACMS onboard database.

Summary of Constraints

Spacecraft should be in ground visibility to allow immediate dumping and verification of portions of the OBDB modified by the procedure

Spacecraft Configuration

Start of Procedure

N/A

End of Procedure

Updated ACMS OBDB

Reference File(s)

Input Command Sequences

HFADODDI HVADODDL HVADODDJ HVADODDK

Output Command Sequences

HFADODB1 HFADODB2 HFADODB3 HFADODB4 HFADODB5 HFADODB6 NULLSEQ1 NULLSEQ2 NULLSEQ4 NULLSEQ5

Referenced Displays

ANDS GRDS SLDS ZAD07999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
03/03/09	2.1	1	Created	dsalt-hp	



Procedure Flowchart Overview



esa

🛵 HERSCHEL

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name :HFADODB1 (StartObdbLoad)		
		TimeTag Type: N Sub Schedule ID: 20		
				Next Step:
1		Send TC to Start DB Load		2
		The procedure relies on the database loading mechanism based on the use of two TC's. The updating process is started by sending a TC_START_DATABASE_LOAD. Any number of commands can be issued afterwards to load parameters into a temporary buffer. Instantiated versions used in the procedure correspond to the four parameter types present in the OBDB. The transfer of data to the OBDB takes place only when the fire command is received for the OBDB function. The loading of individual parameters is carried out using instantiated TC's which correspond to the four parameter types allowed by the OBDB.		
1.1		Uplink Sequence HFADODB1		
		<pre>When loading this command sequence on the Manual Stack, it will ask you to enter values for the formal parameters inside the sequence. The formal parameters are: - NrCmds = Number of OBDB load commands that are to be issued in one batch.</pre>		
		Execute Telecommand		
		Start database loading Command Parameter(s) : ASW Function ID AHFUN001 DbLoad DF86 Cmd AH8D1001 DbLoad DD86 Cmd AH8D2001 DbLoad Nr Cmds AHFDL001 TC Control Flags : GBM IL DSE Y Subsch. ID : 20	ACDS1001 DB loading (Def) Enable 86 Enable 86 NrCmds	
		Det. descr. : TC_START_DATABASE_LOAD		
[]			1	1





Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		TC Seq. Name :NULLSEQ0 ()		
		TimeTag Type: Sub Schedule ID:		
2		Parameter Type?		Next Step: INT 3 UINT 4 BOOL 5 REAL 6
		Select type of parameter that is about to be loaded in the onboard database: Signed Integer -> GO TO STEP 3		
		Unsigned Integer -> GO TO STEP 4		
		Boolean -> GO TO STEP 5		
		Real -> GO TO STEP 6		
		TC Sec Name (HEADODR2 (ObdbLoadSignedIntege)		
		TimeTag Type: N Sub Schedule ID: 20 Formal Parameter List : DbLoad StartInd StartInd= DbLoad Dwd SignInt SignInt=	<dec> <dec></dec></dec>	
3		Send Load TC for Signed Int		Next Step: 7
3.1		Uplink Sequence HFADODB2		
		<pre>When loading this command sequence on the Manual Stack, it will ask you to enter values for the formal parameters inside the sequence. The formal parameters are: - StartInd = Index of the OBDB parameter that is about to be loaded. Look up the index in H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 6.2, or use the tables attached at the end of this procedure. - SignInt = Signed integer value of the OBDB parameter that is about to be loaded.</pre>		

HERSCHEL

<dec>

<dec>

Herschel ACMS : Generic OBDB Modification Procedure File: H_FCP_AOC_DODB.xls Author: dsalt-hp

Step

No.

Time



TimeTag Type: N Sub Schedule ID: 20 Formal Parameter List : DbLoad StartInd StartInd= DbLoad Dwd UnsInt UnsigInt=

4	Send Load TC for Unsigned Int	Next Step: 7
4.1	Uplink Sequence HFADODB3	
	<pre>When loading this command sequence on the Manual Stack, it will ask you to enter values for the formal parameters inside the sequence. The formal parameters are: - StartInd = Index of the OBDB parameter that is about to be loaded. Look up the index in H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 6.2, or use the tables attached at the end of this procedure. - UnsigInt = Unsigned integer value of the OBDB parameter that is about to be loaded.</pre>	

esa

HERSCHEL

Herschel ACMS : Generic OBDB Modification Procedure File: H_FCP_AOC_DODB.xls Author: dsalt-hp

Step

No.



5	Send Load Te Tol Boolean	,
5.1	Uplink Sequence HFADODB4	
	<pre>When loading this command sequence on the Manual Stack, it will ask you to enter values for the formal parameters inside the sequence. The formal parameters are: - StartInd = Index of the OBDB parameter that is about to be loaded. Look up the index in H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 6.2, or use the tables attached at the end of this procedure.</pre>	
	- BOOLEAN = BOOLEAN VALUE of the OBDB parameter that is about to be loaded.	



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand Load databaseBoolean Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 DbLoad DD86 Cmd AH8D2001 DbLoad StartInd AHFDS001	ACZTX109 Enable 86 Enable 86 StartInd	
		DbLoad Nr Wrds AHFDN001 DbLoad Dwd Bool AHFDY001 TC Control Flags : GBM IL DSE Y Subsch. ID : 20 Det descr. : TC(8.4) - Load database Boolean	l <dec> (Def) Boolean</dec>	
		TC Seq. Name :HFADODB5 (ObdbLoadReal)		
		TimeTag Type: N Sub Schedule ID: 20		
6		Send Load TC for Real		Next Step: 7
6.1		Uplink Sequence HFADODB5		
		<pre>When loading this command sequence on the Manual Stack, it will ask you to enter values for the formal parameters inside the sequence. The formal parameters are: - StartInd = Index of the OBDB parameter that is about to be loaded. Look up the index in H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 6.2, or use the tables attached at the end of this procedure. - Real = Real value of the OBDB parameter that is about to be loaded.</pre>		
		Execute Telecommand	ACZTY109	
		Command Parameter(s) : DbLoad DF86 Cmd AH8D1001 DbLoad DD86 Cmd AH8D2001 DbLoad StartInd AHFDS001 DbLoad Nr Wrds AHFDN001 DbLoad Dwd Real AHFD2001 TC Control Flags : GBM IL DSE Y Subsch. ID : 20 Det. descr. : TC(8,4) - Load database Real	Enable 86 Enable 86 StartInd 1 <dec> (Def) Real</dec>	

esa

HERSCHEL



Т

Herschel ACMS : Generic OBDB Modification Procedure File: H_FCP_AOC_DODB.xls Author: dsalt-hp

п



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		 CONSTRAINTS: Pre-condition for any diagnostic packet to be enabled is that the spacecraft has to be configured for 150 kbps downlink rate or higher. In 150 kbps downlink rate or higher, 2500 bps is allocated ACMS non-essential telemetry. 		
		Verify Telemetry TME_BITRATE DEMRF160	>= 150 Kbps	AND=ZAD07999
		Packets to be enabled: A3DHOBDB1109 {DTM with Herschel OBDB data1} A3DHOBDB2109 {DTM with Herschel OBDB data2} A3DHOBDB3109 {DTM with Herschel OBDB data3} A3DHOBDB4109 {DTM with Herschel OBDB data4} A3DHOBDB5109 {DTM with Herschel OBDB data5} A3DHOBDB6109 {DTM with Herschel OBDB data6} A3DHOBDB7109 {DTM with Herschel OBDB data7} A3DHOBDB8109 {DTM with Herschel OBDB data8}		
		<pre>Per packet (default settings): Packet size = 8160 bits Interval = 30 s (= 120 sampling periods) Packet rate = 8160 [bits] / 30 [s] = 272 [bps] Total: Total DTM packet rate = 8 * 272 [bps] = 2176 [bps]</pre>		
8.1		Uplink Sequence HFADODDI		
		Execute Sequence HFADODDI ObdbDtmAllEnable v01 Sequence Grouping = - <i>SSID : 0</i>		SEQ
8.2		Verify OBDB DTM Enable		
		Verify Packet Reception DTM with Herschel OBDB datal Packet Details: Type: Subtype: PI1: PI2:	A3DH0BDB1109 514 3 26 4501	



esa

Step					
NO.	Time	Activity/Remarks	TC/TLM	Display/	Branch
		NUTE:			
		with Herschel OBDB datal are spread over a group of 4			
		monitoring displays:			
		ZAZ60999 DTMOBDB1_1			
		ZAZ61999 DTMOBDB1_2			
		ZAZ62999 DTMOBDB1_3			
		ZAZ03999 DIMOBDBI_4			
		Verify Packet Reception	A 2011000000100		
		Packet Details:	ASDRUBDBZIUS		
		APID:	514		
		Type:	3		
		Subtype:	26		
		PI1:	4502		
		PI2:			
		NOTE:			
		The contents of diagnostic packet A3DHUBDB2109 {DTM			
		monitoring displays:			
		monitoring dispidys.			
		ZAZ64999 DTMOBDB2_1			
		ZAZ65999 DTMOBDB2_2			
		ZAZ66999 DTMOBDB2_3			
		ZAZ67999 DTMOBDB2_4			
		Verify Packet Reception			
		DTM with Herschel OBDB data3	A3DH0BDB3109		
		Packet Details:	514		
		Type:	3		
		Subtype:	26		
		PI1:	4503		
		PI2:			
		NOTE:			
		The contents of diagnostic packet A3DHUBDB3109 {DTM			
		monitoring displays:			
		ZAZ68999 DTMOBDB3_1			
		ZAZ69999 DTMOBDB3_2			
		ZAZ6A999 DTMOBDB3_3			
		ZAZ6B999 D'I'MOBDB3_4			
		Venife Deslet Desertion			
		Verily Packet Reception	1100 A 2000 A		
		Packet Details:	AJURUDUD4103		
		APID:	514		
		Type:	3		
		Subtype:	26		
		PI1:	4504		
		PI2:			





Step No.	Time	Activity/Remarks	TC/TLM	Display/	Branch
		NOTE: The contents of diagnostic packet A3DH0BDB4109 {DTM with Herschel OBDB data4} are spread over a group of 4 monitoring displays: ZAZ6C999 DTMOBDB4_1 ZAZ6D999 DTMOBDB4_2 ZAZ6E999 DTMOBDB4_3 ZAZ6F999 DTMOBDB4_4			
		Verify Packet Reception DTM with Herschel OBDB data5 Packet Details: APID: Type: Subtype: PI1: PI2: NOTE: The contents of diagnostic packet A3DH0BDB5109 {DTM with Herschel OBDB data5} are spread over a group of 4 monitoring displays: ZAZ6G999 DTMOBDB5_1 ZAZ6H999 DTMOBDB5_2 ZAZ6J999 DTMOBDB5_3 ZAZ6J999 DTMOBDB5_4	A3DH0BDB5109 514 3 26 4505		
		Verify Packet Reception DTM with Herschel OBDB data6 Packet Details: APID: Type: Subtype: PI1: PI2: NOTE: The contents of diagnostic packet A3DH0BDB6109 {DTM with Herschel OBDB data6} are spread over a group of 4 monitoring displays: ZAZ6K999 DTMOBDB6_1 ZAZ6L999 DTMOBDB6_2 ZAZ6M999 DTMOBDB6_3 ZAZ6N999 DTMOBDB6_4	A3DH0BDB6109 514 3 26 4506		
		Verify Packet Reception DTM with Herschel OBDB data7 Packet Details: APID: Type: Subtype: PI1: P12:	A3DH0BDB7109 514 3 26 4507		



esa

Step No.	Time	Activity/Remarks	TC/TLM	Display/	Branch
		NOTE: The contents of diagnostic packet A3DH0BDB7109 {DTM with Herschel OBDB data7} are spread over a group of 4 monitoring displays:			
		ZAZ60999 DTMOBDB7_1 ZAZ6P999 DTMOBDB7_2 ZAZ6Q999 DTMOBDB7_3 ZAZ6R999 DTMOBDB7_4			
		Verify Packet Reception DTM with Herschel OBDB data8	A3DH0BDB8109		
		Packet Details: APID: Type: Subtype: PI1: PI2:	514 3 26 4508		
		NOTE: The contents of diagnostic packet A3DH0BDB8109 {DTM with Herschel OBDB data8} are spread over a group of 4 monitoring displays:			
		ZAZ65999 DTMOBDB8_1 ZAZ6T999 DTMOBDB8_2 ZAZ6U999 DTMOBDB8_3 ZAZ6V999 DTMOBDB8_4			
		TC Seq. Name :NULLSEQ2 ()			
		TimeTag Type: N Sub Schedule ID:			
9		Verify Update via Memory Dump from RAM		Next Step 10):
		This step dumps the onboard database area in RAM. Modifications are always made in the RAM copy of the onboard database, that's why it is good practise to dump this area before and after doing an onboard database update.			
		BACKGROUND: H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 6.1, contains the table of Herschel onboard database parameters available in RAM. The location of the onboard database in RAM is tied to the location of the ASW_DatabaseManagerObj variable to be found in image.syms file of the software build (under \ACMS\ASW_3.4_b2\Code\OBSP_3_4\B02\AAE\image.syms). Add 12 locations to obtain the offset for the index 0 parameter. Use this as the start address of the dump.			

E



esa

T

Step	mi	h - t - s - s - s - s - s - s - s - s - s		
NO.	TIME	ACTIVITY/REMARKS	TC/TLM	Display/ Branch
		The RAM memory address for a parameter with a given		
		OBDB ID can be calculated as follows:		
		RAM address = OBDB start address + parameter offset;		
		OBDB start address = address of		
		parameter offset = OBDB ID * 4.		
		Parameter ID's are listed in the ASW ICD (H-P-4-TASW-		
		IF-002).		
		Asw_Databasemanager_Obj is an ASW container structure		
		used in the management of the OBDB and its address		
		has to be obtained from the linker memory map valid		
		for the software build currently used onboard.		
		_		
9.1		Prepare OBSM Desktop		
		Descense the ODOM dealter emplication for the memory		
		download, by executing the following steps:		
		-> Open 'OBSM Desktop'		
		-> Select 'Image' in menubar		
		-> Select 'Monitor' in pulldown menu		
		-> New window opens, called 'Image Catalog'		
		-> In the new window, press the 'Device' button in		
		the 'Filter' toolbar (bottom left corner)		
		New window server welled (Device October)		
		-> New Window opens, called 'Device Catalog'		
		-> Select ACCROBDB 'ACC RAM OBDB'. Hit OK.		
		-> Now all available memory images for the selected		
		device appear in the 'Image Catalog'. Select the		
		image that relates to the onboard image that is to		
		list. Hit OK.		
		-> Another window will appear that will display all mismatches between dumped values and the		
		ground image, once the download is running. Check		
		the 'LIVE' button is highlighted.		
9.2		Uplink Sequence HVADODDL		



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Sequence		SEQ
		HVADODDL ObdbDumpFromRam v03		
		Sequence Grouping = -		
		SSID : 0		
		NOTE:		
		This instance of the TC dumps all parameters in OBDB		
		(i.e. parameter offset 0 to 2133)		
9.3		Monitor Memory Download		
		Verify Packet Reception		
		Memory Dump - Absolute Addresses - SAU 8	MemDmpAbsAdd	
		APID:	512	
		Type:	6	
		Subtype: PI1:	6	
		PI2:		
		NOTE 1:		
		While the monitor screen is up, any areas of memory which are declared monitorable shall trigger an alarm		
		if they are different in the dump packet to the ground		
		image. This will be displayed in the EVENT window at		
		the bottom of the screens and audibly.		
		NOTE 2:		
		All differences will appear in the gridded area.		
		the dump packets are down, hit the STOP and then the		
		LIVE button. All the mismatches found so far will be		
		displayed.		
		NOTE 3:		
		Only data declared monitorable in the MODEL will		
		trigger an alarm.		
		NOTE 4:		
		If it is wanted to dump the same areas of memory		
		several times, or process in retrieval areas of memory several times, it is advisable to close and restart		
		the MONITOR window between each task, as the		
		comparison base image is often updated with the		
		allierences.		
		l		
9.4		Update Ground Image		
		It it desired to store the image updated with the mismatches for reference or later analysis then		
		continue here.		
		WARNING: In a lot of cases where there are no mismatches or		
		only mismatches in variable data areas it is not worth		
		saving the image.		
	1	1	1	1



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		-> On the MONITOR window, displaying the mismatches, enter a correct description in the description area. More detailed text can be added by hitting the description button.		
		-> Check the model is correct.		
		-> Goto Image, Save New ID		
		TC Seq. Name :NULLSEQ3 ()		
		TimeTag Type: B Sub Schedule ID:		
10		Parameters Copied in SGM?		Next Step: YES 11 NO END
		H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 6.1, contains the table of onboard database parameters copied to SGM after an onboard database update in RAM. Parameters copied to SGM? YES -> GO TO STEP 11 NO -> GO TO END		
		TC Seq. Name :NULLSEQ4 () TimeTag Type: N Sub Schedule ID:		Next Step:
11		Verify Update via Memory Dump from SGM A		12
		This step dumps the onboard database area in non- protected SGM A. The onboard database in SGM contains only a subset of the onboard database parameters available in RAM. BACKGROUND: The absolute address of the start of the onboard database area within SGM A is 0xBA0000 and within SGM B it is 0xEA0000. The database parameters stored are mission-specific. Each parameter occupies 32 bits as in the onboard database in RAM. H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 3.2.4, contains a table with the subset of the onboard database parameters available in non-protected SGM.		



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		NOTE: The address of a parameter with a given ID can be calculated as follows: SGMA		
		Address = 0x BA0000 + (ParamID-1) * 4		
		SGMB Address = 0x EA0000 + (ParamID-1) * 4		
		Parameter ID's refer to the listing of SGM OBDB parameters in the ASW ICD (H-P-4-TASW-IF-0002) and are not the same as the ID's in the RAM OBDB .		
11.1		Prepare OBSM Desktop		
		Prepare the OBSM desktop application for the memory download, by executing the following steps:		
		-> Open 'OBSM Desktop'		
		-> Select 'Monitor' in pulldown menu		
		-> New window opens, called 'Image Catalog'		
		-> In the new window, press the 'Device' button in the 'Filter' toolbar (bottom left corner)		
		Now window opens, called (Device Catalog)		
		-> Select ASGAOBDB 'ACC SGM A OBDB'. Hit OK.		
		-> Now all available memory images for the selected device appear in the 'Image Catalog'. Select the image that relates to the onboard image that is to be dumped, this is generally the last entry in the list. Hit OK.		
		-> Another window will appear that will display all mismatches between dumped values and the ground image, once the download is running. Check the 'LIVE' button is highlighted.		
11.2		Uplink Sequence HVADODDJ		
		Execute Sequence HVADODDJ ObdbDumpFromSgmA v03		SEQ
		Sequence Grouping = -		
		SSID : 0		



Step No.	Time	Activity/Remarks	TC/TLM	Display/	Branch
	Time	NOTE: This instance of the TC dumps all parameters in SGMA (i.e. position 1 to 422)		Display	Branch
11.3		Monitor Memory Download			
		Verify Packet Reception Memory Dump - Absolute Addresses - SAU 8 Packet Details: APID: Type: Subtype: PT1.	MemDmpAbsAdd 512 6 6		
		PI2:			
		NOTE 1: While the monitor screen is up, any areas of memory which are declared monitorable shall trigger an alarm if they are different in the dump packet to the ground image. This will be displayed in the EVENT window at the bottom of the screens and audibly. NOTE 2: All differences will appear in the gridded area. However the refresh of this screen is poor. After all the dump packets are down, hit the STOP and then the LIVE button. All the mismatches found so far will be displayed.			
		NOTE 3: Only data declared monitorable in the MODEL will trigger an alarm. NOTE 4: If it is wanted to dump the same areas of memory several times, or process in retrieval areas of memory several times, it is advisable to close and restart the MONITOR window between each task, as the comparison base image is often updated with the differences.			
11.4		Update Ground Image			
		If it desired to store the image updated with the mismatches for reference or later analysis then continue here. WARNING: In a lot of cases where there are no mismatches or only mismatches in variable data areas it is not worth saving the image.			



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		-> On the MONITOR window, displaying the mismatches, enter a correct description in the description area. More detailed text can be added by hitting the description button.		
		-> Check the model is correct.		
		-> Goto Image, Save New ID		
		TC Seq. Name :NULLSEQ5 ()		
		TimeTag Type: N Sub Schedule ID:		
12		Verify Undate via Memory Dump from SGM B		Next Step: END
		Vollar, Opaaco Via Homory Damp Liom Doll D		
		This step dumps the onboard database area in hon- protected SGM B. The onboard database in SGM contains only a subset of the onboard database parameters available in RAM. BACKGROUND: The absolute address of the start of the onboard database area within SGM A is 0xBA0000 and within SGM B it is 0xEA0000. The database parameters stored are mission-specific. Each parameter occupies 32 bits as in the onboard database in RAM. H-P-4-TASW-IF-0002 {ACC ASW ICD}, section 3.2.4, contains a table with the subset of the onboard database parameters available in non-protected SGM.		
		NOTE: The address of a parameter with a given ID can be calculated as follows: SGMA Address = 0xBA0000 + (ParamID-1) * 4 SGMB Address = 0xEA0000 + (ParamID-1) * 4 Parameter ID's refer to the listing of SGM OBDB parameters in the ASW ICD (H-P-4-TASW-IF-0002) and are not the same as the ID's in the RAM OBDB.		
12.1		Prepare OBSM Desktop		



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	11110	Prepare the OBSM desktop application for the memory	10/1111	Dispidy, Dianon
		download, by executing the following steps:		
		-> Open 'OBSM Desktop'		
		-> Select 'Image' in menubar		
		-> Select 'Monitor' in pulldown menu		
		-> New window opens, called 'Image Catalog'		
		-> In the new window, press the 'Device' button in the 'Filter' toolbar (bottom left corner)		
		New window approx called Device Catalog		
		-> New Window Opens, called "Device Calalog"		
		-> Now all available memory images for the selected		
		device appear in the 'Image Catalog'. Select the image that relates to the onboard image that is to be dumped, this is generally the last entry in the list. Hit OK.		
		-> Another window will appear that will display all		
		mismatches between dumped values and the ground image, once the download is running. Check		
		the 'LIVE' button is highlighted.		
12.2		Uplink Sequence HVADODDK		
		Execute Sequence		SEQ
		HVADODDK ObdbDumpFromSgmB v03		
		Sequence Grouping = -		
		SSID : 0		
		NOTE: This instance of the TC dumps all parameters in SGMB (i.e. position 1 to 422)		
12.3		Monitor Memory Download		
		Verify Packet Reception Memory Dump - Absolute Addresses - SAU 8 Packet Details:	MemDmpAbsAdd	
		APID: Type: Subtype:	512 6 6	
		PII: PI2:		



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	
		NOTE 1: While the monitor screen is up, any areas of memory which are declared monitorable shall trigger an alarm if they are different in the dump packet to the ground image. This will be displayed in the EVENT window at the bottom of the screens and audibly. NOTE 2: All differences will appear in the gridded area. However the refresh of this screen is poor. After all the dump packets are down, hit the STOP and then the LIVE button. All the mismatches found so far will be displayed.			
		NOTE 3: Only data declared monitorable in the MODEL will trigger an alarm. NOTE 4: If it is wanted to dump the same areas of memory several times, or process in retrieval areas of memory several times, it is advisable to close and restart the MONITOR window between each task, as the comparison base image is often updated with the differences.			
12.4		Update Ground Image			
		<pre>If it desired to store the image updated with the mismatches for reference or later analysis then continue here. WARNING: In a lot of cases where there are no mismatches or only mismatches in variable data areas it is not worth saving the image. -> On the MONITOR window, displaying the mismatches, enter a correct description in the description area. More detailed text can be added by hitting the description button. -> Check the model is correct. -> Goto Image, Save New ID</pre>			
End of Procedure					