

Survival register modif after DoD
 File: H_CRP_DHS_DODSR.xls
 Author: S. Manganelli



Procedure Summary

Objectives

Dedicated procedure to update the survival register for recovery from DoD. This procedure is called by the system procedure H_CRP_SYS_DOD. The survival register is set so to obtain a reconfiguration to <A side> of those units affected by the survival register setting: Act TTR, PCDU TMTC I/F, RFDN SW 1 to 4, Act TWT Assy,Act RX chain,Act TX chain,Act 1553 Bus. Additionally the separation status is forced to "separated".

Summary of Constraints

Not to be used outside the DoD recovery context.

Spacecraft Configuration

Start of Procedure

Any setting of survival register on RM A and RM B

End of Procedure

Survival register set to 00 01 01 78 78 00 00 on both RMs.
 BOTH RM ARE DISABLED BY THIS PROCEDURE
 WILL BE ENABLED LATER DURING DOD SYS RECOVERY

Reference File(s)

Input Command Sequences

Output Command Sequences

HFDDODSR

Referenced Displays

ANDs	GRDs	SLDs
ZAZ28999		XL002999
ZAZ7R999		

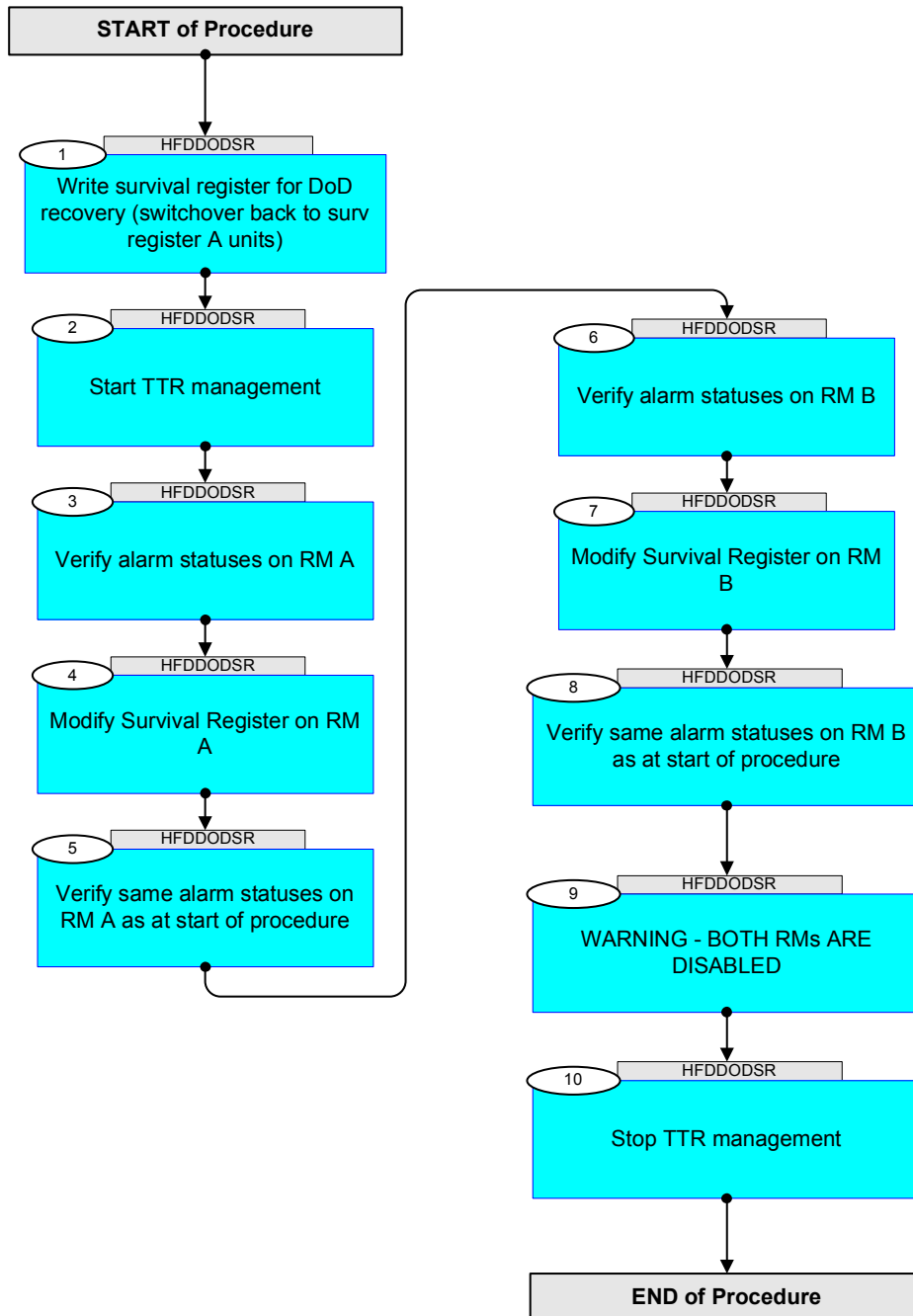
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
24/02/09		1	Created	S. Manganelli	
24/02/09		2	Added check of alarm status	S. Manganelli	
27/02/09	2.1	3	Title change	S. Manganelli	

Survival register modif after DoD
 File: H_CRP_DHS_DODSR.xls
 Author: S. Manganelli



Procedure Flowchart Overview



Survival register modif after DoD
 File: H_CRP_DHS_DODSR.xls
 Author: S. Manganelli




Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
Beginning of Procedure					
		TC Seq. Name :HFDDODSR (SurvReg for DoD rcov) TimeTag Type: N Sub Schedule ID: □			
1		Write survival register for DoD recovery (switchover back to surv register A units)		Next Step: 2	
		--- WARNING --- The HEX setting 00010178 780000 instructs the software to revert to the <A side> units in case of a fallback to survival. This is true only for those units driven by the survival register setting, i.e. TTC, RFDN, PCDU i/f, TTR board, 1553 bus. Separation bits are set as well to <separated>. THIS IS JUST ONE STANDARD SETTING - IT MAY NEED TO BE MODIFIED CASE BY CASE			
2		Start TTR management		Next Step: 3	
		Execute Telecommand StartTtrManag TC Control Flags : Subsch. ID : 10 Det. descr. : Start Ttr Management TC(8,1,109)	DCN06170	TC	
		Verify Telemetry TtrSts DEL17170 = Running		AND=ZAZ28999	
3		Verify alarm statuses on RM A		Next Step: 4	
		Execute Telecommand ReadAlarmSts Command Parameter(s) : RmId DH093170 RM_A (Def) TC Control Flags : Subsch. ID : 10 Det. descr. : TEMPLATE Read Alarm Status TC(8,4,109,8)	DCT62170	TC	
4		Modify Survival Register on RM A		Next Step: 5	
		Open Scrolling Display XL002999			

Survival register modif after DoD
 File: H_CRP_DHS_DODSR.xls
 Author: S. Manganelli




Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
		Execute Telecommand <p style="text-align: right;">ReadAlarmSts</p> Command Parameter(s) : RmId DH093170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Read Alarm Status TC(8,4,109,8)	DCT62170	TC	
6		Verify alarm statuses on RM B		Next Step: 7	
		Execute Telecommand <p style="text-align: right;">ReadAlarmSts</p> Command Parameter(s) : RmId DH093170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Read Alarm Status TC(8,4,109,8)	DCT62170	TC	
7		Modify Survival Register on RM B		Next Step: 8	
		Execute Telecommand <p style="text-align: right;">RM_B_Disable</p> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : RM B Disable - High Priority Standard	DCA12170	TC	
		Execute Telecommand <p style="text-align: right;">ReadSurvContxt</p> Command Parameter(s) : RmId DH093170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Read Survival Context TC(8,4,109,6)	DCT60170	TC	
		Execute Telecommand <p style="text-align: right;">WriteSurvContxt</p> Command Parameter(s) : RmId DH093170 SurvBits1 DH100170 SurvBits2 DH101170 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : TEMPLATE Write Survival Context TC(8,4,109,7)	DCT61170	TC	

