

LFR-FSW - Bug #912

champ HK_LFR_SC_POTENTIEL_FLAG passe à OFF

18/01/2017 11:28 AM - Veronique bouzid

Status:	Closed	Start date:	18/01/2017
Priority:	Normal	Due date:	
Assignee:	Veronique bouzid	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
revision:	r0		
Description			
Le script utilisé est /home/validation/SCRIPT/R3+/set_load_filter_par.py.			
Normalement le champ HK_LFR_SC_POTENTIEL_FLAG est positionné à ON apres la sequence de boot. Je verifie donc que cette valeur nominale ne change pas.			
Dans ce test, j observe que le flag passe à OFF.			
ici les traces de la sequence			
09:00:32.563373, TM_LFR_HK , CCSDS_VERSION_NUMBER = 0, PACKET_TYPE: TM_PACKET = 0, DATA_FIELD_HEADER_FLAG: WITH_HEADER = 1, PROCESS_ID: RPW_PID_2 = 76, PACKET_CATEGORY: HK_ROUTINE = 4, (PACKET_ID=0xcc4), SEGMENTATION_GROUPING_FLAG: STANDALONE_PACKET = 3, SEQUENCE_CNT=16, (PACKET_SEQUENCE_CONTROL=0xc010), PACKET_LENGTH=129, SPARE_1=0, PUS_VERSION = 1, SPARE_2=0, SERVICE_TYPE: HOUSEKEEPING_AND_DIAGNOSTIC_DATA_REPORTING = 3, SERVICE_SUBTYPE: HK_PARAMETER_REPORT = 25, DESTINATION_ID: GROUND = 0, TIME=0x80000012222c, PA_LFR_HK_REPORT_SID: LFR_HK_SID = 1, HK_LFR_MODE: STANDBY = 0, HK_LFR_DPU_SPW_ENABLED: ENABLED = 1, HK_LFR_DPU_SPW_LINK_STATE: ERROR_WAIT = 1, SPARE=0x0, HK_LFR_SC_POTENTIEL_FLAG: ON = 1 , HK_LFR_PAS_FILTER_ENABLED: DISABLED = 0,			
09:00:32.889086, TC_LFR_LOAD_FILTER_PAR , CCSDS_VERSION_NUMBER = 0, PACKET_TYPE: TC_PACKET = 1, DATA_FIELD_HEADER_FLAG: WITH_HEADER = 1, PROCESS_ID: RPW_PID_2 = 76, PACKET_CATEGORY: PRIVATE_SCIENCE_OR_TELECOMMAND = 12, (PACKET_ID=0x1ccc), SEGMENTATION_GROUPING_FLAG: STANDALONE_PACKET = 3, SEQUENCE_CNT=0, (PACKET_SEQUENCE_CONTROL=0xc000), PACKET_LENGTH=21, CCSDS_SECONDARY_HEADER_FLAG=0, PUS_VERSION = 1, ACK_EXECUTION_COMPLETION=1, ACK_EXECUTION_PROGRESS=0, ACK_EXECUTION_START=0, ACK_ACCEPTANCE=1, SERVICE_TYPE: EQ_CONFIGURATION = 181, SERVICE_SUBTYPE: LOAD_FILTER_PAR = 97, SOURCE_ID: MISSION_TIMELINE = 110, SPARE=0x0, DOE_SPARE=0x0, SY_LFR_PAS_FILTER_ENABLED: DISABLED = 0, SY_LFR_PAS_FILTER_MODULUS=4, SY_LFR_PAS_FILTER_TBAD=1065353216, SY_LFR_PAS_FILTER_OFFSET=0, SY_LFR_PAS_FILTER_SHIFT=1056964608, SY_LFR_PAS_FILTER_DELTA_F=1020054733, CRC = 0xf136			
09:00:32.899891, TM_LFR_TC_EXE_SUCCESS , CCSDS_VERSION_NUMBER = 0, PACKET_TYPE: TM_PACKET = 0, DATA_FIELD_HEADER_FLAG: WITH_HEADER = 1, PROCESS_ID: RPW_PID_2 = 76, PACKET_CATEGORY: ACKNOWLEDGE = 1, (PACKET_ID=0xcc1), SEGMENTATION_GROUPING_FLAG: STANDALONE_PACKET = 3, SEQUENCE_CNT=5, (PACKET_SEQUENCE_CONTROL=0xc005), PACKET_LENGTH=13, SPARE_1=0, PUS_VERSION = 1, SPARE_2=0, SERVICE_TYPE: TELECOMMAND_VERIFICATION = 1, SERVICE_SUBTYPE: TC_EXECUTION_COMPLETION_SUCCESS = 7, DESTINATION_ID: MISSION_TIMELINE = 110, TIME=0x80000012782f, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xc000			
09:00:33.563494, TM_LFR_HK , CCSDS_VERSION_NUMBER = 0, PACKET_TYPE: TM_PACKET = 0, DATA_FIELD_HEADER_FLAG: WITH_HEADER = 1, PROCESS_ID: RPW_PID_2 = 76, PACKET_CATEGORY: HK_ROUTINE = 4, (PACKET_ID=0xcc4), SEGMENTATION_GROUPING_FLAG: STANDALONE_PACKET = 3, SEQUENCE_CNT=17, (PACKET_SEQUENCE_CONTROL=0xc011), PACKET_LENGTH=129, SPARE_1=0, PUS_VERSION = 1, SPARE_2=0, SERVICE_TYPE: HOUSEKEEPING_AND_DIAGNOSTIC_DATA_REPORTING = 3, SERVICE_SUBTYPE: HK_PARAMETER_REPORT = 25, DESTINATION_ID: GROUND = 0, TIME=0x80000013222c, PA_LFR_HK_REPORT_SID: LFR_HK_SID = 1, HK_LFR_MODE: STANDBY = 0, HK_LFR_DPU_SPW_ENABLED: ENABLED = 1, HK_LFR_DPU_SPW_LINK_STATE: ERROR_WAIT = 1, SPARE=0x0, HK_LFR_SC_POTENTIEL_FLAG: OFF = 0 , HK_LFR_PAS_FILTER_ENABLED: DISABLED = 0,			
C'est le seul test pour l instant ou j ai observé ce phenomeme. Dans ce test on envoie 2 TC_LOAD_FILTER_PAR , la première n induit pas le changement du champ HK_LFR_SC_POTENTIEL_FLAG mais la deuxième OUI.			

Les fichiers (2017_01_18-09_00_41*) sont rangés dans le repertoire
/home/validation/data/R3+/3.1.0.6/3.1.91/TESTS-UNITAIRES/set_load_filter.

--> IL faut revoir le traitement de cette TC (voir [#911](#))

Contexte du test

FSW 3.1.0.6
VHDL 3.1.91
PFM sans Timegen
SocExplorerEngine.getSocExplorer: Version = 0.7.0, Branch = 0.6, Changeset = c459540a6dbd+
StarDundee

History

#1 - 18/01/2017 11:28 AM - Veronique bouzid

- Description updated

#2 - 19/01/2017 07:19 AM - paul leroy

- Assignee changed from paul leroy to Veronique bouzid

J'ai trouvé le bug, il s'agissait d'une erreur de masque dans la fonction suivante, qui écrasait le bit sc_potential_flag

```
void set_sy_lfr_pas_filter_enabled( bool state )
```

Je corrige pour fsw >= 3.1.0.7

#3 - 03/02/2017 10:55 AM - Veronique bouzid

- Status changed from New to Closed

Bug corrigé en 3.1.0.7.

Le champ HK_LFR_SC_POTENTIEL_FLAG: reste bien positionné à 1.

Le script utilisé est /home/validation/SCRIPT/R3+/send_load_filter_par.py.
Les fichiers de log (2017_02_03-10_48_06-*) sont rangés dans le répertoire
/home/validation/data/R3+/3.1.0.7/1.1.91/TESTS-UNITAIRES/set_load_filter.

Contexte du test

FSW 3.1.0.7
VHDL 1.1.91
EM1 sans Timegen
SocExplorerEngine.getSocExplorer: Version = 0.7.0, Branch = 0.6, Changeset = c459540a6dbd+
StarDundee