

LFR-FSW - Bug #911

champ HK_LFR_PAS_FILTER_ENABLED non mis à jour apres envoi TC_LFR_LOAD_FILTER_PAR

18/01/2017 11:14 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			
<p>Le script utilisé est /home/validation/SCRIPT/R3+/set_load_filter_par.py. Le scénario est le suivant Pas d'envoi de TC_LFR_LOAD_FILTER_PAR --> le champ HK_LFR_PAS_FILTER_ENABLED est bien initialisé à DISABLED (meme si ce n est pas la valeur par défaut déclarée dans ICD 4.1 et 4.3)</p> <p>09:00:25.563361, 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=9, (PACKET_SEQUENCE_CONTROL=0xc009), 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=0x8000000b222c, 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 *</p> <p>Envoi de la TC_LFR_LOAD_FILTER_PAR avec SY_LFR_PAS_FILTER_ENABLED: ENABLED = 1</p> <p>09:00:23.866993, 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: ENABLED = 1, 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 = 0x5fca</p> <p>09:00:24.563394, 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=8, (PACKET_SEQUENCE_CONTROL=0xc008), 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=0x8000000a222c, 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,</p> <p>et</p> <p>09:00:25.563361, 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=9, (PACKET_SEQUENCE_CONTROL=0xc009), 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=0x8000000b222c, 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</p> <p>--> Le champ n est jamais mis à jour.</p>			

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

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 - 19/01/2017 07:20 AM - paul leroy

- Assignee changed from paul leroy to Veronique bouzid

J'ai trouvé le bug (directement lié au Bug [#912](#)), il s'agissait d'une erreur de masque dans la fonction suivante, qui écrasait le bit sc_potential_flag et ne mettait pas à jour le bit pas_filter_enabled

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

Je corrige pour fsw >= 3.1.0.7

#2 - 03/02/2017 11:02 AM - Veronique bouzid

- Status changed from New to Closed

Bug corrigé en 3.1.0.7.

extrait du log suite à l'envoi de la TC_LFR_LOAD_FILTER_PAR avec SY_LFR_PAS_FILTER_ENABLED: ENABLED = 1

```
10:47:48.259139, 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: ENABLED = 1,
10:47:48.271142, 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=2,
(PACKET_SEQUENCE_CONTROL=0xc002), 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=0x80000009221c, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xc000

10:47:49.267572, 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=8, (PACKET_SEQUENCE_CONTROL=0xc008),
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=0x8000000a2184, 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: RUN = 5, SPARE=0x0, HK_LFR_SC_POTENTIEL_FLAG: ON
= 1, HK_LFR_PAS_FILTER_ENABLED: ENABLED = 1,
```

l'envoi de avec SY_LFR_PAS_FILTER_ENABLED: ENABLED = 0

```
10:47:57.281787, 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,
```

et

```
10:47:57.293407, 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=0x800000122805, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xc000
```

10:47:58.268308, **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=0x800000132184, 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: RUN = 5, SPARE=0x0, HK_LFR_SC_POTENTIEL_FLAG: ON
= 1, **HK_LFR_PAS_FILTER_ENABLED: DISABLED = 0**,

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