

## LFR-FSW - Bug #1085

### PA\_RPW\_BYTE\_POSITION wrong into a TM\_LFR\_TC\_EXE\_INCONSISTENT on TC\_LFR\_LOAD\_FILTER\_PAR

25/04/2017 06:25 PM - Veronique bouzid

<b>Status:</b>	Closed	<b>Start date:</b>	25/04/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	bruno katra	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>revision:</b>	r0		
<b>Description</b>			
Le test du parametre SY_LFR_PAS_FILTER_DELTA_F: envoi d'une frequence négative (-1) = 0x BF800000 et entier 3212836864			
08:31:38.573693, <b>TC_LFR_LOAD_FILTER_PAR</b> , 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=15232, (PACKET_SEQUENCE_CONTROL=0xfb80), PACKET_LENGTH=85, CCSDS_SECONDARY_HEADER_FLAG=0, PUS_VERSION = 1, ACK_EXECUTION_COMPLETION=0, ACK_EXECUTION_PROGRESS=0, ACK_EXECUTION_START=0, ACK_ACCEPTANCE=0, 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_D: 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, <b>SY_LFR_PAS_FILTER_DELTA_F=3212836864</b> , SY_LFR_RW1_K1=0x3f800000, SY_LFR_RW1_K2=0x41000000, SY_LFR_RW1_K3=0x41c00000, SY_LFR_RW1_K4=0x42400000, SY_LFR_RW2_K1=0x3f800000, SY_LFR_RW2_K2=0x41000000, SY_LFR_RW2_K3=0x41c00000, SY_LFR_RW2_K4=0x42400000, SY_LFR_RW3_K1=0x3f800000, SY_LFR_RW3_K2=0x41000000, SY_LFR_RW3_K3=0x41c00000, SY_LFR_RW3_K4=0x42400000, SY_LFR_RW4_K1=0x3f800000, SY_LFR_RW4_K2=0x41000000, SY_LFR_RW4_K3=0x41c00000, SY_LFR_RW4_K4=0x42400000, CRC = 0xffb7			
08:31:38.580833, <b>TM_LFR_TC_EXE_INCONSISTENT</b> , 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=98, (PACKET_SEQUENCE_CONTROL=0xc062), PACKET_LENGTH=19, SPARE_1=0, PUS_VERSION = 1, SPARE_2=0, SERVICE_TYPE: TELECOMMAND_VERIFICATION = 1, SERVICE_SUBTYPE: TC_EXECUTION_COMPLETION_FAILURE = 8, DESTINATION_ID: MISSION_TIMELINE = 110, TIME=0x8000002cf329, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xfb80, PA_RPW_TC_FAILURE_CODE: WRONG_APP_DATA = 5, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=97, PA_RPW_BYTE_POSITION=22, <b>PA_RPW_RCV_VALUE=255</b>			
la position du champ est correcte PA_RPW_BYTE_POSITION=22 mais la valeur devrait correspondre au Least Byte soit 00 puisque le champ complet vaut 0x BF800000. D'ailleurs aucun octet de vaut 255 (0xFF).			
Les parametres suivants ont été testés et sont correctement décrits			
SY_LFR_PAS_FILTER_MODULUS 08:31:26.495614, <b>TM_LFR_TC_EXE_INCONSISTENT</b> , TIME=0x80000020dc93, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=97, PA_RPW_BYTE_POSITION=12, PA_RPW_RCV_VALUE=0			
SY_LFR_PAS_FILTER_TBAD 08:31:29.514696, <b>TM_LFR_TC_EXE_INCONSISTENT</b> , TIME=0x80000023e231, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=97, PA_RPW_BYTE_POSITION=13, PA_RPW_RCV_VALUE=236			
SY_LFR_PAS_FILTER_OFFSET 08:31:32.536943, <b>TM_LFR_TC_EXE_INCONSISTENT</b> , TIME=0x80000026e7f1, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=97, PA_RPW_BYTE_POSITION=17, PA_RPW_RCV_VALUE=8			
SY_LFR_PAS_FILTER_SHIFT 08:31:35.558894, <b>TM_LFR_TC_EXE_INCONSISTENT</b> , TIME=0x80000029edbd, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=97, PA_RPW_BYTE_POSITION=18, PA_RPW_RCV_VALUE=174			

Envoi de SY\_LFR\_RW1\_K1=0xbf800000 --1)  
08:31:41.603624, TM\_LFR\_TC\_EXE\_INCONSISTENT, TIME=0x8000002ff8fd, PA\_RPW\_TC\_SERVICE=181,  
PA\_RPW\_TC\_SUBTYPE=97, PA\_RPW\_BYTE\_POSITION=26, PA\_RPW\_RCV\_VALUE=0

Le script utilisé est /opt/VALIDATION\_R3plusplus/lfrverif/LFR\_SVS/SVS-0008/tc\_execution\_failure\_report.py.  
Les fichiers de log (2017\_04\_20-08\_32\_02\*) sont rangés dans /home/validation/data/R3++/3.2.0.15/3.1.91/SVS-0008

Contexte du test

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FSW 3.2.0.15  
VHDL 3.1.91  
SocExplorerEngine.getSocExplorer: Version = 0.7.0, Branch = default, Changeset =  
c459540a6dbdcbb4e17f204685fce02c070ba971+  
EQM sans Timegen  
StarDundee

## History

### #1 - 26/04/2017 06:35 PM - paul leroy

- Assignee changed from paul leroy to Veronique bouzid

Exact, je n'ai pas recopié correctement le champ LSB dans le paquet TM\_LFR\_TC\_EXE\_INCONSISTENT, je fais la modification.

Corrigé dans fsw >= 3.2.0.16.

### #2 - 23/08/2017 05:30 PM - bruno katra

- Status changed from New to In Progress

Ce comportement non nominal est décrit dans le SUM 1.5 la demande du CNES.  
Correction a valider puis cloturer l'issue QUAND LE SUM AURA ETE MIS A JOUR !

### #3 - 13/07/2018 03:33 PM - Veronique bouzid

- Status changed from In Progress to Resolved

Bug corrigé en 3.2.0.18 ( version HK annoncé en 3.2.0.17).

Le script utilisé est /home/validation/SCRIPT/R3++/set\_load\_filter\_par\_inconsistent.py.

13:02:01.862823, 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=85, 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\_D: 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=3212836864**, SY\_LFR\_RW1\_K1=0x3f800000,  
SY\_LFR\_RW1\_K2=0x41000000, SY\_LFR\_RW1\_K3=0x41c00000, SY\_LFR\_RW1\_K4=0x42400000, SY\_LFR\_RW2\_K1=0x3f800000,  
SY\_LFR\_RW2\_K2=0x41000000, SY\_LFR\_RW2\_K3=0x41c00000, SY\_LFR\_RW2\_K4=0x42400000, SY\_LFR\_RW3\_K1=0x3f800000,  
SY\_LFR\_RW3\_K2=0x41000000, SY\_LFR\_RW3\_K3=0x41c00000, SY\_LFR\_RW3\_K4=0x42400000, SY\_LFR\_RW4\_K1=0x3f800000,  
SY\_LFR\_RW4\_K2=0x41000000, SY\_LFR\_RW4\_K3=0x41c00000, SY\_LFR\_RW4\_K4=0x42400000, CRC = 0x1fe3

13:02:01.871188, TM\_LFR\_TC\_EXE\_INCONSISTENT, 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=54,  
(PACKET\_SEQUENCE\_CONTROL=0xc036), PACKET\_LENGTH=19, SPARE\_1=0, PUS\_VERSION = 1, SPARE\_2=0, SERVICE\_TYPE:  
TELECOMMAND\_VERIFICATION = 1, SERVICE\_SUBTYPE: TC\_EXECUTION\_COMPLETION\_FAILURE = 8, DESTINATION\_ID:  
MISSION\_TIMELINE = 110, TIME=0x8000007575bc, PA\_RPW\_TELECOMMAND\_PKT\_ID=0x1ccc, PA\_RPW\_PKT\_SEQ\_CONTROL=0xc000,  
PA\_RPW\_TC\_FAILURE\_CODE: WRONG\_APP\_DATA = 5, PA\_RPW\_TC\_SERVICE=181, PA\_RPW\_TC\_SUBTYPE=97,  
**PA\_RPW\_BYTE\_POSITION=22, PA\_RPW\_RCV\_VALUE=0**

les fichiers (2018\_07\_13-13\_02\_09\*) se trouvent dans le répertoire /home/validation/data/R3++/3.2.0.18/1.1.91/TEST-UNITAIRES/BUG-1085.

Contexte du test

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FSW 3.2.0.18  
VHDL 1.1.91  
SocExplorerEngine.getSocExplorer: Version = 0.7.0, Branch = default, Changeset = c459540a6dbdcbb4e17f204685fce02c070ba971+  
EM1 sans Timegen

StarDundee

**#4 - 13/07/2018 03:34 PM - Veronique bouzid**

- *Status changed from Resolved to Feedback*
- *Assignee changed from Veronique bouzid to bruno katra*

Attention Mettre à jour le SUM puisque le bug est corrigé.

Ce comportement non nominal est décrit dans le SUM 1.5 la demande du CNES.  
Correction a valider puis cloturer l'issue QUAND LE SUM AURA ETE MIS A JOUR !

**#5 - 13/12/2018 02:20 PM - bruno katra**

- *Status changed from Feedback to Closed*

SUM 1.6 mis à jour suite à correction du bug