LFR-FSW - Bug #477

R3 *** fields HK_LFR_LAST_REJ_TC_ID and HK_LFR_LAST_REJ_TC_TYPE erroneous in TM_LFR_HK

27/07/2015 01:50 PM - Veronique bouzid

Status:	Closed	**Start date:**	27/07/2015
Priority:	Urgent	**Due date:**	
Assignee:	Veronique bouzid	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:		**Spent time:**	0.00 hour
revision:	r0		

Description

Depuis la version 3.0.0.x, il semble que la gestion des commandes rejetées soient devenues erronées.
Les informations inscrites dans les TM_LFR_HK concernant ce rejet sont
HK_LFR_REJ_TC_CNT
HK_LFR_LAST_REJ_TC_ID
HK_LFR_LAST_REJ_TC_TYPE
HK_LFR_LAST_REJ_TC_SUBTYPE
HK_LFR_LAST_REJ_TC_TIME

les champs erronés sont
HK_LFR_LAST_REJ_TC_ID
HK_LFR_LAST_REJ_TC_TYPE

C'est observé sur
TM_LFR_TC_EXE_NOT_EXECUTABLE
TM_LFR_TC_EXE_CORRUPTED

Le test utilisé est /opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0003/loop_tm_lfr_tc_exe.py mais n'importe quel test rejetant une TC met en évidence le bug.

le fichier de log est /home/validation/data/R3/3.0.0.3/SVS-0003/2015_06_04-15_48_35-Detail.txt

15:46:37.265176, **TC_LFR_ENTER_MODE** (CP_LFR_MODE=0), 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=6565, (PACKET_SEQUENCE_CONTROL=0xd9a5), PACKET_LENGTH=13, 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: ENTER_MODE = 41**, SOURCE_ID: MISSION_TIMELINE = 110, SPARE=0, CP_LFR_MODE: STANDBY = 0, CP_LFR_ENTER_MODE_TIME=0x000000000000, CRC = 0x1419

15:46:37.284992, **TM_LFR_TC_EXE_NOT_EXECUTABLE**, 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=0, (PACKET_SEQUENCE_CONTROL=0xc000), 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=0x8000001d2365, PA_RPW_TC_FAILURE_CODE: TC_NOT_EXE = 42000, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xd9a5, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=41, HK_LFR_MODE: STANDBY = 0, HK_LFR_DPU_SPW_ENABLED: ENABLED = 1, HK_LFR_DPU_SPW_LINK_STATE: RUN = 5, SPARE=0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0, HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0

15:46:37.342316, **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=27, (PACKET_SEQUENCE_CONTROL=0xc01b), 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=0x8000001d31f3, 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: OFF = 0,

HK_LFR_MAG_FIELDS_FLAG: OFF = 0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0, HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0, SY_LFR_SW_VERSION_N1=3, SY_LFR_SW_VERSION_N2=0, SY_LFR_SW_VERSION_N3=0, SY_LFR_SW_VERSION_N4=3, SY_LFR_FPGA_VERSION_N1=1, SY_LFR_FPGA_VERSION_N2=1, SY_LFR_FPGA_VERSION_N3=68, HK_LFR_CPU_LOAD=0.392156862745, HK_LFR_CPU_LOAD_MAX=1.96078431373, HK_LFR_CPU_LOAD_AVE=0.0, HK_LFR_Q_SD_FIFO_SIZE_MAX=1, HK_LFR_Q_SD_FIFO_SIZE=50, HK_LFR_Q_RV_FIFO_SIZE_MAX=1, HK_LFR_Q_RV_FIFO_SIZE=10, HK_LFR_Q_P0_FIFO_SIZE_MAX=0, HK_LFR_Q_P0_FIFO_SIZE=10, HK_LFR_Q_P1_FIFO_SIZE_MAX=0, HK_LFR_Q_P1_FIFO_SIZE=10, HK_LFR_Q_P2_FIFO_SIZE_MAX=0, HK_LFR_Q_P2_FIFO_SIZE=5, HK_LFR_UPDATE_INFO_TC_CNT=0, HK_LFR_UPDATE_TIME_TC_CNT=0, HK_LFR_EXE_TC_CNT=0, HK_LFR_REJ_TC_CNT=1, HK_LFR_LAST_EXE_TC_ID=0x0, HK_LFR_LAST_EXE_TC_TYPE=0, HK_LFR_LAST_EXE_TC_SUBTYPE=0, HK_LFR_LAST_EXE_TC_TIME=0x000000000000, **HK_LFR_LAST_REJ_TC_ID=0x1c00**, **HK_LFR_LAST_REJ_TC_TYPE=0**, HK_LFR_LAST_REJ_TC_SUBTYPE=41, HK_LFR_LAST_REJ_TC_TIME=0x8000001d2365,

ici pour TM_LFR_TC_EXE_CORRUPTED
15:46:39.285341, TC_LFR_RESET, 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=153, (PACKET_SEQUENCE_CONTROL=0xc099), PACKET_LENGTH=5, 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: RESET = 1, SOURCE_ID: MISSION_TIMELINE = 110, /!\CRC = 0x1b65(exp=0x1b64)

15:46:39.30235, TM_LFR_TC_EXE_CORRUPTED, 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=1, (PACKET_SEQUENCE_CONTROL=0xc001), PACKET_LENGTH=25, 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=0x8000001f27a5, PA_RPW_TC_FAILURE_CODE: CORRUPTED = 42005, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xc099, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=1, PA_RPW_PKT_LEN_RCV_VALUE=5, PA_RPW_PKT_DATFIELDSIZE_CNT=5, PA_RPW_RCV_CRC=0x1b65, PA_RPW_COMPUTED_CRC=0x1b64

15:46:39.342327, **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=29, (PACKET_SEQUENCE_CONTROL=0xc01d), 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=0x8000001f31f4, 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: OFF = 0, HK_LFR_MAG_FIELDS_FLAG: OFF = 0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0, HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0, SY_LFR_SW_VERSION_N1=3, SY_LFR_SW_VERSION_N2=0, SY_LFR_SW_VERSION_N3=0, SY_LFR_SW_VERSION_N4=3, SY_LFR_FPGA_VERSION_N1=1, SY_LFR_FPGA_VERSION_N2=1, SY_LFR_FPGA_VERSION_N3=68, HK_LFR_CPU_LOAD=0.392156862745, HK_LFR_CPU_LOAD_MAX=1.96078431373, HK_LFR_CPU_LOAD_AVE=0.0, HK_LFR_Q_SD_FIFO_SIZE_MAX=1, HK_LFR_Q_SD_FIFO_SIZE=50, HK_LFR_Q_RV_FIFO_SIZE_MAX=1, HK_LFR_Q_RV_FIFO_SIZE=10, HK_LFR_Q_P0_FIFO_SIZE_MAX=0, HK_LFR_Q_P0_FIFO_SIZE=10, HK_LFR_Q_P1_FIFO_SIZE_MAX=0, HK_LFR_Q_P1_FIFO_SIZE=10, HK_LFR_Q_P2_FIFO_SIZE_MAX=0, HK_LFR_Q_P2_FIFO_SIZE=5, HK_LFR_UPDATE_INFO_TC_CNT=0, HK_LFR_UPDATE_TIME_TC_CNT=0, HK_LFR_EXE_TC_CNT=0, HK_LFR_REJ_TC_CNT=2, HK_LFR_LAST_EXE_TC_ID=0x0, HK_LFR_LAST_EXE_TC_TYPE=0, HK_LFR_LAST_EXE_TC_SUBTYPE=0, HK_LFR_LAST_EXE_TC_TIME=0x000000000000, **HK_LFR_LAST_REJ_TC_ID=0x1c00, HK_LFR_LAST_REJ_TC_TYPE=0,** HK_LFR_LAST_REJ_TC_SUBTYPE=1, HK_LFR_LAST_REJ_TC_TIME=0x8000001f27a5

Parfois les 2 champs sont renseignés mais avec des valeurs erronées
15:46:40.342321, **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=30, (PACKET_SEQUENCE_CONTROL=0xc01e), 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=0x8000002031f4, 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: OFF = 0, HK_LFR_MAG_FIELDS_FLAG: OFF = 0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0, HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0, SY_LFR_SW_VERSION_N1=3, SY_LFR_SW_VERSION_N2=0, SY_LFR_SW_VERSION_N3=0, SY_LFR_SW_VERSION_N4=3, SY_LFR_FPGA_VERSION_N1=1, SY_LFR_FPGA_VERSION_N2=1, SY_LFR_FPGA_VERSION_N3=68,

HK_LFR_CPU_LOAD=0.392156862745, HK_LFR_CPU_LOAD_MAX=1.96078431373, HK_LFR_CPU_LOAD_AVE=0.0,
HK_LFR_Q_SD_FIFO_SIZE_MAX=1, HK_LFR_Q_SD_FIFO_SIZE=50, HK_LFR_Q_RV_FIFO_SIZE_MAX=1,
HK_LFR_Q_RV_FIFO_SIZE=10, HK_LFR_Q_P0_FIFO_SIZE_MAX=0, HK_LFR_Q_P0_FIFO_SIZE=10,
HK_LFR_Q_P1_FIFO_SIZE_MAX=0, HK_LFR_Q_P1_FIFO_SIZE=10, HK_LFR_Q_P2_FIFO_SIZE_MAX=0,
HK_LFR_Q_P2_FIFO_SIZE=5, HK_LFR_UPDATE_INFO_TC_CNT=0, HK_LFR_UPDATE_TIME_TC_CNT=0,
HK_LFR_EXE_TC_CNT=3, HK_LFR_REJ_TC_CNT=4, HK_LFR_LAST_EXE_TC_ID=0x1ccc,
HK_LFR_LAST_EXE_TC_TYPE=181, HK_LFR_LAST_EXE_TC_SUBTYPE=19,
HK_LFR_LAST_EXE_TC_TIME=0x8000002024d5, **HK_LFR_LAST_REJ_TC_ID=0x1cb5, HK_LFR_LAST_REJ_TC_TYPE=19**,
HK_LFR_LAST_REJ_TC_SUBTYPE=13,

Les tests effectués sur les versions 3.0.0.4, 3.0.0.8 montrent le même bug

les tests effectués sur l'EQM en R2 sont corrects (voir
/home/validation/data/R2-EQM/2.0.2.3/SVS-0003/2015_05_25-10_26_57-Detail.txt).

ATTENTION

Il faut egalement vérifier le comportement des autres TM_LFR_TC_EXE_xxxx
comme TM_LFR_TC_EXE_INCONSISTENT car TM_LFR_TC_EXE_NOT_IMPLEMENTED et TM_LFR_TC_EXE_NOT_ERROR ne peuvent etre testées.
Contexte du test

FSW 3.0.0.3 ou 3.0.0.8
VHDL 1.1.83 (_c car chgt de contrainte sur timing) ou 1.1.88
EM sans Timegen
SocExplorerEngine.getSocExplorer: Version = 0.6.2, Branch = default, Changeset = 819d0376d481
StarDundee

History

#1 - 27/07/2015 01:58 PM - Veronique bouzid

Le bug est observé de la meme façon sur TM_LFR_TC_EXE_INCONSISTENT

ici la trace observé sur le script /opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0019/tm_sequence_counter_loop.py
le fichier de log /home/validation/data/R3/data/R3/3.0.0.8/1.1.88/SVS-0019/2015_07_24-16_03_05-Detail.txt

15:33:37.883514, **TC_LFR_ENTER_MODE** (CP_LFR_MODE=15), 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=7855, (PACKET_SEQUENCE_CONTROL=0xdeaf), PACKET_LENGTH=13, 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: ENTER_MODE = 41, SOURCE_ID:
RPW_INTERNAL = 254, SPARE=0, /!\CP_LFR_MODE: 15, CP_LFR_ENTER_MODE_TIME=0x000000000000, CRC = 0x70bf

15:33:37.891816, **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=288,
(PACKET_SEQUENCE_CONTROL=0xc120), 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:
RPW_INTERNAL = 254, TIME=0x800000e52b59, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xdeaf,
PA_RPW_TC_FAILURE_CODE: WRONG_APP_DATA = 5, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=41,
PA_RPW_BYTE_POSITION=11, PA_RPW_RCV_VALUE=15

15:33:37.921575, 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=227, (PACKET_SEQUENCE_CONTROL=0xc0e3),
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=0x800000e533b9, PA_LFR_HK_REPORT_SID: LFR_HK_SID = 1, HK_LFR_MODE: SBM1 = 3,
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_MAG_FIELDS_FLAG: OFF = 0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0,
HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0, SY_LFR_SW_VERSION_N1=3, SY_LFR_SW_VERSION_N2=0,
SY_LFR_SW_VERSION_N3=0, SY_LFR_SW_VERSION_N4=8, SY_LFR_FPGA_VERSION_N1=1, SY_LFR_FPGA_VERSION_N2=1,
SY_LFR_FPGA_VERSION_N3=88, HK_LFR_CPU_LOAD=17.6470588235, HK_LFR_CPU_LOAD_MAX=23.9215686274,
HK_LFR_CPU_LOAD_AVE=0.0, HK_LFR_Q_SD_FIFO_SIZE_MAX=4, HK_LFR_Q_SD_FIFO_SIZE=50, HK_LFR_Q_RV_FIFO_SIZE_MAX=1,
HK_LFR_Q_RV_FIFO_SIZE=10, HK_LFR_Q_P0_FIFO_SIZE_MAX=1, HK_LFR_Q_P0_FIFO_SIZE=10, HK_LFR_Q_P1_FIFO_SIZE_MAX=1,
HK_LFR_Q_P1_FIFO_SIZE=10, HK_LFR_Q_P2_FIFO_SIZE_MAX=1, HK_LFR_Q_P2_FIFO_SIZE=5, HK_LFR_UPDATE_INFO_TC_CNT=0,
HK_LFR_UPDATE_TIME_TC_CNT=0, HK_LFR_EXE_TC_CNT=750, HK_LFR_REJ_TC_CNT=199, HK_LFR_LAST_EXE_TC_ID=0x1ccc,
HK_LFR_LAST_EXE_TC_TYPE=181, HK_LFR_LAST_EXE_TC_SUBTYPE=27, HK_LFR_LAST_EXE_TC_TIME=0x800000e25cd6,
HK_LFR_LAST_REJ_TC_ID=0x1cb5, HK_LFR_LAST_REJ_TC_TYPE=27, HK_LFR_LAST_REJ_TC_SUBTYPE=41,
HK_LFR_LAST_REJ_TC_TIME=0x800000e52b59,

#2 - 28/09/2015 04:05 PM - paul leroy

- Status changed from New to Feedback

- Assignee changed from paul leroy to Veronique bouzid

J'ai fait le test avec 3.0.0.8, je n'observe pas le bug. J'ai envoyé un mode = 15 (INCONSISTENT) comme toi, et j'ai également demandé un mode STANDBY en étant déjà en mode STANDBY (NOT EXECUTABLE)?
J'ai regardé les HK avec LFR SGSE, ce que tu peux également essayer de faire.

Pourrais-tu vérifier que l'extraction des champs dans ton script est correcte?

#3 - 28/09/2015 06:42 PM - Veronique bouzid

- Status changed from Feedback to Resolved

J'ai vérifié le fichier Tm.csv et les informations sont correctes.
Donc, c'est la fonction Detail de la TM_LFR_HK qui est en cause.

Effectivement, le fichier /opt/VALIDATION_R3/lfrverif/common/icd/tm_lfr_hk_analyze.py ne décode pas correctement les 2 champs HK_LFR_LAST_REJ_TC_ID et HK_LFR_LAST_REJ_TC_TYPE

```
"HK_LFR_LAST_REJ_TC_ID=" + hex(
        (tm_ccsds[59] << 8) | tm_ccsds[50]) + ', ' +
    "HK_LFR_LAST_REJ_TC_TYPE=" + str(
        (tm_ccsds[61] << 8) | tm_ccsds[52]) + ', ' +
```

J ai donc remplacé 50 par 60 et 52 par 62.

```
"HK_LFR_LAST_REJ_TC_ID=" + hex(
        (tm_ccsds[59] << 8) | tm_ccsds[60]) + ', ' +
    "HK_LFR_LAST_REJ_TC_TYPE=" + str(
        (tm_ccsds[61] << 8) | tm_ccsds[62]) + ', ' +
```

--> test à rejouer

#4 - 29/09/2015 12:36 PM - Veronique bouzid

- Status changed from Resolved to Closed

le bug a disparu.
La fonction en cause est utilisé dans tous les tests, le script /opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0003/loop_tm_lfr_tc_exe.py a été joué pour valider la modification

Voici la trace
09:44:28.551515, **TC_LFR_ENTER_MODE** (CP_LFR_MODE=0), 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=10385, (PACKET_SEQUENCE_CONTROL=0xe891), PACKET_LENGTH=13, 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: ENTER_MODE = 41**, SOURCE_ID: MISSION_TIMELINE = 110, SPARE=0, CP_LFR_MODE: STANDBY = 0, CP_LFR_ENTER_MODE_TIME=0x000000000000, CRC = 0x910f

09:44:28.579472, **TM_LFR_TC_EXE_NOT_EXECUTABLE**, 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=0, (PACKET_SEQUENCE_CONTROL=0xc000), 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=0x8000000b2f7a, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xe891, PA_RPW_TC_FAILURE_CODE: TC_NOT_EXE = 42000, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=41, HK_LFR_MODE: STANDBY = 0, HK_LFR_DPU_SPW_ENABLED: ENABLED = 1, HK_LFR_DPU_SPW_LINK_STATE: RUN = 5, SPARE=0, HK_LFR_SC_POTENTIAL_FLAG: OFF = 0, HK_LFR_MAG_FIELDS_FLAG: OFF = 0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0, HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0

09:44:28.596632, **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=0x8000000b33b8, 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: OFF = 0, HK_LFR_MAG_FIELDS_FLAG: OFF = 0, SY_LFR_WATCHDOG_ENABLED: DISABLED = 0, HK_LFR_CALIB_ENABLED: DISABLED = 0, HK_LFR_RESET_CAUSE: UNKNOWN_CAUSE = 0, SY_LFR_SW_VERSION_N1=3, SY_LFR_SW_VERSION_N2=0, SY_LFR_SW_VERSION_N3=0, SY_LFR_SW_VERSION_N4=8, SY_LFR_FPGA_VERSION_N1=1, SY_LFR_FPGA_VERSION_N2=1,

SY_LFR_FPGA_VERSION_N3=89, HK_LFR_CPU_LOAD=0.78431372549, HK_LFR_CPU_LOAD_MAX=1.96078431373, HK_LFR_CPU_LOAD_AVE=0.0, HK_LFR_Q_SD_FIFO_SIZE_MAX=1, HK_LFR_Q_SD_FIFO_SIZE=50, HK_LFR_Q_RV_FIFO_SIZE_MAX=1, HK_LFR_Q_RV_FIFO_SIZE=10, HK_LFR_Q_P0_FIFO_SIZE_MAX=0, HK_LFR_Q_P0_FIFO_SIZE=10, HK_LFR_Q_P1_FIFO_SIZE_MAX=0, HK_LFR_Q_P1_FIFO_SIZE=10, HK_LFR_Q_P2_FIFO_SIZE_MAX=0, HK_LFR_Q_P2_FIFO_SIZE=5, HK_LFR_UPDATE_INFO_TC_CNT=0, HK_LFR_UPDATE_TIME_TC_CNT=0, HK_LFR_EXE_TC_CNT=0, HK_LFR_REJ_TC_CNT=1, HK_LFR_LAST_EXE_TC_ID=0x0, HK_LFR_LAST_EXE_TC_TYPE=0, HK_LFR_LAST_EXE_TC_SUBTYPE=0, HK_LFR_LAST_EXE_TC_TIME=0x000000000000, **HK_LFR_LAST_REJ_TC_ID=0x1ccc**, **HK_LFR_LAST_REJ_TC_TYPE=181**, **HK_LFR_LAST_REJ_TC_SUBTYPE=41**, HK_LFR_LAST_REJ_TC_TIME=0x8000000b2f7a,

Conséquence

Tous fichiers Detail.txt générés avant la modification auront ce défaut. Les fichiers Detail.txt générés à partir du 29/09/2015 sont corrects.