

LFR-FSW - Bug #427

R3 *** TM_LFR_TC_EXE_* : 3 parameters of SOURCE_DATA are switched

08/06/2015 12:07 PM - Veronique bouzid

Status:	Closed	Start date:	08/06/2015
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

Dans la R3 il y a un réagencement des formats des TM de type (1,2) et (1,8).

PA_RPW_TELECOMMAND_PKT_ID : octet 16 et 17

PA_RPW_PKT_SEQ_CONTROL : octet 18 et 19

PA_RPW_TC_FAILURE_CODE : octet 20 et 21

Nous sommes donc concernées par cette dernière catégorie.

Voici les TM concernées

TM_LFR_TC_EXE_INCONSISTENT

TM_LFR_TC_EXE_NOT_EXECUTABLE

TM_LFR_TC_EXE_NOT_IMPLEMENTED

TM_LFR_TC_EXE_ERROR

TM_LFR_TC_EXE_CORRUPTED

En version R3, on ne peut plus tester TM_LFR_TC_EXE_NOT_IMPLEMENTED car tout est implémenté.

Je ne sais pas tester TM_LFR_TC_EXE_ERROR (cf le pt redmine ouvert)

Pour les 3 autres TM_LFR_TC_EXE_j ai rejoué les scripts:

/opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0003/loop_tm_lfr_tc_exe.py pour tester TM_LFR_TC_EXE_NOT_EXECUTABLE et TM_LFR_TC_EXE_CORRUPTED

08:11:40.019584, **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=1058, (**PACKET_SEQUENCE_CONTROL=0xc422**), 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 = 0x22e5

08:11:40.040638, **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=0x8000000a61a6, **PA_RPW_TELECOMMAND_PKT_ID=0xa410**, **PA_RPW_PKT_SEQ_CONTROL=0x1ccc**, **PA_RPW_TC_FAILURE_CODE: 50210**, 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

Le parametre PA_RPW_TELECOMMAND_PKT_ID devrait etre egal à PACKET_ID=0x1ccc

Le PA_RPW_PKT_SEQ_CONTROL devrait etre egal à 0xc422

Le parametre PA_RPW_TC_FAILURE_CODE est incorrect

08:11:42.041002, **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=11443, (**PACKET_SEQUENCE_CONTROL=0xecb3**), 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, **CRG = 0xec02(exp=0xec03)**

08:11:42.056988, **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=0x8000000c65b9, **PA_RPW_TELECOMMAND_PKT_ID=0xa415**, **PA_RPW_PKT_SEQ_CONTROL=0x1ccc**, **PA_RPW_TC_FAILURE_CODE: 60595**, idem les 3 parametres sont erronés
Les fichiers de log (2015_06_08-08_13_38*) se trouvent dans /home/validation/data/R3/3.0.0.3/SVS-0003

et /opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0008/tc_execution_failure_report.py pour tester TM_LFR_TC_EXE_INCONSISTENT

08:59:00.784121, **TC_LFR_ENTER_MODE** (CP_LFR_MODE=5), 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=2198, (PACKET_SEQUENCE_CONTROL=0xc896), PACKET_LENGTH=13, 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: ENTER_MODE = 41, SOURCE_ID: MISSION_TIMELINE = 110, SPARE=0, **CP_LFR_MODE: 5**, **CP_LFR_ENTER_MODE_TIME=0x000000000000**, CRC = 0xc6f6

08:59:00.78821, **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=20, (PACKET_SEQUENCE_CONTROL=0xc014), 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=0x8000000fbe00, **PA_RPW_TELECOMMAND_PKT_ID=0x5**, **PA_RPW_PKT_SEQ_CONTROL=0x1ccc**, **PA_RPW_TC_FAILURE_CODE: 51350**, **PA_RPW_TC_SERVICE=181**, **PA_RPW_TC_SUBTYPE=41**, **PA_RPW_BYTE_POSITION=11**, **PA_RPW_RCV_VALUE=5**
Les 3 parametres sont erronés

Les fichiers de log (2015_06_08-08_59_16*) se trouvent dans /home/validation/data/R3/3.0.0.3/SVS-0008

Contexte de test

FSW 3.0.0.3
VHDL 1.1.83
EM1 sans timegen
SocExplorerEngine.getSocExplorer: Version = 0.6.2, Branch = default, Changeset = 819d0376d481
StarDundee spacewire

History

#1 - 09/06/2015 08:00 AM - paul leroy

- Status changed from New to Resolved
- Assignee changed from paul leroy to Veronique bouzid

modification effectuée, fsw >= 3.0.0.4

#2 - 26/06/2015 01:36 PM - Veronique bouzid

- Status changed from Resolved to Closed

le bug est corrigé en version 3.0.0.7.

2 scripts ont été rejoués
/opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0003/loop_tm_lfr_tc_exe.py pour valider TM_LFR_TC_EXE_NOT_EXECUTABLE et TM_LFR_TC_EXE_CORRUPTED
et
/opt/VALIDATION_R3/lfrverif/LFR_SVS/SVS-0008/tc_execution_failure_report.py pour valider TM_LFR_TC_EXE_INCONSISTENT

SVS-0003

11:13:48.097674, **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=6318, (PACKET_SEQUENCE_CONTROL=0xd8ae), 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 = 0x785d

11:13:48.118308, **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=0x800000fa1ed, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xd8ae, **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

11:13:50.118673, **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=14865, (PACKET_SEQUENCE_CONTROL=0xfa11), 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 = 0xf491(exp=0xf490)

11:13:50.135709, **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=0x80000011a646, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xfa11, **PA_RPW_TC_FAILURE_CODE: CORRUPTED = 42005**, 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=0xf491, PA_RPW_COMPUTED_CRC=0xf490

les fichiers de log (2015_06_26-11_15_46*) sont dans /home/validation/data/R3/3.0.0.7/SVS-0003

SVS-0008

09:46:13.451047, **TC_LFR_ENTER_MODE** (CP_LFR_MODE=5), 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=483, (PACKET_SEQUENCE_CONTROL=0xc1e3), PACKET_LENGTH=13, 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: ENTER_MODE = 41, SOURCE_ID: MISSION_TIMELINE = 110, SPARE=0, /!CP_LFR_MODE: 5, CP_LFR_ENTER_MODE_TIME=0x000000000000, CRC = 0xbb8e

09:46:13.458974, **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=20, (PACKET_SEQUENCE_CONTROL=0xc014), 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=0x800000875267, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc, PA_RPW_PKT_SEQ_CONTROL=0xc1e3, **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=5

les fichiers de log (2015_06_26-09_46_26-*) sont dans /home/validation/data/R3/3.0.0.7/SVS-0008

Contexte du test

FSW 3.0.0.7

VHDL 1.1.83 (_c car chgt de contrainte sur timing)

EM sans Timegen

SocExplorerEngine.getSocExplorer: Version = 0.6.2, Branch = default, Changeset = 819d0376d481

StarDundee