

## LFR-FSW - Bug #114

### TM\_LFR\_TC\_EXE\_ERROR inopportun

03/04/2014 02:00 PM - Gerald Saule

<b>Status:</b>	Closed	<b>Start date:</b>	03/04/2014
<b>Priority:</b>	Low	<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>	1.00 hour
<b>revision:</b>	r114		

#### Description

LFR émet TM\_LFR\_TC\_EXE\_ERROR sans justification.

Au démarrage, la commande d'une transition vers STANDBY est rejetée (ce qui est normal, étant déjà en STANDBY). Il ne doit pas y avoir de second acquittement par un TM\_LFR\_TC\_EXE\_ERROR.

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11:22:35.48082, TC_LFR_ENTER_MODE (PACKET_SEQUENCE_CONTROL=*0xdc85*), CP_LFR_MODE: STANDBY = 0,
CP_LFR_ENTER_MODE_TIME=0x00000000000000
11:22:36.716753, TM_LFR_HK
11:22:36.71717, TM_LFR_HK
11:22:36.738436, 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=1, (PACKET_SEQUENCE_CONTROL=0xc001), 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=0x8000000211e0,
PA_RPW_TC_FAILURE_CODE: TC_NOT_EXE = 42000, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc,
PA_RPW_PKT_SEQ_CONTROL=*0xdc85*, 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
11:22:36.73871, TM_LFR_TC_EXE_ERROR, 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=17, 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=0x800000021227,
PA_RPW_TC_FAILURE_CODE: FAIL_DETECTED = 42003, PA_RPW_TELECOMMAND_PKT_ID=0x1ccc,
PA_RPW_PKT_SEQ_CONTROL=*0xdc85*, PA_RPW_TC_SERVICE=181, PA_RPW_TC_SUBTYPE=41
```

#### Contexte:

LPPMON: Version=0.2.2 Branch=default Changeset=835955994d5f  
Carte mini-LFR: LFR-172200 dev V1.0; No série III (sans connecteurs sub-click)  
Vhdl: mini-lfr\_0.1.9  
Brique Star-Dundee S/N <illisible>.  
Soft:1.0.0.5 (variante sur carte finale)

TEST CASE = SVS-0013

Req = s.o.

RPW-SYS-IDB-00067-LES\_Issue2\_Rev2  
RPW-SYS-MEB-LFR-ICD-00097 Issue2\_Rev2  
RPW-SYS-SSS-00013-LES + Annex\_Release\_Definition Issue2\_rev2

#### History

#1 - 02/05/2014 02:53 PM - paul leroy

- Status changed from New to Resolved

- Assignee changed from paul leroy to bruno katra

fsw >= 1.0.0.6

bug corrigé

**#2 - 23/05/2014 03:11 PM - Veronique bouzid**

- Status changed from Resolved to Closed

Hello,

Le test SVS-0013 a été rejoué, il se compose de 4 steps lancé par nominal\_tc\_lfr\_update\_time\_Step0x.py avec x= 1,2,3,4

- recherche dans les fichiers Details de la génération de TM\_LFR\_EXE\_ERROR (2014\_05\_23-13\_\*)  
--> AUCUNE

- Analyse du début de sequence de chaque step.

Ici la sequence representée correspond à celle du step01

13:21:58.878481, **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=10719, (PACKET\_SEQUENCE\_CONTROL=0xe9df), 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: STANDBY = 0, CP\_LFR\_ENTER\_MODE\_TIME=0x000000000000, CRC = 0xfad1

13:21:58.897998, **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=1, (PACKET\_SEQUENCE\_CONTROL=0xc001), 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=0x800000008f5e, PA\_RPW\_TC\_FAILURE\_CODE: TC\_NOT\_EXE = 42000, PA\_RPW\_TELECOMMAND\_PKT\_ID=0x1ccc, PA\_RPW\_PKT\_SEQ\_CONTROL=0xe9df, 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

13:21:59.899066, **TC\_LFR\_UPDATE\_TIME**, 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=11, 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: TIME\_MANAGEMENT = 9, SERVICE\_SUBTYPE: UPDATE\_TIME = 129, SOURCE\_ID: MISSION\_TIMELINE = 110, CP\_RPW\_TIME=0x3ccfbccd0000, CRC = 0x79ef

13:22:00.495571, **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=1, (PACKET\_SEQUENCE\_CONTROL=0xc001), PACKET\_LENGTH=117, 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=0x800000022835

Plus de TM\_LFR\_EXE\_ERROR

Contexte:

LPPMON Version=0.2.2 - Branch=default - Changeset=835955994d5f

Carte mini-LFR: LFR-172200 dev V1.0; No série 5

Vhdl: 0.0.16

Soft: 1.0.0.6 (variante sur carte finale)

Brique Star-Dundee S/N **XX**.

Scripts utilisés :

SVS-0013/nominal\_tc\_lfr\_update\_time\_Step0[1,2,3,4].py