

## LFR-FSW - Bug #558

### [QR R3] [RPWMEB-515] - TM\_LFR\_TC\_EXE\_INCONSISTENT au lieu de TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE attendu

03/11/2015 12:02 PM - bruno katra

<b>Status:</b>	Closed	<b>Start date:</b>	03/11/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	bruno katra	<b>% Done:</b>	90%
<b>Category:</b>	SRS	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>revision:</b>	r0		

#### Description

In order to test failure cases, a wrong telecommand TC\_LFR\_ENTER\_MODE is sent. A telemetry packet TM\_LFR\_TC\_EXE\_INCONSISTENT is received instead of a telemetry packet TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE (which is the expected behaviour).

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A cloturer après maj SRS.

#### History

##### #1 - 03/11/2015 12:02 PM - bruno katra

Le 19/10/2015 08:12, paul leroy a écrit :

Je veux bien faire la modif si ça arrange tout le monde, mais je préférerais mon interprétation bien entendu.

Le 10/16/2015 10:29 AM, Bruno Katra a écrit :

Salut à tous !

concernant ce point, je comprends qu'en cas de TC\_LFR\_ENTER\_MODE à une date définie erronée, le LESIA souhaiterait recevoir du fsw un TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE mais actuellement nous envoyons un TM\_LFR\_TC\_EXE\_INCONSISTENT.

Or la sss dit :

SSS-CP-EQS-150 Equipment command feedback

The equipment flight software shall produce, depending on the final status of the execution and the possible encountered errors, the following command acknowledgment packets (which are compliant to the PUS service n° 1):

- TM\_xxx\_TC\_EXE\_INCONSISTENT in case of wrong or inconsistent field in the data fields.
- TM\_xxx\_TC\_EXE\_NOT\_EXECUTABLE in case of command that can not be executed at this time.

Là on est dans la pure philosophie car au niveau de l'interprétation, je rejoins Paul, les 2 cas sont défendables!

Il se trouve que les 2 autres instruments ont choisi le TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE et que du coup on nous demande de se plier à la raison du plus grand nombre et faire comme eux.

Si cette analyse vous convient, je vais ouvrir un point redmine en NC (dès que notre serveur redmine sera reparti) et répondre au JIRA.

A+

bRunO

##### #2 - 03/11/2015 12:03 PM - bruno katra

- Subject changed from JIRA RPWMEB-515 to JIRA RPWMEB-515 - TM\_LFR\_TC\_EXE\_INCONSISTENT au lieu de TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE attendu

##### #3 - 26/01/2016 03:27 PM - paul leroy

- Assignee changed from paul leroy to bruno katra

fsw >= 3.0.0.14

J'ai fait la modification, je renvoie maintenant TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE si la date est erronée.

#### #4 - 28/01/2016 11:12 AM - bruno katra

- Description updated

- Status changed from New to In Progress

- % Done changed from 0 to 90

Constaté OK par Véronique.

A cloturer après maj SRS.

#### #5 - 28/01/2016 11:13 AM - bruno katra

- Subject changed from JIRA RPWMEB-515 - TM\_LFR\_TC\_EXE\_INCONSISTENT au lieu de TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE attendu to [QR R3] [RPWMEB-515] - TM\_LFR\_TC\_EXE\_INCONSISTENT au lieu de TM\_LFR\_TC\_EXE\_NOT\_EXECUTABLE attendu

#### #6 - 28/01/2016 11:54 AM - Veronique bouzid

Bug (qui n'en est pas un) est corrigé en 3.0.0.14.

Le script rejoué est /opt/VALIDATION\_R3/lfrverif/LFR-SVS/SVS-0034/activateLfrModeNominalCuc.py.

Les fichiers (2016\_01\_27-08\_29\_33\*) se trouvent dans /home/validation/data/R3/3.0.0.14/1.1.89/SVS-0034.

Voici un extrait du fichier Detail.txt

08:23:52.07408, **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=158, (PACKET\_SEQUENCE\_CONTROL=0xc09e), 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=0x800000a0439b**, PA\_LFR\_HK\_REPORT\_SID: LFR\_HK\_SID = 1, HK\_LFR\_MODE: SBM2 = 4,

08:23:52.099268,\* TC\_LFR\_ENTER\_MODE (CP\_LFR\_MODE=1)\*, 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=5545, (PACKET\_SEQUENCE\_CONTROL=0xd5a9), 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: NORMAL = 1, **CP\_LFR\_ENTER\_MODE\_TIME=0x000000a40000**, CRC = 0xe084

08:23:52.154976, **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=67, (PACKET\_SEQUENCE\_CONTROL=0xc043), 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=0x800000a05836, PA\_RPW\_TELECOMMAND\_PKT\_ID=0x1ccc, PA\_RPW\_PKT\_SEQ\_CONTROL=0xd5a9, PA\_RPW\_TC\_FAILURE\_CODE: TC\_NOT\_EXE = 42000, PA\_RPW\_TC\_SERVICE=181, PA\_RPW\_TC\_SUBTYPE=41, HK\_LFR\_MODE: SBM2 = 4, HK\_LFR\_DPU\_SPW\_ENABLED: ENABLED = 1, HK\_LFR\_DPU\_SPW\_LINK\_STATE: RUN = 5, SPARE=0, HK\_LFR\_SC\_POTENTIAL\_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: POWER\_ON = 1

Ici le log concerne une commutation en normal mode. Dans le fichier tous les modes ont été testés et à chaque fois Ila TM\_LFR\_TC\_NOT\_EXECUTABLE a été généré si le champ CP\_LFR\_ENTER\_MODE\_TIME.

Contexte du test

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FSW 3.0.0.14

VHDL 1.1.89

EM sans timegen

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

StarDundee

#### #7 - 01/03/2016 03:45 PM - bruno katra

- Status changed from In Progress to Closed

Mis à jour dans SRS 2.0