

LFR-FSW - Bug #238

Wrong behavior after SY_xxx_DPU_CONNECT_ATTEMPT unsuccessful attempts of connection with the DPU

16/09/2014 03:14 PM - bruno katra

Status:	Closed	Start date:	16/09/2014
Priority:	High	Due date:	
Assignee:	bruno katra	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
revision:	r0		

Description
also tracked by <https://jira-lesia.obspm.fr/browse/RPWSWR-623>

Conforming to SSS-CP-EQS-155, after unsuccessful attempts to connect to DPU : LFR should enter in standby mode.

The test we made (SVS-0064) by unplugging SpaceWire link when in normal mode and replugging it after shows that LFR stayed in Normal mode instead of going to standby.

Contexte:

SocExplorer
Carte EM2
Vhdl:
Soft: 1.0.0.11 (variante sur carte finale)
Brique Star-Dundee S/N 46120065.

TEST CASE = SVS_0064

History

#1 - 05/02/2015 08:57 AM - paul leroy

- Status changed from New to Resolved
- Assignee changed from paul leroy to bruno katra

modification des timeout et de la séquence de tentative de reconnection.

relancer le test en FSW >= 2.0.2.1

#2 - 15/10/2015 11:29 AM - bruno katra

- Assignee changed from bruno katra to paul leroy
- Priority changed from Normal to High

Retesté en 2.0.2.1 et 3.0.0.10 et VHDL 1.1.89 : bug toujours présent.

On s'est mis en NORMAL puis on a deconnecté l'interface SpW.

Lors de la reconnection environ 60 secondes après : on voit uniquement des HK arriver dans SocExplorer MAIS les HK montrent que le LFR_MODE est à 1 + une demande changement de mode vers NORMAL renvoie NOT_EXECUTABLE confirmant ainsi que LFR est resté en NORMAL mais sans production de paquets SCIENCE.

Trace APB_UART :

```
in suspend_science_tasks
OK * in action_enter_mode enter mode 1
in PRC0 lfrRequestedMode is 1, several headers not initialized
in PRC1 lfrRequestedMode is 1, several headers not initialized
47
48
in SPIQ got SPW_LINKERR_EVENT
in SPIQ linkStatus 2, wait...
in spacewire_reset_link link recovery, try 0
in spacewire_reset_link ERR spacewire_start_link code -1
```

in spacewire_reset_link **link recovery, try 1**
in **spacewire_reset_link** ERR spacewire_start_link code -1
in spacewire_reset_link **link recovery, try 2**
in **spacewire_reset_link** ERR spacewire_start_link code -1
in suspend_science_tasks
in WTDG **wait for the link**
49
50
51
52
53
in HOUS ERR send: 5
in HOUS **ERR send: 5**
in HOUS ERR send: 5
in HOUS **ERR send: 5**
in HOUS ERR send: 5
in HOUS **ERR send: 5**
in HOUS ERR send: 5
in HOUS **ERR send: 5**
in HOUS ERR send: 5
in HOUS **ERR send: 5**
54
in HOUS ERR send: 5
in HOUS **ERR send: 5**
in WTDG * OK link started
55
56

#3 - 15/10/2015 11:29 AM - bruno katra

- Status changed from Resolved to In Progress

#4 - 04/12/2015 04:38 PM - bruno katra

- Description updated

#5 - 04/12/2015 04:39 PM - bruno katra

- Description updated

#6 - 26/01/2016 03:21 PM - paul leroy

- Assignee changed from paul leroy to bruno katra

corrigé dans fsw >= 3.0.0.14

J'ai repéré le bug. Les HK n'était pas à jour et la variable locale lfrCurrentMode non plus.

Normalement, ça devrait marcher maintenant. Pour le moins le test que vous avez fait, j'ai essayé de mon côté avec MINI-LFR 0.1.89.

#7 - 01/03/2016 04:44 PM - bruno katra

- Status changed from In Progress to Closed

- % Done changed from 0 to 100

testé OK