

OsmoTRX - Bug #3340

osmo-trx-lms doesn't exit nor recover if device is unplugged

06/13/2018 01:35 PM - laforge

Status:	Resolved	Start date:	06/13/2018
Priority:	High	Due date:	
Assignee:	pespin	% Done:	100%
Category:	LimeSDR		
Target version:			
Spec Reference:			

Description

Especially with USB based devices, it's not completely unlikely that once upon a time there is a bus reset or some other event that makes the device disappear.

The current behavior of osmo-trx-lms is to start spewing error messages, but it will not terminate, nor will it recover after the USB device is re-attached.

```
Wed Jun 13 15:34:30 2018 DMAIN <0000> LMSDevice.cpp:509 [tid=140361119426304] LMS: Device receive
timed out
Wed Jun 13 15:34:30 2018 DMAIN <0000> radioInterface.cpp:319 [tid=140361119426304] Receive error 3
40
Wed Jun 13 15:34:30 2018 DMAIN <0000> LMSDevice.cpp:507 [tid=140361119426304] chan 0 recv buffer o
f len 0 expect dc7d50 got 0 (0) diff=fffffffff2382b0
Wed Jun 13 15:34:30 2018 DMAIN <0000> LMSDevice.cpp:509 [tid=140361119426304] LMS: Device receive
timed out
Wed Jun 13 15:34:30 2018 DMAIN <0000> radioInterface.cpp:319 [tid=140361119426304] Receive error 0
Wed Jun 13 15:34:30 2018 DMAIN <0000> LMSDevice.cpp:507 [tid=140361119426304] chan 0 recv buffer o
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timed out
Wed Jun 13 15:34:30 2018 DMAIN <0000> radioInterface.cpp:319 [tid=140361119426304] Receive error 0
Wed Jun 13 15:34:30 2018 DMAIN <0000> LMSDevice.cpp:507 [tid=140361119426304] chan 0 recv buffer o
f len 0 expect dc7d50 got 0 (0) diff=fffffffff2382b0
```

I think the easiest would be to exit the program and have systemd respawn it, like we do with other osmocom programs

Related issues:

Related to OsmoTRX - Feature #2919: Native LimeSDR support **Resolved** **02/09/2018**

History

#1 - 06/14/2018 07:02 AM - laforge

- Related to Feature #2919: Native LimeSDR support added

#2 - 08/17/2018 01:51 PM - laforge

- Priority changed from Normal to High

#3 - 08/30/2018 12:48 PM - pespin

- Description updated

#4 - 09/03/2018 03:09 PM - pespin

Improved the situation with following patches:

remote: <https://gerrit.osmocom.org/#/c/osmo-trx/+/10739> Logger: Disable pthread cancel point inside Logger destructor

remote: <https://gerrit.osmocom.org/#/c/osmo-trx/+10740> cosmetic: Fix trailing whitespace
remote: <https://gerrit.osmocom.org/#/c/osmo-trx/+10741> radiInterface: forward errors from RadioDevice to Transceiver in recv path
remote: <https://gerrit.osmocom.org/#/c/osmo-trx/+10742> lms: Return error on device read timeout
remote: <https://gerrit.osmocom.org/#/c/osmo-trx/+10743> osmo-trx: Add osmo_signal to stop whole transceiver chain correctly on error
remote: <https://gerrit.osmocom.org/#/c/osmo-trx/+10744> radiInterface: Fix variable storing integer return value

So after those patches are applied, when I disconnect the usb plug of the device it will signal that the device is failing and osmo-trx will destroy the transceiver object (and all the other objects behind it) and once it's done, it will end the process.

#5 - 09/04/2018 03:00 PM - pespín

- Status changed from *New* to *Feedback*
- % Done changed from 0 to 90

#6 - 09/06/2018 10:13 AM - pespín

- Status changed from *Feedback* to *Resolved*
- % Done changed from 90 to 100

Merged, closing.