

OsmoTRX - Bug #3654

Can't select LimeSDR by serial number

10/15/2018 03:01 PM - Y2Kot

Status: Resolved	Start date: 10/15/2018
Priority: Normal	Due date:
Assignee: pespin	% Done: 100%
Category:	
Target version:	
Spec Reference:	
Description	
<p>I'm trying to set LimeSDR for using with osmo-trx. I have 2 devices plugged. I set serial number in osmo-trx.cfg, however osmo-trx-lms always get the first one. My config looks like:</p> <pre>log stderr logging filter all 1 logging color 1 logging print category 1 logging timestamp 1 logging print file basename logging level set-all info ! line vty no login ! trx bind-ip 127.0.0.1 remote-ip 127.0.0.1 base-port 5700 egprs disable dev-args serial=0009070105C6170B // I also tried to add just serial but no changes tx-sps 4 rx-sps 4 rt-prio 18 chan 0 tx-path BAND1 rx-path LNAW</pre>	

Associated revisions

Revision 29189367 - 12/12/2018 02:28 PM - osmith

LMSDevice: make use of dev-args in osmo-trx.cfg

Allow selecting a specific LimeSDR device by setting dev-args in the config file. Split up the given dev-args address by comma and select the device where all substrings can be found.

I could not test this with real hardware, but I have added a test case to make sure this works as expected.

Related: OS#3654

Change-Id: I b9aaa066a01bf9de3f78234d7ada884d6f28c852

Revision 8d9a05ce - 12/12/2018 04:26 PM - osmith

osmo-trx.cpp: move comma_delimited_to_vector() to Utils.cpp

Make the "opt" argument const. This function will also be used by LMSDevice.cpp in a follow-up commit.

Related: OS#3654

Change-Id: I f3f0f682ca453c2b0a06175ec9626567932cfce6

Revision 871713bf - 12/13/2018 10:07 AM - osmith

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Related: OS#3654

Change-Id: Ib9aaa066a01bf9de3f78234d7ada884d6f28c852

Revision 42c16560 - 12/17/2018 09:43 AM - osmith

LMSDeviceTest: fix link errors on OBS

Link LMSDeviceTest against LMS_LIBS, so it does not only compile on Debian, but also on Ubuntu and openSUSE. Thanks to roox for figuring this out.

Related: OS#3654

Change-Id: I6980d4290f623485a77db10fea6d17de0321c092

History

#1 - 11/29/2018 12:24 PM - laforge

- Assignee set to osmith

#2 - 11/29/2018 12:26 PM - laforge

#3 - 12/03/2018 06:27 PM - pespin

Check LMSDevice::open in ./Transceiver52M/device/lms/LMSDevice.cpp, "args" is passed there as a string.

What I would do: accept in VTY same format as we use for osmo-trx-uhd, for instance: "LimeSDR-USB,addr=1d50:6108,serial=0009060B00471827"

Then, create a function which splits each token into an vector of strings (comma is the separator).

Then, for each lms_info_str_t returned in LMS_GetDeviceList(info_list), check if all strings coming from the generated vector can be found as substrings of that lms_info_str_t. If that's the case, return that one.

Modify the call to LMS_Open() to use the returned lms_info_str_t instead of info_list⁰.

#4 - 12/10/2018 03:53 PM - osmith

- Status changed from New to In Progress

- % Done changed from 0 to 10

#5 - 12/11/2018 03:51 PM - osmith

- % Done changed from 10 to 90

Patches submitted.

[https://gerrit.osmocom.org/#/q/topic:limesdr-dev-args+\(status:open+OR+status:merged\)](https://gerrit.osmocom.org/#/q/topic:limesdr-dev-args+(status:open+OR+status:merged))

#6 - 12/13/2018 11:13 AM - pespin

- Assignee changed from osmith to pespin

Merged, assigning to myself to make use of this feature in osmo-trx-lms attached in osmo-gsm-tester.

#7 - 03/06/2019 05:49 PM - pespin

- Status changed from In Progress to Resolved

- % Done changed from 90 to 100

Patch submitted in <https://gerrit.osmocom.org/#/c/osmo-gsm-tester/+13150/> uses it in osmo-gsm-tester.