

libosmcore - Bug #1938

lapd_core human readable connection IDs in debug log

02/03/2017 11:31 AM - dexter

Status: Resolved	Start date: 02/03/2017
Priority: Low	Due date:
Assignee: laforge	% Done: 100%
Category:	
Target version:	
Spec Reference:	
Description	
<p>At the moment we print the pointer address to identify the log lines belonging to a specific connection. Since pointer addresses are difficult to work with, a human readable ID should be printed instead.</p> <p>e.g. "This is LAPD instance for SAPI3 on bts0/trx1/ts5/lchan3"</p> <p>This can be implemented by adding a string member to the lapd_datalink struct. The user would set the string to a human readable identifier when the link is created. (See also osmo_fsm).</p> <p>See also: https://gerrit.osmocom.org/#/c/1724/</p>	

Associated revisions

Revision a003fec7 - 06/07/2020 08:31 PM - laforge

Ensure we include lchan name in all LAPDm log lines

This makes use of the newly-introduced lapdm_channel_init3() API, which provides the user (BTS in this case) to provide a human-readable string identifier for each LAPDm channel. This identifier is subsequently used in all related log lines to provide context.

This means we will now get context information about which specific SAPI in which sub-channel (ACCH/DCCH) on which lchan/ts/trx/bts a given message originated from.

Example:

```
DLLAPD <0011> lapd_core.c:829 ((bts=0,trx=0,ts=0,ss=0)[DCCH][0]) SABM received in state LAPD_STATE_IDLE
```

Change-Id: I17e3d4797ec71e31d0775330ae36d2e1fd70423f
Depends: libosmcore.git le6742843fff809edffcac24c4dce4edf66bc71be
Related: OS#1938

Revision 00b2faf8 - 06/08/2020 07:16 PM - laforge

lapd/lapdm: print user-defined string name instead of (dl=%p)

At the moment we print the pointer address to identify the log lines belonging to a specific connection. Since pointer addresses are difficult to work with, a human readable ID should be printed instead.

e.g. "This is LAPD instance for SAPI3 on bts0/trx1/ts5/lchan3"

Change-Id: le6742843fff809edffcac24c4dce4edf66bc71be
Closes: OS#1938

Revision b9031880 - 06/09/2020 07:11 AM - laforge

lapd: Always print context information when logging

Historically, OpenBSC has primarily been used with setups that have a single E1 based BTS connected. This meant that an error message on the E1 LAPD implicitly has to be related to that single BTS.

However, in more comprehensive setups, there may be many BTSs on many E1 lines with many signaling slots. At this point, it's important to know which line/timeslot/tei/sapi a given log message relates to.

This patch introduces related log context.

Change-Id: Ib81a749ae24013b17caaf5fd64ccd9acbbc3ce08

Requires: libosmocore.git Change-Id Ie6742843fff809edffcac24c4dce4edf66bc71be

Related: OS#1938

History

#1 - 05/17/2018 02:02 PM - laforge

- Priority changed from Normal to Low

#2 - 01/08/2020 10:25 PM - laforge

- Assignee deleted (dexter)

#3 - 05/02/2020 04:52 PM - laforge

#4 - 05/02/2020 06:05 PM - laforge

- Status changed from New to In Progress

- Assignee set to laforge

#5 - 05/02/2020 07:36 PM - laforge

- % Done changed from 0 to 80

- libosmocore: <https://gerrit.osmocom.org/c/libosmocore/+18002>
- libosmo-abis: <https://gerrit.osmocom.org/c/libosmo-abis/+18003>
- osmo-bts: <https://gerrit.osmocom.org/c/osmo-bts/+18004>

#6 - 06/13/2020 01:30 PM - laforge

- Status changed from In Progress to Resolved

- % Done changed from 80 to 100

patches all merged now.