

## libosmocore - Bug #1760

### LAPD: segfault in T200 call-back

07/03/2016 02:18 PM - laforge

<b>Status:</b> Closed	<b>Start date:</b> 07/03/2016
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b> laforge	<b>% Done:</b> 100%
<b>Category:</b>	
<b>Target version:</b>	
<b>Spec Reference:</b>	
<b>Description</b>	
<pre>&lt;001c&gt; input/lapd.c:628 LAPD DL-RELEASE indication TEI=62 SAPI=62 &lt;001c&gt; lapd_core.c:378 sending MDL-ERROR-IND cause 1 Program received signal SIGSEGV, Segmentation fault. 0xb7f87783 in lapd_dl_flush_hist (dl=&lt;optimized out&gt;, dl=&lt;optimized out&gt;) at lapd_core.c:162 162             if (dl-&gt;tx_hist[i].msg) { (gdb) p dl \$1 = &lt;optimized out&gt; (gdb) bt #0 0xb7f87783 in lapd_dl_flush_hist (dl=&lt;optimized out&gt;, dl=&lt;optimized out&gt;) at lapd_core.c:162 #1 0xb7f892cd in lapd_t200_cb (data=0x8194230) at lapd_core.c:581 #2 0xb7f5a99b in osmo_timers_update () at timer.c:244 #3 0xb7f5b0e3 in osmo_select_main (polling=0) at select.c:188 #4 0x0804d575 in main (argc=3, argv=0xbffffd44) at bsc_hack.c:375</pre>	
further inspection discovers:	
<ul style="list-style-type: none"><li>• dl-&gt;tx_hist == NULL</li><li>• dl-&gt;range_hist = 2</li></ul>	
<b>Related issues:</b>	
Related to OsmoBSC - Bug #1761: LAPD: segfault when bootstrapping Nokia InSite	<b>Resolved</b> 07/03/2016
Related to libosmocore - Bug #1762: Review LAPD code for race conditions rega...	<b>New</b> 07/03/2016
Related to libosmocore - Bug #4646: SEGV when bringing up Nokia InSite	<b>Resolved</b> 07/04/2020

## History

### #1 - 07/03/2016 02:20 PM - laforge

- Status changed from New to In Progress

So it seems T200 is expiring, but the tx\_hist array is NULL at that point.

tx\_hist is allocated in lapd\_dl\_init() and set to NULL in lapd\_dl\_exit().

The latter appears to be executed before the crash:

```
Breakpoint 1, lapd_dl_exit (dl=0x8194230) at lapd_core.c:319
319     {
(gdb) bt
#0 lapd_dl_exit (dl=0x8194230) at lapd_core.c:319
#1 0xb7f257d3 in lapd_sap_free (sap=0x8194220) at input/lapd.c:249
#2 0xb7f26996 in send_dlsap (dp=0xbffffa14, lctx=0x8194254) at input/lapd.c:629
#3 0xb7f892ba in send_dl_l3 (msg=<optimized out>, lctx=<optimized out>, op=<optimized out>, prim=<optimized out>) at lapd_core.c:359
#4 send_dl_simple (lctx=<optimized out>, op=<optimized out>, prim=<optimized out>) at lapd_core.c:368
#5 lapd_t200_cb (data=0x8194230) at lapd_core.c:577
#6 0xb7f5a99b in osmo_timers_update () at timer.c:244
#7 0xb7f5b0e3 in osmo_select_main (polling=0) at select.c:188
#8 0x0804d575 in main (argc=3, argv=0xbffffd44) at bsc_hack.c:375
```

### #2 - 07/03/2016 04:52 PM - laforge

- File flush.diff added

- % Done changed from 0 to 50

attached diff fixes the crash, but I'm facing other LAPD related issues, not submitting until it is clear.

**#3 - 07/03/2016 06:48 PM - laforge**

- Status changed from In Progress to Closed

- % Done changed from 50 to 100

submitted as <https://gerrit.osmocom.org/451>

**#4 - 07/03/2016 08:17 PM - laforge**

- Related to Bug #1761: LAPD: segfault when bootstrapping Nokia InSite added

**#5 - 07/03/2016 08:20 PM - laforge**

- Related to Bug #1762: Review LAPD code for race conditions regarding state, particularly in RELEASE added

**#6 - 07/04/2020 08:44 AM - laforge**

- Related to Bug #4646: SEGV when bringing up Nokia InSite added

**Files**

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flush.diff	378 Bytes	07/03/2016	laforge
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