

## OsmoBSC - Bug #3474

### SDCCH not released if Radio Link Failure / Sending Connection Failure: cause = 0x001 Experienced in osmo-bsc and osmo-bts-trx

08/20/2018 01:02 AM - ron.menez@entropysolution.com

<b>Status:</b>	Feedback	<b>Start date:</b>	08/20/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	ron.menez@entropysolution.com	<b>% Done:</b>	0%
<b>Category:</b>			
<b>Target version:</b>			
<b>Spec Reference:</b>			

#### Description

Encountered an issue regarding the SDCCH channel not being released immediately after a "Radio Link Failure" is detected in osmo-bsc and an equivalent error of "Sending Connection Failure: cause = 0x01" in osmo-bts-trx.

Error in osmo-bts-trx:

```
<0000> rsl.c:797 (bts=0,trx=0,ts=0,ss=0) Sending Connection Failure: cause = 0x01
```

Error in osmo-bsc:

```
<0003> abis_rsl.c:1372 (bts=0,trx=0,ts=0,ss=0) CONNECTION FAIL in state ACTIVE CAUSE=0x01(Radio Link Failure)
```

With this issue, the SDCCH channel will then be exhausted and no other subscriber can attach and do any services (call and SMS).

Below are the versions of OSMO-BSC, OSMO-BTS-TRX, OSMO-TRX, and OSMO-MSC.

```
OsmoBSC# show version
```

```
OsmoBSC 1.2.1.91-3ff7 (OsmoBSC).
```

```
Copyright (C) 2008-2018 Harald Welte, Holger Freyther
```

```
Contributions by Daniel Willmann, Jan L ubbe, Stefan Schmidt
```

```
Dieter Spaar, Andreas Eversberg, Sylvain Munaut, Neels Hofmeyr
```

```
License AGPLv3+: GNU AGPL version 3 or later <http://gnu.org/licenses/agpl-3.0.html>
```

```
This is free software: you are free to change and redistribute it.
```

```
There is NO WARRANTY, to the extent permitted by law.
```

```
=====
```

```
OsmoBTS# show version
```

```
OsmoBTS 0.8.1.35-6575f0 (OsmoBTS).
```

```
Copyright (C) 2010, 2011 by Harald Welte, Andreas Eversberg and On-Waves
```

```
License AGPLv3+: GNU AGPL version 3 or later <http://gnu.org/licenses/agpl-3.0.html>
```

```
This is free software: you are free to change and redistribute it.
```

```
There is NO WARRANTY, to the extent permitted by law.
```

```
=====
```

```
OsmoTRX# show version
```

```
OsmoTRX 0.4.0 (OsmoTRX).
```

```
Copyright (C) 2007-2014 Free Software Foundation, Inc.
```

```
Copyright (C) 2013 Thomas Tsou <tom@tsou.cc>
```

```
Copyright (C) 2015 Ettus Research LLC
```

```
Copyright (C) 2017-2018 by sysmocom s.f.m.c. GmbH <info@sysmocom.de>
```

```
License AGPLv3+: GNU AGPL version 3 or later <http://gnu.org/licenses/agpl-3.0.html>
```

```
This is free software: you are free to change and redistribute it.
```

```
There is NO WARRANTY, to the extent permitted by law.
```

```
=====
```

```
OsmoMSC# show version
```

```
OsmoMSC 1.2.0.20-2798 (OsmoMSC).
```

```
OsmoMSC - Osmocom Circuit-Switched Core Network implementation
```

Copyright (C) 2016 by sysmocom s.f.m.c. GmbH <[info@sysmocom.de](mailto:info@sysmocom.de)>

Based on OsmoNITB:

(C) 2008-2010 by Harald Welte <[laforge@gnumonks.org](mailto:laforge@gnumonks.org)>

(C) 2009-2012 by Holger Hans Peter Freyther <[zecke@selfish.org](mailto:zecke@selfish.org)>

Contributions by Daniel Willmann, Jan Lübbe, Stefan Schmidt

Dieter Spaar, Andreas Eversberg, Sylvain Munaut, Neels Hofmeyr

License AGPLv3+: GNU AGPL version 3 or later <<http://gnu.org/licenses/agpl-3.0.html>>

This is free software: you are free to change and redistribute it.

There is NO WARRANTY, to the extent permitted by law.

OS used: UBUNTU 16.04.

---

## History

### #1 - 06/21/2020 01:55 PM - laforge

- Status changed from New to Feedback

- Assignee set to [ron.menez@entropysolution.com](mailto:ron.menez@entropysolution.com)

Is this still an issue? If so, can you please provide more logs and possibly a pcap file?

### #2 - 10/05/2020 09:33 PM - fixeria

FYI: we do have a TTCN-3 test case sending RSL\_CONN\_FAIL\_IND with cause RSL\_ERR\_RADIO\_LINK\_FAIL and expecting Clear Request from the BSC.

[https://jenkins.osmocom.org/jenkins/view/TTCN3/job/ttcn3-bsc-test/lastBuild/testReport/\(root\)/BSC\\_Tests/TC\\_chan\\_rel\\_conn\\_fail/](https://jenkins.osmocom.org/jenkins/view/TTCN3/job/ttcn3-bsc-test/lastBuild/testReport/(root)/BSC_Tests/TC_chan_rel_conn_fail/)