

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

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

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 bbecke, Stefan Schmidt
```

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

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```
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```

```
OsmoBTS# show version
```

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

```
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```

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```
=====
```

```
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>
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```
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```

```
OsmoMSC# show version
```

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

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

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Based on OsmoNITB:

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

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

Contributions by Daniel Willmann, Jan Lübbe, Stefan Schmidt

Dieter Spaar, Andreas Eversberg, Sylvain Munaut, Neels Hofmeyr

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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

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/)