OsmoPCU - Bug #4111
BSSGP SUSPEND ACK with unknown BVCI=0
07/17/2019 01:03 PM - fixeria

Status: Resolved
Priority: Normal
Assignee: fixeria
Category:
Target version:
Spec Reference:

Description
When a GPRS-attached MS initiates a circuit-switched service (e.g. SS/USSD or SMS), OsmoSGSN logs the following:

DBSSGP NOTICE gprs_bssgp.c:556 BSSGP BVCI=0 Rx BVC STATUS, cause=Unknown BVCI
DBSSGP ERROR gprs_bssgp.c:563 BSSGP BVCI=0 Rx STATUS cause=Unknown BVCI missing conditional BVCI I E

As far as I understand, OsmoPCU sends BSSGP SUSPEND (BVCI=0) to OsmoSGSN, and gets BSSGP SUSPEND ACK (BVCI=0) from it. So then OsmoPCU realizes that BVCI=0 is now known for some reason, and sends BSSGP STATUS (BVCI=0) with cause "BVCI unknown (5)".

Please see an attached capture. OsmoSGSN is bound to 127.0.0.10:23000, OsmoPCU is at 127.0.0.1:23000.

Related issues:
Related to OsmoPCU - Bug #2384: NSVCI=0 seems to cause problems
Related to OsmoSGSN - Bug #4245: osmo-sgsn hitting assert during osmo-gsm-tes...

History
#1 - 07/17/2019 01:04 PM - fixeria
- Project changed from Cellular Network Infrastructure to OsmoPCU
- Subject changed from GPRS Suspension Request with unknown BVCI to BSSGP SUSPEND ACK with unknown BVCI=0

#2 - 07/17/2019 01:30 PM - laforge
BVCI=0 is the signaling BVCI, which always exists. This is different from the p-t-p BVCI which are explicitly brought up by UNBLOCK procedures and the like.

So claiming that BVCI=0 is unknown is wrong in any case. It is perpetual.

#3 - 11/07/2019 09:22 PM - fixeria
- Status changed from New to Feedback
- Assignee set to fixeria
- % Done changed from 0 to 90

Please see:
https://gerrit.osmocom.org/c/osmo-pcu/+/16006 BSSGP: do not reject SUSPEND ACK / NACK messages
https://gerrit.osmocom.org/c/osmo-pcu/+/16007 BSSGP: properly print BVCI for signalling messages (BVCI=0)

#4 - 11/07/2019 09:58 PM - fixeria
- Related to Bug #2384: NSVCI=0 seems to cause problems added

#5 - 11/08/2019 03:47 PM - fixeria
- Status changed from Feedback to Resolved
- % Done changed from 90 to 100

Merged.
Related to Bug #4245: osmo-sgsn hitting assert during osmo-gsm-tester ping.py test added

Files

<table>
<thead>
<tr>
<th>Filename</th>
<th>Size</th>
<th>Date</th>
<th>Username</th>
</tr>
</thead>
<tbody>
<tr>
<td>bssgp_suspend.pcapng.gz</td>
<td>3.18 KB</td>
<td>07/17/2019</td>
<td>fixeria</td>
</tr>
</tbody>
</table>