

OsmoPCU - Feature #3014

fix re-apply patches reverted by #3013, related: UL and DL packet assignment, and Timing Advance

02/27/2018 09:55 PM - neels

Status: Resolved	Start date: 02/27/2018
Priority: Normal	Due date:
Assignee: msuraev	% Done: 100%
Category:	
Target version:	
Spec Reference:	
Description #3013 resulted in reverting four commits from osmo-pcu master (and I'm not sure whether those commits were important). Look at those changes in detail, find out why they ended up breaking osmo-pcu and re-apply fixed versions.	
Related issues:	
Related to OsmoPCU - Bug #3013: regression: GPRS fatally unresponsive since c...	Resolved 02/27/2018
Related to OsmoPCU - Bug #1548: 11bit RACH support	Resolved 02/23/2016
Related to OsmoPCU - Bug #3828: UL (M)CS update errors in TBF test	Resolved 03/07/2019
Related to OsmoPCU - Bug #3827: BSSGP counter group errors in TBF test	Resolved 03/07/2019
Related to OsmoPCU - Bug #1524: PACCH on the wrong timeslot	Stalled 02/22/2016

History

#1 - 02/27/2018 09:58 PM - neels

here are pointers to the patches again:

reverted:

[#3013#note-2](#)

https://gerrit.osmocom.org/#/q/status:open+project:osmo-pcu+branch:master+topic:fix_regression

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<https://gerrit.osmocom.org/6976> Revert "Use Timing Advance Index in UL assignments"

<https://gerrit.osmocom.org/6977> Revert "Rewrite Packet Uplink Assignment"

<https://gerrit.osmocom.org/6978> Revert "Rewrite Packet Downlink Assignment"

<https://gerrit.osmocom.org/6979> Revert "Rewrite EGPRS Packet Uplink Assignment"

original patches:

```
commit 6298fbb7b2f3639fde994633e33ba54a64a6ef9b
```

```
Author: Max <msuraev@sysmocom.de>
```

```
Date: Tue Jan 9 18:58:54 2018 +0100
```

```
Use Timing Advance Index in UL assignments
```

```
Write TAI (if available) when generating Rest Octets for UL
Assignment. This should not affect actual PCU behavior because TAI is
not yet supported by upper layers but we have to adjust corresponding
tests anyway.
```

```
Change-Id: I8b17be78a46c0bc17516b7c90f35aa4768010ae4
```

```
commit 93d947f5e8a30acc9250c124bf9d5bb6a8863526
```

```
Author: Max <msuraev@sysmocom.de>
```

```
Date: Tue Jan 9 18:54:29 2018 +0100
```

```
Rewrite Packet Uplink Assignment
```

```
Use bitvec_set_*() directly without external write pointer tracking to
simplify the code. This is part of IA Rest Octets (3GPP TS 44.018
$10.5.2.16) which is the last part of the message so it should not
interfere with the rest of encoding functions.
```

The tests are adjusted accordingly.

Change-Id: I44db2eaaa7448ff67e688ae716487bc6dbfc96a3
Related: OS#1526

commit 896574e92bea09ed8d39688b6fdf504e84521746
Author: Max <msuraev@sysmocom.de>
Date: Tue Jan 9 18:45:41 2018 +0100

Rewrite Packet Downlink Assignment

Use `bitvec_set_*`() directly without external write pointer tracking to simplify the code. This is part of IA Rest Octets (3GPP TS 44.018 §10.5.2.16) which is the last part of the message so it should not interfere with the rest of encoding functions.

The tests are adjusted accordingly.

Change-Id: I52ec9b07413daabba8cd5f1fba5c7b3af6a33389
Related: OS#1526

commit 529ce885450946d85d1920fb3d1a994c3efe5849
Author: Max <msuraev@sysmocom.de>
Date: Tue Jan 9 13:15:05 2018 +0100

Rewrite EGPRS Packet Uplink Assignment

Use `bitvec_set_*`() directly without external write pointer tracking to simplify the code. This is part of IA Rest Octets (3GPP TS 44.018 §10.5.2.16) which is the last part of the message so it should not interfere with the rest of encoding functions.

Reusable fragments are split into static helpers.

Change-Id: I2139fb347b3290621bbc3f6a031f7f213d372e65
Related: OS#1526

#2 - 02/27/2018 10:05 PM - neels

quoting laforge on irc: [a good way] "to approach this is to use the TEMS phones and look at the protocol decodes of the messages before/after the related change"

#3 - 02/27/2018 10:05 PM - neels

- Related to Bug #3013: regression: GPRS fatally unresponsive since commit 'Rewrite Packet Downlink Assignment' added

#4 - 03/03/2018 09:45 PM - laforge

- Assignee set to sysmocom

#5 - 10/02/2018 03:43 PM - laforge

#6 - 02/14/2019 04:37 PM - msuraev

- Related to Bug #1548: 11bit RACH support added

#7 - 03/07/2019 05:18 PM - msuraev

- Status changed from New to In Progress

- Assignee changed from sysmocom to msuraev

- % Done changed from 0 to 10

The re-worked patch series is in gerrit, pending merge of MCS-related fixes.

#8 - 03/07/2019 05:18 PM - msuraev

- Related to Bug #3828: UL (M)CS update errors in TBF test added

#9 - 03/07/2019 05:19 PM - msuraev

- Related to Bug #3827: BSSGP counter group errors in TBF test added

#10 - 03/14/2019 03:46 PM - msuraev

- % Done changed from 10 to 50

Gerrit 12956 and preceding patches should fix that.

#11 - 03/26/2019 10:27 AM - msuraev

- Status changed from In Progress to Stalled

- % Done changed from 50 to 60

The current patch series is available in <https://gerrit.osmocom.org/c/osmo-pcu/+13057/> and its dependencies. It's tested in gprs and egprs mode (with two-phase-access option to make sure we're not affected by instabilities described in [#1524](#)) and works fine.

#12 - 03/26/2019 10:28 AM - msuraev

- Related to Bug #1524: PACCH on the wrong timeslot added

#13 - 03/27/2019 02:04 PM - msuraev

- Status changed from Stalled to Resolved

- % Done changed from 60 to 100

Corresponding patches are merged into master.