

OsmoPCU - Bug #2455

MS will not be able to use data service if we let the MS idle about 30 seconds after PDP context activated

08/21/2017 01:50 PM - mqng2

Status: Closed	Start date: 08/21/2017
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	
Target version:	
Spec Reference:	
Description	
<p>I have seen an issue with the Lenovo A916 smartphone when using osmo-pcu from HEAD of master branch (37e4c43a8d9a9b5e64a7dd19c5877d302b7887ac) in LC15 target.</p> <p>If the phone does not use Internet right after PDP context ACT, the phone will be unable to use the Internet. It is also applied in case the phone waits for an amount of time after a first Web page loaded 100%</p> <p>The PCU onfiguration is in below text:</p> <p>Osmo-PCU# Osmo-PCU# show running-config</p> <p>Current configuration: ! ! log stderr logging filter all 1 logging color 1 logging print category 0 logging timestamp 0 logging level all everything logging level cs1 info logging level l1if info logging level rlc mac info logging level rlc mac data notice logging level rlc mac dl info logging level rlc mac ul debug logging level rlc mac sched info logging level rlc mac meas info logging level ns info logging level bssgp info logging level pcu info logging level lglobal notice logging level llapd notice logging level linp notice logging level lmux notice logging level lmi notice logging level lmib notice logging level lsms notice logging level lctrl notice logging level lgtp notice logging level lstats notice logging level lgsup notice logging level loap notice logging level lss7 notice logging level lscpp notice logging level lsua notice logging level lm3ua notice logging level lmgcp notice !</p>	

```

stats interval 5
!
line vty
no login
!
ns
timer tns-block 3
timer tns-block-retries 3
timer tns-reset 3
timer tns-reset-retries 3
timer tns-test 30
timer tns-alive 3
timer tns-alive-retries 10
encapsulation udp local-port 23001
encapsulation framerelay-gre enabled 0
pcu
egprs only
flow-control-interval 10
flow-control force-bvc-bucket-size 596000
flow-control force-bvc-leak-rate 59600
flow-control force-ms-bucket-size 596000
flow-control force-ms-leak-rate 59600
cs 4
cs max 4
no cs threshold
no cs downgrade-threshold
cs link-quality-ranges cs1 6 cs2 5 8 cs3 7 13 cs4 12
mcs link-quality-ranges mcs1 6 mcs2 5 8 mcs3 7 13 mcs4 12 15 mcs5 14 17 mcs6 16 18 mcs7 17 20 mcs8 19 24 mcs9 23
mcs 9
mcs max 9
window-size 64 104
queue lifetime infinite
queue idle-ack-delay 10
no queue codel
alloc-algorithm b
two-phase-access
alpha 0
gamma 0
dl-tbf-idle-time 2000
end
Osmo-PCU#

```

I have also attached pcap and pcu log with activated debug flags for BSSGP, RLCMAC, RLCMACDL and RLCMACUL for investigation.

Related issues:

Related to OsmoGSMTester - Bug #3678: osmo-gsm-tester: add test case: resume ...	Resolved	10/30/2018
Related to OsmoPCU - Bug #3472: GPRS connection is in a state where pdp-conte...	Closed	08/18/2018
Related to OsmoSGSN - Bug #4506: MediaTek MT6*** will not initiate Packet Access	Closed	04/20/2020

History

#1 - 03/03/2018 09:45 PM - laforge

- Assignee set to *sysmocom*

#2 - 10/02/2018 03:43 PM - laforge

#3 - 10/17/2018 09:48 AM - laforge

- Assignee changed from *sysmocom* to *msuraev*

#4 - 10/30/2018 01:43 PM - msuraev

- Related to Bug #3678: osmo-gsm-tester: add test case: resume GPRS use after idling added

#5 - 03/26/2019 01:19 PM - msuraev

I was unable to reproduce this locally or in osmo-gsm-tester (see related ticket). Could it be that this was accidentally fixed by some change in a meantime?

#6 - 04/15/2019 07:49 AM - laforge

- Assignee changed from msuraev to lynxis

#7 - 01/08/2020 10:44 PM - laforge

- Assignee deleted (lynxis)

#8 - 01/22/2020 11:40 AM - fixeria

- Related to Bug #3472: GPRS connection is in a state where pdp-context is active, but data TX cannot initiate from Network side. added

#9 - 09/03/2020 11:18 AM - keith

- Related to Bug #4506: MediaTek MT6*** will not initiate Packet Access added

#10 - 09/03/2020 11:43 AM - keith

msuraev wrote:

I was unable to reproduce this locally or in osmo-gsm-tester (see related ticket). Could it be that this was accidentally fixed by some change in a meantime?

It looks exactly the same as [#4506](#) which describes a MT6753. This ticket mentions Lenovo A916 which is a MT6592 [1]

I cannot reproduce this bug with Intel based phone, Nokia DCT-4, iPhone or the KRZR K3 from motorola (i don't know what the chipset is called)

So I suspect it is mediatek specific.

It would be nice if some other people with a mediatek chipset could test for it.

[1] https://www.gsmarena.com/lenovo_a916-6855.php

#11 - 09/21/2020 09:21 AM - keith

It would be nice to test this Lenovo again now that a patch re [#4506](#) is merged.

#12 - 10/19/2020 07:39 PM - keith

- Status changed from New to Closed

Closing, Fixed in [#4506](#)

Files

pcu-putty.log	1.95 MB	08/21/2017	mqng2
ms-data-service-unusable-after-pdp-act.pcap	2.28 MB	08/21/2017	mqng2