

OsmoPCU - Feature #1559

EGPRS/GPRS multiplexing on single PDCH

02/23/2016 03:16 PM - laforge

Status: New	Start date: 02/23/2016
Priority: Low	Due date:
Assignee:	% Done: 0%
Category:	
Target version:	
Spec Reference:	
Description is it worth doing? it slows down EGPRS once a single GPRS-only MS is around	
Related issues: Related to OsmoPCU - Bug #4338: Add EGPRS tests toTTCN3 PCU_Tests_RAW In Progress 12/23/2019	

History

#1 - 01/22/2020 02:43 PM - pespin

- Related to Bug #4338: Add EGPRS tests toTTCN3 PCU_Tests_RAW added

#2 - 01/22/2020 02:49 PM - pespin

From [laforge](#) in [#4338](#):

[Currently] osmo-pcu supports either GPRS or EGPRS. That means, as soon as you turn on EGPRS, you loose backwards compatibility to non-EGPRS phones. Due to that somewhat strange and unusual (in terms of other implementations) behavior, it shouldn't happen dynamically/automatically, but should be very explicit choice by the user. the "only" ("egprs only") in the vty command also expresses that.

I believe there are some ancient tickets about this. The reason for lack of GPRS backwards compatibility was to first get GPRS and EGPRS by themselves working reliably and tested, and then (if ever) implement the backwards compatibility. I think the main problem is that there are some parts of downlink PDCH which all (or at least all MS with active TBF) need to be able to parse, and in a mixed GPRS + EGPRS cell you then need to not only look at your own TBF/MS capabilities, but also at those of all the other MS to determine if you can send such information in MCS or if you must send it in CS. I think it already starts with things like TFI and USF, which must be decoded by all MS with active TBF.

Related information can be found here, page 83:

https://issuu.com/leliwa/docs/signalling_in_gprs_egprs_chapter_03