

OsmoPCU - Feature #1529

Support MCS 5-9 in uplink

02/22/2016 09:02 PM - zecke

Status:	New	Start date:	02/22/2016
Priority:	Low	Due date:	
Assignee:	sysmocom	% Done:	0%
Category:			
Target version:			
Spec Reference:			

Description

In uplink direction, only MCS1-4 (GMSK) are supported.

- Add decoding of RLC data block header type 1 & 2
- Query the 8PSK power class (if not set, 8PSK may not be used in uplink direction), see 24.008, 10.5.5.12a
- In addition, the 8PSK capability can be indicated by the TS in the 11bit channel request format (44.060, 11.2.5a)
- Dual packet extraction for MCS7-9 is implemented but not tested

According to 44.060, 7.4.1 "If the mobile station has been assigned a TBF in EGPRS mode and the MS does not support EGPRS, or has been assigned an MCS (e.g. 8-PSK in the Uplink) that the MS does not support, the MS shall return to packet idle mode and notify higher layers (TBF establishment failure)." the PCU must not request MCS-5 if the MS hasn't uplink 8PSK capabilities, so these must be checked before requesting it.

History

#1 - 01/11/2017 06:16 PM - msuraev

This seems to be at least partially implemented by Aravind already. Shall this ticket be reassigned?

#2 - 03/01/2018 11:16 PM - laforge

- Assignee deleted (msuraev)

#3 - 03/03/2018 09:45 PM - laforge

- Assignee set to sysmocom