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How-to-Calculate-PDCP-Layer-Average-Throughput-in-LTE

Starting with the definition, PDCP is an abbreviated form for Packet Data Convergence Protocol. PDCP protocol is defined by 3GPP specifications TS 38.323. As shown in the diagram below,

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Calculation in RLC  
this layer lies between RRC on the upper side and RLC on the lower side of the control protocol stack.

5G NR PDCP (Packet Data Convergence Protocol) - Functions ...

When a stream of data comes from IP layer to the physical layer, there are some

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Calculation In It  
overhead being added (e.g, PDCP header, RLC header, MAC header etc). So the IP layer throughput gets lower than the physical layer.

Throughput - ShareTechnote

PDCP is a layer sitting at the top most part of the radio stack. In terms of basic

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Calculation, what PDCP does seems very simple. Just "adding the PDCP header to the incoming data and forward to RLC in downlink", or "removing the PDCP header from the incoming packet and forward it to IP layer in case of uplink" is all that it does.

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Example: 5G NR Throughput calculator

Inputs: J (Number of CCs) =1, Qm,  
modulation order = 8 (i.e. 256 QAM) V

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layer, Number of layers = 4 F, Scaling Factor = 1  $\mu$ , 5G NR Numerology = 1 Number of PRBs = 273 OH (Overhead) = 0.14 symbol duration,  $T_s$  ( $\mu$ s) =  $3.57 \times 10^{-5}$  (Internally calculated) Output: 2.337 Gbps (or 2337 Mbps) Note: Verify, by varying J, we can get 5G NR throughput of 4.674 Gbps ...

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5G NR Throughput Calculator | 5G NR  
Throughput Formula

In HSDPA, the CQI value ranges from 0 ~ 30. 30 indicates the best channel quality and 0,1 indicates the poorest channel quality. Depending which value UE reports, network transmit data with

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different transport block size. If network gets high CQI value from UE, it transmits the data with larger transport block size and vice versa.

How does UE calculate CQI value? - 3dB  
Consult

This parameter is taken with some

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inaccuracy, i.e. initial throughput is multiplied by 2 or 4 either MIMO 2x2 or MIMO 4x4 selected, respectively. In reality throughput will be a bit lower due to increased number of pilot signals. Another notice is calculated throughput includes LTE headers (i.e. PDCP, RLC and MAC).

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LTE throughput calculator

i think all versions of IEEE 802.11

maximum achievable throughput are either given based on measurements under ideal conditions or in the layer 2 data rates. i

hope this paper can help you..

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In which layer should throughput measurements be taken in ...

The PDCP layer provides header compression for IP data streams so is able to reduce the impact of the IP header. The TCP and UDP layers also add their own headers when using TCP or UDP applications . Conclusion: In conclusion,

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the maximum throughput achieved on PDSCH is not a straight forward computation.

What is the maximum DOWNLINK throughput that can be ...

5G-NR User plane contains Phy, MAC, RLC, and PDCP same as LTE and has



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introduced a new layer named as SDAP (Service Data Adaptation Protocol). On another side, the control plane of 5G-NR is identical to LTE, here MME equivalent node named as AMF (Access and Management Mobility Function).

5G NR Radio Protocol Stack (Layer 2 and

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Layer 3) - Techplayon Lt

Cell Throughput =  $(0.50 \times 4) + (0.25 \times 6) + (0.15 \times 8) + (0.10 \times 12) = 5.9$  Mbps. Note: This throughput is much less than the theoretical maximum which assumes that the full 20 MHz bandwidth is being utilized in a 4x4 MIMO configuration.

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Average Cell Throughput Calculations for  
LTE | RAYmaps

At establishment of the PDCP entity, the  
UE shall set RX\_HFN to 0. RX\_HFN For  
PDCP entities for DRBs mapped on RLC  
AM the variable

Last\_Submitted\_PDCP\_RX\_SN indicates  
the SN of the last PDCP SDU delivered to

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the upper layers. At establishment of the PDCP entity, the UE shall set Last\_Submitted\_PDCP\_RX\_SN to 4095. Last\_Submitted\_PDCP\_RX\_SN

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