**3GPP TSG-RAN WG3 #110-e R3-207230**

**2-12 November 2020**

**Online**

Title: Response to restricting the rate per UE per network slice

Response to: R3-206840/S2-2007946

Release: Release 17

Work Item: FS\_NR\_Slice

Source: RAN3

To: SA2, RAN2

Cc:

**Contact Person:**

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Attachments:

**1. Overall Description:**

RAN3 acknowledge the Key issue#3 and corresponding solutions (i.e. solution#22,37,43) and start initial analysis. From RAN3 point of view, Solution#22, Solution#37 and Solution#43 are all feasible from signalling perspective.

For Solution#22, RAN3 acknowledges impact on admission control due to S-MBR apply not only for Non-GBR traffic but also for GBR traffic. It is feasible for the NG-RAN node to perform the DL enforcement of S-MBR. For UL enforcement, RAN3 believes it is up to RAN2 to answer.

For solution#37, it is unclear whether S-MBR should be sent to NG-RAN node, and RAN3 would like SA2 try to avoid any impact on existing UE-AMBR definition which will bring backward compatibility issues. If solution #37 could avoid such signaling and fulfil SA2’s requirements, it would have no RAN3 impacts.

In Solution #22, the RAN would need to split S-MBR between MN and SN in cases of multi connectivity. This will impact performance because it would preclude full usage of the S-MBR.

In solution 37,  if the intention is to use the UE-AMBR to rate control GBR and non-GBR services, the RAN would need to split the newly purposed UE-AMBR between MN and SN in cases of multi connectivity. This will impact performance because it would preclude full usage of the newly purposed UE-AMBR. If solution 37 is based on splitting the S-MBR at the PCF (or central CN node),, this will impact performance because it would preclude full usage of the S-MBR not only in case where multi-connectivity is used in RAN, but also when it is not used.

And For Solution#43, additional notification signaling overhead over interface will be introduced hence this solution generates an impact on RAN.

**2. Actions:**

RAN3 kindly asks SA2 and RAN2 to take above into account and feedback if needed.

**3. Date of Next RAN3 Meetings:**

TSG RAN WG3 Meeting #111-e 25 Jan – 05 Feb 2021 Online

TSG RAN WG3 Meeting #112-e 17 May – 28 May 2020 Online