

3GPP TSG-RAN Meeting #91-e
Electronic Meeting, March 16 - 26, 2021

RP-210259

Qualcomm

Motivation for new WI proposal on
Additional UPIP support for 5GC
connected architectures in LTE and NR

Qualcomm Incorporated

Additional UPIP support for 5GC connected architectures in LTE and NR

- **Background and Motivation**

- In order to provide additional user plane data security, SA3 agreed to additionally support UP-IP for the following 5GC connected RAN architecture options in their Rel-17 WI.

(Reference: SA3 agreed CR: [S3-210703](#) and WID: [SP-200719](#))

- Architecture option 5 and option 7

- SN terminated bearer of architecture option 4

- To comply with the SA3 work, RAN WGs need to introduce necessary signaling enhancements to support UP-IP for above mentioned RAN architecture options.

- **Proposal** : New release-17 WI to introduce RAN2 and RAN3 signalling enhancements to enable UP-IP for UE connected to 5GC (Option 5, Option 7, SN terminated bearer of Option 4).