TSG RAN#82
Sorrento, Italy
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RP-182500

On CN-type agnostic solutions for further mobility enhancements

Samsung Electronics

LTE mobility enhancements

Rel-14 LTE mobility enhancements:

- Rel-14 LTE mobility enhancements were introduced before 5GC was introduced
- Nevertheless, Rel-14 LTE enhancements can be used by a UE implementing option 5, i.e. LTE connected to 5GC
- This is due to the fact the LTE Rel-14 mobility enhancements are implemented at lower levels and did not require any changes in RAN1/RAN4

Rel-16 LTE mobility enhancements:

- Aims at reducing further user plane interruption time to be as close as 0ms
- RAN2 has not yet initiated a discussion on the scope of potential solutions
- However, RAN2 concluded to prioritize LTE/EPC solutions

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Proposals

CN-type agnostic further LTE mobility enhancements:

- Architecture option 5 (LTE connected to 5GC) has already been standardized
- There is an interest and ongoing specification work for further architectural options 4 and 7
- It is counter-productive to develop solutions that are applicable only to EPC.
- That will lead to device performance fragmentation.
- A UE connected to LTE/5GC might have worse performance than LTE/EPC

We ask RAN plenary guidance to consider/prioritize those solutions that are either agnostic to CN type and/or which can be applied to different architectural options.

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Thank You!

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