

**Agenda Item:**

**Source:** Ericsson, NEC Technologies (UK) Ltd, Nokia

**Title:** **Proposed scope of Technical Report 'UE radio access capabilities definition'**

**Document for:** Decision

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## **1 Introduction**

This paper proposes the scope of the Technical Report on UE radio access capabilities. Furthermore, it proposes a work distribution among the TSG RAN WGs.

## **2 Discussion**

The non-access stratum will request Radio Access Bearers (RABs) from the access stratum to support higher layer services (UMTS bearer services, e.g. speech). The RABs are characterised by means of (QoS) parameters, as specified in S2 (23.907). It is then the task of the serving RNC to configure RLC, MAC and layer 1 of the UE and UTRAN properly in order to fulfil the requested RABs. In order for the serving RNC to be able to do this, the serving RNC needs to know the radio access capabilities of the UE: What options does the UE provide for Layer 1, MAC and RLC? It is therefore important to get a good definition of the UE radio access capabilities in order to limit the amount of signalling needed as well as to set the combinations of UE radio access capabilities. The full set of UE radio access capabilities needs to be motivated from both hardware and RAB perspective. It should be noted that some parameters of the radio access capabilities are already defined in the existing RAN specifications. However, there may be a need to define new parameters.

It should be noted that this approach of defining UE radio access capabilities are a bit different from T2's way of defining service capabilities and baseline capabilities. If necessary, it is possible to map UE radio access capabilities to baseline capabilities and service capabilities. Furthermore, this way is in line with CN1's division of the classmark into access stratum part and non access stratum part, see RP-99545.

## **3 Proposal**

The following scope of the technical report is proposed:

"The scope of this technical report is to identify the parameters of the access stratum part of the UE radio access capabilities. Furthermore, the possible combinations of these values are defined."

Since, that in the end, the result of this report will be, to a large extent, incorporated in RAN WG2's specifications and technical reports (RRC and RRM) it is proposed that it is RAN WG2 that should be in charge of the technical report. The other working groups should, however, contribute to the document. E.g. RAN WG1 should provide the relevant information on L1 radio access capabilities.