3GPP TSG-RAN #92-e Draft RP-21xxxx  
Online, 14-18 June 2021

Agenda Item: 5.2

Source: RAN2 Chairman (Moderator)

Title: Report of Offline Discussion [25] UE capabilites

Document for: Discussion

# Introduction

This discussion includes RP-211300 [1], RP-211425 [2], RP-211310 [3], RP-211478 [4].

# Contacts

Please provide a company contact that the email discussion moderator can contact if required.

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| **Company** | **Contact name and email** |
| Moderator | Johan.Johansson@mediatek.com |
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| Huawei, HiSilicon | zhaoyang@huawei.com |
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# NR URLLC UE categories/profiles

RP-211300 [1] Discusses the necessity of NR URLLC UE categories/profiles. The goal of the discussion in RAN#92-e is to make an initial decision on whether or not 3GPP RAN takes care of the definition of UE categories/profiles for URLLC, e.g. defining latency and/or reliability target, given the situation where Rel-17 is going to provide a complete set of URLLC functionalities.

Proposal from [1]: RAN to discuss again the necessity of UE category/profile for URLLC.

Q: Moderator asks companies to Please feedback on whether 3GPP RAN should take care of the definition of UE categories/profiles for URLLC, see explanations in [1]. Can also comment in general on [1].

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| **Company** | **Yes/No** | **Comment / Justification** |
| NTT DOCOMO | No | Although it may be useful for NW to have URLLC UE categories/profiles, it is still unclear how/where to define them. In addition, we have already discussed on the possibility of defining URLLC basic FGs in Rel-16, but there was no consensus to define them even after extensive discussion. |
| Huawei, HiSilicon | Yes | We in general support to define UE type (whether it is a sort of category or profiles can be further discussed) for URLLC. As 3GPP has defined multiple features since Rel-15, with more and more features introduced for Rel16/Rel-17 continuously, it is difficult to leave to the market to choose which features are required to support URLLC services. Therefore we think such definition is very useful and should be defined in Rel-17. |
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# Handling of TR 38.822 for Rel-16 and related handling of R1 and R4 feature lists.

As reported in the R2 report to RP-92-e, RP-210931, the current RAN2 agreements is to treat TR38.822 the same way for Rel-16 Contents as for Rel-15 Contents, i.e. the **Approach 2** below.

RP-211425 [2] proposes the following:

RAN discuss which approach should be taken to handle TS38.822 and notify RAN WGs to have common understanding on the future update on Rel-16 feature lists.

**Approach 1**: update the TR 38.822

An update is allowed to include new feature groups but not for any small “corrections” etc. Instead, the small “corrections” should be made directly to TS 38.306 if applicable.

**Approach 2**: not update the TR 38.822

RAN1/4 can continue with updated feature lists but they reside only in RAN1/4 Tdocs.

Any correction/new features will be introduced only in TS 38.306 directly.

**Approach 2a**: not update the TR 38.822 and RAN1/4 does not update feature lists

Any correction/new features will be introduced only in TS 38.306 directly

Q: Moderator asks companies to feedback on the proposals above, which approach would be preferred and justification, and whether any of the approaches above would not be acceptable. In particular if to deviate from current RAN2 decisions (approach 2), explicit opinions with justifications should be provided.

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| **Company** | **Preference** | **Comment / Justification** |
| NTT DOCOMO | Approach 1 | Allowing “essential” update (if any) for the TR38.822 is beneficial as this TR has been a good reference for 3GPP discussion (e.g., next release UE feature discussion, CR discussion, etc.) and also for development. |
| Huawei, HiSilicon | Either Approach 1  Or approve TR 38.822 only when RAN1/RAN4 becomes stable | In Rel-15 we have had a one short approval for 38.822 without subsequent updates. If RAN1/RAN4 continues updating the feature list, and 38.822 is approved at this plenary without any update, it may bring the risks that misalignment was found later and causes confusion. So either we go for Approach 1, or we only approve 38.822 once RAN1/RAN4 feature list becomes stable enough as a snapshot. |
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# Capability for per FR gap

RP-211310 [3] discussed Capability of per-FR gap and proposes the below:

Q: Moderator asks companies to feedback on the following proposal: Introduce a new A new “per-BC based per-FR gap capability” in Rel.16. If the feature cannot be introduced from Rel.16 because it is “too late”, it should be introduced from Rel.17

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| **Company** | **Yes/No/Rel** | **Comment / Justification** |
| NTT DOCOMO | Rel-17 | This issue should be discussed as part of Rel-17 RRM enh. (as discussed in [92-e-23-RRM-Enh]). |
| Huawei, HiSilicon | Yes  prefer Rel-16 | We support the idea of having finer granularity of per FR gap for Rel-16 as also proposed in RP-211392. If companies think it is too late, to have signaling change for Rel-17 with early implementation since Rel-16 is also acceptable for us. |
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# RAN2 CR Pack in RP-211478

Any other comments on [4] RAN2 CR Pack in RP-2114768 (assume this was flagged)

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| **Company** | **Comment** |
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# References

[1] RP-211300 Introduction of NR UE categories/profiles for URLLC SoftBank

[2] RP-211425 Handling of TR 38.822 for Rel-16 Intel Corporation

[3] RP-211310 Capability for per FR groups Qualcomm Inc.

[4] RP-211478 RAN2 CRs to NR UE capabilities RAN2 CR pack