**3GPP TSG RAN WG1 #102-e R1-200xxxx**

**E-Meeting, 17th** **August – 28th August, 2020**

Agenda: 7.2.11

Source: Moderator (Samsung)

Title: Discussions on [102-e-NR-UEFeature-LS] on RAN1 reply to LS on Rel-16 RAN1 UE feature lists

**Document for:** **Discussion and Decision**

# **Introduction**

RAN1 received a LS [1] from RAN2 on Rel-16 RAN1 UE feature lists for NR. In the LS, RAN2 request to RAN1 that clarification on topic 4.1, 6.1, and 6.2 as below:

**4. NR-DC cell grouping capability4:**

RAN2 has agreed to design the NR-DC cell grouping capability for the UE using the LTE style of capability signaling. RAN2 intends to restrict the NR-DC cell grouping signaling to NR DC combinations with up to 5 bands and for NR DC combinations with more than 5 bands in the combination, the UE cannot signal NR-DC cell grouping. The motivation for the above is that in LTE, there were no DC combinations defined with more than 5 bands, and RAN2 views the same with NR.

**4.1 Further restrictions that are applicable to NR -DC combinations**

RAN2 would like to request RAN1 and RAN4 if they see any additional restrictions in the definition of NR-DC combinations that can help reduce the NR-DC cell grouping capability reporting at the UE.

**6. Misc items related to the UE feature lists:**

**6.1 Dormancy support interpretation in RAN1 UE feature list:**

Regarding FG 18-4/4a/4b in RAN1 UE feature lists, it is RAN2’s view that if RAN1 agrees to allow the UE to report the support of dormancy per band combination, if the UE reports that it supports dormancy for a band combination, the UE should support the dormancy for all the fallback band combinations of this reported band combination. RAN2 would like to RAN1 to notify if this is not RAN1’s intention.

**6.2 FG interpretation in RAN1 and RAN4 UE feature lists:**

It is the view of RAN2 (from RP-200502 [1]) that a UE supporting a feature group should support all the components of the feature group. Based on the UE feature list content, this appears to be not applicable to all the FGs from the lists, and so request RAN1 and RAN4 to clearly indicate the relation among components within a FG when it is not according to the RAN guidance.

During preparation phase of RAN1 #102-e LSs, companies agreed to discuss this issue in the current 7.2.11 agenda [3]. This summary is to collect companies’ views on above question and potential draft LS to RAN2.

# **Discussion**

Please provide your input to questions below.

**Question 1**: Are there any additional restrictions in the definition of NR-DC combinations? Please provide your view on **issue 4.1** as below

**4.1 Further restrictions that are applicable to NR -DC combinations**

* RAN2 would like to request RAN1 and RAN4 if they see any additional restrictions in the definition of NR-DC combinations that can help reduce the NR-DC cell grouping capability reporting at the UE.

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**Question 2**: Is RAN2’s understanding correct? Please provide your view on **issue 6.1** as below

**6.1 Dormancy support interpretation in RAN1 UE feature list:**

* Regarding FG 18-4/4a/4b in RAN1 UE feature lists, it is RAN2’s view that if RAN1 agrees to allow the UE to report the support of dormancy per band combination, if the UE reports that it supports dormancy for a band combination, the UE should support the dormancy for all the fallback band combinations of this reported band combination. RAN2 would like to RAN1 to notify if this is not RAN1’s intention.

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**Question 3**: Is RAN2’s understanding correct? Please provide your view on **issue 6.2** as below

**6.2 FG interpretation in RAN1 and RAN4 UE feature lists:**

* It is the view of RAN2 (from RP-200502 [1]) that a UE supporting a feature group should support all the components of the feature group. Based on the UE feature list content, this appears to be not applicable to all the FGs from the lists, and so request RAN1 and RAN4 to clearly indicate the relation among components within a FG when it is not according to the RAN guidance.

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# **Conclusion**

[TBD]

# **References**

1. R1-2004936 (R2-2006030), Reply LS on Rel-16 UE feature lists, Intel
2. RAN1#102-e preparation phase on LSs, 3GPP TSG RAN1 Chairman, [link](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/5/draft%20R1-200xxxx%20RAN1%23102-e%20preparation%20phase%20on%20LSs%20v015.zip)