3GPP TSG-RAN WG1 Meeting #104-e R1-210xxxx

e-Meeting, Jan 25 – Feb 5th, 2021

**Title:** **[Draft]** LS on Introduction of DL 1024QAM for NR

**Release:** Rel-17

**Work Item:** NR\_DL1024QAM\_FR1

**Source:** Ericsson [RAN WG 1]

**To:** RAN WG 2

**Cc:** RAN WG 4

**Attachments: [Draft RRC parameters for NR DL 1024QAMv3.xls]**

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**1. Overall Description:**

RAN WG1 made the following agreements regarding RRC signalling needed for support of DL 1024-QAM for NR.

* Introduce new RRC signaling to indicate use of 1024-QAM MCS table for at least DCI format 1\_1
  + FFS : support of 1024-QAM MCS table for DCI format 1\_2
    - Note: If 1024-QAM MCS table for DCI format 1\_2 is supported, separate RRC signaling is used for each of the two DCI formats 1\_1 and 1\_2, respectively
  + FFS : whether the RRC signaling is only introduced in PDSCH-Config or it can also be separately configured in SPS-Config
* RRC signaling (mcs-Table-r17) to indicate use of 1024-QAM MCS table for DCI format 1\_1 is present only in PDSCH-config
* Introduce new RRC signaling to indicate use of 1024-QAM CQI table.
* Introduce separate RRC signaling to indicate use of 1024-QAM MCS table for DCI format 1\_2.

The corresponding excel sheet with detailed RRC parameter description is in the attachment.

**2. Actions:**

**To RAN WG 2 group**

**ACTION:** RAN WG1 would like RAN WG2 to take the above into account in their future work.

**3. Date of Next TSG-RAN WG1 Meetings:**

TSG-RAN WG1 Meeting #104-bis-e Apr 12th – Apr 20th, 2021 e-Meeting

TSG-RAN WG1 Meeting #105-e May 19th – May 27th, 2021 e-Meeting