3GPP TSG RAN WG1 #105-e R1-210xxxx

e-Meeting, May 19 - 27, 2021

**Agenda item: 5**

**Source: Moderator (Nokia)**

**Title: [105-e-AI5-LS-01] Discussion summary on reply LS to R1-2104161**

**WI: NR\_NewRAT-Core**

**Document for: Discussion and Decision**

# 1 Introduction

The incoming LS prep phase on [R1-2104161](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104161.zip) *LS on RI bit width for Cat5 UE in EN-DC mode,* RAN2, Nokia, concluded that a reply LS is necessary, and kicked off the following email thread:

[105-e-AI5-LS-01] A reply LS to R1-2104161 is necessary – email discussion/approval till 5/24 (Karri, Nokia)

Documents related to the LS:

* [R1-2104226](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104226.zip) *On RI bit width for Cat5 UE in EN-DC mode*, Nokia, Nokia Shanghai Bell
* [R1-2104578](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104578.zip) *Draft reply LS on RI bit width for Cat5 UE in EN-DC*, ZTE
* [R1-2104640](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104640.zip) *Draft reply LS on Cat-5 with EN-DC*, Qualcomm Incorporated
* [R1-2105280](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105280.zip) *Draft reply LS on RI bit width for Cat5 UE in EN-DC mode*, Samsung
* [R1-2105446](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105446.zip) *Draft reply LS on RI bit width for Cat5 UE in EN-DC mode,* vivo
* [R1-2105935](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105935.zip) *Discussion on RI bit width for Cat5 UE in EN-DC mode*, Huawei, HiSilicon

# 2 Summary the views expressed in the Tdocs

|  |  |
| --- | --- |
| **Source** | **View on the RAN2 question** |
| Nokia | RAN2 interpretation indicated in the LS is correct |
| ZTE | confirm that RAN2’s understanding is correct.  |
| QCOM | Confirm RAN2 understanding |
| Samsung | understanding is same as RAN2’s |
| vivo | confirm RAN2’s interpretation is correct |
| Huawei | confirm that their assumption on RI bit width for Cat5 UEs in EN-DC mode is correct |

**Moderator observation:** All submitted contributions agree with the RAN2 understanding.

**Proposal**: Agree on a reply LS based on a draft provided in section 3.

# 3 Draft LS response to RAN2

3GPP TSG RAN WG1 #105-e R1-210xxxx

e-Meeting, May 19 - 27, 2021

**Title: DRAFT** Reply LS on RI bit width for Cat5 UE in EN-DC mode

**Response to:** [R1-2104161/R2-2104583](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104161.zip)

**Release:** Release 15

**Work Item:** NR\_NewRAT-Core

**Source:** Moderator (Nokia) [RAN1]

**To:** RAN2

**Cc:**

**Contact Person:**

**Name:** Karri Ranta-aho

**E-mail Address:** karri.ranta-aho@nokia.com

**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** -

**1. Overall Description:**

RAN1 would like to thank RAN2 of the LS on RI bit width for Cat5 UE in EN-DC mode [[R1-2104161/R2-2104583](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104161.zip)].

RAN1 would like to confirm the RAN2 interpretation that:

“*the RI bit width for a Cat5 UE is NOT affected by the number of MIMO layers it supports in EN-DC mode but only by the network configuration parameter maxLayersMIMO-r10, PBCH antenna ports and the UE category (without suffix), as in the legacy LTE (or simply, according to TS 36.213 only)*.”

**2. Actions:**

**To RAN2 group.**

**ACTION:** RAN1 respectfully asks RAN2 to take the above response into account in their further work.

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

RAN1#106-e 16 – 27 August 2021 e-Meeting

RAN1#106bis-e 11 – 19 October 2021 e-Meeting

RAN1#107-e 11 – 19 November 2021 e-Meeting