**3GPP TSG-RAN WG3 #113-e R3-213898**

**16-26 Aug 2021**

**Title: [DRAFT] LS on the support of non-collocated co-channel deployment of NR and LTE**

**Response to:**

**Release:** Release 17

**Work Item:** TEI-17

**Source:** China Telecom [to be RAN3]

**To:** RAN1

**Cc:**

**Contact Person:**

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

**1. Overall Description:**

In Rel-15, RAN1 had send a LS (R1-1715041) on coordination between LTE and NR for LTE-NR coexistence in overlapping and adjacent spectrum to RAN3. Based on this LS, RAN3 specified the feature only for the following two scenarios in Rel-15 as LTE and NR have direct interface in NSA scenario:

* Coordination between eNB and en-gNB
* Coordination between gNB and ng-eNB

As illustrated in Fig 1, the PRACH coordination between LTE and NR in non-collocated co-channel deployment has been brought up and discussed in Rel-17 SON/MDT, and now this topic was move to TEI-17 . In such scenario, LTE and NR operates on the same spectrum, e.g., 2.1GHZ. The collocated LTE site and NR site can coordinate the resource usage on the same spectrum to mitigate the interference between LTE cells and neighbouring NR cells. However, when new standalone NR sites are deployed to the same frequency carrier, there may be interference between the standalone NR site and its neighbouring LTE sites, for example, interference between LTE PRACH and NR PRACH.



Figure 1

RAN3 would like to confirm with RAN1 whether above mentioned scenario is valid or not, and If it is valid, which information should be coordinated between LTE and NR standalone site..

**2. Actions:**

**To RAN1 :** RAN3 kindly requests RAN1 to provide feedback whether/how resource coordination between LTE and NR standalone site should be supported.

**3. Dates of Next TSG-RAN WG3 Meetings:**

3GPP TSG RAN WG3#114-e 1 Nov - 11 Nov, 2021 Online

3GPP TSG RAN WG3#115 -e 21 - 25 Feb, 2022 Athens, GR