3GPP TSG-RAN WG3 Meeting #112-e R3-212789

17-27 May 2021

**Agenda item: 20.2.1**

**Source: Nokia, Nokia Shanghai Bell**

**Title: (TP for BL CR for TS 38.300) Cell ID handling on NG/Xn interface**

**Document for: Discussion & decision**

Per the discussion of CB: # 78\_NTN\_NW\_IDhandling, the following TP is proposed for BL CR for TS 38.300.

**TP for TS38.300 BL CR:**

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 36.300: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2".

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[43] 3GPP TS 37.355: "LTE Positioning Protocol (LPP)".

[x] 3GPP TS 38.423: " NG-RAN; Xn Application Protocol (XnAP)".

### 16.x.5 Signalling [FFS]

The Cell Identity used in following cases corresponds to a fixed geographical area, irrespective of the orbit of the NTN payload.

- The Cell Identity indicated by the gNB to the Core Network as part of the User Location Information (as defined in TS 38.413 [26])

- The Cell Identity indicated by the Core Network to the gNB for paging optimisation (as defined in TS 38.413 [26])

- The Cell Identity used for Area of Interest (as defined in TS 38.413 [26])

- The Cell Identity used for PWS (as defined in TS 38.413 [26])

The Cell Identity included within the target identification of the handover messages (as defined in TS 38.413 [26] and TS 38.423 [x]) allows identifying the correct target cell. Editor’s note: it is FFS whether the Cell Identity used in other cases is only allowed to corresponds to a Uu Cell Identity or is allowed to correspond to both, a Uu and a fixed geographical area.

Editor’s note: It is FFS whether the RAN Paging Area as signalled over Xn includes a mapped cell ID, or a Uu cell ID.

The mapping between Cell Identities and geographical areas is configured in the RAN and Core Network.

Editor’s note: It is assumed that the method how the gNB derives the information required to derive the Cell Identity provided to the CN is a matter of implementation and configuration and it is FFS whether this fact requires normative or informative specification text.