LTE to NR NTN mobility Comments file

Template:

# Xnnn

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| Xnnn | LTE to NR NTN mobility |  |  |  |  |  | vnnn | ToDo |

**[Description]**:

**[Proposed Change]**:

**[Comments]**:

Instructions:

1. Copy the template RIL comments fields above (including the Heading Xnnn)
2. Paste the RIL comments fields at its position while **respecting the order of the RILs in the Review file (i.e. keep the order of the spec).**
3. Fill in the fields, see R19 ASN.1 Guideline.
4. Companies may comment whether they agree or disagree.
5. Can copy spec text and use Word “Track changes”, etc.
6. Do not delete text added by other companies.

# V230

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| V230 | LTE to NR NTN mobility | 1 | Clarification for SMTC offset adjustment for LTE TN to NR NTN mobility | N | vivo (Stephen) |  | v002 | PropAgree |

**[Description]**: When smtc-19 is configured, the offset adjustment behavior should be added in the FD of *smtc* included in RRC Release.

**[Proposed Change]**: The offset adjustment based on the actual propagation delay difference should be added in the FD of *smtc* included in RRC Release. E.g.,

***smtc***

The SSB periodicity/offset/duration configuration of the redirected target NR frequency. It is based on the timing reference of EUTRAN PCell. If the field is absent, the UE uses the SMTC configured in the *measObjectNR* having the same SSB frequency and subcarrier spacing. If E-UTRAN includes *smtc-r19*, the *offset* (derived from parameter *periodicityAndOffset*) is based on the assumption that the difference between the eNB-UE propagation delay for serving cell and gNB-UE propagation delay for neighbour cells is equal to 0 ms, and UE can adjust the actual offset based on the actual propagation delay difference.

**[Comments]**:

**Rapporteur’s comments:** Agree, the modification will be captured in the CR for companies to further comment on. The suggested wording is slightly different from [V230]’s version, the purpose is to align with the field description of measTimingConfig in SIB24.

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| ***smtc***  The SSB periodicity/offset/duration configuration of the redirected target NR frequency. It is based on the timing reference of EUTRAN PCell. If the field is absent, the UE uses the SMTC configured in the *measObjectNR* having the same SSB frequency and subcarrier spacing. If *smtc-r19* is configured, the *offset* (derived from parameter *periodicityAndOffset*) is based on the assumption that the UE's propagation delay difference between serving cell and neighbour cells equals to 0 ms, and UE can adjust the offset based on the actual propagation delay. |

# S905

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| RIL Id | WI | Class | Title | Tdoc | Delegate | Misc | File version | Status |
| V230 | LTE to NR NTN mobility/TEI19 | 1 | Clarify which neighSatelliteInfoList to use for redirection | R2-250xxxx | Samsung (Jonas) |  | v003 | ToDo |

**[Description]**: The field description of satAssistanceInfoList is currently:



The field is common for both redirection to NR NTN and eMTC NTN. We think that it should be clarified that *neighSatelliteInfoListNR* is used when redirected to NR and *neighSatelliteInfoList* used when redirected to E-UTRAN. Otherwise, it may seem as if neighSatelliteInfoList can be used when redirected to NR NTN, which is not the intention.

**[Proposed Change]**: Clarify in the field description that neighSatelliteInfoListNR is used when redirected to NR and neighSatelliteInfoList when redirected to E-UTRAN. Alternatively, it can state that when the field (satAssistanceInfoList) is configured in *nr-r19*, use *neighSatelliteInfoListNR*, and when the field is configured in *eutra-NTN*, use *neighSatelliteInfoList*.

**[Comments]**: