3GPP TSG-RAN WG2 Meeting #120 R2-2213001

Toulouse, France, 14th-18th November, 2022

**Agenda item: 10.2**

**Source: Vice Chairman (ZTE Corporation)**

**Title: Report from Break-out session on NR-NTN, IoT-NTN, RedCap and CE**

**Document for: Approval**

General

Recording of voice or video at meetings is not used in 3GPP. This applies also to this e-Meeting. At this e-Meeting, no specific actions are taken to prevent the recording of web conferences. Companies that have concerns related to recordings, if any, may express those by email in the main meeting organizational thread [AT120][000]

Organizational

1. All organization emails and notes will be shared over the following email discussion throughout the meeting:
* [AT120][100] Organizational – NR-NTN, IoT-NTN, RedCap and CE session (RAN2 VC)

Scope:

* + - Share plans for the meeting and list of ongoing email discussions for the sessions related to NR-NTN and IoT-NTN
		- Share meetings notes and agreements for review and endorsement

Schedule/Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Main room** | **Brk 2room** | **Brk 3 room** | **Brk 1 room** |
| **Monday** |  |  |  |  |
| 09:00 – 10:30 | [1], [2], [3] 10-15 min5.1.1, 5.1.3 NR1516 CP (Johan)Around 1230: NR17 (Johan)- 6.0.1, 6.0.2, 6.0.4 NR17 CP | Breakout to start after NR common items in the main room:NR151617 UP (Diana)5.1.2, 6.0.3NR17 - 6.6 SDT - 6.5 IIOT URLLC - 6.18 RACH (Diana)NR18 (Diana)- 8.19 NR18 Other: URLLC R18 | Breakout to start after formal opening of meeting in main room:NR1516 (Kyeongin)NR17 (Kyeongin).  |  |
| 11:00 – 13:00 |
| 14:00 – 16:00 | NR17 (Johan)- 6.0.1, 6.0.2, 6.0.4 NR17CP- 6.24 NR17 Other- 6.16 NPN, 6.23 UDC | NR18 MT-SDT [0.5] (Diana)NR18 UAV [0.5] (Diana) | NR17 (Kyeongin).NR18 SL evolution [0.5] (Kyeongin) |
| 16:30 – 18:30 | NR17 (Johan)- 6.19 feMIMO- 6.22 MGE- 6.21 NR17 TEI | NR18 Network Energy Saving [1] (Diana) | NRLTE1516 (Nathan)- 5.3: Rel-15/16 positioning (R2-2213116)NR17 (Nathan)- NR Pos- 6.11.0 IPA CRs- 6.11.1 Incoming LSs (R2-2211137, R2-2211143)- 6.11.2 RRC (R2-2211423, R2-2211543, R2-2212355)- 6.11.3 LPP (R2-2211259, R2-2211262, R2-2211544, R2-2212234, R2-2212892)- 6.11.4 MAC (R2-2211545)- 6.11.5 UE cap (R2-2211546, R2-2212646, R2-2211506)If time:- 6.11.1 Stage 2 (38.305 CRs not already addressed by other discussions) |
| **Tuesday** |  |  |  |  |
| 08:30 – 10:30 | NR17 (Johan)- 6.4 eIAB- 6.9 ePowSav- Left-overs from previous day | EUTRA16+ (Tero)- 4.4: CSI subframe sets ([R2-2211108](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211108.zip), [R2-2212602](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212602.zip), [R2-2212219](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212219.zip)), UAV ([R2-2211187](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211187.zip)), PDCP ([R2-2211386](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211386.zip), [R2-2212763](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212763.zip), [R2-2212766](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212766.zip))- 7.1: NPUSCH 16QAM ([R2-2212961](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212961.zip)), LTE relay Stage-2 ([R2-2211364](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211364.zip)), ue-ConfigRelease in HO request ([R2-2211751](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211751.zip))NR17 DCCA (Tero)- 6.2.1: CHO with SN ([R2-2211791](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211791.zip), [R2-2212255](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212255.zip))- 6.2.2: Measurements for conditional reconfigs ([R2-2212460](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212460.zip), [R2-2211760](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211760.zip)), SCG deactivation corrections ([R2-2211965](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211965.zip), [R2-2212854](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212854.zip)) | NR17 (Nathan) - NR pos (overflow from Monday session if needed)- SL relay - 6.7.0 IPA CRs - 6.7.1 Incoming LSs (R2-2211128, R2-2211142, R2-2211147, R2-2211141, and related company proposals) - 6.7.1 CRs other than 38.300 (R2-2211672, R2-2211749) - 6.7.2 CP (R2-2213117) - 6.7.3 UP (R2-2211398, R2-2211605, R2-2211703, R2-2212137, R2-2211503)If time: - 6.7.1 Stage 2 (CRs to 38.300) |  |
| 11:00 – 13:00 | 8.19 NR18 Other [0.5] (Johan)8.12 NR18 Mobile IAB [0.5] (Johan) | NR17 MUSIM (Tero)- 6.3: NAS busy indication ([R2-2211119](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211119.zip), [R2-2211246](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211246.zip)), UAI and aperiodic gaps ([R2-2211357](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211357.zip)), MUSIM and re-establishment ([R2-2211770](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211770.zip)), miscellaneous corrections ([R2-2212111](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212111.zip), [R2-2212746](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212746.zip))IF time allows:- 6.3: Editorial corrections ([R2-2211801](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211801.zip), [R2-2212745](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212745.zip), [R2-2211356](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211356.zip))NR17 71 GHz (Tero)- 6.20.1: TCI state for RSSI ([R2-2211148](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211148.zip), [R2-2211705](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211705.zip)), multi-PDSCH scheduling ([R2-2211149](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211149.zip), [R2-2211533](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211533.zip)), CCA config ([R2-2211158](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211158.zip), [R2-2211170](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211170.zip), [R2-2211941](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211941.zip)), miscellaneous corrections ([R2-2211991](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211991.zip), [R2-2211505](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211505.zip)) | NR18 Pos [2] (Nathan)- 8.2.1 Organizational (R2-2211223, R2-2211130, R2-2211131, R2-2211139, R2-2211145, and related company proposals; TP in R2-2211224)- 8.2.2 Sidelink positioning (R2-2213118)- 8.2.3 RAT-dependent integrity (R2-2213119) |
| 14:00 – 16:00 | 8.4 NR18 feMob [2] (Johan)- Start w 8.4.1 and 8.4.2 LTM | NR17 Slicing (Tero)- 6.8: Slice-based RACH ([R2-2212696](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212696.zip)), SIB16 and slice-specific reselection priorities ([R2-2212568](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212568.zip)), slice-based reselection ([R2-2211962](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211962.zip), [R2-2211963](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211963.zip), [R2-2212152](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212152.zip), [R2-2212210](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212210.zip), [R2-2212316](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212316.zip), [R2-2212914](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212914.zip))NR17 QoE (Tero)- 6.14: Buffer level measurements ([R2-2212218](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212218.zip), [R2-2212464](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212464.zip)), PDU session ID signalling ([R2-2212463](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212463.zip)), clarifying SRB4 config ([R2-2211547](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211547.zip))NR18 eQoE [0.5] (Tero)- 8.14.2: QoE configuration ([R2-2212938](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212938.zip), [R2-2212635](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212635.zip), [R2-2212795](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212795.zip), [R2-2211800](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211800.zip))- 8.14.4: Bearer handling ([R2-2211451](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211451.zip), [R2-2212940](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212940.zip)) | NR18 Pos [2] (Nathan)- 8.2.3 continued- 8.2.4 LPHAP (R2-2213120)- 8.2.5 RedCap (R2-2211465, R2-2212228) |
| 16:30 – 18:30 | NR18 feMob [2] (Johan) | NR18 XR [2] (Tero)- 8.5.1 : Work plan ([R2-2211595](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211595.zip)), SA2 status ([R2-2211596](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211596.zip)), TR update ([R2-2212908](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212908.zip)), SA2 LS on XR ([R2-2211138](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211138.zip), [R2-2211490](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211490.zip), [R2-2212189](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212189.zip))- 8.5.2.1 : LCH mapping ([R2-2212471](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212471.zip), [R2-2212534](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212534.zip)), UL PDU set information ([R2-2211177](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211177.zip)), PDU set-based QoS ([R2-2211718](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211718.zip))- 8.5.2.2 : Delay-awareness in LCP ([R2-2211598](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211598.zip), [R2-2212190](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212190.zip), [R2-2211178](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211178.zip))- 8.5.2.3 : PDU discard in lower layers ([R2-2211993](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211993.zip)), PDU discard mechanism ([R2-2212129](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212129.zip)), PDU discard usage ([R2-2212331](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212331.zip)) IF time allows:- 8.5.4.2 : CG enhancements ([R2-2212890](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212890.zip)) | NR17 (Nathan) - SL relay (overflow from morning session if needed)NR18 SL relay [1.5] (Nathan) |
| **Wednesday** |  |  |  |  |
| 08:30 – 10:30 | NR18 NCR [0.5] (Sasha)NR17 MBS (Dawid)- 6.1.1: LSin- 6.1.3: R2-2213101 (RRC corrections summary)- 6.1.3: Remaining issues- 6.1.4: R2-2213102 (MAC corrections summary) | **R17 Maint (Sergio)****Iot NTN****- 7.2.1****- 7.2.2****- 7.2.3: outcome of [104], other issues****NR NTN****- 6.10.1****- 6.10.2****- 6.10.3: outcome of [101], [102], other issues** | NR18 IDC [1] (Yi) |  |
| 11:00 – 13:00 | NR17 MBS continuation, if needed (Dawid)NR 18 MBS [0.5] (Dawid)- 8.11.1: LSin- 8.11.4: R2-2213103 (summary of AI 8.11.4)- 8.11.2 | **R17 Maint (Sergio)****RedCap****- 6.12.1****- 6.12.2: outcome of [103], other issues** **- 6.12.3****Cov Enh****- 6.19.2** | NR17 SONMDT (HuNan) |
| 14:00 – 16:00 | NR18 XR [2] (Tero)- 8.5.4.2 : CG enhancements ([R2-2212890](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212890.zip)), UL assistance ([R2-2212936](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212936.zip)), PDU set retransmissions or PDU concatenation ([R2-2211601](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211601.zip))- 8.5.4.1: BSR table and other BSR details ([R2-2211600](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211600.zip), [R2-2212517](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212517.zip))- 8.5.3.2: UE assistance info for power saving ([R2-2211495](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211495.zip), [R2-2212632](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212632.zip))- 8.5.3.1: DRX usage ([R2-2211180](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211180.zip), [R2-2211775](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211775.zip)), SFN wrap-around ([R2-2212886](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2212886.zip), [R2-2211860](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_120/Docs/R2-2211860.zip)) | **L18 IoT-NTN [1] (Sergio)****- 8.6.2.1****- 8.6.3.1****- 8.6.3.2** | NR18 SONMDT [1] (HuNan) |
| 16:30 – 18:30 | NR18 AIML [1] (Johan) | **NR18 NTN enh [1] (Sergio)****- 8.7.2****- 8.7.3****- 8.7.3.1****- 8.7.3.2** | NR18 SL relay [1.5] (Nathan)- 8.9.1 Organizational (R2-2211120)- 8.9.4 Multi-path (R2-2211208, R2-2213122)- 8.9.2 UE-to-UE (R2-2213121)- 8.9.3 Service continuity (R2-2211786, R2-2212698)It time:- 8.9.5 DRX (R2-2212274) |
| **Thursday** |  |  |  |  |
| 08:30 – 10:30 | CB NR1516 (Johan)CB NR 17 (Johan)- feMIMO- Other | CB Diana | CB Kyeongin |  |
| 11:00 – 13:00 | CB NR17 Johan)- MGE, NPN, UDC | CB Diana | CB Kyeongin |
| 14:00 – 16:00 | CB NR17 (Johan)- continuation if neededCB NR18 (Johan)- Other, Mob | CB EUTRA16+, NR17 Tero (TBD, exact schedule announced on Wednesday) | CB Nathan |
| 16:30 – 18:30 | CB NR18 (Johan)- Other, Mob IAB | CB NR17, NR18 Tero (TBD, exact schedule announced on Wednesday) | CB Nathan |
| **Friday** |  |  |  |  |
| 08:30 – 10:30 | CB Dawid TBD | If needed: 07:30-08:30 CB Diana**R17 Maint (Sergio)** **(TBD, exact schedule announced on Wednesday)** | CB Nathan, Kyeongin  |  |
| 11:00 – 13:00 | CB NR18 NCR (Sasha)CB NR17, NR18 (Johan) | **CB Sergio****(TBD, exact schedule announced on Wednesday)** | CB YiCB HuNan |
| 14:00 – 16:00 | CB NR17, NR18 (Johan)  | **CB Sergio,** CB Tero TBD | CB HuNan |
| 16:00 – 17:00 | Comebacks CP, (Johan) |  |  |  |

List and status of offline email discussions

NOTE: No offline email discussions will be kicked off before Monday Nov 14th, 09:00 CET

* [AT120][101][NR NTN] RNA across TN/NTN (Qualcomm)

Scope: Discuss proposals related to RNA across TN/NTN

Intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

**F2F offline time**: **Tuesday 2022-11-15 10:30-11:00 (coffee break) in Brk1** (then the discussion can further continue via email if needed)

Deadline for rapporteur's summary (in R2-2213011): Wednesday 2022-11-16 06:00 CET

Status: not yet started

* [AT120][102][NR NTN] RRC corrections (Ericsson)

Initial scope: Discuss proposals/CRs on Epoch time and validity timer handling issues (apart from those pending RAN1 feedback) and on measurement gaps

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

Deadline for companies’ feedback: Tuesday 2022-11-15 20:00 CET

Deadline for rapporteur's summary (in R2-2213012): Wednesday 2022-11-16 06:00 CET

Status: not yet started

* [AT120][103][RedCap] CP corrections (Ericsson)

Initial scope: Discuss proposals/CRs related to PDCCH Config, NeedForGaps and margin for 1Rx UE

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

**F2F offline time**: **Monday 2022-11-14 16:00-16:30 (coffee break) in Brk1** (then the discussion can further continue via email if needed)

Deadline for rapporteur's summary (in R2-2213013): Wednesday 2022-11-16 06:00 CET

Status: not yet started

* [AT120][104][IoT NTN] RRC corrections (Huawei)

Initial scope: Discuss proposals/CRs on IoT NTN UE capability

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

Deadline for companies’ feedback: Tuesday 2022-11-15 20:00 CET

Deadline for rapporteur's summary (in R2-2213014): Wednesday 2022-11-16 06:00 CET

Status: not yet started

## 6.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-211557](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2392%5CTdocs%5CRP-211557.zip))

Tdoc Limitation: 3 tdocs

### 6.10.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

Stage 2 CR

[R2-2212960](file:///C%3A%5CData%5C3GPP%5CRAN2%5CDocs%5CR2-2212960.zip) Corrections to TS 38.300 for Rel-17 NR NTN Thales CR Rel-17 38.300 17.2.0 0572 2 F NR\_NTN\_solutions-Core R2-2211046

MAC CR

[R2-2212335](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212335%20NTN%20Corrections%20for%20TS%2038321_%5BR2-119bise%5D.docx) Corrections to Release-17 NR Non-Terrestrial Networks (NTN): RAN2#119bis-e InterDigital CR Rel-17 38.321 17.2.0 1446 1 F NR\_NTN\_solutions-Core R2-2210868

RRC CR

[R2-2212779](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212779%2038331%20Rel-17%20CR%20NR%20NTN.docx) RRC corrections for Rel-17 NR NTN Ericsson CR Rel-17 38.331 17.2.0 3570 1 F NR\_NTN\_solutions-Core R2-2211018

38.304 CR

[R2-2212607](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212607.docx) Idle mode corrections for Rel-17 NR NTN ZTE Corporation, Samsung, Sanechips CR Rel-17 38.304 17.2.0 0296 1 F NR\_NTN\_solutions-Core R2-2210869

* Revised in [R2-2212820](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212820.docx)

[R2-2212820](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212820.docx) Idle mode corrections for Rel-17 NR NTN ZTE Corporation, Samsung, Sanechips CR Rel-17 38.304 17.2.0 0296 2 F NR\_NTN\_solutions-Core [R2-2212607](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212607.docx)

### 6.10.1 General and Stage 2 corrections

LSs, rapporteur inputs and Stage 2 corrections. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

Incoming LSs

[R2-2211169](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211169_R4-2217175.docx) Reply LS on measurement gap enhancements for NTN (R4-2217175; contact: Apple) RAN4 LS in Rel-17 NR\_NTN\_solutions, NR\_MG\_enh To:RAN2

Stage 2 CRs

[R2-2211570](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38300_CR0577_%28Rel-17%29_R2-2211570%20RRC%20INACTIVE%20in%20NTN.docx) Clarification on support of TN NTN mobility during RRC\_INACTIVE Qualcomm Incorporated CR Rel-17 38.300 17.2.0 0577 - F NR\_NTN\_enh

* Initially discussed in offline 101

[R2-2211326](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211326%20Correction%20on%20Stage-2%20descriptions%20for%20NR%20NTN.docx) Correction on Stage-2 descriptions for NR NTN vivo CR Rel-17 38.300 17.2.0 0573 - F NR\_NTN\_solutions-Core

[R2-2211340](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211340-%20NTN%20stage-2%20correction.docx) NTN Stage-2 correction OPPO CR Rel-17 38.300 17.2.0 0574 - F NR\_NTN\_solutions-Core

[R2-2212444](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212444%206.10.1%20Discussion%20on%20Stage%202%20corrections.docx) Discussion on Stage 2 corrections Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212952](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212952%20-%20R17%20NR%20NTN%20stage%202%20issues.docx) R17 NR NTN stage 2 issues Ericsson discussion Rel-17 NR\_NTN\_solutions

### 6.10.2 UP corrections

[R2-2212950](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212950%20-%20R17%20NR%20NTN%20MAC%20issues.docx) R17 NR NTN MAC issues Ericsson discussion Rel-17 NR\_NTN\_solutions

Moved here from 7.2.3

[R2-2211516](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211516%20Clarification%20on%20UE%20behaviour%20when%20validity%20timer%20expires.doc) Clarification on UE behaviour when validity timer expires Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

### 6.10.3 CP corrections

RNA configuration across TN and NTN

[R2-2211408](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38331_CR3594_%28Rel-17%29_R2-2211408%20Clarification%20on%20NR%20NTN%20trackingAreaList.docx) Clarification on NR NTN trackingAreaList Intel Corporation CR Rel-17 38.331 17.2.0 3594 - F NR\_NTN\_solutions-Core

* Discussed in offline 101

[R2-2211514](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211514%20Discussion%20on%20RNA%20configuration%20across%20TN%20and%20NTN%20cells.doc) Discussion on RNA configuration across TN and NTN cells Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 101

[R2-2211568](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211568%20TN%20NTN%20mobility%20RRC%20inactive.doc) Discussion for clarification on TN NTN mobility in RRC\_INACTIVE Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 101

[R2-2211569](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38331_CR3620_%28Rel-17%29_R2-2211569%20RRC%20INACTIVE%20in%20NTN.docx) Clarification on TN NTN mobility during RRC\_INACTIVE Qualcomm Incorporated CR Rel-17 38.331 17.2.0 3620 - F NR\_NTN\_solutions-Core

* Discussed in offline 101

Offline discussion 101 will also consider the following contributions submitted to AI 6.0.1:

[R2-2211912](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211912%20Discussion%20on%20SDT%20%26%20RNA%20Configuration%20cross%20NTN_TN%20Cells.doc) Discussion on SDT & RNA Configuration cross NTN/TN Cells FGI discussion

[R2-2211914](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211914%20Draft%20LS%20on%20RNA%20Configuration%20cross%20NTN_TN%20Cells.docx) DRAFT LS on RNA Configuration cross NTN/TN Cells FGI LS out To:RAN3

[R2-2211729](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211729_Discussion%20on%20SDT%20in%20TN%20and%20NTN%20mixed%20RNA_v0.doc) Discussion on SDT in TN and NTN mixed RNA Apple discussion Rel-17 NR\_NTN\_solutions-Core, NR\_SmallData\_INACTIVE-Core

[R2-2212127](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212127.docx) Discussion on TN-NTN mobility in RRC INACTIVE and SDT Capability Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_NTN\_solutions-Core

[R2-2212735](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212735%20RNA%20configuration%20across%20TN%20cell%20and%20NTN%20cell.docx) RNA configuration across TN cell and NTN cell LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

* [AT120][101][NR NTN] RNA across TN/NTN (Qualcomm)

Scope: Discuss proposals related to RNA across TN/NTN

Intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

**F2F offline time**: **Tuesday 2022-11-15 10:30-11:00 (coffee break) in Brk1** (then the discussion can further continue via email if needed)

Deadline for rapporteur's summary (in R2-2213011): Wednesday 2022-11-16 06:00 CET

R2-2213011 [offline-101] RNA across NT/NTN Qualcomm discussion Rel-18 NR\_NTN\_solutions-Core

Epoch time and validity timer handling

[R2-2211308](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211308%20Corrections%20on%20validity%20of%20SIB19-final.docx) Corrections on validity of SIB19 CATT CR Rel-17 38.331 17.2.0 3580 - F NR\_NTN\_solutions-Core

[R2-2211328](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211328%20Correction%20on%20T430%20handling%20in%20TS%2038.331.docx) Correction on T430 handling in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3582 - F NR\_NTN\_solutions-Core

[R2-2211339](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211339%20RRC%20correction%20on%20valid%20timer%20and%20SIB19%20acquisition.docx) RRC correction on valid timer and SIB19 acquisition OPPO CR Rel-17 38.331 17.2.0 3583 - F NR\_NTN\_solutions-Core

[R2-2212065](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212065_CR3669_Correction%20for%20timer%20T430%20upon%20going%20to%20RRC_IDLE%20v2.0.docx) Correction for timer T430 upon going to RRC\_IDLE Lenovo Information Technology CR Rel-17 38.331 17.2.0 3669 - F NR\_NTN\_solutions-Core

[R2-2212446](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212446%206.10.3%20Discussion%20on%20RRC%20corrections.docx) Discussion on RRC corrections Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212805](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212805%20Correction%20on%20the%20action%20upon%20not%20being%20able%20to%20acquire%20SIB19%20for%20NR%20NTN.docx) Correction on the action upon not being able to acquire SIB19 for NR NTN Xiaomi, CAICT CR Rel-17 38.331 17.2.0 3737 - F NR\_NTN\_solutions-Core

[R2-2212833](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212833%20Corrections%20on%20epochTime.doc) Corrections on epochTime Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3738 - F NR\_NTN\_solutions-Core

[R2-2212258](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212258%20On%20T430%20and%20epochTime%20-%20Final%20Clarifications.docx) On T430 and epochTime - Final Clarifications Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212947](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212947%20-%20Discussion%20on%20epoch%20time%20validity%20and%20T430%20start%20end%20description.docx) Discussion on epoch time, validity and T430 start/end description Ericsson discussion Rel-17 NR\_NTN\_solutions

* All documents to be discussed in offline 102

Measurement gaps

[R2-2212445](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212445%206.10.3%20Discussion%20on%20concurrent%20measurement%20gaps.docx) Discussion on concurrent measurement gaps Samsung Research America discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2211341](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211341-RRC%20correction%20on%20NTN%20measurements.docx) RRC correction on NTN measurements OPPO, ZEKU CR Rel-17 38.331 17.2.0 3584 - F NR\_NTN\_solutions-Core

[R2-2211727](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211727_38.331CR3637_%28Rel-17%29_Clarification%20on%20the%20concurrent%20measurement%20gap%20configuration.docx) Clarification on the concurrent measurement gap configuration Apple CR Rel-17 38.331 17.2.0 3637 - F NR\_NTN\_solutions-Core

[R2-2212256](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212256%20CSI-RSs%20for%20L3%20Measurements%20in%20Rel-17%20NTN.docx) CSI-RSs for L3 Measurements in Rel-17 NTN Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3686 - F NR\_NTN\_solutions-Core

* All documents to be discussed in offline 102
* [AT120][102][NR NTN] RRC corrections (Ericsson)

Initial scope: Discuss proposals/CRs on Epoch time and validity timer handling issues (apart from those pending RAN1 feedback) and on measurement gaps

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

Deadline for companies’ feedback: Tuesday 2022-11-15 20:00 CET

Deadline for rapporteur's summary (in R2-2213012): Wednesday 2022-11-16 00:00 CET

R2-2213012 [offline-102] RRC corrections Ericsson discussion Rel-18 NR\_NTN\_solutions-Core

Neighbour cell list

[R2-2211371](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211371%20Discussion%20on%20UE%20behaviour%20based%20on%20the%20neighbour%20cell%20information%20between%20SIB3%2C%20SIB4%2C%20measObjectNR%20and%20SIB19_v2.docx) UE behaviour based on the neighbor cell information between SIB3, SIB4, measObjectNR and SIB19 Mediatek Inc. discussion Rel-17

[R2-2212257](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212257%20NR%20RRC%20CR%20on%20Neighbour%20Cell%20Ephemeris%20Signalling.docx) NR RRC CR on Neighbour Cell Ephemeris Signalling Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3539 1 F NR\_NTN\_solutions-Core R2-2210346

[R2-2212277](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212277%20Further%20consideration%20on%20NTN%20neighbour%20cell%20list%20in%20SIB19.docx) Further consideration on NTN neighbour cell list in SIB19 ZTE Corporation, Sanechips discussion R2-2210663

[R2-2212278](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212278_REL-17_38.331_CR3688_Clarification%20on%20the%20NTN%20neighbour%20cell%20list%20in%20SIB19.docx) Clarification on the NTN neighbour cell list in SIB19 ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3688 - F NR\_NTN\_solutions-Core

[R2-2212834](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212834%20CR%20to%2038.331%20on%20neighbour%20cell%20ephemeris.docx) CR to 38.331 on neighbour cell ephemeris Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3739 - F NR\_NTN\_solutions-Core

HO configuration

[R2-2211807](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211807%20Clarification%20on%20NTN%20configuration%20for%20handover.docx) Clarification on NTN configuration for handover ASUSTeK discussion Rel-17 38.331 NR\_NTN\_solutions-Core

[R2-2212692](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212692_NTN%20Configuration%20at%20Handover%20and%20CHO.docx) NTN Configuration at Handover and CHO Sequans Communications discussion Rel-17 38.331 NR\_NTN\_solutions-Core R2-2210729

IoT bit for inter satellite measurement

[R2-2212317](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212317%20Discussion%20on%20IOT%20bit%20for%20inter%20satellite%20measurement_v0.docx) Discussion on IOT bit for inter satellite measurement Mediatek India Technology Pvt. discussion

[R2-2211368](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38331_CR3590_%28Rel-17%29_R2-2211368%20IOT%20bit%20for%20inter%20satellite%20measurement_v1.docx) IOT bit for inter satellite measurement Mediatek Inc. CR Rel-17 38.331 17.2.0 3590 - F NR\_NTN\_solutions-Core

[R2-2211369](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38306_CR0829_%28Rel-17%29_R2-2211369%20IOT%20bit%20for%20inter%20satellite%20measurement_v1.docx) IOT bit for inter satellite measurement Mediatek Inc. CR Rel-17 38.306 17.2.0 0829 - F NR\_NTN\_solutions-Core

UE capabilities

[R2-2211406](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211406%20Draft%20331%20CR%20for%20NR%20NTN%20UE%20capabilities.docx) Draft 331 CR for NR NTN UE capabilities Intel Corporation, Qualcomm Inc. draftCR Rel-17 38.331 17.2.0 F NR\_NTN\_solutions-Core

[R2-2211407](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211407%20Draft%20306%20CR%20for%20NR%20NTN%20UE%20capabilities.docx) Draft 306 CR for NR NTN UE capabilities Intel Corporation, Qualcomm Inc. draftCR Rel-17 38.306 17.2.0 F NR\_NTN\_solutions-Core

[R2-2211728](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211728_38.306CR0834_%28Rel-17%29_Clarification%20on%20NTN%20RRM%20measurement%20capability.docx) Clarification on NTN RRM measurement capability Apple CR Rel-17 38.306 17.2.0 0834 - F NR\_NTN\_solutions-Core

Propagation delay difference report

[R2-2211894](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211894%20Discussion%20on%20propagation%20delay%20difference%20reporting%20in%20TS%2038.331.docx) Discussion on propagation delay difference reporting in TS 38.331 vivo discussion

[R2-2212661](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212661%20Extend%20the%20neighbour%20cells%20number-final.docx) Extend the neighbour cells number for propagation delay difference reporting CATT CR Rel-17 38.331 17.2.0 3721 - F NR\_NTN\_solutions-Core

Other

[R2-2211370](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38331_CR3591_%28Rel-17%29_R2-2211370%20Correction%20on%20frequency%20band%20indicator_v1.docx) Correction on frequency band indicator Mediatek Inc. CR Rel-17 38.331 17.2.0 3591 - F NR\_NTN\_solutions-Core

* Discussed in offline 102

[R2-2212662](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212662%20Discussion%20on%20leftover%20issues-final.docx) Discussion on leftover issues CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2212895](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38331_CR3555_%28Rel-17%29_R2-2212895%20Corrections%20to%20the%20SMTC%20Field%20Description%20in%20System%20Information.docx) Corrections to the SMTC Field Description in System Information Google Inc. CR Rel-17 38.331 17.2.0 3555 1 F NR\_NTN\_solutions-Core R2-2210646

[R2-2212804](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212804%20Correction%20on%20coarse%20UE%20location%20reporting%20for%20TS%2038.300.docx) Correction on coarse UE location reporting for TS 38.300 Xiaomi, CAICT CR Rel-17 38.300 17.2.0 0594 - F NR\_NTN\_solutions-Core

Withdrawn

R2-2211327 Correction on propogation delay reporting for NR NTN in TS 38.331 vivo CR Rel-17 38.331 17.2.0 3581 - F NR\_NTN\_solutions-Core Withdrawn

## 6.12 Reduced Capability

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: [RP-211574](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2392%5CTdocs%5CRP-211574.zip))

Tdoc Limitation: 4 tdocs

### 6.12.1 General and Stage 2 corrections

LSs, rapporteur inputs and Stage 2 corrections. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

Incoming LSs

[R2-2211115](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211115_R4-2214484.docx) Reply LS on configuring margin for 1 Rx RedCap Ues (R4-2214484; contact: Ericsson) RAN4 LS in Rel-17 NR\_redcap-Core To:RAN2

[R2-2211116](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211116_R4-2214487.docx) Reply LS on RRM relaxation for Redcap (R4-2214487; contact: vivo) RAN4 LS in Rel-17 NR\_redcap-Core To:RAN2

Stage 2 CRs

[R2-2211479](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38.300_CR0576%28Rel-17%29_%20R2-2211479_Correction%20on%20TS%2038.300%20for%20RedCap.docx) Correction on TS 38.300 for RedCap vivo CR Rel-17 38.300 17.2.0 0576 - F NR\_redcap-Core Late

[R2-2212378](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212378%20Correction%20on%20applicability%20of%20NCD-SSB%20in%2038.300.docx) Correction on applicability of NCD-SSB in Stage-2 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 17.2.0 0586 - F NR\_redcap-Core

[R2-2212379](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212379%20Miscellaneous%20corrections%20for%20RedCap%20in%2038.300.docx) Miscellaneous RedCap corrections in stage-2 Nokia (Rapporteur), Huawei CR Rel-17 38.300 17.2.0 0587 - F NR\_redcap-Core

Rapporteur input

[R2-2212750](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212750%20-%20Miscellaneous%20corrections%20for%20RedCap%20WI%20-%20TS%2038.331.docx) Miscellaneous corrections for RedCap WI Ericsson CR Rel-17 38.331 17.2.0 3732 - F NR\_redcap-Core

[R2-2212751](file:///C%3A%5CData%5C3GPP%5CRAN2%5CDocs%5CR2-2212751.zip) Miscellaneous corrections for RedCap WI Ericsson CR Rel-17 38.304 17.2.0 0313 - F NR\_redcap-Core Late

### 6.12.2 CP corrections

PDCCH Config related

[R2-2211430](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211430%20Correction%20on%20the%20searchSpaceOtherSystemInformation%20for%20RedCap.docx) Correction on the searchSpaceOtherSystemInformation for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3598 - F NR\_redcap-Core

* Discussed in offline 103

[R2-2211904](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211904%20Correction%20on%20PDCCH-ConfigCommon%20for%20RedCap.docx) Correction on PDCCH-ConfigCommon for RedCap ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3659 - F NR\_redcap-Core

* Discussed in offline 103

NeedForGaps

[R2-2212663](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212663%20Correction%20on%20the%20filed%20descriptions%20of%20NeedForGaps%20in%2038.331-clean.docx) Correction on the filed descriptions of NeedForGaps in 38.331 CATT CR Rel-17 38.331 17.2.0 3722 - F NR\_redcap-Core

* Discussed in offline 103

Margin for 1Rx UE

Moved here from 6.12.1

[R2-2211331](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211331%20-%20Discussion%20on%20configuring%20margin%20for%201%20Rx%20RedCap%20UEs.doc) Discussion on configuring margin for 1 Rx RedCap UEs OPPO discussion Rel-17 NR\_redcap-Core

* Discussed in offline 103
* [AT120][103][RedCap] CP corrections (Ericsson)

Initial scope: Discuss proposals/CRs related to PDCCH Config, NeedForGaps and margin for 1Rx UE

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

**F2F offline time**: **Monday 2022-11-14 16:00-16:30 (coffee break) in Brk1** (then the discussion can further continue via email if needed)

Deadline for rapporteur's summary (in R2-2213013): Wednesday 2022-11-16 06:00 CET

R2-2213013 [offline-103] RRC corrections Ericsson discussion Rel-18 NR\_redcap-Core

Other contributions on Margin for 1Rx UE

[R2-2211332](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211332%20-%20Draft%20reply%20LS%20on%20configuring%20margin%20for%201%20Rx%20RedCap%20UEs.docx) Draft reply LS on configuring margin for 1 Rx RedCap UEs OPPO LS out Rel-17 NR\_redcap-Core To:RAN4

[R2-2211431](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211431%20Corrections%20on%20RSRP%20offset%20of%201Rx%20RedCap%20UEs.doc) Corrections on RSRP offset of 1Rx RedCap UEs Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3599 - B NR\_redcap-Core

[R2-2212381](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212381%20margin%20for%201%20Rx%20redcap%20devices%20in%2038.331.docx) Correction on margin for 1 Rx RedCap devices in 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3696 - F NR\_redcap-Core

[R2-2212752](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212752%20-%20Configuration%20of%20margin%20for%201Rx%20RedCap%20UEs.docx) Configuration of margin for 1Rx RedCap UEs Ericsson discussion Rel-17 NR\_redcap-Core

[R2-2212753](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212753%20-%20Configuration%20of%20margin%20for%201%20Rx%20RedCap%20UEs%20-%20TS%2038.331.docx) Configuration of margin for 1 Rx RedCap UEs Ericsson CR Rel-17 38.331 17.2.0 3733 - F NR\_redcap-Core

[R2-2212768](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212768%20-%20Configuration%20of%20margin%20for%201%20Rx%20RedCap%20UEs%20-%20TS%2038.321.docx) Configuration of margin for 1 Rx RedCap UEs Ericsson CR Rel-17 38.321 17.2.0 1495 - F NR\_redcap-Core

[R2-2212769](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212769%20-%20Configuration%20of%20margin%20for%201%20Rx%20RedCap%20UEs%20-%20TS%2038.304.docx) Configuration of margin for 1 Rx RedCap UEs Ericsson CR Rel-17 38.304 17.2.0 0314 - F NR\_redcap-Core

Cell barred / IFRI handling

[R2-2211432](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211432%20Corrections%20on%20applying%20parameters%20in%20MIB%20and%20IFRI%20handling%20for%20RedCap%20UEs.doc) Corrections on applying parameters in MIB and IFRI handling for RedCap UEs Huawei, HiSilicon CR Rel-17 38.331 17.2.0 3600 - F NR\_redcap-Core

[R2-2212543](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212543%20Miscellaneous%20corrections%20for%20RedCap%20WI%20-%20TS%2038.304.docx) Miscellaneous corrections for RedCap WI Futurewei, vivo, Xiaomi, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, ZTE Corporation CR Rel-17 38.304 17.2.0 0309 - F NR\_redcap-Core

eDRX

[R2-2211333](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211333%20-%20Clarification%20on%20UE%20support%20of%20eDRX.doc) Clarification on UE support of eDRX OPPO CR Rel-17 38.306 17.2.0 0827 - F NR\_redcap-Core

[R2-2211482](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38.304_CR0299%28Rel-17%29_R2-2211482_Correction%20on%20the%20description%20of%20PTW%20start%20for%20eDRX.docx) Correction on the description of PTW\_start for eDRX vivo, Guangdong Genius CR Rel-17 38.304 17.2.0 0299 - F NR\_redcap-Core

[R2-2211582](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211582%20Corrections%20on%20e-DRX%20for%20RedCap%20WI%20-TS%2038.304.docx) Corrections on e-DRX for RedCap WI -TS 38.304 Xiaomi Communications CR Rel-17 38.304 17.2.0 0300 - F NR\_redcap-Core

Other

[R2-2211480](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38.331_CR3603%28Rel-17%29_%20R2-2211480_Correction%20on%20RRC%20aspects%20for%20RedCap.docx) Correction on RRC aspects for RedCap vivo, Guangdong Genius CR Rel-17 38.331 17.2.0 3603 - F NR\_redcap-Core

[R2-2211706](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211706_s-MeasureConfig.docx) Clarification on the reference SSB used for measurement for RedCap when used with s-MeasureConfig Apple CR Rel-17 38.331 17.2.0 3634 - F NR\_redcap-Core

[R2-2211903](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211903%20Correction%20on%20RRC%20configuration%20for%20RedCap.docx) Correction on RRC configuration for RedCap ZTE Corporation, Sanechips CR Rel-17 38.331 17.2.0 3658 - F NR\_redcap-Core

[R2-2212380](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212380%20correction%20on%20half%20duplex%20FDD%20in%2038.304.docx) Correction on halfDuplexRedCap-Allowed in 38.304 Nokia, Nokia Shanghai Bell CR Rel-17 38.304 17.2.0 0306 - F NR\_redcap-Core

[R2-2212912](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38.300_CR0597%28Rel-17%29_%20R2-2212912_Correction%20on%20RACH%20configure%20for%20RedCap.docx) Correction on RACH configure for RedCap vivo, Guangdong Genius CR Rel-17 38.300 17.2.0 0597 - F NR\_redcap-Core

Withdrawn

R2-2211481 Correction on RACH configure for RedCap vivo, Guangdong Genius CR Rel-17 38.331 17.2.0 3604 - F NR\_redcap-Core Late

R2-2212859 Correction on RACH configure for RedCap vivo, Guangdong Genius CR Rel-17 38.304 17.2.0 0316 - F NR\_redcap-Core Late

### 6.12.3 UP corrections

[R2-2211483](file:///C%3A%5CData%5C3GPP%5CExtracts%5C38.321_CR1461%28Rel-17%29_R2-2211483_Miscellaneous%20CR%20on%20TS%2038.321%20for%20RedCap.docx) Miscellaneous CR on TS 38.321 for RedCap vivo CR Rel-17 38.321 17.2.0 1461 - F NR\_redcap-Core

[R2-2211906](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211906%20Correction%20on%20DL%20BWP%20for%20RACH.docx) Correction on DL BWP in RACH procdure ZTE Corporation, Sanechips CR Rel-17 38.321 17.2.0 1475 - F NR\_redcap-Core

[R2-2212095](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212095%20Mismatch%20issue%20on%20RAR%20reception%20on%20RedCap%20specific%20initial%20DL%20BWP.DOCX) Mismatch issue on RAR reception on RedCap specific initial DL BWP Huawei, HiSilicon, vivo discussion Rel-17 NR\_redcap-Core

Withdrawn

R2-2212071 Mismatch issue on RAR reception on RedCap specific initial DL BWP Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core Withdrawn

## 6.19 Coverage Enhancements

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-211566](file:///C%3A%5CData%5C3GPP%5Carchive%5CRAN%5CRAN%2392%5CTdocs%5CRP-211566.zip))

Tdoc Limitation: 1 tdoc

Common aspects related to RACH indication (in MSG1) / RACH partitioning shall be submitted to 6.18

### 6.19.1 Organizational

Rapporteur input, incoming LS etc. CR Rapporteurs may provide baseline correction CRs containing smaller corrections, text clarifications, etc - please contact the CR rapporteurs before providing contributions on those aspects.

### 6.19.2 General

All aspects.

[R2-2211468](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211468%20-%20Discussion%20on%20DMRS%20bundling.docx) Discussion on DMRS Ericsson discussion Rel-17 NR\_cov\_enh-Core

[R2-2212248](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212248%20Remaining%20Issues%20on%20DMRS%20Bundling.docx) Remaining Issues on DMRS Bundling vivo Mobile Com. (Chongqing) discussion Rel-17 NR\_cov\_enh-Core R2-2207130

Moved here from 6.19.1

[R2-2212676](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212676%20Clarifications%20on%20DMRS%20bundling%20for%20NR%20Coverage%20Enhancements.doc) Clarifications on DMRS bundling for NR Coverage Enhancements Huawei, HiSilicon, China Telecom, ZTE Corporation CR Rel-17 38.331 17.2.0 3723 - F NR\_cov\_enh-Core

[R2-2212880](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212880%20Correction%20on%20CE%20applicability%20to%20RA%20procedure.docx) Correction on CE applicability to RA procedure Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.2.0 1503 - F NR\_cov\_enh-Core

## 7.2 NB-IoT and eMTC support for NTN

Tdoc Limitation: 3 tdocs

### 7.2.0 In-principle agreed CRs

CRs AIP from RAN2#119bis-e.

[R2-2211287](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211287%2036.321%20CR.docx) Corrections for Supporting Non-Terrestrial Network in NB-IoT and eMTC Mediatek Inc. CR Rel-17 36.321 17.2.0 1556 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2212106](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212106-CR-TS36306-IoT-NTN-Capability-Correction.docx) Miscellanious Correction for IoT-NTN Capabilities Nokia Solutions & Networks (I) CR Rel-17 36.306 17.2.0 1864 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212830](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212830%20Corrections%20to%20IOT%20NTN.docx) Corrections to IOT NTN Huawei, HiSilicon CR Rel-17 36.331 17.2.0 4884 1 F LTE\_NBIOT\_eMTC\_NTN R2-2211020

[R2-2212955](file:///C%3A%5CData%5C3GPP%5CExtracts%5C36304_CR0859_%28Rel-17%29_R2-2212955%20-%20Miscellaneous%20idle%20mode%20corrections.docx) Miscellaneous idle mode corrections Ericsson CR Rel-17 36.304 17.2.0 0859 - F LTE\_NBIOT\_eMTC\_NTN

### 7.2.1 General and Stage 2 corrections

LSs, rapporteur inputs and Stage 2 corrections. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

Incoming LSs

[R2-2211171](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211171_R4-2217265.docx) LS on information for neighbor/target cell in IoT NTN (R4-2217265; contact: Huawei) RAN4 LS in Rel-18 LTE\_NBIOT\_eMTC\_NTN\_req-Core To:RAN2

Stage 2 corrections

[R2-2212944](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212944%20-%20R17%20IoT%20NTN%20stage%202%20issues.docx) R17 IoT NTN stage 2 issues Ericsson discussion Rel-17

### 7.2.2 UP corrections

[R2-2211286](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211286%20Correction%20on%20UE-eNB%20RTT%20calculation.docx) Correction on UE-eNB RTT Mediatek Inc. CR Rel-17 36.321 17.2.0 1555 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2211334](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211334%20-%20Discussion%20on%20DRX%20HARQ%20RTT%20timer%20for%20eMTC%20over%20NTN.doc) Discussion on DRX HARQ RTT timer for eMTC over NTN OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211515](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211515%20Discussion%20on%20HARQ%20RTT%20timer%20in%20IoT%20NTN.DOCX) Discussion on HARQ RTT timer in IoT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211577](file:///C%3A%5CData%5C3GPP%5CExtracts%5C36321_CR1557_%28Rel-17%29_R2-2211577%20HARQ%20RTT%20timer%20start.docx) Start of DL HARQ RTT timer for eMTC in NTN Qualcomm Incorporated CR Rel-17 36.321 17.2.0 1557 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212789](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212789%20On%20DRX%20HARQ%20RTT%20timer%20for%20eMTC%20NTN.docx) On DRX HARQ RTT timer for eMTC NTN Nokia, Nokia Shanghai Bell discussion Rel-17 IoT\_NTN\_enh

[R2-2212942](file:///C%3A%5CData%5C3GPP%5CExtracts%5C36321_CR1558_%28Rel-17%29_R2-2212942%20-%20Correction%20for%20IoT%20NTN.docx) Correction for IoT NTN Ericsson CR Rel-17 36.321 17.2.0 1558 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212943](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212943%20-%20R17%20IoT%20NTN%20User%20Plane%20issues.docx) R17 IoT NTN User Plane issues Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

### 7.2.3 CP corrections

IoT NTN UE capability

[R2-2211310](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211310%20Discussion%20on%20remaining%20issue%20of%20IoT%20NTN%20UE%20capability-clean.docx) Discussion on remaining issue of IoT NTN UE capability CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211575](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211575%20UE%20capability%20for%20eMTC%20NTN.docx) Discussion on SA2 LS reply on UE capability for IoT NTN Qualcomm Incorporated discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2211576](file:///C%3A%5CData%5C3GPP%5CExtracts%5C36331_CR4888_%28Rel-17%29_R2-2211576%20TN%20support%20indication.docx) Reporting the support of TN bands to NTN Qualcomm Incorporated CR Rel-17 36.331 17.2.0 4888 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212003](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212003%20Further%20discussion%20on%20UE%20capability%20signalling%20for%20IoT-NTN.docx) Further discussion on UE capability signalling for IoT-NTN ZTE Corporation, Sanechips discussion LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2212831](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212831%20Remaining%20issues%20on%20UE%20capability%20signalling%20for%20IoT-NTN.DOCX) Remaining issues on UE capability signalling for IoT-NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2212679](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212679%20Corrections%20on%20HandoverPreparationInformation%20in%2036.331-clean.docx) Corrections on HandoverPreparationInformation in 36.331 CATT CR Rel-17 36.331 17.2.0 4897 - F LTE\_NBIOT\_eMTC\_NTN

* All documents to be discussed in offline 104
* [AT120][104][IoT NTN] RRC corrections (Huawei)

Initial scope: Discuss proposals/CRs on IoT NTN UE capability

Initial intended outcome: Summary of the offline discussion with e.g.:

* List of proposals for agreement (if any)
* List of proposals that require online discussions

Deadline for companies’ feedback: Tuesday 2022-11-15 20:00 CET

Deadline for rapporteur's summary (in R2-2213014): Wednesday 2022-11-16 06:00 CET

R2-2213014 [offline-104] RRC corrections Huawei discussion Rel-18 LTE\_NBIOT\_eMTC\_NTN

Neighbour cell ephemeris

[R2-2211284](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211284%20Miscellaneous%20corrections%20to%20TS%2036.331%20for%20IoT%20NTN.docx) Misc RRC correction for IoT NTN MediaTek Inc. CR Rel-17 36.331 17.2.0 4885 - F LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2211309](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211309%20Discussion%20on%20introducing%20satellite%20assistance%20information%20for%20neighbour%20cells%20in%20SIB31-clean.docx) Discussion on introducing satellite assistance information for neighbour cells in SIB31 CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2212001](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212001%20Discussion%20on%20RRC%20corrections.docx) Discussion on RRC corrections ZTE Corporation, Sanechips discussion LTE\_NBIOT\_eMTC\_NTN-Core

[R2-2212043](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212043%20Inclusion%20of%20neighbour%20cell%20ephemeris%20in%20system%20information.docx) Inclusion of neighbour cell ephemeris in system information Lenovo discussion Rel-17

[R2-2212485](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212485%20On%20neighbouring%20cell%20ephemeris%20for%20IoT%20NTN.docx) On neighbouring cell ephemeris for IoT NTN Samsung R&D Institute UK discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

[R2-2212832](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212832%20CR%20to%2036.331%20on%20neighbour%20cell%20ephemeris.docx) CR to 36.331 on neighbour cell ephemeris Huawei, HiSilicon CR Rel-17 36.331 17.2.0 4898 - F LTE\_NBIOT\_eMTC\_NTN

[R2-2212953](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212953%20-%20Neighbour%20cell%20information%20in%20IoT%20NTN.docx) Neighbour cell information in IoT NTN Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

Epoch time

[R2-2211285](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211285%20Discussion%20on%20epoch%20time.docx) Discussion on epoch time Mediatek Inc. discussion Rel-17 36.331

[R2-2212100](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212100-Further-discussion-on-epoch%20time.docx) Further discussion on epoch-Time reference for Handover scenarios Nokia, Nokia Shanghai Bell discussion Rel-17

Other

[R2-2212005](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212005%2036306CR_Corrections%20for%20UE%20capability.docx) Corrections for UE capability ZTE Corporation, Sanechips CR Rel-17 36.306 17.2.0 1863 - F LTE\_NBIOT\_eMTC\_NTN-Core Late

[R2-2212208](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212208-CR-to-TS36331SIB31-related-timer-correction.docx) Corrections related to Timers for SIB-31 acquisition Nokia Solutions & Networks (I) CR Rel-17 36.331 17.2.0 4890 - F LTE\_NBIOT\_eMTC\_NTN

Withdrawn

R2-2212099 On the remaining issues of UE capabilities for TN-NTN connected mode mobility Nokia, Nokia Shanghai Bell discussion Rel-17 Withdrawn

## 8.6 IoT NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-221806)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.6.1 Organizational

LSs, rapporteur inputs and other organizational documents. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

[R2-2211658](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211658%20IoT-NTN%20AgreementsList.docx) IoT-NTN Agreements List Mediatek India Technology Pvt. report R2-2210368

### 8.6.2 Performance Enhancements

#### 8.6.2.1 HARQ enhancements

[R2-2211288](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211288%20On%20Disabling%20HARQ%20Feedback%20in%20IoT-NTN.docx) On Disabling HARQ Feedback in IoT-NTN Mediatek Inc. discussion

[R2-2211311](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211311%20Discussion%20on%20the%20HARQ%20disabling%20in%20IoT%20NTN-clean.docx) Discussion on the HARQ disabling in IoT NTN CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2211336](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211336%20-%20Discussion%20on%20HARQ%20enhancement%20for%20IoT%20NTN.doc) Discussion on HARQ enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2211518](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211518%20Discussion%20on%20HARQ%20disabling%20for%20NB-IoT%20NTN.docx) Discussion on HARQ disabling for NB-IoT NTN Huawei, HiSilicon discussion Rel-18 IoT\_NTN\_enh

[R2-2211549](file:///C%3A%5CData%5C3GPP%5CRAN2%5CDocs%5CR2-2211549.zip) Remaining Issues on HARQ Feedback in IoT NTN Lockheed Martin discussion

[R2-2211578](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211578%20IoT%20HARQ%20process.doc) Enhancement for UL and DL HARQ processes Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2211833](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211833.docx) Discussion on HARQ enhancement for IoT NTN. Transsion Holdings discussion Rel-18

[R2-2212011](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212011%20Further%20discussion%20on%20HARQ%20enhancements.docx) Further discussion on HARQ enhancements ZTE Corporation, Sanechips discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212044](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212044%20Further%20considerations%20on%20HARQ%20enhancements%20for%20IoT%20NTN.docx) Further considerations on HARQ enhancements for IoT NTN Lenovo discussion Rel-18

[R2-2212295](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212295%20%28R18%20IoT-NTN%20WI%20AI%208.6.2.1%29%20-%20disabling%20HARQ%20feedback.docx) Disabling HARQ feedback for IoT-NTN Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212487](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212487%20On%20HARQ%20enhancements%20for%20IoT%20NTN.docx) On HARQ enhancements for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2212618](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212618%20Discussion%20on%20the%20HARQ%20enhancement%20for%20IoT-NTN.docx) Discussion on the HARQ enhancement for IoT-NTN CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2212726](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212726%20Discussion%20on%20HARQ%20enhancements%20for%20IoT%20NTN.docx) Discussion on HARQ enhancements for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-18 IoT\_NTN\_enh

[R2-2212806](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212806%20Discussion%20on%20disabling%20of%20HARQ%20feedback.doc) Discussion on disabling of HARQ feedback Xiaomi discussion Rel-18

[R2-2212954](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212954%20-%20R18%20IoT%20NTN%20performance%20enhancement.docx) R18 IoT NTN performance enhancement Ericsson discussion

#### 8.6.2.2 GNSS operation enhancements

Not treated at this meeting. No contributions expected

[R2-2211347](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211347%20GNSS%20operation.doc) Discussion on GNSS operation in connected mode OPPO discussion Rel-18 IoT\_NTN\_enh-Core

### 8.6.3 Mobility Enhancements

#### 8.6.3.1 Enhancements for neighbour cell measurements

[R2-2211289](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211289%20On%20Mobility%20Enhancements%20in%20IoT-NTN.docx) On Mobility Enhancements in IoT-NTN Mediatek Inc. discussion

[R2-2211312](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211312%20%20Enhancements%20for%20Neighbour%20Cell%20Measurements.docx) Enhancements for Neighbor Cell Measurements CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2211337](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211337%20-%20Discussion%20on%20measurement%20enhancement%20for%20IoT%20NTN.doc) Discussion on measurement enhancement for IoT NTN OPPO discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2211412](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211412%20Discussion%20on%20neighbour%20cell%20measurements%20in%20IoT%20NTN.docx) Discussion on neighbour cell measurements in IoT NTN Intel Corporation discussion Rel-18 IoT\_NTN\_enh

[R2-2211579](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211579%20IoT%20mobility.doc) Connected mode measurement trigger Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2211737](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211737_RLF%20in%20IoT%20NTN.doc) Neighbour cell measurements before RLF for NB-IoT Apple discussion Rel-18 IoT\_NTN\_enh

[R2-2211834](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211834.docx) Discussion on Enhancements for neighbour cell measurements Transsion Holdings discussion Rel-18

[R2-2212012](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212012%20Discussion%20on%20enhancements%20for%20neighbor%20cell%20measurements.docx) Discussion on enhancements for neighbor cell measurements ZTE Corporation, Sanechips discussion IoT\_NTN\_enh-Core

[R2-2212045](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212045%20CONNECTED%20neighbour%20cell%20measurement%20for%20NB-IoT%20in%20NTN%20%28Revision%20of%20R2-2209967%29.docx) CONNECTED neighbour cell measurement for NB-IoT in NTN Lenovo discussion Rel-18

[R2-2212077](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212077%20Consideration%20on%20enhancements%20for%20the%20neighbour%20cell%20measurement.doc) Consideration on enhancements for the neighbour cell measurement Xiaomi discussion

[R2-2212238](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212238.docx) Enhancements for neighbour cell measurements NEC discussion Rel-18 IoT\_NTN\_enh

[R2-2212296](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212296%20%28R18%20IoT-NTN%20WI%20AI%208.6.3.1%29%20-%20measurements%20before%20RLF.docx) Neighbour cell measurements before RLF Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212486](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212486%20Connected%20mode%20mobility%20enhancements%20for%20IoT%20NTN.docx) Connected mode mobility enhancements for IoT NTN Samsung R&D Institute UK discussion Rel-18 IoT\_NTN\_enh

[R2-2212619](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212619%20Discussion%20on%20enhancements%20for%20neighbour%20cell%20measurements.docx) Discussion on enhancements for neighbour cell measurements CMCC discussion Rel-18 IoT\_NTN\_enh

[R2-2212778](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212778%20-%20Triggering%20neighbour%20cell%20measurements%20prior%20to%20RLF.docx) Triggering neighbor cell measurements prior to RLF Ericsson discussion Rel-18 IoT\_NTN\_enh

[R2-2212828](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212828%20Discussion%20on%20neighbour%20cell%20measurements.DOC) Discussion on neighbour cell measurements Huawei, HiSilicon discussion Rel-18 LTE\_NBIOT\_eMTC\_NTN

#### 8.6.3.2 Other

[R2-2211313](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211313%20Discussion%20on%20Location%20Based%20CHO%20Mechanism-final.docx) Discussion on Location Based CHO Mechanism CATT discussion Rel-18 IoT\_NTN\_enh

[R2-2211580](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211580%20RLF%20detection.doc) RLF detection in earth fixed cell Qualcomm Incorporated discussion Rel-18 IoT\_NTN\_enh

[R2-2212013](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212013%20Discussion%20on%20mobility%20enhancements%20for%20eMTC%20NTN.docx) Discussion on mobility enhancements for eMTC NTN ZTE Corporation, Sanechips discussion IoT\_NTN\_enh-Core

[R2-2212046](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212046%20IDLE%20mobility%20for%20IoT%20NTN%20%28Revision%20of%20R2-2209968%29.docx) IDLE mobility for IoT NTN Lenovo discussion Rel-18

[R2-2212168](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212168.doc) Discussion on mobility enhancement in IoT-NTN Spreadtrum Communications discussion Rel-18

[R2-2212239](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212239.docx) CHO and Measurement enhancement for eMTC NEC discussion Rel-18 IoT\_NTN\_enh

[R2-2212241](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212241.docx) Idle mode Mobility Enhancement for IoT NTN Samsung Electronics Nordic AB discussion

[R2-2212297](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212297%20%28R18%20IoT-NTN%20WI%20AI%208.6.3.2%29%20-%20other%20mobility%20enhancements.docx) Other IoT-NTN mobility enhancements Interdigital, Inc. discussion Rel-18 IoT\_NTN\_enh-Core

[R2-2212829](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212829%20Discussion%20on%20CHO%20enhancements.DOC) Discussion on CHO enhancements Huawei, HiSilicon discussion Rel-18 LTE\_NBIOT\_eMTC\_NTN

Moved here from 8.6.3

[R2-2212101](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212101-Mobility-Enhancements-IoT-NTN.docx) Analysis on mobility enhancements for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2212102](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212102-Additional-Aspects-Mobility-Enhancements.docx) Additional aspects for mobility enhancements for IoT-NTN Nokia, Nokia Shanghai Bell discussion Rel-18

[R2-2212909](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212909.docx) Discussion on Mobility Enhancements of IoT NTN Turkcell discussion Rel-18

[R2-2212948](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212948%20-%20Conditional%20Handover%20in%20IoT%20NTN.docx) Conditional Handover in IoT NTN Ericsson discussion

### 8.6.4 Enhancements to discontinuous coverage

Not treated at this meeting. No contributions expected

[R2-2211290](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211290%20On%20Enhancements%20to%20discontinuous%20coverage.docx) On Enhancements to discontinuous coverage Mediatek Inc. discussion

## 8.7 NR NTN enhancements

(xx-Core; leading WG: RAN1; REL-18; WID: RP-222654)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

### 8.7.1 Organizational

LSs, rapporteur inputs and other organizational documents. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

[R2-2211129](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211129_S2-2209589.docx) Response LS on LCS framework for Network verified UE location (NTN) (S2-2209589; contact: CATT) SA2 LS in Rel-18 FS\_eLCS\_Ph3 To:RAN2 Cc:RAN3, RAN1

Moved here from 6.10.1

[R2-2211132](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211132_S2-2209684.docx) LS on Satellite coverage data transfer to a UE using UP versus CP (S2-2209684; contact: Qualcomm) SA2 LS in Rel-18 FS\_5GSAT\_Ph2 To:CT1 Cc:RAN2, RAN3, SA3

### 8.7.2 Coverage Enhancements

[R2-2211314](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211314%20Discussion%20on%20NTN%20coverage%20enhancements.docx) Discussion on NTN coverage enhancements CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211324](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211324%20Further%20discussion%20on%20overhead%20reduction%20for%20VoNR%20in%20NR%20NTN.docx) Further discussion on overhead reduction for VoNR in NR NTN vivo discussion

[R2-2211335](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211335%20-%20Discussion%20on%20L2%20header%20reduction%20in%20NTN.doc) Discussion on L2 header reduction in NTN OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211571](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211571%20coverage%20enhancement.doc) Discussion on RAN2 aspects of coverage enhancements Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2212047](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212047%20Potential%20issues%20for%20Msg3%20repetition%20in%20NTN%20%28Revision%20of%20R2-2209969%29.docx) Potential issues for Msg3 repetition in NTN Lenovo discussion Rel-18

[R2-2212240](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212240.docx) Coverage enhancement NEC discussion Rel-18 NR\_NTN\_enh

[R2-2212279](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212279%20Consideration%20on%20coverage%20enhancement%20in%20NTN.docx) Consideration on coverage enhancement in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212336](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212336%20%28R18%20NR%20NTN%20WI%20AI%208.7.2%29%20Msg3%20blind%20retx.docx) Blind Msg3 retransmission in Rel-18 NTN InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212447](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212447%208.7.2%20Discussion%20on%20NR%20NTN%20Coverage%20Enhancement.docx) Discussion on NR NTN Coverage Enhancement Samsung Research America discussion Rel-18 NR\_NTN\_enh

[R2-2212613](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212613%20Discussion%20on%20coverage%20enhancements.docx) Discussion on coverage enhancements CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212727](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212727%20On%20coverage%20enhancements%20for%20NR%20NTN.docx) On coverage enhancements for NR NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh

[R2-2212760](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212760_Discussion%20on%20the%20L2%20header%20reduction%20in%20NTN_r2.DOCX) Discussion on the coverage enhancement in NTN LG Electronics Inc. discussion NR\_NTN\_enh-Core

[R2-2212803](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212803%20Discussion%20on%20coverage%20enhancement%20for%20NR%20NTN.doc) Discussion on coverage enhancement for NR NTN Xiaomi discussion Rel-18

[R2-2212937](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212937%20Discussion%20on%20coverage%20enhancements.doc) Discussion on coverage enhancements Huawei, HiSilicon discussion Rel-18

[R2-2212951](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212951%20-%20R18%20NR%20NTN%20Coverage%20enhancements.docx) R18 NR NTN Coverage enhancements Ericsson discussion

### 8.7.3 Network verified UE location

[R2-2211325](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211325%20Further%20discussion%20on%20network%20verified%20UE%20location.docx) Further discussion on network verified UE location vivo discussion Rel-18

[R2-2211348](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211348%20NW%20verified%20UE%20location.doc) Discussion on network verified UE location OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211373](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211373-Network%20verification%20of%20UE%20location.docx) On Network Verified UE Location in NR NTN Mediatek Inc. discussion R2-2209444

[R2-2211517](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211517%20Discussion%20on%20the%20overall%20procedure%20of%20network%20verified%20UE%20location.doc) Discussion on the overall procedure of network verified UE location Huawei, HiSilicon discussion Rel-18 NR\_NTN\_enh

[R2-2211572](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211572%20Location%20verification.doc) Discussion on network verified UE location Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2211733](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211733_Discusson%20on%20network%20verified%20UE%20location.doc) Discussion on NTN network verified UE location Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211988](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211988.docx) Network Verified UE Location Samsung Electronics Nordic AB discussion

[R2-2212078](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212078%20Discussion%20on%20network%20verified%20UE%20location.doc) Discussion on network verified UE location Xiaomi discussion

[R2-2212097](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212097_NTN_NW_Verified.docx) On NTN NW verified UE location aspects Lenovo discussion Rel-18

[R2-2212175](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212175%20Discussion%20on%20UE%20location%20verify%20procedure.doc) Discussion on UE position verify procedure Spreadtrum Communications discussion Rel-18

[R2-2212280](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212280%20Consideration%20on%20NW%20verified%20UE%20location.doc) onsideration on NW verified UE location ZTE Corporation, Sanechips discussion Rel-18

[R2-2212334](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212334-Network%20verification%20of%20UE%20location.docx) On Network Verified UE Location in NR NTN Mediatek India Technology Pvt. discussion R2-2209444 Withdrawn

[R2-2212403](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212403%20Network%20verified%20UE%20location.docx) Further on network verified UE location Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh

[R2-2212640](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212640%20Network%20verified%20UE%20location.docx) Network verified UE location THALES discussion

[R2-2212705](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212705%20Remaining%20Issues%20of%20UE%20Location%20Verification%20via%20Network.doc) Remaining Issues of UE Location Verification via Network CMCC discussion Rel-18 NR\_NTN\_enh

[R2-2212949](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212949%20-%20R18%20NR%20NTN%20Network%20verified%20UE%20location.docx) R18 NR NTN Network verified UE location Ericsson discussion NR\_NTN\_enh

### 8.7.4 NTN-TN and NTN-NTN mobility and service continuity enhancements

#### 8.7.4.1 Cell reselection enhancements

[R2-2211315](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211315%20Discussion%20on%20Mobility%20Enhancements%20in%20IDLE%20state-final.docx) Discussion on Mobility Enhancements in IDLE state CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211323](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211323%20Discussion%20on%20cell%20reselection%20enhancement%20in%20NR%20NTN.docx) Discussion on cell reselection enhancement in NR NTN vivo discussion Rel-18

[R2-2211338](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211338%20Discussion%20on%20mobility%20enhancements%20for%20idle%20and%20inactive%20UEs.doc) Discussion on mobility enhancements for idle and inactive UEs OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211410](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211410%20Discussion%20on%20NTN-NTN%20cell%20reselection%20enhancements.docx) Discussion on NTN-NTN cell reselection enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2211411](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211411%20Discussion%20on%20TN-NTN%20cell%20reselection%20enhancements.docx) Discussion on TN-NTN cell reselection enhancements Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2211573](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211573%20IDLE%20mode%20enhancements.doc) TN neighbour cell measurement relaxation Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2211662](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211662%20Discussion%20on%20cell%20reselection%20in%20earth%20moving%20cell.docx) Discussion on cell reselection in earth moving cell CAICT,CAST Xi’an discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211734](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211734_%20NTN-NTN%20cell%20reselection%20enhancement_v0%20.doc) NTN-NTN cell reselection enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211735](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211735_%20NTN-TN%20specific%20mobility%20enhancement_v0.doc) NTN-TN cell reselection enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211767](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211767_Discussion%20on%20NTN-NTN%20cell%20reselection%20enhancements.docx) Discussion on NTN-NTN cell reselection enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh R2-2210737

[R2-2211768](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211768_Discussion%20on%20NTN-TN%20cell%20reselection%20enhancements.docx) Discussion on NTN-TN cell reselection enhancements LG Electronics France discussion Rel-18 NR\_NTN\_enh

[R2-2211811](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211811%20Discussion%20on%20reference%20location%20for%20moving%20cell.docx) Discussion on reference location for moving cell ASUSTeK discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211835](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211835%20Further%20discussion%20on%20NTN-NTN%20and%20NTN-TN%20cell%20reselection%20enhancements.doc) Further discussion on NTN-NTN and NTN-TN cell reselection enhancements Transsion Holdings discussion Rel-18

[R2-2211911](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211911%20Discussion%20on%20the%20no-TN-coverage%20area.doc) Discussion on the no-TN-coverage area FGI discussion

[R2-2211929](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211929.docx) Cell selection/reselection enhancements in NTN Sony discussion Rel-18 NR\_NTN\_enh

[R2-2211999](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211999_Further%20discussion%20on%20NTN-TN%20cell%20reselection%20enhancements.doc) Further discussion on NTN-TN cell reselection enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212048](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212048%20IDLE%20and%20INACTIVE%20mobility%20regarding%20moving%20cells%20and%20TN%20area.docx) IDLE/INACTIVE mobility regarding moving cells and TN area Lenovo discussion Rel-18

[R2-2212079](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212079%20Cell%20reselection%20enhancements%20for%20NTN-NTN%20and%20NTN-TN%20mobility.doc) Cell reselection enhancements for NTN-NTN and NTN-TN mobility Xiaomi discussion

[R2-2212260](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212260%20On%20Cell%20Reselection%20Enhancements%20for%20Intra-NTN%20and%20NTN-TN%20Scenarios.docx) On Cell Reselection Enhancements for Intra-NTN and NTN-TN Scenarios Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212281](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212281%20Discussion%20on%20cell%20reselection%20enhancements%20in%20NTN.docx) Discussion on cell reselection enhancements in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212337](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212337%20%28R18%20NR%20NTN%20WI%20AI%208.7.4.1%29%20Earth%20moving%20cell.docx) Cell reselection enhancements for Earth moving cell InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212338](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212338%20%28R18%20NR%20NTN%20WI%20AI%208.7.4.1%29%20NTN-TN%20mobility.docx) NTN-TN mobility and service continuity InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212384](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212384_Remaining%20issues%20on%20cell%20reselection%20enhancements.docx) Remaining issues on cell reselection enhancements NEC Telecom MODUS Ltd. discussion

[R2-2212385](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212385_Solutions%20to%20reduce%20UE%20power%20consumption%20for%20NTN%20to%20TN%20mobility%20in%20Idle%20or%20Inactive%20mode.docx) NTN-NTN handover enhancement for RRC\_CONNECTED UEs NEC Telecom MODUS Ltd. discussion R2-2210338

[R2-2212448](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212448%208.7.4.1%20Discussion%20on%20NR%20NTN%20cell%20reselection%20enhancements.docx) Discussion on NR NTN Cell Reselection Enhancement Samsung Research America discussion Rel-18 NR\_NTN\_enh

[R2-2212559](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212559_Discussion_on_cell_reselection_enhancements.doc) Discussion on cell reselection enhancements Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212614](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212614%20Discussion%20on%20NTN-TN%20reselection%20and%20reselection%20for%20earth%20moving%20cell.docx) Discussion on NTN-TN reselection and reselection for earth moving cell CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212799](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212799.docx) Discussion on NTN-TN and NTN-NTN cell re-selection ITL discussion Rel-18

[R2-2212826](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212826%20Discussion%20on%20the%20cell%20reselection%20enhancements.doc) Discussion on cell reselection enhancements Huawei, HiSilicon discussion Rel-18 NR\_NTN\_solutions-Core

[R2-2212893](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212893%20Cell%20Reselection%20Enhancement%20for%20NTN-NTN%20and%20NTN-TN%20Mobility.docx) Cell Reselection Enhancement for NTN-NTN and NTN-TN Mobility Google Inc. discussion Rel-18

[R2-2212945](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212945%20-%20Cell%20reselection%20enhancements.docx) Cell reselection enhancements Ericsson discussion NR\_NTN\_enh

#### 8.7.4.2 Handover enhancements

[R2-2211316](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211316%20Discussion%20on%20PCI%20unchanged%20scenario-final.docx) Discussion on PCI unchanged scenario CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211317](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211317%20Discussion%20on%20NTN%20HO%20Enhancements.docx) Discussion on NTN HO Enhancements CATT discussion Rel-18 NR\_NTN\_enh

[R2-2211322](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211322%20Discussion%20on%20handover%20enhancement%20for%20siganlling%20overhead%20reduction%20in%20NR%20NTN.docx) Discussion on handover enhancement for siganlling overhead reduction in NR NTN vivo discussion Rel-18

[R2-2211349](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211349%20NTN%20connected%20mode%20mobility.doc) Discussion on NTN handover enhancements OPPO discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211409](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211409%20Discussion%20on%20NTN%202-step%20handover.docx) Discussion on NTN 2-step handover Intel Corporation discussion Rel-18 NR\_NTN\_enh

[R2-2211574](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211574%20Mobility%20enhancements.doc) Signaling overhead reduction in satellite switch Qualcomm Incorporated discussion Rel-18 NR\_NTN\_enh

[R2-2211663](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211663%20Discussion%20on%20NTN%20HO%20enhancnment.docx) Discussion on NTN HO enhancnment CAICT discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211736](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211736_NTN%20specific%20handover%20enhancement.doc) NTN specific handover enhancement Apple discussion Rel-18 NR\_NTN\_enh-Core

[R2-2211769](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211769_Discussion%20on%20handover%20enhancements%20for%20NTN.docx) Discussion on HO enhancements for NTN LG Electronics France discussion Rel-18 NR\_NTN\_enh

[R2-2211784](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211784%20Reduction%20of%20handover%20overhead%20in%20NTN.doc) Reduction of handover overhead in NTN China Telecom discussion Rel-18 NR\_NTN\_enh

[R2-2211836](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211836%20Further%20discussion%20on%20NTN-NTN%20handover%20enhancements.doc) Further discussion on NTN-NTN handover enhancements Transsion Holdings discussion Rel-18

[R2-2211930](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211930.docx) Signaling overhead reduction and group handover during NTN-NTN HOs Sony discussion Rel-18 NR\_NTN\_enh

[R2-2211998](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2211998_Further%20discussion%20on%20NTN-NTN%20handover%20enhancements.doc) Further discussion on NTN-NTN handover enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212049](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212049%20Issue%20analysis%20for%20service%20continuity%20in%20TN-NTN%20and%20NTN-NTN%20scenarios.docx) Issue analysis for service continuity in TN-NTN and NTN-NTN scenarios Lenovo discussion Rel-18

[R2-2212080](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212080%20Discussion%20on%20handover%20enhancements%20for%20NTN-NTN%20mobility.doc) Discussion on handover enhancements for NTN-NTN mobility Xiaomi discussion

[R2-2212259](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212259%20On%20Connected%20Mode%20Mobility%20for%20Rel-18%20NTN.docx) On Connected Mode Mobility for Rel-18 NTN Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212282](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212282%20Discussion%20on%20HO%20enhancements%20in%20NTN.docx) Discussion on HO enhancements in NTN ZTE Corporation, Sanechips discussion Rel-18

[R2-2212339](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212339%20%28R18%20NR%20NTN%20WI%20AI%208.7.4.2%29%20CONN%20mobility%20enh.docx) NTN mobility enhancements for RRC\_CONNECTED InterDigital discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212449](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212449%208.7.4.2%20Discussion%20on%20NR%20NTN%20handover%20enhancements.docx) Discussion on NR NTN Handover Enhancement Samsung Research America discussion Rel-18 NR\_NTN\_enh

[R2-2212560](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212560_Discussion_on_handover_enhancements.doc) Discussion on handover enhancements Sharp discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212615](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212615%20Discussion%20on%20handover%20enhancements.docx) Discussion on handover enhancements CMCC discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212721](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212721_HO_CHO%20Signaling%20Overhead%20Reduction%20by%20NTN-config%20omission.docx) HO/CHO Signaling Overhead Reduction by NTN-config omission Sequans Communications discussion Rel-18 NR\_NTN\_enh-Core

[R2-2212802](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212802.docx) View on NTN HO enhancements ITL discussion

[R2-2212827](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212827%20Discussion%20on%20NTN%20handover%20enhancements.doc) Discussion on NTN handover enhancements Huawei, HiSilicon discussion Rel-18 NR\_NTN\_solutions-Core

[R2-2212894](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212894%20NTN-TN%20Mobility%20Enhancement%20for%20RRC_CONNECTED%20UEs.docx) NTN-TN Mobility Enhancement for RRC\_CONNECTED UEs Google Inc. discussion Rel-18

[R2-2212934](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212934_Further%20discussion%20on%20NTN-NTN%20handover%20enhancements.doc) Further discussion on NTN-NTN handover enhancements NTT DOCOMO, INC. discussion Rel-18

[R2-2212946](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212946%20-%20Handover%20enhancements.docx) Handover enhancements Ericsson discussion NR\_NTN\_enh

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[R2-2211372](file:///C%3A%5CData%5C3GPP%5CRAN2%5CDocs%5CR2-2211372.zip) Handover Enhancement in LEO NTN Mediatek Inc. discussion R2-2209445

[R2-2212177](file:///C%3A%5CData%5C3GPP%5CExtracts%5CR2-2212177%20Some%20enhancements%20in%20NTN%20handover.doc) Some enhancements in NTN handover Spreadtrum Communications discussion Rel-18

## Summary

TBD

Agreed CRs

NR-NTN

IoT-NTN

RedCap

CovEnh

Approved LSs out

[Post120] Email discussions

Short

Long