3GPP TSG-RAN WG2 Meeting #117 electronic R2-2203512

Online, Feb 21st - Mar 3rd, 2022

**Agenda item: 10.2**

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

**Title: Report from Break-out session on R17 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 [AT117-e][000]

Organizational

1. All organization emails and notes will be shared over the following email discussion throughout the meeting:

* [AT117-e][100] ****Organizational - NTN, REDCAP and CE session (RAN2 VC)****

Scope:

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

Schedule/Plan

WEEK 1:

|  |  |  |  |
| --- | --- | --- | --- |
| **Time Zone UTC** | **Web Conference R2 - Main** | **Web Conference R2 - BO1** | **Web Conference R2 - BO2** |
| **Monday** |  |  |  |
| 12:50-13:00 | R2 117-e planning Q&A |
| 13:00-13:45 | NR17 IoT NTN (Johan) | NR17 Multi-SIM (Tero) | NR17 SL enh (Kyeongin) |
| 13:45-14:30 | NR17 IoT NTN (Johan) | NR17 Small Data Enh (Diana) | NR17 SL enh (Kyeongin) |
| 14:30-15:15 | NR17 feMIMO (Johan) | NR17 Small Data Enh (Diana) | NR17 SL Relay (Nathan) |
| 15:15-16:00 | NR17 MGE (Johan) | NR17 RACH indication / partitioning (Diana) | NR17 SL Relay (Nathan) |
| **Tuesday** |  |  |  |
| 13:00-13:45 | NR17 eIAB (Johan) | NR17 SONMDT (HuNan) | LTE17 IoT (Brian) |
| 13:45-14:30 | NR17 eIAB (Johan) | NR17 IIOT (Diana) | **NR17 NTN (Sergio)**  **[8.10.1]**  **[8.10.2] offline 103**  **[8.10.3] offline 101, 102, 108**  **[8.10.4] offline 104** |
| 14:30-15:15 | NR17 ePowSav (Johan) | NR17 Pos (Nathan) |
| 15:15-16:00 | NR17 Other (Johan) | NR17 Pos (Nathan) | **NR17 CovEnh (Sergio)**  **[8.19.1]**  **[8.19.2]** |
| **Wednesd** |  |  |  |
| 05:00-06:00 | NR17 ePowSav (Johan) *TBD (or feMIMO or MGE or NR17 Other)* | NR17 up to 71 GHz (Tero) | NR17 Pos or SL Relay (Nathan) |
| **Thursday** |  |  |  |
| 04:30-05:30 | NR17 QoE (Johan) | NR17 Multi-SIM (Tero) | **NR17 RedCap (Sergio)**  **[8.12.1]**  **[8.12.2] offline 105**  **[8.12.4]**  **[8.12.3] offline 106**  **[8.12.5] offline 107** |
| 05:30-06:30 | NR17 MBS (Johan) | LTE17 UPIP (Tero)  TBD Other (Tero) |
| **Friday** |  |  |  |
| 04:30-05:30 | NR17 MBS (Johan) | NR17 RAN Slicing (Tero) | NR17 SL Relay (Nathan) |
| 05:30-06:30 | MR17 MBS, UP (Johan) | NR17 DCCA (Tero) | EUTRA legacy IoT (Emre/Brian) |

WEEK 2:

|  |  |  |  |
| --- | --- | --- | --- |
| **Time Zone UTC** | **Web Conference R2 - Main** | **Web Conference R2 - BO1** | **Web Conference R2 - BO2** |
| **Monday** |  |  |  |
| 13:00-13:45 | NR17 UDC (Johan)  NR17 eNPN (Johan) | NR17 SONMDT (HuNan) | LTE17 IoT (Brian) |
| 13:45-14:30 | NR17 AI 8.0.x (Johan) | NR17 IIOT (Diana) | NR17 Pos (Nathan) |
| 14:30-15:15 | NR17 TEI (Johan) | NR17 RACH indication / partitioning (Diana) | CB Nathan |
| 15:15-16:00 | NR15 NR16 CB (Johan) | CB Diana | CB Nathan |
| **Tuesday** |  |  |  |
| 13:00-13:45 | CB MGE Johan | **CB Sergio**  **NR NTN** | NR17 SL enh (Kyeongin) |
| 13:45-14:30 | CB MBS Johan | **CB Sergio**  **NR NTN** | NR17 SL enh (Kyeongin) |
| 14:30-15:15 | CB IoT NTN Johan | CB Tero | CB Diana |
| 15:15-16:00 | CB ePowSav Johan | CB Tero | CB Diana |
| **Wednesday** |  |  |  |
| 13:00-13:45 | NR17 feMIMO | CB HuNan | CB Brian Emre |
| 13:45-14:30 | NR17 feMIMO | **CB Sergio**  **RedCap** | CB Nathan |
| 14:30-15:15 | CB Johan | **CB Sergio**  **RedCap, CovEnh** | CB Nathan |
| 15:15-16:00 | CB Johan | CB Tero | CB or Other Kyeongin |
| **Thursday** |  |  |  |
| 04:30-05:30 | CB Johan | CB TBD | CB TBD |
| 05:30-06:30 | CB Johan | CB TBD | CB TBD |

List and status of offline email discussions

NOTE: No offline email discussions will be kicked off before Sunday Feb 20th, 19:00 UTC

* [AT117-e][101][NTN] RRC open issues (Ericsson)

Initial scope: Discuss RRC open issues based on the report in [R2-2203154](file:///C:\Data\3GPP\Extracts\R2-2203154%20Report%20NTN%20open%20issues%20RRC_Rapp.docx)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203534): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203534 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

Status: To be started

* [AT117-e][102][NTN] Idle mode open issues (ZTE)

Initial scope: Discuss Idle mode open issues based on the report in [R2-2203386](file:///C:\Data\3GPP\Extracts\R2-2203386_%5bPre117-e%5d%5b102%5d%5bNTN%5d%20Idle%20mode%20open%20issues%20(ZTE)_v25_Rapporteur.docx)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203533): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203533 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

Status: To be started

* [AT117-e][103][NTN] MAC open issues (Interdigital)

Initial scope: Discuss MAC open issues based on the report in [R2-2203424](file:///C:\Data\3GPP\Extracts\R2-2203424%20Report%20of%20%5bPre117-e%5d%5b103%5d%5bNTN%5d%20MAC%20open%20issues.docx) and other company contributions in AI 8.10.2.1.1

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203532): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203532 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

Status: To be started

* [AT117-e][104][NTN] UE caps open issues (Intel)

Initial scope: Discuss UE caps open issues based on the report in [R2-2202454](file:///C:\Data\3GPP\Extracts\R2-2202454%20Report%20of%20email%20discussion%20%5bPre117-e%5d%5b104%5d%5bNTN%5d%20UE%20caps%20open%20issues%20(Intel).docx) and other company contributions in AI 8.10.4

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203535): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203535 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

Status: To be started

* [AT117-e][105][NTN] CP open issues (Ericsson)

Initial scope: Discuss CP open issues based on the report in [R2-2203502](file:///C:\Data\3GPP\RAN2\Docs\R2-2203502.zip)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Wednesday 2022-02-23 0600 UTC

Initial deadline (for rapporteur's summary in R2-2203538): Wednesday 2022-02-23 1000 UTC

Proposals marked "for agreement" in R2-2203538 not challenged until Wednesday 2022-02-23 1200 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Thursday).

Status: To be started

* [AT117-e][106][NTN] MAC open issues (vivo)

Initial scope: Discuss MAC open issues based on the report in [R2-2202317](file:///C:\Data\3GPP\RAN2\Docs\R2-2202317.zip)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Wednesday 2022-02-23 0600 UTC

Initial deadline (for rapporteur's summary in R2-2203539): Wednesday 2022-02-23 1000 UTC

Proposals marked "for agreement" in R2-2203539 not challenged until Wednesday 2022-02-23 1200 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Thursday).

Status: To be started

* [AT117-e][107][NTN] UE caps open issues (Intel)

Initial scope: Discuss UE caps open issues based on the report in [R2-2202497](file:///C:\Data\3GPP\Extracts\R2-2202497_Report%20of%20Pre117-107-P2-v11.docx)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Wednesday 2022-02-23 0600 UTC

Initial deadline (for rapporteur's summary in R2-2203540): Wednesday 2022-02-23 1000 UTC

Proposals marked "for agreement" in R2-2203540 not challenged until Wednesday 2022-02-23 1200 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Thursday).

Status: To be started

* [AT117-e][108][NTN] CHO open issues (Nokia)

Initial scope: Discuss open issues for CHO based on company contributions in AI 8.10.3.2.1

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Tuesday 2022-02-22 0800 UTC

Initial deadline (for rapporteur's summary in R2-2203536): Tuesday 2022-02-22 1000 UTC

Status: To be started

* [AT117-e][109][NTN] Stage 2 CR (Thales)

Scope: Update the Stage 2 CR

Intended outcome: Agreed Stage 2 CR

Initial deadline (for companies' feedback): Monday 2022-02-28 1800 UTC

Initial deadline (for Stage 2 CR in R2-2203537): Tuesday 2022-03-01 1000 UTC

Status: To be started

* [AT117-e][110][RedCap] Stage 2 CR (Nokia)

Scope: Update the Stage 2 CR

Intended outcome: Agreed Stage 2 CR

Initial deadline (for companies' feedback): Tuesday 2022-03-01 1800 UTC

Initial deadline (for Stage 2 CR in R2-2203541): Wednesday 2022-03-02 1000 UTC

Status: To be started

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-211557](file:///C:\Data\3GPP\archive\RAN\RAN%2392\Tdocs\RP-211557.zip))

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

### 8.10.1 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.

#### 8.10.1.1 LS in

For LSes that need action: one tdoc by contact company to address the LS and potential reply is considered.

Rapporteur input may be provided.

[R2-2202131](file:///C:\Data\3GPP\Extracts\R2-2202131_R3-221370.docx) Reply LS on LS on TAC reporting in ULI and support of SAs and FAs for NR Satellite Access (R3-220121/S2-2109337) (R3-221370; contact: Qualcomm) RAN3 LS in Rel-17 To:SA2 Cc:RAN2, CT1

* Noted

[R2-2202132](file:///C:\Data\3GPP\Extracts\R2-2202132_R3-221379.docx) LS on RAN Initiated Release due to out-of-PLMN area condition (R3-221379; contact: Qualcomm) RAN3 LS in Rel-17 To:SA2 Cc:CT1, RAN2

* Noted

#### 8.10.1.2 CRs

CR Rapporteurs to provide running CRs, potentially updated.

[R2-2202233](file:///C:\Data\3GPP\Extracts\R2-2202233_NR-NTN%20Stg2%20Running%20CR_with%20RAN3%20v12.docx) Stg2 running CR - NTN THALES draftCR Rel-17 38.300 16.8.0 NR\_NTN\_solutions

[R2-2202234](file:///C:\Data\3GPP\RAN2\Docs\R2-2202234.zip) NTN RAN3's stg2 BL CR THALES draftCR Rel-17 38.300 16.8.0 NR\_NTN\_solutions

* [AT117-e][109][NTN] Stage 2 CR (Thales)

Scope: Update the Stage 2 CR

Intended outcome: Agreed Stage 2 CR

Initial deadline (for companies' feedback): Monday 2022-02-28 1800 UTC

Initial deadline (for Stage 2 CR in R2-2203537): Tuesday 2022-03-01 1000 UTC

R2-2203537 Introduction of NTN Thales CR Rel-17 38.300 16.8.0 XXXX - B NR\_NTN\_solutions-Core

[R2-2202456](file:///C:\Data\3GPP\Extracts\R2-2202456%20Draft%20331%20CR%20for%20NR%20NTN%20UE%20capabilities.docx) Draft 331 CR for NR NTN UE capabilities Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_NTN\_solutions-Core

[R2-2202457](file:///C:\Data\3GPP\Extracts\R2-2202457%20Draft%20306%20CR%20for%20NR%20NTN%20UE%20capabilities.docx) Draft 306 CR for NR NTN UE capabilities Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_NTN\_solutions-Core

[R2-2203157](file:///C:\Data\3GPP\Extracts\R2-2203157%20Introduction%20of%20Release17%20NTN%2038331.docx) Introduction of Release-17 NTN Ericsson CR Rel-17 38.331 16.7.0 2930 - B NR\_NTN\_enh-Core

[R2-2203385](file:///C:\Data\3GPP\Extracts\R2-2203385_Introduction%20of%20NTN.docx) Introduction of NTN ZTE corporation,Sanechips CR Rel-17 38.304 16.7.0 0233 - B NR\_NTN\_solutions-Core

[R2-2203425](file:///C:\Data\3GPP\Extracts\R2-2203425%20MAC%20running%20CR_117e.docx) Stage 3 NTN running CR for 38.321 - RAN2#117 InterDigital CR Rel-17 38.321 16.7.0 1215 - B NR\_NTN\_solutions-Core

### 8.10.2 User Plane

#### 8.10.2.1 MAC aspects

##### 8.10.2.1.1 Open issues

Contributions on open issues listed in [R2-2201900](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201900.zip). For some aspects the discussion will happen in Pre117 email discussion [103]. For the others, company contributions can be submitted.

Including report of [Pre117-e][103][NTN] MAC open issues (Interdigital)

[R2-2203424](file:///C:\Data\3GPP\Extracts\R2-2203424%20Report%20of%20%5bPre117-e%5d%5b103%5d%5bNTN%5d%20MAC%20open%20issues.docx) Summary of [Pre117-e][NTN][103] MAC open issues InterDigital discussion Rel-17 NR\_NTN\_solutions-Core Late

* Discussed in offline 103
* [AT117-e][103][NTN] MAC open issues (Interdigital)

Initial scope: Discuss MAC open issues based on the report in [R2-2203424](file:///C:\Data\3GPP\Extracts\R2-2203424%20Report%20of%20%5bPre117-e%5d%5b103%5d%5bNTN%5d%20MAC%20open%20issues.docx) and other company contributions in AI 8.10.2.1.1

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203532): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203532 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

R2-2203532 [offline-103] MAC open issues Interdigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202302](file:///C:\Data\3GPP\Extracts\R2-2202302%20Discussion%20on%20MAC%20open%20issues.doc) Discussion on MAC open issues Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202420](file:///C:\Data\3GPP\Extracts\R2-2202420%20Remaining%20issues%20on%20HARQ%20process%20in%20NTN.doc) Remaining issues on HARQ process in NTN Spreadtrum Communications discussion Rel-17

[R2-2202546](file:///C:\Data\3GPP\Extracts\R2-2202546%20UL%20synchronization%20and%20validity%20timer%20expiry.docx) UL synchronization and validity timer expiry Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202547](file:///C:\Data\3GPP\Extracts\R2-2202547%20UE%20location%20and%20TA%20reporting.docx) UE location and TA reporting Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202563](file:///C:\Data\3GPP\Extracts\R2-2202563%20UL%20sync.doc) UL synchronization failure in RRC\_CONNECTED Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202613](file:///C:\Data\3GPP\Extracts\R2-2202613%20Considerations%20on%20MAC%20open%20issues.docx) Considerations on MAC open issues CMCC discussion Rel-17 NR\_NTN\_solutions-Core

moved from 8.10.2.1

[R2-2202773](file:///C:\Data\3GPP\Extracts\R2-2202773%20Remaining%20MAC%20Open%20Issues%20for%20NR%20NTN.docx) Remaining MAC Open Issues for NR NTN vivo discussion

[R2-2202972](file:///C:\Data\3GPP\Extracts\R2-2202972%20Consideration%20on%20MAC%20open%20issues.doc) Consideration on MAC open issues ZTE Corporation, Sanechips discussion Rel-17

[R2-2202999](file:///C:\Data\3GPP\Extracts\R2-2202999%20-%20Discussion%20on%20MAC%20open%20issues%20in%20NTN.doc) Discussion on MAC open issues in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

moved from 8.10.2.1

[R2-2203076](file:///C:\Data\3GPP\Extracts\R2-2203076%20Discussion%20on%20Left%20Open%20Issues%20of%20Other%20MAC%20Aspects.docx) Discussion on Left Open Issues of Other MAC Aspects CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203151](file:///C:\Data\3GPP\Extracts\R2-2203151.docx) Discussion on TA reporting ITL discussion Rel-17

[R2-2203165](file:///C:\Data\3GPP\Extracts\R2-2203165_Discussion%20on%20open%20issues%20for%20MAC%20aspects.docx) Discussion on open issues for MAC aspects LG Electronics Inc. discussion NR\_NTN\_solutions-Core

moved from 8.10.2.1

[R2-2203194](file:///C:\Data\3GPP\Extracts\R2-2203194%20Remaining%20MAC%20issues%20of%20NR%20NTN.doc) Remaining MAC issues of NR NTN Xiaomi discussion Rel-17

[R2-2203256](file:///C:\Data\3GPP\Extracts\R2-2203256%20On%20left%20open%20issues%20for%20MAC%20aspects.docx) On left open issues for MAC aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203257](file:///C:\Data\3GPP\Extracts\R2-2203257%20Discussion%20on%20Validity%20timer%20expiry%20and%20restart.docx) Discussion on Validity timer expiry and restart Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203298](file:///C:\Data\3GPP\Extracts\R2-2203298%208.10.2.1.1%20MAC%20aspects.docx) Open issues on MAC aspects Samsung Research America discussion NR\_NTN\_solutions-Core

[R2-2203423](file:///C:\Data\3GPP\Extracts\R2-2203423%20(R17%20NTN%20WI%20AI%208.10.2.1.1)%20MAC%20Open%20issues.docx) Remaining MAC open issues in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

moved from 8.10.2.1

[R2-2203482](file:///C:\Data\3GPP\Extracts\R2-2203482%20-%20Remaining%20MAC%20issues%20in%20NTNs.docx) Remaining MAC issues in NTNs Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

##### 8.10.2.1.2 Other RACH aspects

Contributions on other RACH issues.

[R2-2202303](file:///C:\Data\3GPP\Extracts\R2-2202303%20Discussion%20on%20remaining%20MAC%20issues.DOC) Discussion on remaining MAC issues Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

##### 8.10.2.1.3 Other MAC aspects

Contributions on other (non RACH) MAC issues.

[R2-2202421](file:///C:\Data\3GPP\Extracts\R2-2202421%20MAC%20operations%20about%20the%20validity%20timer%20expiry.doc) MAC operation about the validity timer expiry Spreadtrum Communications discussion Rel-17

[R2-2203203](file:///C:\Data\3GPP\Extracts\R2-2203203.doc) CG enhancements in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core [R2-2200911](file:///C:\Data\3GPP\Extracts\R2-2200911.doc)

#### 8.10.2.2 RLC and PDCP aspects

[R2-2203481](file:///C:\Data\3GPP\Extracts\R2-2203481%20-%20Remaining%20issues%20for%20RLC%20and%20PDCP%20in%20NTNs.docx) Remaining issues for RLC and PDCP in NTNs Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.3 Control Plane

#### 8.10.3.1 Idle/inactive mode aspects

##### 8.10.3.1.1 Open issues

Contributions on open issues listed in [R2-2201898](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201898.zip). For some aspects the discussion will happen in Pre117 email discussion [102]. For the others, company contributions can be submitted.

Including report of [Pre117-e][102][NTN] Idle mode open issues (ZTE)

[R2-2203386](file:///C:\Data\3GPP\Extracts\R2-2203386_%5bPre117-e%5d%5b102%5d%5bNTN%5d%20Idle%20mode%20open%20issues%20(ZTE)_v25_Rapporteur.docx) Report of [Pre117-e][102][NTN] Idle mode open issues (ZTE) ZTE corporation,Sanechips discussion Rel-17 NR\_NTN\_solutions-Core Late

* Discussed in offline 102
* [AT117-e][102][NTN] Idle mode open issues (ZTE)

Initial scope: Discuss Idle open issues based on the report in [R2-2203386](file:///C:\Data\3GPP\Extracts\R2-2203386_%5bPre117-e%5d%5b102%5d%5bNTN%5d%20Idle%20mode%20open%20issues%20(ZTE)_v25_Rapporteur.docx)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203533): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203533 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

R2-2203533 [offline-102] Idle mode open issues ZTE corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202235](file:///C:\Data\3GPP\Extracts\R2-2202235_UE%20location%20during%20initial%20access_v04.doc) WF for UE location during initial access in NTN THALES, Leonardo, Avanti, ESA, Sateliot, Omnispace, Novamint, Hispasat, Gatehouse, Hughes network systems, Inmarsat, Viasat, CTTC, Intelsat, Kepler, Ligado, Magister solutions, SES, Airbus discussion Rel-17 NR\_NTN\_solutions

[R2-2202422](file:///C:\Data\3GPP\Extracts\R2-2202422%20Discussion%20on%20SIB%20X%20acquiring%20procedure.doc) Discussion on the SIBX acquiring procedure Spreadtrum Communications discussion Rel-17

[R2-2202423](file:///C:\Data\3GPP\Extracts\R2-2202423%20Acquiring%20the%20ephemeris%20of%20neighbour%20cell.doc) Acquiring the ephemeris of neighbour cell Spreadtrum Communications discussion Rel-17

[R2-2202466](file:///C:\Data\3GPP\Extracts\R2-2202466%20Remaining%20Rel-17%20NTN%20open%20issues%20for%20IDLE%20mode.docx) Remaining Rel-17 NTN open issues for IDLE mode Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202548](file:///C:\Data\3GPP\Extracts\R2-2202548%20NTN-TN%20idle%20mode%20mobility.docx) NTN-TN idle mode mobility Apple discussion Rel-17 NR\_NTN\_solutions-Core [R2-2201179](file:///C:\Data\3GPP\Extracts\R2-2201179%20NTN-TN%20idle%20mode%20mobility.docx)

[R2-2203049](file:///C:\Data\3GPP\Extracts\R2-2203049.docx) Measurements and cell reselection Samsung Research America discussion

Withdrawn

R2-2202394 On reporting of UE location information ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core Withdrawn

##### 8.10.3.1.2 Other

Contributions on any other issues.

[R2-2202566](file:///C:\Data\3GPP\Extracts\R2-2202566%20Idle%20mode.docx) Assistance information for IDLE mode measurements Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202586](file:///C:\Data\3GPP\Extracts\R2-2202586%20Epoch%20time%20and%20validity%20time%20for%20neighbour%20satellite%20ephemeris.docx) Epoch time and validity time for neighbour satellite ephemeris Lenovo, Motorola Mobility discussion Rel-17

[R2-2202774](file:///C:\Data\3GPP\Extracts\R2-2202774%20Remaining%20issues%20on%20location-based%20cell%20reselection.docx) Remaining issues on location-based cell reselection vivo discussion

[R2-2203004](file:///C:\Data\3GPP\Extracts\R2-2203004%20-%20Discussion%20on%20measurement%20rules%20for%20cell%20re-selection%20in%20NTN.doc) Discussion on measurement rules for cell re-selection in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.3.2 RRC aspects

##### 8.10.3.2.1 Open issues

Contributions on open issues listed in [R2-2201896](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201896.zip). For some aspects the discussion will happen in Pre117 email discussion [101]. For the others, company contributions can be submitted.

Including report of [Pre117-e][101][NTN] RRC open issues (Ericsson))

[R2-2203154](file:///C:\Data\3GPP\Extracts\R2-2203154%20Report%20NTN%20open%20issues%20RRC_Rapp.docx) [Pre117-e][NTN][101] RRC open issues Ericsson report NR\_NTN\_enh-Core Late

* Discussed in offline 101
* [AT117-e][101][NTN] RRC open issues (Ericsson)

Initial scope: Discuss RRC open issues based on the report in [R2-2203154](file:///C:\Data\3GPP\Extracts\R2-2203154%20Report%20NTN%20open%20issues%20RRC_Rapp.docx)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203534): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203534 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

R2-2203534 [offline-101] RRC open issues Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202467](file:///C:\Data\3GPP\Extracts\R2-2202467%20Remaining%20Rel-17%20NTN%20open%20issues%20for%20CONNECTED%20mode.docx) Remaining Rel-17 NTN open issues for CONNECTED mode Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

* [AT117-e][108][NTN] CHO open issues (Nokia)

Initial scope: Discuss open issues for CHO based on company contributions in AI 8.10.3.2.1

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Tuesday 2022-02-22 0800 UTC

Initial deadline (for rapporteur's summary in R2-2203536): Tuesday 2022-02-22 1000 UTC

R2-2203536 [offline-108] CHO open issues Nokia discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202424](file:///C:\Data\3GPP\Extracts\R2-2202424%20Discussion%20on%20SIB%20X.doc) Discussion on SIB X Spreadtrum Communications discussion Rel-17

[R2-2202565](file:///C:\Data\3GPP\Extracts\R2-2202565%20CHO%20open%20issues.doc) Open issues in CHO Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202587](file:///C:\Data\3GPP\Extracts\R2-2202587%20Consideration%20on%20open%20issues%20for%20CHO%20v1.0.doc) Consideration on open issues for CHO Lenovo, Motorola Mobility discussion Rel-17

[R2-2202775](file:///C:\Data\3GPP\Extracts\R2-2202775%20Open%20issues%20on%20CHO%20for%20R17%20NR%20NTN.docx) Open issues on CHO for R17 NR NTN vivo discussion

[R2-2202886](file:///C:\Data\3GPP\Extracts\R2-2202886%20Remaining%20issues%20on%20CHO.doc) Remaining issues on CHO Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203005](file:///C:\Data\3GPP\Extracts\R2-2203005%20-%20%20Discussion%20on%20the%20RRC%20open%20issues%20in%20NTN.doc) Discussion on the RRC open issues in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203051](file:///C:\Data\3GPP\Extracts\R2-2203051%20Remaining%20NTN%20CHO%20issues.DOC) Remaining NTN CHO issues LG Electronics France discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203067](file:///C:\Data\3GPP\Extracts\R2-2203067%20Discussion%20on%20RRC%20open%20issues%20for%20NTN.docx) Discussion on RRC open issues for NTN Xiaomi Communications discussion

[R2-2203077](file:///C:\Data\3GPP\Extracts\R2-2203077%20Further%20Discussion%20on%20the%20Open%20Issues%20of%20CHO.docx) Further Discussion on the Open Issues of CHO CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203153](file:///C:\Data\3GPP\Extracts\R2-2203153%20Connected%20mode%20aspects%20for%20NTN.docx) Remaining connected mode aspects for NTN Ericsson discussion

[R2-2203236](file:///C:\Data\3GPP\Extracts\R2-2203236_%20%20Remaining%20open%20issues%20of%20CHO.docx) Remaining open issues of CHO NEC Telecom MODUS Ltd. discussion

[R2-2203301](file:///C:\Data\3GPP\Extracts\R2-2203301%208.10.3.2.1%20RRC%20aspects.docx) Open issues on RRC aspects Samsung Research America discussion NR\_NTN\_solutions-Core

[R2-2203422](file:///C:\Data\3GPP\Extracts\R2-2203422%20(R17%20NTN%20WI%20AI%208.10.3.2.1)%20RRC%20Open%20issues.docx) Remaining RRC open issues in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

##### 8.10.3.2.2 Other

Contributions on any other issues.

[R2-2202455](file:///C:\Data\3GPP\Extracts\R2-2202455%20Discussion%20on%20NR%20NTN%20measurement%20gaps.docx) Discussion on NR NTN measurement gaps Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202564](file:///C:\Data\3GPP\Extracts\R2-2202564%20SMTC%20and%20MG.doc) SMTC and MG configuration Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202588](file:///C:\Data\3GPP\Extracts\R2-2202588%20Contents%20of%20UE%20assistance%20for%20measurement%20window%20and%20gap%20configuration%20in%20NTN.docx) Contents of UE assistance for measurement window and gap configuration in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2202614](file:///C:\Data\3GPP\Extracts\R2-2202614%20Further%20discussion%20on%20intra-NTN%20mobility.docx) Further discussion on intra-NTN mobility CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202776](file:///C:\Data\3GPP\Extracts\R2-2202776%20Discussion%20on%20the%20signaling%20design%20for%20NTN%20specific%20information.docx) Discussion on the signaling design for NTN specific information vivo discussion

[R2-2202840](file:///C:\Data\3GPP\Extracts\R2-2202840%20Network-Based%20SMTC%20Configuration%20in%20NTN.docx) Network-Based SMTC Configuration in NTN Google Inc. discussion

[R2-2202850](file:///C:\Data\3GPP\Extracts\R2-2202850%20Discussion%20on%20assistance%20information%20for%20SMTC.docx) Discussion on assistance information for SMTC ASUSTeK discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202853](file:///C:\Data\3GPP\Extracts\R2-2202853%20Measurement%20Gap%20Issues%20in%20NTN.docx) Measurement Gap Issues in NTN Google Inc. discussion

[R2-2203006](file:///C:\Data\3GPP\Extracts\R2-2203006%20NTN%20CP%20open%20issues.doc) Discussion on remaining open issues in connected mode OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2203066](file:///C:\Data\3GPP\Extracts\R2-2203066.docx) Further consideration of initial access Samsung Research America discussion

[R2-2203190](file:///C:\Data\3GPP\Extracts\R2-2203190%20%20Location%20report%20for%20TA%20and%20LCS.doc) Location report for TA report and LCS support in connected mode Xiaomi discussion Rel-17

[R2-2203191](file:///C:\Data\3GPP\Extracts\R2-2203191%20Remaining%20issues%20relating%20to%20SIBxx%20and%20the%20RRC%20delay%20for%20RRC%20Release.doc) Remaining issues relating to SIBxx and the RRC delay for RRC Release Xiaomi discussion Rel-17

### 8.10.4 UE capabilities

[R2-2203485](file:///C:\Data\3GPP\Extracts\R2-2203485%20-%20NR%20NTN%20UE%20capabilities.docx) NR NTN UE capabilities Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.4.1 Open issues

Contributions on open issues listed in [R2-2201962](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201962.zip). For some aspects the discussion will happen in Pre117 email discussion [104]. For the others, company contributions can be submitted.

Including report of [Pre117-e][104][NTN] UE caps open issues (Intel)

[R2-2202454](file:///C:\Data\3GPP\Extracts\R2-2202454%20Report%20of%20email%20discussion%20%5bPre117-e%5d%5b104%5d%5bNTN%5d%20UE%20caps%20open%20issues%20(Intel).docx) Report of email discussion [Pre117-e][104][NTN] UE caps open issues (Intel) Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core Late

* Discussed in offline 104
* [AT117-e][104][NTN] UE caps open issues (Intel)

Initial scope: Discuss UE caps open issues based on the report in [R2-2202454](file:///C:\Data\3GPP\Extracts\R2-2202454%20Report%20of%20email%20discussion%20%5bPre117-e%5d%5b104%5d%5bNTN%5d%20UE%20caps%20open%20issues%20(Intel).docx) and other company contributions in AI 8.10.4

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Monday 2022-02-21 1700 UTC

Initial deadline (for rapporteur's summary in R2-2203535): Monday 2022-02-21 2000 UTC

Proposals marked "for agreement" in R2-2203535 not challenged until Tuesday 2022-02-22 1000 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Tuesday).

R2-2203535 [offline-104] UE caps open issues Intel discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202725](file:///C:\Data\3GPP\Extracts\R2-2202725%20Remaining%20Issues%20of%20Set2%20on%20NR%20NTN%20UE%20Capabilities.docx) Remaining Issues of Set2 on NR NTN UE Capabilities CMCC discussion Rel-17 NR\_NTN\_solutions-Core

#### 8.10.4.2 Other

Contributions on any other issues.

[R2-2202459](file:///C:\Data\3GPP\Extracts\R2-2202459%20Discussion%20on%20the%20difference%20between%20GSO%20and%20GEO.docx) Discussion on the difference between GSO and GEO Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2202887](file:///C:\Data\3GPP\Extracts\R2-2202887%20Discussion%20on%20capabilities%20for%20gaps%20and%20HARQ.doc) Discussion on capabilities for gaps and HARQ Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

## 8.12 Reduced Capability

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: [RP-211574](file:///C:\Data\3GPP\archive\RAN\RAN%2392\Tdocs\RP-211574.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.12.1 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.

#### 8.12.1.1 LS in

For LSes that need action: one tdoc by contact company to address the LS and potential reply is considered.

Rapporteur input may be provided.

[R2-2202134](file:///C:\Data\3GPP\Extracts\R2-2202134_R3-221396.docx) LS reply on the coordination between gNBs supporting RedCap UEs (R3-221396; contact: Ericsson) RAN3 LS in Rel-17 To:RAN2

* Noted

[R2-2202162](file:///C:\Data\3GPP\Extracts\R2-2202162_R4-2202674.docx) Reply LS on use of NCD-SSB for RedCap UE (R4-2202674; contact: ZTE) RAN4 LS in Rel-17 To:RAN1 Cc:RAN2

* Noted

[R2-2202163](file:///C:\Data\3GPP\Extracts\R2-2202163_R4-2202675.docx) LS on RRM relaxation for Redcap (R4-2202675; contact: vivo) RAN4 LS in Rel-17 To:RAN2

[R2-2202313](file:///C:\Data\3GPP\Extracts\R2-2202313_%5bDraft%5d%20Reply%20LS%20to%20RAN4%20on%20RRM%20relaxation.doc) [Draft] Reply LS to RAN4 on RRM relaxation vivo LS out Rel-17 NR\_redcap-Core To:RAN4

#### 8.12.1.2 CRs

CR Rapporteurs to provide running CRs, potentially updated.

[R2-2203421](file:///C:\Data\3GPP\Extracts\R2-2203421%20-%20Introduction%20of%20RedCap%20in%20TS%2038300.docx) Introduction of RedCap in TS 38.300 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 16.8.0 0421 - B NR\_redcap-Core

[R2-2203473](file:///C:\Data\3GPP\Extracts\R2-2203473%20Stage%202%20Corrections%20for%20RedCap.docx) Stage 2 Corrections for RedCap Futurewei Technologies draftCR Rel-17 38.300 16.8.0 NR\_redcap-Core

* [AT117-e][110][RedCap] Stage 2 CR (Nokia)

Scope: Update the Stage 2 CR

Intended outcome: Agreed Stage 2 CR

Initial deadline (for companies' feedback): Tuesday 2022-03-01 1800 UTC

Initial deadline (for Stage 2 CR in R2-2203541): Wednesday 2022-03-02 1000 UTC

R2-2203541 Introduction of RedCap in TS 38.300 Nokia, Nokia Shanghai Bell CR Rel-17 38.300 16.8.0 0421 1 B NR\_redcap-Core

[R2-2202314](file:///C:\Data\3GPP\Extracts\38.321_CR1186_(Rel-17)_R2-2202314_Introduction%20of%20RedCap%20in%20TS%2038.321.docx) Introduction of RedCap in TS 38.321 vivo (Rapporteur) CR Rel-17 38.321 16.7.0 1186 - B NR\_redcap-Core

[R2-2203497](file:///C:\Data\3GPP\RAN2\Docs\R2-2203497.zip) Introduction of RedCap UEs Ericsson CR Rel-17 38.304 16.7.0 0234 - B NR\_redcap-Core Late

moved from 8.12.1

[R2-2202500](file:///C:\Data\3GPP\Extracts\R2-2202500%20-%20Running%2038.306%20CR%20on%20Capbilities-v03.docx) Running 38.306 CR for the RedCap capablities Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_redcap

[R2-2202501](file:///C:\Data\3GPP\Extracts\R2-2202501%20-%20Running%2038.331%20CR%20on%20Capbilities-v01.docx) Running 38.331 CR for the RedCap capablities Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_redcap

[R2-2203354](file:///C:\Data\3GPP\RAN2\Docs\R2-2203354.zip) Introduction of RedCap Ericsson CR Rel-17 38.331 16.7.0 2950 - B NR\_redcap-Core Late

moved from 8.12.5.1

[R2-2202498](file:///C:\Data\3GPP\Extracts\R2-2202498%20-%20Running%2038.306%20CR%20on%20Capbilities-v03-107.docx) Updated Running 38.306 CR for the RedCap capablities Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_redcap Late

[R2-2202499](file:///C:\Data\3GPP\Extracts\R2-2202499%20-%20Running%2038.331%20CR%20on%20Capbilities-v01-107.docx) Updated Running 38.331 CR for the RedCap capablities Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_redcap Late

### 8.12.2 Control Plane

#### 8.12.2.1 Idle/inactive mode aspects

##### 8.12.2.1.1 Open issues

Contributions on open issues listed in [R2-2201889](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201889.zip). For some aspects the discussion will happen in Pre117 email discussion [105]. For the others, company contributions can be submitted.

[R2-2202266](file:///C:\Data\3GPP\Extracts\R2-2202266%20-%20Details%20on%20RRM%20relaxation.docx) Details on RRM relaxation Ericsson discussion Rel-17 NR\_redcap-Core

[R2-2202315](file:///C:\Data\3GPP\Extracts\R2-2202315_Discussion%20on%20RAN4%20LS%20and%20remaining%20issues%20on%20RRM%20relaxation.docx) Discussion on RAN4 LS and remaining issues on RRM relaxation vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

[R2-2202996](file:///C:\Data\3GPP\Extracts\R2-2202996%20-%20Left%20open%20issue%20on%20SI%20change%20mechanism%20for%20eDRX.doc) Left open issue on SI change mechanism for eDRX OPPO discussion Rel-17 NR\_redcap-Core

Moved from 8.12.2.1.2

[R2-2202989](file:///C:\Data\3GPP\Extracts\R2-2202989.doc) UE behavior on combineRelaxedMeasCondition2 Samsung discussion Rel-17

[R2-2203350](file:///C:\Data\3GPP\Extracts\R2-2203350%20On%20RRM%20relaxation%20for%20REDCAP%20UE.docx) On RedCap RRM relaxations in IDLE/INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

##### 8.12.2.1.2 Other

Contributions on any other issues.

[R2-2202347](file:///C:\Data\3GPP\Extracts\R2-2202347%20Cell%20(re)selection%20parameters%20of%20RedCap%20UE.doc) Cell (re)selection parameters of RedCap UE Fujitsu discussion Rel-17 NR\_redcap-Core

[R2-2202937](file:///C:\Data\3GPP\Extracts\R2-2202937.docx) Cell selection criterion for a RedCap UE with 1 Rx branch Samsung discussion Rel-17 NR\_redcap-Core

[R2-2203352](file:///C:\Data\3GPP\Extracts\R2-2203352%20eDRX%20and%20system%20information.docx) eDRX and system information Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

#### 8.12.2.2 RRC aspects

##### 8.12.2.2.1 Open issues

Contributions on open issues listed in [R2-2201887](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201887.zip). For some aspects the discussion will happen in Pre117 email discussion [105]. For the others, company contributions can be submitted.

Including report of [Pre117-e][105][RedCap] CP open issues (Ericsson)

[R2-2203502](file:///C:\Data\3GPP\Extracts\R2-2203502%20-%20Report%20for%20%5bPre117-e%5d%5b105%5d%5bRedCap%5d%20CP%20open%20issues.docx) Report for [Pre117-e][105][RedCap] CP open issues Ericsson discussion NR\_redcap-Core Late

* [AT117-e][105][NTN] CP open issues (Ericsson)

Initial scope: Discuss CP open issues based on the report in [R2-2203502](file:///C:\Data\3GPP\RAN2\Docs\R2-2203502.zip)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Wednesday 2022-02-23 0600 UTC

Initial deadline (for rapporteur's summary in R2-2203538): Wednesday 2022-02-23 1000 UTC

Proposals marked "for agreement" in R2-2203538 not challenged until Wednesday 2022-02-23 1200 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Thursday).

R2-2203538 [offline-105] CP open issues Ericsson discussion Rel-17 NR\_redcap-Core

[R2-2202316](file:///C:\Data\3GPP\Extracts\R2-2202316_Discussion%20on%20remaining%20issues%20on%20RRC%20aspects%20for%20RedCap.doc) Discussion on remaining issues on RRC aspects for RedCap vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

[R2-2202529](file:///C:\Data\3GPP\Extracts\R2-2202529_ncd-ssb_handover.docx) NCD-SSB and handover related aspects Apple discussion Rel-17 NR\_redcap-Core

[R2-2202530](file:///C:\Data\3GPP\Extracts\R2-2202530_lte-handover-redcap.docx) On the EUTRA handover to NR for RedCap UEs Apple discussion Rel-17 NR\_redcap-Core

[R2-2202654](file:///C:\Data\3GPP\Extracts\R2-2202654%20On%20inter-RAT%20handover%20for%20RedCap%20UEs.docx) On inter-RAT handover for RedCap UEs ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

[R2-2202677](file:///C:\Data\3GPP\Extracts\R2-2202677_RRC%20open%20issues%20on%20Rel17%20RedCap%20WI.docx) RRC open issues on Rel17 RedCap WI Intel Corporation discussion Rel-17 NR\_redcap

[R2-2202997](file:///C:\Data\3GPP\Extracts\R2-2202997%20RedCap%20HO.doc) Discussion on remaining RRC open issues OPPO discussion Rel-17 NR\_redcap-Core

[R2-2203055](file:///C:\Data\3GPP\Extracts\R2-2203055%20Inter-RAT%20mobility%20from%20LTE%20to%20NR_v1.doc) Inter-RAT mobility from LTE to NR Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

* Revised in [R2-2203712](file:///C:\Data\3GPP\Extracts\R2-2203712%20Inter-RAT%20mobility%20from%20LTE%20to%20NR_v1.doc)

[R2-2203712](file:///C:\Data\3GPP\Extracts\R2-2203712%20Inter-RAT%20mobility%20from%20LTE%20to%20NR_v1.doc) Inter-RAT mobility from LTE to NR Huawei, HiSilicon, BT Plc, CATT, Sequans discussion Rel-17 NR\_redcap-Core

[R2-2203056](file:///C:\Data\3GPP\Extracts\R2-2203056%20Access%20restriction%20of%20RedCap%20UE.docx) Access restriction of RedCap UE Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

[R2-2203140](file:///C:\Data\3GPP\Extracts\R2-2203140%20Further%20discussion%20on%20CD-SSB%20for%20RedCap%20UE.docx) Further discussion on NCD-SSB for RedCap UE China Telecommunications discussion Rel-17

[R2-2203355](file:///C:\Data\3GPP\Extracts\R2-2203355%20-%20RedCap%20eNB%20to%20gNB%20handover.docx) Handover from E-UTRA from legacy eNB to legacy gNB Ericsson discussion NR\_redcap-Core

##### 8.12.2.2.2 Other

Contributions on any other issues.

[R2-2202289](file:///C:\Data\3GPP\Extracts\R2-2202289_SI%20Request%20and%20RRM%20relaxation%20for%20Redcap%20UEs.doc) SI Request for Redcap UEs Samsung Electronics Co., Ltd discussion Rel-17 NR\_redcap-Core

[R2-2202734](file:///C:\Data\3GPP\Extracts\R2-2202734%20Discussions%20on%20Redcap-specific%20initial%20BWPs.doc) Discussions on Redcap-specific initial BWPs Xiaomi Communications discussion

[R2-2203030](file:///C:\Data\3GPP\Extracts\R2-2203030%20System%20information%20acquisition%20by%20RedCap%20UEs%20during%20handover.docx) System information acquisition by RedCap UEs during handover Qualcomm Incorporated discussion Rel-17 NR\_redcap-Core Late

[R2-2203351](file:///C:\Data\3GPP\Extracts\R2-2203351%20On%20RRM%20relaxation%20in%20CONNECTED.docx) On RRM relaxations in CONNECTED Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

### 8.12.3 User Plane

#### 8.12.3.1 MAC aspects

##### 8.12.3.1.1 Open issues

Contributions on open issues listed in [R2-2201891](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201891.zip). For some aspects the discussion will happen in Pre117 email discussion [106]. For the others, company contributions can be submitted.

Including report of [Pre117-e][106][RedCap] MAC open issues (vivo)

[R2-2202317](file:///C:\Data\3GPP\RAN2\Docs\R2-2202317.zip) Summary of [Pre117-e][106][RedCap] MAC open issues (vivo) vivo discussion Rel-17 NR\_redcap-Core Late

* [AT117-e][106][NTN] MAC open issues (vivo)

Initial scope: Discuss MAC open issues based on the report in [R2-2202317](file:///C:\Data\3GPP\RAN2\Docs\R2-2202317.zip)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Wednesday 2022-02-23 0600 UTC

Initial deadline (for rapporteur's summary in R2-2203539): Wednesday 2022-02-23 1000 UTC

Proposals marked "for agreement" in R2-2203539 not challenged until Wednesday 2022-02-23 1200 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Thursday).

R2-2203539 [offline-106] MAC open issues vivo discussion Rel-17 NR\_redcap-Core

[R2-2203281](file:///C:\Data\3GPP\Extracts\R2-2203281%20Early%20identification%20capability.docx) Early identification capability Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

##### 8.12.3.1.2 Other

Contributions on any other issues.

### 8.12.4 NCD-SSB aspects

Contributions on NCD-SSB aspects that might affect multiple specs

[R2-2202318](file:///C:\Data\3GPP\Extracts\R2-2202318_Discussion%20on%20RAN2%20impacts%20on%20NCD-SSB%20and%20separate%20initial%20BWP.DOCX) Discussion on RAN2 impacts on NCD-SSB and separate initial BWP vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

[R2-2202653](file:///C:\Data\3GPP\Extracts\R2-2202653%20Remaining%20issues%20on%20separate%20initial%20BWP%20and%20NCD-SSB%20for%20RedCap%20UEs.docx) Remaining issues on separate initial BWP and NCD-SSB for RedCap UEs ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

[R2-2202998](file:///C:\Data\3GPP\Extracts\R2-2202998%20-%20Left%20open%20issues%20on%20NCD-SSB.doc) Left open issues on NCD-SSB OPPO discussion Rel-17 NR\_redcap-Core

[R2-2203057](file:///C:\Data\3GPP\Extracts\R2-2203057%20Discussion%20on%20NCD-SSB%20aspects%20for%20RedCap%20UE.doc) Discussion on NCD-SSB aspects for RedCap UE Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

[R2-2203078](file:///C:\Data\3GPP\Extracts\R2-2203078-%20Discussion%20on%20the%20open%20issues%20of%20NCD-SSB.docx) Discussion on the open issues of NCD-SSB CATT discussion Rel-17 NR\_redcap-Core

[R2-2203505](file:///C:\Data\3GPP\Extracts\R2-2203505%20-%20Monitoring%20POs%20in%20connected%20mode%20when%20using%20NCD-SSB%20for%20RedCap%20UEs.docx) Monitoring POs in connected mode when using NCD-SSB Ericsson discussion Rel-17 NR\_redcap-Core Late

[R2-2203508](file:///C:\Data\3GPP\Extracts\R2-2203508.docx) C-plane related open issues on NCD-SSB DENSO CORPORATION discussion Rel-17 NR\_redcap-Core

### 8.12.5 UE capabilities

#### 8.12.5.1 Open issues

Contributions on open issues listed in [R2-2201893](file:///C:\Data\3GPP\archive\RAN2\RAN2%23116bis\Tdocs\R2-2201893.zip). For some aspects the discussion will happen in Pre117 email discussion [107]. For the others, company contributions can be submitted.

Including report of [Pre117-e][107][RedCap] UE caps open issues (Intel)

[R2-2202497](file:///C:\Data\3GPP\Extracts\R2-2202497_Report%20of%20Pre117-107-P2-v11.docx) Report of [Pre117-e][107][RedCap] UE caps open issues (Intel) Intel Corporation discussion Rel-17 NR\_redcap Late

* [AT117-e][107][NTN] UE caps open issues (Intel)

Initial scope: Discuss UE caps open issues based on the report in [R2-2202497](file:///C:\Data\3GPP\Extracts\R2-2202497_Report%20of%20Pre117-107-P2-v11.docx)

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
    - List of proposals that should not be pursued (if any)

Initial deadline (for companies' feedback): Wednesday 2022-02-23 0600 UTC

Initial deadline (for rapporteur's summary in R2-2203540): Wednesday 2022-02-23 1000 UTC

Proposals marked "for agreement" in R2-2203540 not challenged until Wednesday 2022-02-23 1200 UTC will be declared as agreed via email by the session chair (for the rest the discussion will continue during the GTW session on Thursday).

R2-2203540 [offline-107] UE caps open issues Intel discussion Rel-17 NR\_redcap-Core

[R2-2203143](file:///C:\Data\3GPP\Extracts\R2-2203143%20Further%20discussion%20on%20RRM%20relaxation%20for%20RedCap%20UE.docx) Further discussion on RRM relaxation for RedCap UE China Telecommunications discussion Rel-17

Withdrawn

R2-2203141 Further discussion on RRM relaxation for RedCap UE China Telecommunications discussion Rel-17 Late

R2-2203142 Further discussion on RRM relaxation for RedCap UE China Telecommunications discussion Rel-17 Late

#### 8.12.5.2 Other

Contributions on any other issues.

## 8.19 Coverage Enhancements

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-211566](file:///C:\Data\3GPP\archive\RAN\RAN%2392\Tdocs\RP-211566.zip))

Time budget: 0.5

Tdoc Limitation: 1 tdoc

Common aspects related to RACH indication (in MSG1) / RACH partitioning shall be submitted to 8.18

### 8.19.1 Organizational

Rapporteur input, incoming LS etc.

#### 8.19.1.1 LS in

For LSes that need action: one tdoc by contact company to address the LS and potential reply is considered.

Rapporteur input may be provided.

[R2-2202153](file:///C:\Data\3GPP\Extracts\R2-2202153_R4-2202368.docx) Reply LS on Maximum duration for DMRS bundling (R4-2202368; contact: Qualcomm) RAN4 LS in Rel-17 To:RAN1, RAN2

#### 8.19.1.2 CRs

CR Rapporteurs to provide running CRs, potentially updated.

[R2-2202652](file:///C:\Data\3GPP\Extracts\R2-2202652%20TS%2038.321%20CR%20for%20NR%20coverage%20enhancements.docx) TS 38.321 CR for Rel-17 Coverage enhancement ZTE Corporation, Sanechips CR Rel-17 38.321 16.7.0 1199 - B NR\_cov\_enh-Core

[R2-2202831](file:///C:\Data\3GPP\Extracts\R2-2202831.docx) TS 38.300 CR for Rel-17 NR coverage enhancements China Telecom CR Rel-17 38.300 16.8.0 0412 - B NR\_cov\_enh-Core

[R2-2203127](file:///C:\Data\3GPP\Extracts\R2-2203127%20Introduction%20of%20NR%20coverage%20enhancements%20in%20RRC.docx) Introduction of NR coverage enhancements in RRC Huawei, HiSilicon CR Rel-17 38.331 16.7.0 2928 - B NR\_cov\_enh-Core

### 8.19.2 General

All aspects, including possible corrections/TPs for the running CRs.

[R2-2203284](file:///C:\Data\3GPP\Extracts\R2-2203284%20BWP%20with%20only%20CE-RACH%20resources.docx) BWP with only CR-RACH resources Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_cov\_enh-Core

[R2-2203128](file:///C:\Data\3GPP\Extracts\R2-2203128%20On%20measurement%20gap%20handling%20for%20Msg3%20repetitions.docx) On measurement gap handling for Msg3 repetitions Huawei, HiSilicon discussion Rel-17 NR\_cov\_enh-Core

[R2-2203007](file:///C:\Data\3GPP\Extracts\R2-2203007%20stage-2%20correction.doc) Minor connection to the stage-2 running CR OPPO discussion Rel-17 NR\_cov\_enh-Core

[R2-2202695](file:///C:\Data\3GPP\Extracts\R2-2202695%20Remaining%20issues%20for%20Msg3%20repetition.docx) Remaining issues for Msg3 repetition CATT discussion Rel-17 NR\_cov\_enh-Core

[R2-2202981](file:///C:\Data\3GPP\Extracts\R2-2202981%20Discussion%20on%20CFRA%20PUSCH%20with%20Repetition.docx) Discussion on CFRA PUSCH with Repetition vivo discussion Rel-17 NR\_cov\_enh

[R2-2203031](file:///C:\Data\3GPP\Extracts\R2-2203031%20Discussion%20on%20Msg3%20repetition%20for%20CFRA.docx) Discussion on Msg3 repetition for CFRA Qualcomm Incorporated discussion Rel-17 NR\_cov\_enh-Core Late

[R2-2203168](file:///C:\Data\3GPP\Extracts\R2-2203168%20Further%20issues%20on%20msg3%20repetitions.docx) Further issues on msg3 repetitions Ericsson discussion Rel-17 NR\_cov\_enh

## Summary

Agreed CRs

TBD

Approved LSs out

TBD

[POST117-e] Email discussions

TBD