3GPP TSG-RAN WG2 Meeting #110 electronic R2-2005732

Online, June 1st - June 12th 2020

**Agenda item: 8.2**

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

**Title: Report from Break-out session on SRVCC, CLI, PRN, eMIMO, RACS**

**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 [AT110e][000]

Organizational

1. With a few exceptions, only email discussions reports and summary discussion papers will be treated during the e-meeting (indicated clearly in the meeting notes)
2. All organization emails and notes will be shared over the following email discussion throughout the two meeting weeks:

* [AT110e][100] Organizational Sergio's session (SRVCC, CLI, PRN, eMIMO, RACS)

Scope:

* + - Share plans for the meeting and list of ongoing email discussions for the sessions related to SRVCC, CLI, PRN, eMIMO, RACS
    - Share meetings notes and agreements for review and endorsement

Schedule/Plan

RACS:

The 36.331 and 38.331 CRs will be discussed and possibly agreed during the web conference call on Thursday June 4th, 12:00 - 13:30 UTC (i.e no preliminary offline email discussion)

SRVCC:

The 38.331 CR will be discussed and possibly agreed during the web conference call on Thursday June 4th, 12:00 - 13:30 UTC (i.e no preliminary offline email discussion)

CLI:

The discussion will initially happen in an offline email discussion (101) kicked off at the e-meeting start and will then continue during the web conference call(s).

Thursday June 4th, 12:00 - 13:30 UTC

* Check the status of email discussion 101 and decide on next steps
* Discuss [R2-2005707](file:///C:\Data\3GPP\RAN2\Docs\R2-2005707.zip) (Stage 2 CR)

eMIMO:

The discussion will initially happen in offline email discussions (102 and 103) kicked off at the e-meeting start and will then continue during the web conference call(s).

Wednesday June 3th, 12:00 - 13:30 UTC:

* Check the status of email discussion 103 and decide on next steps on MAC aspects
* Discuss and take a decision on Timer based BFR MAC CE transmission based on [R2-2005123](file:///C:\Data\3GPP\RAN2\Docs\R2-2005123.zip) and [R2-2005493](file:///C:\Data\3GPP\RAN2\Docs\R2-2005493.zip)

Thursday June 4th, 12:00 - 13:30 UTC

* Check the status of email discussion 102 and decide on next steps on RRC aspects

PRN:

The discussion will initially happen in offline email discussions (104 and 105) kicked off at the e-meeting start and will then continue during the web conference call(s).

Wednesday June 3th, 12:00 - 13:30 UTC:

* Check the status of email discussion 105 and decide on next steps on 38.304 aspects
* Discuss [R2-2005451](file:///C:\Data\3GPP\RAN2\Docs\R2-2005451.zip) (Early Implementation of CAG Features)
* Discuss [R2-2004571](file:///C:\Data\3GPP\RAN2\Docs\R2-2004571.zip) (UE capabilities)
* Discuss [R2-2004508](file:///C:\Data\3GPP\RAN2\Docs\R2-2004508.zip) (Stage 2 CR)

Thursday June 4th, 12:00 - 13:30 UTC

* Check the status of email discussion 104 and decide on next steps on RRC aspects

List and status of offline email discussions

NOTE: No offline email discussions will be kicked off before Monday June 1st, 07:00 UTC

* [AT110e][101][CLI] RRC and UE capabilities aspects (LG)

Scope: Discuss the 38.331 and 38.306 CR on UE capabilities for CLI based on [R2-2005695](file:///C:\Data\3GPP\RAN2\Docs\R2-2005695.zip), [R2-2005730](file:///C:\Data\3GPP\RAN2\Docs\R2-2005730.zip) and [R2-2004430](file:///C:\Data\3GPP\RAN2\Docs\R2-2004430.zip). Also discuss the changes suggested by RAN1 in [R2-2004347](file:///C:\Data\3GPP\RAN2\Docs\R2-2004347.zip) and the new proposal in [R2-2005309](file:///C:\Data\3GPP\RAN2\Docs\R2-2005309.zip).

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

* + - Set of proposals with full consensus, if any (agreeable over email)
    - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005791): Thursday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005791 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Started

* [AT110e][102][EMIMO] RRC CR (Ericsson)

Initial scope: Continue the discussion on RRC open issues, based on [R2-2004465](file:///C:\Data\3GPP\RAN2\Docs\R2-2004465.zip).

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

* Set of proposals with full consensus, if any (agreeable over email)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005792): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005792 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Started

* [AT110e][103][EMIMO] MAC CR (Samsung)

Initial scope: Continue the discussion on MAC open issues and correction, based on the submitted contributions.

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

* Set of proposals with full consensus, if any (agreeable over email)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005793): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005793 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Started

* [AT110e][104][PRN] RRC CR (Nokia)

Initial scope: Continue the discussion on RRC open issues, based on [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip), considering the new LSs from SA1 and the proposals marked "to be discussed in offline [104]". Also discuss RILs: Z112, B200 and H422.

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

* Set of proposals with full consensus agreeable over email (based on the list in Section 3.1 of [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip), possibly extended with new easy agreements)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005794): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005794 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Started

* [AT110e][105][PRN] 38.304 CR (Qualcomm)

Initial scope: Continue the discussion on 38.304 open issues, based on [R2-2005674](file:///C:\Data\3GPP\RAN2\Docs\R2-2005674.zip), and the proposals marked "to be discussed in offline [105]".

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

* Set of proposals with full consensus, if any (agreeable over email)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Tuesday 2020-06-02 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005795): Tuesday 2020-06-02 22:00 UTC

Proposed agreements in R2-2005795 indicated for email agreement and not challenged until Wednesday 2020-06-03 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Started

## 6.5 Optimisations on UE radio capability signalling

(RACS-RAN-Core; leading WG: RAN2; REL-16; started: Mar 19; target; Jun 20; WID: [RP-191088](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191088.zip), SR: RP-200163). Documents in this agenda item will be handled in a break out session.

R2 part is 100%. Only corrections.

Tdoc limitation: 1 per company

### 6.5.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

Workplan

[R2-2004711](file:///C:\Data\3GPP\RAN2\Docs\R2-2004711.zip) Work plan for RACS-RAN work item MediaTek Inc., CATT discussion Rel-16 RACS-RAN-Core

* Noted

Incoming LSs

[R2-2004321](file:///C:\Data\3GPP\RAN2\Docs\R2-2004321.zip) Reply LS on RACS and signalling of UE capabilities at handover (S2-2003483; contact: Ericsson) SA2 LS in Rel-16 RACS-RAN-Core To:RAN2, RAN3

* Noted (no further RAN2 impact)

[R2-2004324](file:///C:\Data\3GPP\RAN2\Docs\R2-2004324.zip) LS on different coding formats (S2-2003507; contact: Samsung) SA2 LS in Rel-16 RACS-RAN-Core To:RAN2, RAN3, CT4, CT3

* Noted (no RAN2 impact)

Rapporteur CRs

[R2-2004710](file:///C:\Data\3GPP\RAN2\Docs\R2-2004710.zip) Correction to transfer of UE capabilities at HO for RACS and correction of ASN.1 review issues [N012][N013] MediaTek Inc., Ericsson, ZTE Corporation, Sanechips CR Rel-16 36.331 16.0.0 4256 2 F RACS-RAN-Core [R2-2003906](file:///C:\Data\3GPP\archive\RAN2\RAN2%23109bis\Tdocs\R2-2003906.zip)

* …

[R2-2005539](file:///C:\Data\3GPP\RAN2\Docs\R2-2005539.zip) Correction to transfer of UE capabilities at HO for RACS and minor ASN.1 correction (38.331) ZTE Corporation, Ericsson, MediaTek Inc.,Sanechips,OPPO CR Rel-16 38.331 16.0.0 1553 2 F RACS-RAN-Core [R2-2003905](file:///C:\Data\3GPP\archive\RAN2\RAN2%23109bis\Tdocs\R2-2003905.zip)

* …

### 6.5.2 Corrections

Including contributions/TPs on RACS-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteurs first (Nathan.Tenny@mediatek.com for 36.331 and Gao.Yuan66@zte.com.cn for 38.331).

## 6.14 Single Radio Voice Call Continuity from 5G to 3G

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; target; Mar 20; WID: [RP-190713](file:///C:\Data\3GPP\archive\RAN\RAN%2383\Tdocs\RP-190713.zip); SR: RP-200436) Documents in this agenda item will be handled in a break out session

Tdoc Limitation: 1 tdoc

The Core part of this WI is 100% Only corrections.

### 6.14.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

### 6.14.2 Corrections

Including contributions/TPs on SRVCC-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteur first (tangxun@huawei.com).

[R2-2005066](file:///C:\Data\3GPP\RAN2\Docs\R2-2005066.zip) CR on 38.331 for SRVCC from 5G to 3G Huawei, HiSilicon, Lenovo, Motorola Mobility, China Unicom CR Rel-16 38.331 16.0.0 1645 - F SRVCC\_NR\_to\_UMTS-Core

* …

## 6.15 Cross Link Interference (CLI) handling and Remote Interference Management (RIM) for NR

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; target; Jun 20; WID: [RP-191997](file:///C:\Data\3GPP\archive\RAN\RAN%2385\Tdocs\RP-191997.zip); SR: RP-200453) Documents in this agenda item will be handled in a break out session.

Tdoc Limitation: 1 tdoc

### 6.15.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

Incoming LSs

[R2-2004347](file:///C:\Data\3GPP\RAN2\Docs\R2-2004347.zip) LS on subcarrier spacing for CLI-RSSI measurement (R1-2002966; contact: LGE) RAN1 LS in Rel-16 NR\_CLI\_RIM-Core To:RAN2 Cc:RAN4

* to be discussed in offline [101]
* Noted

[R2-2004365](file:///C:\Data\3GPP\RAN2\Docs\R2-2004365.zip) Reply LS on CLI measurement and reporting (R4-2005297; contact: LGE) RAN4 LS in Rel-16 NR\_CLI\_RIM-Core To:RAN1 Cc:RAN2

* Noted (no RAN2 impact)

Stage 2:

[R2-2005707](file:///C:\Data\3GPP\RAN2\Docs\R2-2005707.zip) CLI Corrections Nokia (Rapporteur) CR Rel-16 38.300 16.1.0 0217 2 F NR\_CLI\_RIM-Core R2-2005277 Late

* …

UE capabilities

[R2-2004430](file:///C:\Data\3GPP\RAN2\Docs\R2-2004430.zip) UE capabilities for CLI Qualcomm Incorporated CR Rel-16 38.306 16.0.0 0301 - F NR\_CLI\_RIM-Core

* to be discussed in offline [101]

[R2-2005695](file:///C:\Data\3GPP\RAN2\Docs\R2-2005695.zip) CR on UE capabilities for CLI LG Electronics Inc. CR Rel-16 38.331 16.0.0 1689 - F NR\_CLI\_RIM-Core

* to be discussed in offline [101]
* Revised in R2-2006000
* [AT110e][101][CLI] RRC and UE capabilities aspects (LG)

Scope: Discuss the 38.331 and 38.306 CR on UE capabilities for CLI based on [R2-2005695](file:///C:\Data\3GPP\RAN2\Docs\R2-2005695.zip), [R2-2005730](file:///C:\Data\3GPP\RAN2\Docs\R2-2005730.zip) and [R2-2004430](file:///C:\Data\3GPP\RAN2\Docs\R2-2004430.zip). Also discuss the changes suggested by RAN1 in [R2-2004347](file:///C:\Data\3GPP\RAN2\Docs\R2-2004347.zip) and the new proposal in [R2-2005309](file:///C:\Data\3GPP\RAN2\Docs\R2-2005309.zip).

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

* + - Set of proposals with full consensus, if any (agreeable over email)
    - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005791): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005791 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

R2-2005791 Offline discussion 101: CLI - RRC and UE capabilities aspects LG (Rapporteur) discussion Rel-16 NR\_CLI\_RIM-Core

R2-2006000 CR on UE capabilities for CLI LG Electronics Inc. CR Rel-16 38.331 16.0.0 1689 1 F NR\_CLI\_RIM-Core

[R2-2005730](file:///C:\Data\3GPP\RAN2\Docs\R2-2005730.zip) UE capabilities for CLI Ericsson CR Rel-16 38.331 16.0.0 1693 - F NR\_CLI\_RIM Late

* to be discussed in offline [101]
* Noted

Withdrawn:

R2-2005277 CLI Featurre overview - Additional changes Nokia (Rapporteur) CR Rel-16 38.300 16.1.0 0217 1 D NR\_CLI\_RIM-Core [R2-2003365](file:///C:\Data\3GPP\archive\RAN2\RAN2%23109bis\Tdocs\R2-2003365.zip) Withdrawn

### 6.15.2 Remaining open issues

Including contributions/TPs on corrections and CLI-specific Class 3 ASN.1 review aspects, if any. For these, no individual company CRs should be submitted: please consult with the RRC CR rapporteur first (sangwon7.kim@lge.com).

[R2-2005309](file:///C:\Data\3GPP\RAN2\Docs\R2-2005309.zip) On the impact of DRX on CLI SRS-RSRP measurement Huawei, HiSilicon discussion Rel-16

* to be discussed in offline [101]
* Noted

For the following paper, feedback from RAN3 (on exchange of information related to SRS-RSRP measurement resource configuration) is needed first

[R2-2005603](file:///C:\Data\3GPP\RAN2\Docs\R2-2005603.zip) Potential correction on SRS resource for Xn exchange ZTE Corporation, Sanechips discussion Rel-16 NR\_CLI\_RIM-Core

* …

## 6.16 Enhancements on MIMO for NR

(NR\_eMIMO-Core; leading WG: RAN1; REL-16; started: Jun 18; target; June 20; WID: RP-200474; SR: RP-200473). Documents in this agenda item will be handled in a break out session.

Tdoc Limitation: 2 tdocs

### 6.16.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

[R2-2004833](file:///C:\Data\3GPP\RAN2\Docs\R2-2004833.zip) Miscellaneous corrections on eMIMO Samsung, Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.0.0 0711 3 F NR\_eMIMO-Core R2-2003911

* …

### 6.16.2 RRC aspects

Including output of email discussion [Post109bis-e][933][eMIMO] RRC Open issues (Ericsson).

Including contributions/TPs on eMIMO-specific Class 3 ASN.1 review aspects (such aspects should anyway be raised in the email discussion [933]). No individual company CRs should be submitted.

Also including contributions on UE capability aspects.

[R2-2004465](file:///C:\Data\3GPP\RAN2\Docs\R2-2004465.zip) [Post109bis-e][933][eMIMO] RRC Open Issues (Ericsson) Ericsson report Rel-16 NR\_eMIMO-Core

* Moved to offline email discussion [102] with the intention to go back online during the web conference call(s)
* [AT110e][102][EMIMO] RRC CR (Ericsson)

Initial scope: Continue the discussion on RRC open issues, based on [R2-2004465](file:///C:\Data\3GPP\RAN2\Docs\R2-2004465.zip).

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

* Set of proposals with full consensus, if any (agreeable over email)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005792): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005792 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

R2-2005792 Offline discussion 102: eMIMO - RRC open issues - first round Ericsson report Rel-16 NR\_eMIMO-Core

### 6.16.3 Other aspects

Including contributions/TPs on MAC corrections. For these, no individual company CRs should be submitted: please consult with the MAC CR rapporteur first (seungri.jin@samsung.com).

If needed, a summary document may also be utilized to treat this agenda item.

MAC Corrections. The proposals in the following papers will be handled in offline email discussion [103]

[R2-2004463](file:///C:\Data\3GPP\RAN2\Docs\R2-2004463.zip) On pathloss reference RS MAC CE for SRS and PUSCH Ericsson discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004464](file:///C:\Data\3GPP\RAN2\Docs\R2-2004464.zip) On SRS activation/deactivation MAC CE for the list of serving cells Ericsson discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004524](file:///C:\Data\3GPP\RAN2\Docs\R2-2004524.zip) Issues - Beam Failure Recovery Samsung Electronics Co., Ltd discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004646](file:///C:\Data\3GPP\RAN2\Docs\R2-2004646.zip) Discussion on the priority of the BFR MAC CE and SR vivo, Samsung discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004647](file:///C:\Data\3GPP\RAN2\Docs\R2-2004647.zip) RACH cancellation after the transmission of Msg3 or MsgA vivo discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004832](file:///C:\Data\3GPP\RAN2\Docs\R2-2004832.zip) Remaining issues on the MAC CEs for beam enhancements Samsung discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004897](file:///C:\Data\3GPP\RAN2\Docs\R2-2004897.zip) Open issues for PUSCH Pathloss Reference RS Update MAC CE OPPO discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2004898](file:///C:\Data\3GPP\RAN2\Docs\R2-2004898.zip) Open issues on Spcell BFR OPPO discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2005122](file:///C:\Data\3GPP\RAN2\Docs\R2-2005122.zip) The Remaining issue on stopping the sr-ProhibitTimer ZTE, Sanechips discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2005185](file:///C:\Data\3GPP\RAN2\Docs\R2-2005185.zip) Remaining issues on DL MIMO MAC CE Qualcomm Incorporated discussion Rel-16 NR\_eMIMO-Core

* Noted

[R2-2005366](file:///C:\Data\3GPP\RAN2\Docs\R2-2005366.zip) Consideration on timer based BFR MAC CE transmission LG Electronics Inc. discussion NR\_eMIMO-Core

* Noted

[R2-2005568](file:///C:\Data\3GPP\RAN2\Docs\R2-2005568.zip) Clarification on generation of BFR MAC CE ASUSTeK discussion Rel-16 38.321 NR\_eMIMO-Core

* Noted
* [AT110e][103][EMIMO] MAC CR (Samsung)

Initial scope: Continue the discussion on MAC open issues and correction, based on the submitted contributions.

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

* Set of proposals with full consensus, if any (agreeable over email)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005793): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005793 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

R2-2005793 Offline discussion 102: eMIMO - MAC corrections - first round Samsung report Rel-16 NR\_eMIMO-Core

Timer based BFR MAC CE transmission

[R2-2005123](file:///C:\Data\3GPP\RAN2\Docs\R2-2005123.zip) Discussion on Beam Failure Recovery for SCell ZTE , Sanechips, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, OPPO, Sharp, Lenovo, Apple, Asia Pacific Telecom, Futurewei discussion Rel-16 NR\_eMIMO-Core

* …

[R2-2005493](file:///C:\Data\3GPP\RAN2\Docs\R2-2005493.zip) Discussion on timer based BFR MAC CE transmission Qualcomm Incorporated, vivo, Ericsson, Samsung, MediaTek, CATT discussion Rel-16 NR\_eMIMO-Core

* …

Withdrawn:

[R2-2005257](file:///C:\Data\3GPP\RAN2\Docs\R2-2005257.zip) Remaining issues on SCell BFR Huawei, HiSilicon discussion Rel-16 NR\_eMIMO-Core Withdrawn

## 6.18 Private Network Support for NG-RAN

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; target; June 20; WID: RP-200122 SR; RP-200441) Documents in this agenda item will be handled in a break out session.

Tdoc Limitation: 2 tdocs

### 6.18.1 Organisational

Including incoming LSs, rapporteur inputs, etc.

Contributions in this AI are reserved for WI rapporteur inputs and do not count towards the tdoc limits.

Incoming LSs:

[R2-2005739](file:///C:\Data\3GPP\RAN2\Docs\R2-2005739.zip) Reply LS on CMAS/ETWS and emergency services for SNPNs (S1-202220; contact: Nokia) SA1 LS in Rel-16 NG\_RAN\_PRN To:RAN2, SA2 Cc:CT1

* to be discussed in offline [104]
* Noted

[R2-2005991](file:///C:\Data\3GPP\RAN2\Docs\R2-2005991.zip) Reply LS on Manual CAG ID selection and granularity of UAC parameters for PNI-NPNs (S1-202265; contact: CMCC) SA1 LS in Rel-16 NG\_RAN\_PRN-Core To:RAN2 Cc: CT1, SA2, RAN3

* to be discussed in offline [104]
* Noted

[R2-2005993](file:///C:\Data\3GPP\RAN2\Docs\R2-2005993.zip) Reply LS on manual CAG selection (S1-202277; contact: Qualcomm) SA1 LS in Rel-16 Vertical\_LAN, NG\_RAN\_PRN-Core To:RAN2, CT1 Cc: SA2, RAN3

* to be discussed in offline [104]
* Noted

Stage 2:

[R2-2004508](file:///C:\Data\3GPP\RAN2\Docs\R2-2004508.zip) Miscellaneous corrections to NPN Nokia (Rapporteur) CR Rel-16 38.300 16.1.0 0225 - F NG\_RAN\_PRN-Core

* …

### 6.18.2 RRC aspects

Including output of email discussion [Post109bis-e][934][PRN] Remaining open issues (Nokia). Contributions related to issues addressed by this email discussions should be avoided and are discouraged for this AI.

Including contributions/TPs on PRN-specific Class 3 ASN.1 review aspects (such aspects should anyway be raised in the email discussion [934]). No individual company CRs should be submitted.

Also including contributions on UE capability aspects.

[R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip) Report from email discussion [Post109bis-e][934][PRN] Remaining open issues Nokia (Rapporteur) discussion Rel-16 NG\_RAN\_PRN-Core

* Moved to offline email discussion [104] with the intention to go back online during the web conference call(s)
* [AT110e][104][PRN] RRC CR (Nokia)

Initial scope: Continue the discussion on RRC open issues, based on [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip), considering the new LSs from SA1 and the proposals marked "to be discussed in offline [104]". Also discuss RILs: Z112, B200 and H422.

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

* Set of proposals with full consensus agreeable over email (based on the list in Section 3.1 of [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip), possibly extended with new easy agreements)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Wednesday 2020-06-03 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005794): Wednesday 2020-06-03 22:00 UTC

Proposed agreements in R2-2005794 indicated for email agreement and not challenged until Thursday 2020-06-04 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

R2-2005794 Offline discussion 104: PRN - RRC open issues - first round Nokia (Rapporteur) discussion Rel-16 NG\_RAN\_PRN-Core

R2-2004484 Finalization of the support of Non-Public Networks Nokia (Rapporteur) CR Rel-16 38.331 16.0.0 1513 1 F NG\_RAN\_PRN-Core R2-2002658 Late

Definition of selected PNI-NPN

[R2-2004482](file:///C:\Data\3GPP\RAN2\Docs\R2-2004482.zip) Selected NPN issue (ASN.1 Z102) Nokia, Nokia Shanghai Bell discussion Rel-16 NG\_RAN\_PRN-Core

* to be discussed in offline [104]
* Noted

NPN indexing

[R2-2004483](file:///C:\Data\3GPP\RAN2\Docs\R2-2004483.zip) Discussion on NPN indexing Nokia, Nokia Shanghai Bell discussion Rel-16 NG\_RAN\_PRN-Core

* to be discussed in offline [104]
* Noted

[R2-2005592](file:///C:\Data\3GPP\RAN2\Docs\R2-2005592.zip) Discussion on network indexing Huawei, HiSilicon discussion Rel-16 NG\_RAN\_PRN-Core

* to be discussed in offline [104]
* Noted

PCI range

[R2-2004521](file:///C:\Data\3GPP\RAN2\Docs\R2-2004521.zip) Consideration on Cells in PCI Range for CAG CATT discussion Rel-16 38.331 NG\_RAN\_PRN-Core

* to be discussed in offline [104]
* Noted

[R2-2004572](file:///C:\Data\3GPP\RAN2\Docs\R2-2004572.zip) Remaining issues for NPN ZTE Corporation, Sanechips discussion Rel-16 NG\_RAN\_PRN-Core

* moved from 6.18.3
* to be discussed in offline [104]
* Noted

[R2-2004690](file:///C:\Data\3GPP\RAN2\Docs\R2-2004690.zip) Remaining aspects of NPN Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

* moved from 6.18.3
* proposals 1 and 3 to be discussed in offline [104]
* proposal 4 can be discussed in offline [105]
* Noted

[R2-2005148](file:///C:\Data\3GPP\RAN2\Docs\R2-2005148.zip) UE behavior for CAG PCI range Sony discussion Rel-16 NG\_RAN\_PRN-Core

* moved from 6.18.3
* to be discussed in offline [104]
* Noted

[R2-2005689](file:///C:\Data\3GPP\RAN2\Docs\R2-2005689.zip) PCI List for CAG QUALCOMM Europe Inc. - Italy discussion

* moved from 6.16.3
* can be discussed in offline [104]
* Noted

SIB10 on demand

[R2-2005593](file:///C:\Data\3GPP\RAN2\Docs\R2-2005593.zip) Discussion on remaining issues on NPN Huawei, HiSilicon discussion Rel-16 NG\_RAN\_PRN-Core

* to be discussed in offline [104]
* Noted

Early implementation

[R2-2005451](file:///C:\Data\3GPP\RAN2\Docs\R2-2005451.zip) Early Implementation of CAG Features CMCC, China Telecom, CATT, ZTE, Huawei, Sony discussion Rel-16 NG\_RAN\_PRN-Core

* …

[R2-2005452](file:///C:\Data\3GPP\RAN2\Docs\R2-2005452.zip) CR for Early Implementation of CAG Features CMCC, China Telecom, CATT, ZTE, Huawei, Sony CR Rel-16 38.331 16.0.0 1674 - B NG\_RAN\_PRN-Core

UE capability

[R2-2004571](file:///C:\Data\3GPP\RAN2\Docs\R2-2004571.zip) draft CR on introdcution of UE capability for non-public network ZTE Corporation, Sanechips draftCR Rel-16 38.306 16.0.0 B NG\_RAN\_PRN-Core

* …

Other

[R2-2004743](file:///C:\Data\3GPP\RAN2\Docs\R2-2004743.zip) Discussion on ANR for NPN vivo discussion

* can be discussed in offline [104]
* Noted

[R2-2005658](file:///C:\Data\3GPP\RAN2\Docs\R2-2005658.zip) Need code of hrnn-List in SIB10 LG Electronics France discussion

* can be discussed in offline [104]
* Noted

[R2-2005659](file:///C:\Data\3GPP\RAN2\Docs\R2-2005659.zip) Prioritization of CAG for mobility LG Electronics France discussion NG\_RAN\_PRN-Core

* can be discussed in offline [104]
* Noted

### 6.18.3 Other aspects

Including non-RRC issues not addressed in email discussion [934].

Including contributions/TPs on TS 38.304 corrections. For these, no individual company CRs should be submitted: please consult with the 38.304 CR rapporteur first (rprakash@qti.qualcomm.com).

If needed, a summary document may also be utilized to treat this agenda item.

[R2-2005674](file:///C:\Data\3GPP\RAN2\Docs\R2-2005674.zip) PRN 38304 rapporteur summary of open issues QUALCOMM Europe Inc. - Italy discussion Rel-16

* Moved to offline email discussion [105] with the intention to go back online during the web conference call(s)
* [AT110e][105][PRN] 38.304 CR (Qualcomm)

Initial scope: Continue the discussion on 38.304 open issues, based on [R2-2005674](file:///C:\Data\3GPP\RAN2\Docs\R2-2005674.zip), and the proposals marked "to be discussed in offline [105]".

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

* Set of proposals with full consensus, if any (agreeable over email)
  + - Set of proposals to discuss in the follow up conference call

Initial deadline (for companies' feedback): Tuesday 2020-06-02 10:00 UTC

Initial deadline (for rapporteur's summary in R2-2005795): Tuesday 2020-06-02 22:00 UTC

Proposed agreements in R2-2005795 indicated for email agreement and not challenged until Wednesday 2020-06-03 10:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

R2-2005795 Offline discussion 105: PRN - 38304 open issues - first round Qualcomm (Rapporteur) discussion Rel-16 NG\_RAN\_PRN-Core

[R2-2005676](file:///C:\Data\3GPP\RAN2\Docs\R2-2005676.zip) PRN 38304 CR (rapporteur update) QUALCOMM Europe Inc. - Italy CR Rel-16 38.304 16.0.0 0156 2 F NG\_RAN\_PRN R2-2003908

* …

[R2-2004522](file:///C:\Data\3GPP\RAN2\Docs\R2-2004522.zip) Remaining Issues related to 38.304 CATT discussion Rel-16 38.304 NG\_RAN\_PRN-Core

* to be discussed in offline [105]
* Noted

[R2-2004603](file:///C:\Data\3GPP\RAN2\Docs\R2-2004603.zip) Remaining open issues in the specification of NPN Lenovo, Motorola Mobility discussion Rel-16 NG\_RAN\_PRN-Core

* proposal 1 to be discussed in offline [104]
* other can be discussed in offline [105]
* Noted

[R2-2004689](file:///C:\Data\3GPP\RAN2\Docs\R2-2004689.zip) Purpose and consequences of manual CAG selection Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

* Covered by [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip)
* Noted

[R2-2004728](file:///C:\Data\3GPP\RAN2\Docs\R2-2004728.zip) Remaining issues for Manual CAG selection Intel Corporation discussion Rel-16 NG\_RAN\_PRN-Core

* Generally covered by [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip) and offline [104]. Wording can be discussed in offline [105]
* Noted

[R2-2004744](file:///C:\Data\3GPP\RAN2\Docs\R2-2004744.zip) Discussion on manual CAG selection vivo discussion

* can be discussed in offline [105]
* Noted

[R2-2005364](file:///C:\Data\3GPP\RAN2\Docs\R2-2005364.zip) Clarification of cell reselection for NPN-capable U China Telecom discussion Rel-16

* can be discussed in offline [105]
* Noted

[R2-2005365](file:///C:\Data\3GPP\RAN2\Docs\R2-2005365.zip) Further consideration of UAC in PRN China Telecom discussion Rel-16

* Covered by [R2-2004481](file:///C:\Data\3GPP\RAN2\Docs\R2-2004481.zip) and offline [104]
* Noted

[R2-2005680](file:///C:\Data\3GPP\RAN2\Docs\R2-2005680.zip) Emergency Calls in CAG Cells for UE supporting NPN-ANR QUALCOMM Europe Inc. - Italy discussion

* can be discussed in offline [105]
* Noted

## Summary

TBD