3GPP TSG-RAN WG2 Meeting #111 electronic R2-2008122

Online, August 17th - 28th, 2020

**Agenda item: 10.2**

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

**Title: Report from Break-out session on R16 eMIMO, CLI, PRN, RACS and R17 NTN and REDCAP**

**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 [AT111e][000]

Organizational

1. For R16 items, summary discussion papers might be used during the e-meeting (as indicated in the meeting notes). For R17 items, no summary discusison papers will be used at this meeting.
2. All organization emails and notes will be shared over the following email discussion throughout the two meeting weeks:

* [AT111e][100] Organizational Sergio's session (eMIMO, CLI, PRN, RACS, NTN, REDCAP)

Scope:

* + - Share plans for the meeting and list of ongoing email discussions for the sessions related to eMIMO, CLI and other NR R1 WIs Corrections, PRN, RACS, NTN and REDCAP
    - Share meetings notes and agreements for review and endorsement

Schedule/Plan

eMIMO:

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

Tuesday August 18th, 13:30 - 15:00 UTC:

* Check the status of email discussion 101 and decide on next steps

CLI and other NR R1 WIs Corrections:

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

Tuesday August 18th, 13:30 - 15:00 UTC:

* Check the status of email discussion 102 and decide on next steps
* Discuss other NR R1 WI corrections

RACS:

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

Wednesday August 19th, 13:30 - 15:00 UTC:

* Check the status of email discussion 103 and decide on next steps

PRN:

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

Wednesday August 19th, 13:30 - 15:00 UTC:

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

NTN:

The discussion will initially happen in offline email discussions (105, 106 and 107) kicked off at the e-meeting start and will then continue during the web conference call(s).

Friday August 21th, 3:30 - 5:00 UTC:

* Check the status of email discussion 105, 106 and decide on next steps
* Discuss the incoming LS in [R2-2006530](file:///C:\Data\3GPP\Extracts\R2-2006530_S2-2004688.doc) and suggested reply LS
* Continue the discussion on CP aspects

Monday August 24th, 13:00 - 14:30 UTC:

* Check the status of email discussion 107 and decide on next steps
* Continue the discussion on UP aspects

REDCAP:

The discussion will initially happen in offline email discussions (108, 109, 110 and 111) kicked off at the e-meeting start and will then continue during the web conference call(s).

Tuesday August 25th, 13:00 - 16:00 UTC:

* Check the status of email discussion 108, 109, 110, 111 and decide on next steps
* Start the discussion on the other aspects

List and status of offline email discussions

NOTE: No offline email discussions will be kicked off before Monday August 17th, 07:00 UTC

* [AT111e][101][eMIMO] MAC corrections (Samsung)

Initial scope: Discuss the CRs in [R2-2006779](file:///C:\Data\3GPP\Extracts\R2-2006779_CR0784_38321_Rel16_Corrections%20to%20description%20of%20Candidate%20RS%20ID%20in%20BFR%20MAC%20CE.docx), [R2-2007525](file:///C:\Data\3GPP\Extracts\R2-2007525%20CR%20on%2038.321%20for%20BFR%20MAC%20CE%20design.docx), [R2-2006797](file:///C:\Data\3GPP\Extracts\R2-2006797%2038321%20CR0785%20Clarification%20on%20the%20BFR%20MAC%20CE%20report.docx), [R2-2007485](file:///C:\Data\3GPP\Extracts\R2-2007485%20Correction%20on%20the%20BFR%20cancellation.docx), [R2-2007736](file:///C:\Data\3GPP\Extracts\R2-2007736%20CR0837_BFR%20Cancellation%20regarding%20MAC%20reset.docx), [R2-2007526](file:///C:\Data\3GPP\Extracts\R2-2007526%20CR%20on%2038.321%20for%20BFR%20procedure.docx), [R2-2007895](file:///C:\Data\3GPP\Extracts\._R2-2007895.doc) and [R2-2008053](file:///C:\Data\3GPP\Extracts\R2-2008053.docx)

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

* + - List of CRs that can be agreed as is
    - List of CRs that can be agreed with some changes (with an indication of the needed changes)
    - List of CRs that require online discussion
    - List of CRs that should not be pursued

Initial deadline (for companies' feedback): Tuesday 2020-08-18 07:00 UTC

Initial deadline (for rapporteur's summary in [R2-2008181](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008181.zip)): Tuesday 2020-08-18 09:00 UTC

Updated scope: Draft the CR in R2-2008196 and continue the discussion on [R2-2008053](file:///C:\Data\3GPP\Extracts\R2-2008053.docx), e.g. to see whether this issue should be addressed in RAN2 or other groups.

Updated intended outcome: Agreeable CR in R2-2008196 and summary of the discussion in R2-2008197

Updated deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Updated deadline (for rapporteur's summary in R2-2008197): Wednesday 2020-08-26 09:00 UTC

Status: Ongoing

* [AT111e][102][CLI] Reply LS to RAN3 (ZTE)

Scope: Attempt drafting a reply LS to the incoming LS in [R2-2006524](file:///C:\Data\3GPP\Extracts\R2-2006524_R3-204399.docx) based on the related contributions in [R2-2006898](file:///C:\Data\3GPP\Extracts\R2-2006898%20Discussion%20on%20RAN3%20LS%20about%20SRS%20resource%20exchange.docx) and [R2-2007355](file:///C:\Data\3GPP\Extracts\R2-2007355-SRS-RSRP%20Xn.docx) and draft reply LS proposals in [R2-2006899](file:///C:\Data\3GPP\Extracts\R2-2006899%20Draft%20reply%20LS%20on%20exchange%20of%20information%20related%20to%20SRS-RSRP%20measurement%20resource%20configuration%20for%20UE-CLI.doc), [R2-2007356](file:///C:\Data\3GPP\Extracts\R2-2007356-Draft-LS-Response.docx) and [R2-2007851](file:///C:\Data\3GPP\Extracts\R2-2007851%20Draft%20LS%20on%20Update%20frequency%20of%20SRS-RSRP%20configuration%20for%20CLI.doc)

Initial intended outcome: initial draft reply LS to RAN3 in [R2-2008182](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008182.zip):

Initial deadline (for companies' feedback): Tuesday 2020-08-18 10:00 UTC

Initial deadline (for initial draft reply LS in [R2-2008182](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008182.zip)): Tuesday 2020-08-18 12:00 UTC

Updated Scope: Continue the discussion and attempt a revision of the reply LS

Updated intended outcome: revised draft reply LS to RAN3 in R2-2008200

Updated interim deadline (for companies' feedback): Friday 2020-08-21 00:00 UTC

Updated interim deadline (for revised draft reply LS in R2-2008200): Friday 2020-08-21 02:00 UTC

If the draft reply LS in R2-2008200 will be not challenged until Friday 2020-08-21 08:00 UTC, it will be declared as agreed by the session chair. Otherwise the discussion will continue until the CB online session on Wednesday 2020-08-26.

Status: Ongoing

* [AT111e][103][RACS] Corrections (Huawei)

Scope: Discuss the CRs in [R2-2008104](file:///C:\Data\3GPP\Extracts\R2-2008104%20Correction%20on%20the%20UE%20Capability%20presence%20upon%20SN%20addition%20and%20SN%20change.docx), [R2-2007806](file:///C:\Data\3GPP\Extracts\R2-2007806%20CR%20on%20UE%20capability%20of%20segmentation%20for%20UE%20capability%20information%20(38.306).docx) and [R2-2007807](file:///C:\Data\3GPP\Extracts\R2-2007807%20CR%20on%20UE%20capability%20of%20segmentation%20for%20UE%20capability%20information%20(36.306).docx)

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

* + - List of CRs that can be agreed as is
    - List of CRs that can be agreed with some changes (with an indication of the needed changes)
    - List of CRs that require online discussion
    - List of CRs that should not be pursued

Initial deadline (for companies' feedback): Wednesday 2020-08-19 07:00 UTC

Initial deadline (for rapporteur's summary in [R2-2008183](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008183.zip)): Wednesday 2020-08-19 09:00 UTC

CRs listed as "can be agreed as is" in [R2-2008183](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008183.zip) and not challenged until Wednesday 2020-08-19 13:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Ongoing

* [AT111e][104][PRN] Stage 3 Corrections (Nokia)

Scope: Discuss the CRs in [R2-2006634](file:///C:\Data\3GPP\Extracts\38304_CR0176_(Rel-16)_R2-2006634%20Correction%20on%20Naming%20%20of%20the%20List%20of%20Forbidden%20Tracking%20Areas.docx), [R2-2006852](file:///C:\Data\3GPP\Extracts\R2-2006852-CR38304-NPN.docx), [R2-2007841](file:///C:\Data\3GPP\Extracts\R2-2007841%20Correction%20to%2038.304%20on%20any%20cell%20seletion%20in%20NPN.doc), [R2-2008114](file:///C:\Data\3GPP\Extracts\R2-2008114%2038.304%20Correction%20on%20UE%20behavior%20when%20the%20best%20cell%20is%20not%20suitable.docx), [R2-2006633](file:///C:\Data\3GPP\Extracts\38331_CR1722_(Rel-16)_R2-2006633%20Correction%20on%20First%20NPN-Identity%20Usage%20for%20SIB%20Validity.docx), [R2-2007842](file:///C:\Data\3GPP\Extracts\R2-2007842%20Correction%20to%2038.331%20on%20SIB%20validity%20and%20emergency%20services%20for%20NPN.doc), [R2-2006853](file:///C:\Data\3GPP\Extracts\R2-2006853-CR38331-NPN.docx), [R2-2007411](file:///C:\Data\3GPP\Extracts\R2-2007411%20-%20ims-EmergencySupport%20interpretation%20and%20clarification%20for%20SNPN.docx) and [R2-2008016](file:///C:\Data\3GPP\Extracts\R2-2008016_CR1973_38331_Rel16_Corrections%20to%20IntraFreqCAG-CellPerPLMN%20and%20InterFreqCAG-CellList%20in%20SIB3%20and%20SIB4.docx)

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

* + - List of CRs that can be agreed as is
    - List of CRs that can be agreed with some changes (with an indication of the needed changes)
    - List of CRs that require online discussion
    - List of CRs that should not be pursued

Initial deadline (for companies' feedback): Wednesday 2020-08-19 07:00 UTC

Initial deadline (for rapporteur's summary in [R2-2008184](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008184.zip)): Wednesday 2020-08-19 09:00 UTC

CRs listed as "can be agreed as is" in [R2-2008184](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008184.zip) and not challenged until Wednesday 2020-08-19 13:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

Status: Ongoing

* [AT111e][105][NTN] Workplan, scope and scenarios (Thales)

Scope: Discuss the workplan in [R2-2007565](file:///C:\Data\3GPP\Extracts\R2-2007565%20-%20Rel17%20NR-NTN%20workplan.docx) and the proposals in [R2-2007572](file:///C:\Data\3GPP\Extracts\R2-2007572%20-%20NR%20NTN%20reference%20scenarios.docx), [R2-2007537](file:///C:\Data\3GPP\Extracts\R2-2007537%20NTN%20Overview.docx), [R2-2006630](file:///C:\Data\3GPP\Extracts\R2-2006630_Further%20Clarifications%20on%20the%20NTN%20WID.docx) (and possibly others from contributions in 8.10.1)

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Thursday 2020-08-20 16:00 UTC

Initial deadline (for rapporteur's summary in R2-2008185): Thursday 2020-08-20 18:00 UTC

Status: Ongoing

* [AT111e][106][NTN] Idle mode issues (ZTE)

Scope: Discuss the proposals in [R2-2006872](file:///C:\Data\3GPP\Extracts\R2-2006872_Consideration%20on%20system%20information%20and%20cell%20(re)selection%20in%20NTN-v0.docx), [R2-2006973](file:///C:\Data\3GPP\Extracts\R2-2006973.docx), [R2-2007171](file:///C:\Data\3GPP\Extracts\R2-2007171%20Discussion%20on%20RRC_IDLE%20mode%20issues%20in%20NTN.doc) and proposals 1 and 2 in [R2-2007574](file:///C:\Data\3GPP\Extracts\R2-2007574%20-%20Considerations%20on%20satellite%20ephemeris.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Thursday 2020-08-20 16:00 UTC

Initial deadline (for rapporteur's summary in R2-2008187): Thursday 2020-08-20 18:00 UTC

Status: Ongoing

* [AT111e][107][NTN] Pre-compensation and other MAC issues (Interdigital)

Scope: Discuss the proposals in [R2-2007615](file:///C:\Data\3GPP\Extracts\R2-2007615%20(R17%20NTN%20WI%20AI%208.10.2.1%20Summary%20of%20MAC%20open%20issues).docx), [R2-2007616](file:///C:\Data\3GPP\Extracts\R2-2007616%20(R17%20NTN%20WI%20AI%208.10.2.1%20Precompensation).docx), [R2-2006928](file:///C:\Data\3GPP\Extracts\R2-2006928.docx), [R2-2007590](file:///C:\Data\3GPP\Extracts\R2-2007590%20Timing%20Advance,%20Random%20Access%20and%20DRX%20aspects%20in%20NTN.docx) (and possibly other proposals from contributions in 8.10.2.1 focussing on pre-compensation and offset calculations), as well as proposals 1 to 5 in [R2-2007784](file:///C:\Data\3GPP\Extracts\R2-2007784-Consideration%20on%20MAC%20enhancements%20for%20NTN.doc). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Friday 2020-08-21 08:00 UTC

Initial deadline (for rapporteur's summary in R2-2008188): Friday 2020-08-21 10:00 UTC

Status: Ongoing

* [AT111e][108][REDCAP] Scope and skeleton update (Ericsson)

Scope: Discuss the SI scope in [R2-2006910](file:///C:\Data\3GPP\Extracts\R2-2006910%20-%20%20Scope%20of%20Redcap%20SI.docx) and the skeleton update in [R2-2007366](file:///C:\Data\3GPP\Extracts\R2-2007366%20TR38875%20skeleton%20updates%20cover%20page.docx)

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

and skeleton update

Initial deadline (for companies' feedback): Monday 2020-08-24 16:00 UTC

Initial deadline (for rapporteur's summary in R2-2008189): Monday 2020-08-24 18:00 UTC

Status: Ongoing

* [AT111e][109][REDCAP] Reduced capability signalling framework (Intel)

Scope: Discuss the proposals in [R2-2006751](file:///C:\Data\3GPP\Extracts\R2-2006751-redcap-capabilty-framework.docx), [R2-2006911](file:///C:\Data\3GPP\Extracts\R2-2006911%20Framework%20and%20Principles%20for%20Reduced%20Capability.docx) and [R2-2006605](file:///C:\Data\3GPP\Extracts\R2-2006605_Defining%20and%20constraining%20UEs%20with%20reduced%20capabilities.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Monday 2020-08-24 22:00 UTC

Initial deadline (for rapporteur's summary in R2-2008191): Tuesday 2020-08-25 02:00 UTC

Status: Ongoing

* [AT111e][110][REDCAP] Identification and access restriction (Huawei)

Scope: Discuss the proposals in [R2-2007345](file:///C:\Data\3GPP\Extracts\R2-2007345%20Identification%20and%20access%20restriction%20of%20REDCAP%20UE.doc), [R2-2006661](file:///C:\Data\3GPP\Extracts\R2-2006661.docx), [R2-2006786](file:///C:\Data\3GPP\Extracts\R2-2006786%20RedCap%20Identification%20and%20access%20restrictions.doc) and [R2-2007493](file:///C:\Data\3GPP\Extracts\R2-2007493%20-%20On%20UE%20identification%20and%20access%20restrictions.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Monday 2020-08-24 22:00 UTC

Initial deadline (for rapporteur's summary in R2-2008192): Tuesday 2020-08-25 02:00 UTC

Status: Ongoing

* [AT111e][111][REDCAP] DRX aspects (CATT)

Scope: Discuss the proposals in [R2-2007013](file:///C:\Data\3GPP\Extracts\R2-2007013.doc), [R2-2007346](file:///C:\Data\3GPP\Extracts\R2-2007346%20Discussion%20on%20eDRX%20for%20RRC_INACTIVE%20and%20RRC_IDLE.doc), [R2-2007494](file:///C:\Data\3GPP\Extracts\R2-2007494%20eDRX%20for%20reduced%20capability%20UEs.docx) as well as proposals 1 to 4 in [R2-2006748](file:///C:\Data\3GPP\Extracts\R2-2006748_RedCap_PowSav_eDRX-Meas.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Monday 2020-08-24 22:00 UTC

Initial deadline (for rapporteur's summary in R2-2008193): Tuesday 2020-08-25 02:00 UTC

Status: Ongoing

* [AT111e][112][eMIMO] RRC Corrections (Ericsson)

Scope: Continue the discussion on [R2-2007161](file:///C:\Data\3GPP\Extracts\R2-2007161%2038331CR%20Correction%20on%20number%20of%20CORESET%20per%20BWP.docx) and [R2-2007577](file:///C:\Data\3GPP\Extracts\R2-2007577%2038.331%20NReMIMO.docx)

Intended outcome: Agreeable CRs in R2-2008198 and R2-2008199

Initial deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Initial deadline (for final CRs): Wednesday 2020-08-26 09:00 UTC

Status: Ongoing

* [AT111e][113][CLI] RRC CR (LG)

Scope: Revise the CR in [R2-2007989](file:///C:\Data\3GPP\Extracts\R2-2007989%20CR%20on%20CLI%20configuration.docx)

Intended outcome: Agreeable CR in R2-2008201

Initial deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Initial deadline (for final CR): Wednesday 2020-08-26 09:00 UTC

Status: Ongoing

* [AT111e][114][L1enh\_URLLC] RRC CRs (CATT)

Scope: discuss the TP for a possible revision of [R2-2007080](file:///C:\Data\3GPP\Extracts\38331_CR1783r0_(Rel-16)_R2-2007080.docx) and revise [R2-2007862](file:///C:\Data\3GPP\Extracts\R2-2007862%20Converting%20suffix%20ForDCI-Formatx-y%20for%20shorter%20RRC%20parameter%20names.docx)

Intended outcome: Agreeable TP for a possible revision of [R2-2007080](file:///C:\Data\3GPP\Extracts\38331_CR1783r0_(Rel-16)_R2-2007080.docx) in R2-2008202

and agreeable CR in R2-2008203

Initial deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Initial deadline (for TP in R2-2008202 and CR in R2-2008203): Wednesday 2020-08-26 09:00 UTC

Status: Ongoing

## 6.12 NR Other Control Plane WIs

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: [RP-190713](file:///C:\Data\3GPP\archive\RAN\RAN%2383\Tdocs\RP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: [RP-200122](file:///C:\Data\3GPP\archive\RAN\RAN%2387\Tdocs\RP-200122.zip))

Documents in this agenda item will be handled in a break out session

Email max expectation: 3 email threads

RACS

[R2-2006516](file:///C:\Data\3GPP\Extracts\R2-2006516_R3-204147.docx) LS reply on RACS multiple radio capability formats (R3-204147; contact: Huawei) RAN3 LS in Rel-16 RACS-RAN-Core To:SA2 Cc:RAN2, CT4, CT3

* Noted

[R2-2007805](file:///C:\Data\3GPP\Extracts\R2-2007805%20Correction%20on%20the%20UE%20Capability%20presence%20upon%20SN%20addition%20and%20SN%20change.docx) Correction on the UE Capability presence upon SN addition and SN change Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1911 - F RACS-RAN-Core

* Revised in [R2-2008104](file:///C:\Data\3GPP\Extracts\R2-2008104%20Correction%20on%20the%20UE%20Capability%20presence%20upon%20SN%20addition%20and%20SN%20change.docx)

[R2-2008104](file:///C:\Data\3GPP\Extracts\R2-2008104%20Correction%20on%20the%20UE%20Capability%20presence%20upon%20SN%20addition%20and%20SN%20change.docx) Correction on the UE Capability presence upon SN addition and SN change Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.1.0 1911 1 F RACS-RAN-Core

* Initially discussed in offline 103
* Revised in R2-2008204 based on the outcome of offline 103

R2-2008204 Correction on the UE Capability presence upon SN addition and SN change Huawei, HiSilicon, Ericsson CR Rel-16 38.331 16.1.0 1911 2 F RACS-RAN-Core

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[R2-2007806](file:///C:\Data\3GPP\Extracts\R2-2007806%20CR%20on%20UE%20capability%20of%20segmentation%20for%20UE%20capability%20information%20(38.306).docx) CR on UE capability of segmentation for UE capability information Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0392 - F RACS-RAN-Core

* Initially discussed in offline 103
* Revised in [R2-2008205](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008205.zip) based on the outcome of offline 103

[R2-2008205](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008205.zip) CR on UE capability of segmentation for UE capability information Huawei, HiSilicon CR Rel-16 38.306 16.1.0 0392 1 F RACS-RAN-Core

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[R2-2007807](file:///C:\Data\3GPP\Extracts\R2-2007807%20CR%20on%20UE%20capability%20of%20segmentation%20for%20UE%20capability%20information%20(36.306).docx) CR on UE capability of segmentation for UE capability information Huawei, HiSilicon CR Rel-16 36.306 16.1.0 1783 - F RACS-RAN-Core

* Initially discussed in offline 103
* Revised in [R2-2008206](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008206.zip) based on the outcome of offline 103

[R2-2008206](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008206.zip) CR on UE capability of segmentation for UE capability information Huawei, HiSilicon CR Rel-16 36.306 16.1.0 1783 - F RACS-RAN-Core

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* [AT111e][103][RACS] Corrections (Huawei)

Scope: Discuss the CRs in [R2-2008104](file:///C:\Data\3GPP\Extracts\R2-2008104%20Correction%20on%20the%20UE%20Capability%20presence%20upon%20SN%20addition%20and%20SN%20change.docx), [R2-2007806](file:///C:\Data\3GPP\Extracts\R2-2007806%20CR%20on%20UE%20capability%20of%20segmentation%20for%20UE%20capability%20information%20(38.306).docx) and [R2-2007807](file:///C:\Data\3GPP\Extracts\R2-2007807%20CR%20on%20UE%20capability%20of%20segmentation%20for%20UE%20capability%20information%20(36.306).docx)

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

* + - List of CRs that can be agreed as is
    - List of CRs that can be agreed with some changes (with an indication of the needed changes)
    - List of CRs that require online discussion
    - List of CRs that should not be pursued

Initial deadline (for companies' feedback): Wednesday 2020-08-19 07:00 UTC

Initial deadline (for rapporteur's summary in [R2-2008183](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008183.zip)): Wednesday 2020-08-19 09:00 UTC

CRs listed as "can be agreed as is" in [R2-2008183](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008183.zip) and not challenged until Wednesday 2020-08-19 13:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

[R2-2008183](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008183.zip) Summary of offline 103 - RACS corrections Huawei, HiSilicon discussion Rel-16 RACS-RAN-Core

Proposed agreements

Proposal 1: R2-2008104 can be agreed with some changes:

• The changes for EN-DC in the CR also applies to NGEN-DC

• Update the wording to “May not be included if the UE Radio Capability ID as specified in 23.502 [43] is used.”

• The changes for the table should be aligned with the conclusion in offline-007

Proposal 2: R2-2007806 can be agreed with some changes:

• Update the wording to align with the description in 36.306 CR, the beginning of the sentence is corrected as “It is optional for UE to support…”

• Move this capability to a new clause “5.x Other features”

Proposal 3: R2-2007807 can be agreed with some changes:

• Correct the reference from “38.331 [9]” to “36.331 [5]”

Agreements (tentative):

1. R2-2008104 can be agreed with some changes:

• The changes for EN-DC in the CR also applies to NGEN-DC

• Update the wording to “May not be included if the UE Radio Capability ID as specified in 23.502 [43] is used.”

• The changes for the table should be aligned with the conclusion in offline-007

1. R2-2007806 can be agreed with some changes:

• Update the wording to align with the description in 36.306 CR, the beginning of the sentence is corrected as “It is optional for UE to support…”

• Move this capability to a new clause “5.x Other features”

1. R2-2007807 can be agreed with some changes:

• Correct the reference from “38.331 [9]” to “36.331 [5]”

PRN

Stage 2

[R2-2006879](file:///C:\Data\3GPP\Extracts\38300_CR0261_(Rel-16)_R2-2006879_PNI-NPN%20DC%20support.docx) Correction to the support of NR-DC for PNI-NPN Lenovo, Motorola Mobility CR Rel-16 38.300 16.2.0 0261 - F NG\_RAN\_PRN-Core

…

38.304 corrections

[R2-2006634](file:///C:\Data\3GPP\Extracts\38304_CR0176_(Rel-16)_R2-2006634%20Correction%20on%20Naming%20%20of%20the%20List%20of%20Forbidden%20Tracking%20Areas.docx) Correction on Naming of the List of Forbidden Tracking Areas CATT CR Rel-16 38.304 16.1.0 0176 - F NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Changes related to "CAG-ID" (issue 1 in the CR) are endorsed and to be merged in a WI CR for 38.304
* Changes related to the TA (issue 2 in the CR) are not pursued

[R2-2006852](file:///C:\Data\3GPP\Extracts\R2-2006852-CR38304-NPN.docx) Cell selection and reselection corrections for NPNs Nokia, Nokia Shanghai Bell CR Rel-16 38.304 16.1.0 0177 - F NG\_RAN\_PRN-Core, NR\_unlic-Core

* Initially discussed in offline 104
* Changes in 5.2.3.1 (issue 1) in the CR) are not pursued
* Changes related to "Inter-RAT" (issue 2a in the CR) are not pursued
* Discuss other changes online

…

[R2-2007841](file:///C:\Data\3GPP\Extracts\R2-2007841%20Correction%20to%2038.304%20on%20any%20cell%20seletion%20in%20NPN.doc) Correction to 38.304 on any cell seletion in NPN Huawei, HiSilicon CR Rel-16 38.304 16.1.0 0181 - F NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Discuss the CR online after a conclusion on [R2-2007404](file:///C:\Data\3GPP\Extracts\R2-2007404%20-%20Limited%20services%20and%20SNPN%20Access%20Mode.docx)

…

[R2-2007902](file:///C:\Data\3GPP\Extracts\R2-2007902%2038.304%20Correction%20on%20UE%20behavior%20when%20the%20best%20cell%20is%20not%20suitable.docx) 38.304 Correction on UE behavior when the best cell is not suitable vivo CR Rel-16 38.304 16.1.0 0183 - F NG\_RAN\_PRN-Core

=> Revised in [R2-2008114](file:///C:\Data\3GPP\Extracts\R2-2008114%2038.304%20Correction%20on%20UE%20behavior%20when%20the%20best%20cell%20is%20not%20suitable.docx)

[R2-2008114](file:///C:\Data\3GPP\Extracts\R2-2008114%2038.304%20Correction%20on%20UE%20behavior%20when%20the%20best%20cell%20is%20not%20suitable.docx) 38.304 Correction on UE behavior when the best cell is not suitable vivo Nokia,  Nokia Shanghai Bell CR Rel-16 38.304 16.1.0 0183 1 F NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* 1st change is not pursued
* 2nd change ("this cell does not~~is a SNPN cell that~~ belongs to a SNPN that is not equal to the registered or selected SNPN of the UE in SNPN access mode") is endorsed and to be merged in a WI CR for 38.304

R2-2008207 Idle mode corrections for NPN Nokia?? CR Rel-16 36.304 16.1.0 XXXX - F NG\_RAN\_PRN-Core

RRC corrections

Clarification on first NPN-Identity

[R2-2006633](file:///C:\Data\3GPP\Extracts\38331_CR1722_(Rel-16)_R2-2006633%20Correction%20on%20First%20NPN-Identity%20Usage%20for%20SIB%20Validity.docx) Correction on First NPN-Identity Usage for SIB Validity CATT CR Rel-16 38.331 16.1.0 1722 - F NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Discuss the CR online together with [R2-2006853](file:///C:\Data\3GPP\Extracts\R2-2006853-CR38331-NPN.docx)

…

[R2-2007842](file:///C:\Data\3GPP\Extracts\R2-2007842%20Correction%20to%2038.331%20on%20SIB%20validity%20and%20emergency%20services%20for%20NPN.doc) Correction to 38.331 on SIB validity and emergency services for NPN Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1926 - F NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Discuss this CR online together with [R2-2007411](file:///C:\Data\3GPP\Extracts\R2-2007411%20-%20ims-EmergencySupport%20interpretation%20and%20clarification%20for%20SNPN.docx)

…

PNI-NPN related parameter selection

[R2-2006853](file:///C:\Data\3GPP\Extracts\R2-2006853-CR38331-NPN.docx) Corrections for PNI-NPN related parameter selection Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1742 - F NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Discuss the CR online focusing on: 1) how to handle the "selected PNI-NPN" 2) how UE should handle the case when a cell is shared between a PLMN and PNI-NPNs of that PLMN

…

Emergency services support in SNPN Access Mode

[R2-2007411](file:///C:\Data\3GPP\Extracts\R2-2007411%20-%20ims-EmergencySupport%20interpretation%20and%20clarification%20for%20SNPN.docx) ims-EmergencySupport interpretation and clarification for SNPN Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Discuss this CR online together with [R2-2007842](file:///C:\Data\3GPP\Extracts\R2-2007842%20Correction%20to%2038.331%20on%20SIB%20validity%20and%20emergency%20services%20for%20NPN.doc) (after concluding [R2-2007404](file:///C:\Data\3GPP\Extracts\R2-2007404%20-%20Limited%20services%20and%20SNPN%20Access%20Mode.docx))

…

Other

[R2-2008016](file:///C:\Data\3GPP\Extracts\R2-2008016_CR1973_38331_Rel16_Corrections%20to%20IntraFreqCAG-CellPerPLMN%20and%20InterFreqCAG-CellList%20in%20SIB3%20and%20SIB4.docx) Corrections to IntraFreqCAG-CellPerPLMN and InterFreqCAG-CellList in SIB3 and SIB4 Samsung Electronics Co., Ltd CR Rel-16 38.331 16.1.0 1973 - D NG\_RAN\_PRN-Core

* Initially discussed in offline 104
* Changes in the CR are endorsed and to be merged in a WI CR for 38.331
* [AT111e][104][PRN] Stage 3 Corrections (Nokia)

Scope: Discuss the CRs in [R2-2006634](file:///C:\Data\3GPP\Extracts\38304_CR0176_(Rel-16)_R2-2006634%20Correction%20on%20Naming%20%20of%20the%20List%20of%20Forbidden%20Tracking%20Areas.docx), [R2-2006852](file:///C:\Data\3GPP\Extracts\R2-2006852-CR38304-NPN.docx), [R2-2007841](file:///C:\Data\3GPP\Extracts\R2-2007841%20Correction%20to%2038.304%20on%20any%20cell%20seletion%20in%20NPN.doc), [R2-2008114](file:///C:\Data\3GPP\Extracts\R2-2008114%2038.304%20Correction%20on%20UE%20behavior%20when%20the%20best%20cell%20is%20not%20suitable.docx), [R2-2006633](file:///C:\Data\3GPP\Extracts\38331_CR1722_(Rel-16)_R2-2006633%20Correction%20on%20First%20NPN-Identity%20Usage%20for%20SIB%20Validity.docx), [R2-2007842](file:///C:\Data\3GPP\Extracts\R2-2007842%20Correction%20to%2038.331%20on%20SIB%20validity%20and%20emergency%20services%20for%20NPN.doc), [R2-2006853](file:///C:\Data\3GPP\Extracts\R2-2006853-CR38331-NPN.docx), [R2-2007411](file:///C:\Data\3GPP\Extracts\R2-2007411%20-%20ims-EmergencySupport%20interpretation%20and%20clarification%20for%20SNPN.docx) and [R2-2008016](file:///C:\Data\3GPP\Extracts\R2-2008016_CR1973_38331_Rel16_Corrections%20to%20IntraFreqCAG-CellPerPLMN%20and%20InterFreqCAG-CellList%20in%20SIB3%20and%20SIB4.docx)

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

* + - List of CRs that can be agreed as is
    - List of CRs that can be agreed with some changes (with an indication of the needed changes)
    - List of CRs that require online discussion
    - List of CRs that should not be pursued

Initial deadline (for companies' feedback): Wednesday 2020-08-19 07:00 UTC

Initial deadline (for rapporteur's summary in [R2-2008184](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008184.zip)): Wednesday 2020-08-19 09:00 UTC

CRs listed as "can be agreed as is" in [R2-2008184](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008184.zip) and not challenged until Wednesday 2020-08-19 13:00 UTC will be declared as agreed by the session chair. For the other ones, the discussion will continue online.

[R2-2008184](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008184.zip) Summary of offline 104 - PRN corrections Nokia discussion Rel-16 NG\_RAN\_PRN-Core

Proposed agreements via email:

R2-2006634 Correction on Naming of the List of Forbidden Tracking Areas (CATT)

• Endorse the changes related to "CAG-ID" (issue 1 in the CR) and merge them in a WI CR for 38.304.

• Not to pursue the changes related to the TA (issue 2 in the CR).

R2-2006852 Cell selection and reselection corrections for NPNs (Nokia, Nokia Shanghai Bell)

• Not to pursue the changes in 5.2.3.1 (issue 1) in the CR)

• Not to pursue the changes related to "Inter-RAT" (issue 2a in the CR)

R2-2008114 38.304 Correction on UE behavior when the best cell is not suitable (vivo, Nokia, Nokia Shanghai Bell)

• Not to pursue the 1st change

• Endorse the 2nd change ("this cell does notis a SNPN cell that belongs to a SNPN that is not equal to the registered or selected SNPN of the UE in SNPN access mode") and merge in a WI CR for 38.304.

R2-2008016 Corrections to IntraFreqCAG-CellPerPLMN and InterFreqCAG-CellList in SIB3 and SIB4 (Samsung Electronics Co., Ltd)

• Endorse the changes of the CR as it is and merge them in a WI CR for 38.331.

Agreements via email - offline 104:

1. On R2-2006634

• Endorse the changes related to "CAG-ID" (issue 1 in the CR) and merge them in a WI CR for 38.304.

• Not to pursue the changes related to the TA (issue 2 in the CR).

1. On R2-2006852

• Not to pursue the changes in 5.2.3.1 (issue 1) in the CR)

• Not to pursue the changes related to "Inter-RAT" (issue 2a in the CR)

1. On R2-2008114

• Not to pursue the 1st change

• Endorse the 2nd change ("this cell does not~~is a SNPN cell that~~ belongs to a SNPN that is not equal to the registered or selected SNPN of the UE in SNPN access mode") and merge in a WI CR for 38.304.

1. On R2-2008016

• Endorse the changes of the CR as it is and merge them in a WI CR for 38.331.

Proposals for further discussion:

R2-2006852 Cell selection and reselection corrections for NPNs (Nokia, Nokia Shanghai Bell)

• Discuss online except changes in 5.2.3.1 (issue 1 in the CR) changes related to "Inter-RAT" (issue 2a in the CR)

R2-2007841 Correction to 38.304 on any cell seletion in NPN (Huawei, HiSilicon)

• Discuss the CR online after concluding R2-2007404.

R2-2006633 Correction on First NPN-Identity Usage for SIB Validity (CATT)

• Discuss the CR online with R2-2006853.

R2-2007842 Correction to 38.331 on SIB validity and emergency services for NPN (Huawei, HiSilicon)

• Discuss this CR online with R2-2007411

R2-2006853 Corrections for PNI-NPN related parameter selection (Nokia, Nokia Shanghai Bell)

• Discuss the CR online focusing on the following issues

o how to handle the "selected PNI-NPN"

o how UE should handle the case when a cell is shared between a PLMN and PNI-NPNs of that PLMN

R2-2007411 ims-EmergencySupport interpretation and clarification for SNPN (Ericsson)

• Discuss this CR online with R2-2007842 (after concluding R2-2007404)

Other

[R2-2007404](file:///C:\Data\3GPP\Extracts\R2-2007404%20-%20Limited%20services%20and%20SNPN%20Access%20Mode.docx) Limited services and SNPN Access Mode Ericsson discussion Rel-16 NG\_RAN\_PRN-Core

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## 6.13 NR eMIMO

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: [RP-200474](file:///C:\Data\3GPP\archive\RAN\RAN%2387\Tdocs\RP-200474.zip); R2 part completed)

Documents in this agenda item will be handled in a break out session

Email ma*x* expectation: 2 email threads

### 6.13.1 User plane corrections

*MAC corrections*

Candidate RS ID

[R2-2006779](file:///C:\Data\3GPP\Extracts\R2-2006779_CR0784_38321_Rel16_Corrections%20to%20description%20of%20Candidate%20RS%20ID%20in%20BFR%20MAC%20CE.docx) Corrections to description of Candidate RS ID in BFR MAC CE Samsung Electronics Co., Ltd CR Rel-16 38.321 16.1.0 0784 - F NR\_eMIMO-Core

* Initially discussed in offline 101
* Revised in R2-2008194 with changes agreed in the offline 101

R2-2008194 Corrections to description of Candidate RS ID in BFR MAC CE Samsung Electronics Co., Ltd CR Rel-16 38.321 16.1.0 0784 1 F NR\_eMIMO-Core

* Agreed unseen

[R2-2007525](file:///C:\Data\3GPP\Extracts\R2-2007525%20CR%20on%2038.321%20for%20BFR%20MAC%20CE%20design.docx) CR on 38.321 for BFR MAC CE design ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0826 - F NR\_eMIMO-Core

* Initially discussed in offline 101
* Not pursued (as similar changes are covered in R2-2008194)

BFR cancellation

[R2-2006797](file:///C:\Data\3GPP\Extracts\R2-2006797%2038321%20CR0785%20Clarification%20on%20the%20BFR%20MAC%20CE%20report.docx) Clarification on the BFR MAC CE report vivo CR Rel-16 38.321 16.1.0 0785 - F NR\_eMIMO-Core

* Initially discussed in offline 101
* Vivo would like to clarify that NR is different from LTE and there would be some drawback in not accepting the CR. However they are ok to go for the majority view
* Not pursued

[R2-2007485](file:///C:\Data\3GPP\Extracts\R2-2007485%20Correction%20on%20the%20BFR%20cancellation.docx) Correction on the BFR cancellation Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0824 - F NR\_eMIMO-Core

* Initially discussed in offline 101
* Revised in R2-2008195 with changes agreed in the offline 101

R2-2008195 Correction on the BFR cancellation Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.1.0 0824 - F NR\_eMIMO-Core

* Agreed unseen

[R2-2007736](file:///C:\Data\3GPP\Extracts\R2-2007736%20CR0837_BFR%20Cancellation%20regarding%20MAC%20reset.docx) BFR Cancellation regarding MAC reset ASUSTek CR Rel-16 38.321 16.1.0 0837 - F NR\_eMIMO-Core

* Initially discussed in offline 101
* Agreed

BFR procedure

[R2-2007526](file:///C:\Data\3GPP\Extracts\R2-2007526%20CR%20on%2038.321%20for%20BFR%20procedure.docx) CR on 38.321 for BFR procedue ZTE Corporation, Sanechips CR Rel-16 38.321 16.1.0 0827 - F NR\_eMIMO-Core

* Initially discussed in offline 101
* ZTE wonders if all companies agree that with the acronym BFR we refer to Scell Beam Failure Recovery. CATT, Samsung, Qualcomm and Intel think the suggested correction is correct but maybe not essential. Ericsson thinks that this would be misleading in the SpCell case.
* Not pursued

Other corrections

[R2-2007895](file:///C:\Data\3GPP\RAN2\Docs\R2-2007895.zip) Correction on AP and SP SRS MAC-CE Asia Pacific Telecom co. Ltd discussion NR\_eMIMO-Core

* Initially discussed in offline 101
* Nokia thinks we already have similar text in 5.18.13 so we don't need the change. Samsung is fine with proposal in TP1, at the same time voiding section 5.18.13. Nokia could accept that, but think we need to check all aspects, including the title of the section
* For the second change, Ericsson suggests to use the same wording as in the Rel-15 MAC CE
* Draft an actual CR in R2-2008196 based on the status of the offline discussion (considering both proposals 1&2)
* Continue in the follow-up of offline 101

R2-2008196 Correction on AP and SP SRS MAC-CE Asia Pacific Telecom co. Ltd CR Rel-16 38.321 16.1.0 XXXX - F NR\_eMIMO-Core

[R2-2008053](file:///C:\Data\3GPP\Extracts\R2-2008053.docx) Correction on the definition of Ci field in BFR MAC CE Qualcomm Incorporated draftCR Rel-16 38.321 16.1.0 F NR\_eMIMO-Core

* Initially discussed in offline 101
* Vivo thinks the problem described in the CR is related to RAN1 or RAN4 and should be discussed there first.
* Ericsson would not like to change the definition of the Ci field. Also think that this could be address in RAN4 to change the timing requirements.
* Continue in the follow-up of offline 101
* [AT111e][101][eMIMO] MAC corrections (Samsung)

Initial scope: Discuss the CRs in [R2-2006779](file:///C:\Data\3GPP\Extracts\R2-2006779_CR0784_38321_Rel16_Corrections%20to%20description%20of%20Candidate%20RS%20ID%20in%20BFR%20MAC%20CE.docx), [R2-2007525](file:///C:\Data\3GPP\Extracts\R2-2007525%20CR%20on%2038.321%20for%20BFR%20MAC%20CE%20design.docx), [R2-2006797](file:///C:\Data\3GPP\Extracts\R2-2006797%2038321%20CR0785%20Clarification%20on%20the%20BFR%20MAC%20CE%20report.docx), [R2-2007485](file:///C:\Data\3GPP\Extracts\R2-2007485%20Correction%20on%20the%20BFR%20cancellation.docx), [R2-2007736](file:///C:\Data\3GPP\Extracts\R2-2007736%20CR0837_BFR%20Cancellation%20regarding%20MAC%20reset.docx), [R2-2007526](file:///C:\Data\3GPP\Extracts\R2-2007526%20CR%20on%2038.321%20for%20BFR%20procedure.docx), [R2-2007895](file:///C:\Data\3GPP\Extracts\._R2-2007895.doc) and [R2-2008053](file:///C:\Data\3GPP\Extracts\R2-2008053.docx)

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

* + - List of CRs that can be agreed as is
    - List of CRs that can be agreed with some changes (with an indication of the needed changes)
    - List of CRs that require online discussion
    - List of CRs that should not be pursued

Initial deadline (for companies' feedback): Tuesday 2020-08-18 07:00 UTC

Initial deadline (for rapporteur's summary in [R2-2008181](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008181.zip)): Tuesday 2020-08-18 09:00 UTC

Updated scope: Draft the CR in R2-2008196 and continue the discussion on [R2-2008053](file:///C:\Data\3GPP\Extracts\R2-2008053.docx), e.g. to see whether this issue should be addressed in RAN2 or other groups.

Updated intended outcome: Agreeable CR in R2-2008196 and summary of the discussion in R2-2008197

New deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Updated deadline (for rapporteur's summary in R2-2008197): Wednesday 2020-08-26 09:00 UTC

[R2-2008181](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008181.zip) Summary of offline 101 - MAC corrections for eMIMO Samsung discussion Rel-16 NR\_eMIMO-Core

Proposal 1: Agree the CR R2-2006779 with TP as shown below:

“Candidate RS ID: This field is set to the index of an SSB with SS-RSRP above rsrp-ThresholdBFR amongst the SSBs in candidateBeamRSSCellList or to the index of a CSI-RS with CSI-RSRP above rsrp-ThresholdBFR amongst the CSI-RSs in candidateBeamRSSCellList. Index of an SSB or CSI-RS is the index of an entry in candidateBeamRSSCellList corresponding to the SSB or CSI-RS. Index 0 corresponds to the first entry in the candidateBeamRSSCellList, index 1 corresponds to the second entry in the list and so on. The length of this field is 6 bits.”

Proposal 2: Agree the CR R2-2007736 as is.

Proposal 3: Agree the CR R2-2007485 with TP as shown below:

“Pending SR triggered prior to the MAC PDU assembly for beam failure recovery of an SCell shall be cancelled and respective sr-ProhibitTimer shall be stopped when the MAC PDU is transmitted and this PDU includes an BFR MAC CE or Truncated BFR MAC CE which contains beam failure recovery information of that SCell. Pending SR triggered for beam failure recovery of an SCell shall be cancelled upon deactivation of that SCell (as defined in clause 5.9).”

Proposal 4: The CRs CR R2-2006797 and R2-2007526 are not pursued.

Proposal 5: Further discuss the CR R2-2008053 online.

Proposal 6: Approve the Text Proposal 1 (in R2-2007895) for activation/deactivation of SP SRS resource set. The redundant sub-clause 5.18.8 is removed (i.e. can be Voided).

Agreements:

1. Agree the CR R2-2006779 with TP as shown below:

“Candidate RS ID: This field is set to the index of an SSB with SS-RSRP above rsrp-ThresholdBFR amongst the SSBs in candidateBeamRSSCellList or to the index of a CSI-RS with CSI-RSRP above rsrp-ThresholdBFR amongst the CSI-RSs in candidateBeamRSSCellList. Index of an SSB or CSI-RS is the index of an entry in candidateBeamRSSCellList corresponding to the SSB or CSI-RS. Index 0 corresponds to the first entry in the candidateBeamRSSCellList, index 1 corresponds to the second entry in the list and so on. The length of this field is 6 bits.”

1. Agree the CR R2-2007736 as is.
2. Agree the CR R2-2007485 with TP as shown below (also keep the change in 5.17)

“Pending SR triggered prior to the MAC PDU assembly for beam failure recovery of an SCell shall be cancelled and respective sr-ProhibitTimer shall be stopped when the MAC PDU is transmitted and this PDU includes an BFR MAC CE or Truncated BFR MAC CE which contains beam failure recovery information of that SCell. Pending SR triggered for beam failure recovery of an SCell shall be cancelled upon deactivation of that SCell (as defined in clause 5.9).

4. The CRs CR R2-2006797 and R2-2007526 are not pursued.

R2-2008197 Summary of offline 101 - MAC corrections for eMIMO - second round Samsung discussion Rel-16 NR\_eMIMO-Core

On LS exchange with RAN1

[R2-2007575](file:///C:\Data\3GPP\Extracts\R2-2007575%20MAC%20CE%20SRS.docx) On serving cell set based SRS spatial relation indication MAC CE Ericsson discussion Rel-16 NR\_eMIMO-Core

* Comeback during the CB session next week (if a reply LS will be received from RAN1)

Withdrawn

[R2-2007544](file:///C:\Data\3GPP\Extracts\R2-2007544.docx) Correction on the definition of Ci field in BFR MAC CE Qualcomm Incorporated draftCR Rel-16 38.321 16.1.0 F NR\_eMIMO-Core Withdrawn

### 6.13.2 Control plane corrections

[R2-2007161](file:///C:\Data\3GPP\Extracts\R2-2007161%2038331CR%20Correction%20on%20number%20of%20CORESET%20per%20BWP.docx) Correction on number of CORESETs per BWP OPPO CR Rel-16 38.331 16.1.0 1793 - F NR\_eMIMO-Core

* Ericsson thinks the first change was already in an original TP and lost in the implementation. So it's ok to have. However Ericsson thinks that we should keep the sentence on Rel-15. For Rel-16 we don't need an additional sentence because there is an UE capability for this.
* Huawei thinks we cannot simply change 3 to 5, as this depends on UE capability.
* Continue the discussion in offline 112
* Revised in R2-2008198

R2-2008198 Correction on number of CORESETs per BWP OPPO CR Rel-16 38.331 16.1.0 1793 1 F NR\_eMIMO-Core

[R2-2007577](file:///C:\Data\3GPP\Extracts\R2-2007577%2038.331%20NReMIMO.docx) Miscellaneous eMIMO corrections Ericsson CR Rel-16 38.331 16.1.0 1863 - F NR\_eMIMO-Core

* Nokia is fine to remove the text in the first change and also remove "that is configured". But they would not like to use the wording "UE may expect to…". QC is fine with the principle of the CR but would like to consider other similar changes for other modes. Apple suggests to indicate which RAN1 spec, not only the sub-clause.
* continue the discussion in offline 112
* Revised in R2-2008199

R2-2008199 Miscellaneous eMIMO corrections Ericsson CR Rel-16 38.331 16.1.0 1863 - F NR\_eMIMO-Core

* [AT111e][112][eMIMO] RRC Corrections (Ericsson)

Scope: Continue the discussion on [R2-2007161](file:///C:\Data\3GPP\Extracts\R2-2007161%2038331CR%20Correction%20on%20number%20of%20CORESET%20per%20BWP.docx) and [R2-2007577](file:///C:\Data\3GPP\Extracts\R2-2007577%2038.331%20NReMIMO.docx)

Intended outcome: Agreeable CRs in R2-2008198 and R2-2008199

Initial deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Initial deadline (for final CRs): Wednesday 2020-08-26 09:00 UTC

## 6.14 NR Other R1 WIs

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: [RP-191997](file:///C:\Data\3GPP\archive\RAN\RAN%2385\Tdocs\RP-191997.zip);)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-191584](file:///C:\Data\3GPP\archive\RAN\RAN%2384\Tdocs\RP-191584.zip))

(R1 Led NR TEI16, Other R1 led items)

Documents in this agenda item will be handled in a break out session

Email max expectation: 5 email threads

### 6.14.1 User plane corrections

### 6.14.2 Control plane corrections

CLI - Reply LS from RAN3 and related discussion

[R2-2006524](file:///C:\Data\3GPP\Extracts\R2-2006524_R3-204399.docx) Response LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI R3-204399; contact: ZTE) RAN3 LS in Rel-16 NR\_CLI\_RIM To:RAN2, RAN1 Cc:RAN4

* Discussed in offline 102
* Noted

[R2-2006898](file:///C:\Data\3GPP\Extracts\R2-2006898%20Discussion%20on%20RAN3%20LS%20about%20SRS%20resource%20exchange.docx) Discussion on RAN3 LS about SRS exchange ZTE Corporation, Sanechips discussion Rel-16 NR\_CLI\_RIM-Core

* Discussed in offline 102
* Noted

[R2-2007355](file:///C:\Data\3GPP\Extracts\R2-2007355-SRS-RSRP%20Xn.docx) Exchange of SRS Information across GNB for UE CLI Nokia, Nokia Shanghai Bell discussion Rel-16

* Discussed in offline 102
* Noted

[R2-2006899](file:///C:\Data\3GPP\Extracts\R2-2006899%20Draft%20reply%20LS%20on%20exchange%20of%20information%20related%20to%20SRS-RSRP%20measurement%20resource%20configuration%20for%20UE-CLI.doc) Draft reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI ZTE Corporation LS out Rel-16 NR\_CLI\_RIM-Core To:RAN3 Cc:RAN1, RAN4

* Revised in [R2-2008182](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008182.zip) based on the outcome of offline 102

[R2-2008182](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008182.zip) Draft reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI ZTE Corporation LS out Rel-16 NR\_CLI\_RIM-Core To:RAN3 Cc:RAN1, RAN4

* QCs think the latest version is a reduced version of what was discussion but it's acceptable for them.
* Huawei and Ericsson think that the frequency is up to gNB implementation and there is no additional information that we can provide.
* LG and ZTE think that for this CLI measurement purpose the SRS configuration would be semi-static. QC agrees.
* Continue the discussion in a follow-up of offline 102
* Revised in R2-2008200

R2-2008200 Draft reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI ZTE Corporation LS out Rel-16 NR\_CLI\_RIM-Core

[R2-2007356](file:///C:\Data\3GPP\Extracts\R2-2007356-Draft-LS-Response.docx) [Draft] Reply LS to the LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Nokia, Nokia Shanghai Bell LS out Rel-16 NR\_CLI\_RIM To:RAN3 Cc:RAN4

* Discussed in offline 102
* Noted

[R2-2007851](file:///C:\Data\3GPP\Extracts\R2-2007851%20Draft%20LS%20on%20Update%20frequency%20of%20SRS-RSRP%20configuration%20for%20CLI.doc) Draft LS on Update frequency of SRS-RSRP configuration for CLI Samsung LS out Rel-16 NR\_CLI\_RIM To:RAN WG3 Cc:RAN WG1, RAN WG4

* Discussed in offline 102
* Noted
* [AT111e][102][CLI] Reply LS to RAN3 (ZTE)

Scope: Attempt drafting a reply LS to the incoming LS in [R2-2006524](file:///C:\Data\3GPP\Extracts\R2-2006524_R3-204399.docx) based on the related contributions in [R2-2006898](file:///C:\Data\3GPP\Extracts\R2-2006898%20Discussion%20on%20RAN3%20LS%20about%20SRS%20resource%20exchange.docx) and [R2-2007355](file:///C:\Data\3GPP\Extracts\R2-2007355-SRS-RSRP%20Xn.docx) and draft reply LS proposals in [R2-2006899](file:///C:\Data\3GPP\Extracts\R2-2006899%20Draft%20reply%20LS%20on%20exchange%20of%20information%20related%20to%20SRS-RSRP%20measurement%20resource%20configuration%20for%20UE-CLI.doc), [R2-2007356](file:///C:\Data\3GPP\Extracts\R2-2007356-Draft-LS-Response.docx) and [R2-2007851](file:///C:\Data\3GPP\Extracts\R2-2007851%20Draft%20LS%20on%20Update%20frequency%20of%20SRS-RSRP%20configuration%20for%20CLI.doc)

Initial intended outcome: initial draft reply LS to RAN3 in [R2-2008182](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008182.zip):

Initial deadline (for companies' feedback): Tuesday 2020-08-18 10:00 UTC

Initial deadline (for initial draft reply LS in [R2-2008182](file:///C:\Data\3GPP\RAN2\Inbox\R2-2008182.zip)): Tuesday 2020-08-18 12:00 UTC

Updated Scope: Continue the discussion and attempt a revision of the reply LS

Updated intended outcome: revised draft reply LS to RAN3 in R2-2008200

Updated interim deadline (for companies' feedback): Friday 2020-08-21 00:00 UTC

Updated interim deadline (for revised draft reply LS in R2-2008200): Friday 2020-08-21 02:00 UTC

If the draft reply LS in R2-2008200 will be not challenged until Friday 2020-08-21 08:00 UTC, it will be declared as agreed by the session chair. Otherwise the discussion will continue until the CB online session on Wednesday 2020-08-26.

CLI - other

[R2-2007989](file:///C:\Data\3GPP\Extracts\R2-2007989%20CR%20on%20CLI%20configuration.docx) CR on CLI configuration LG Electronics Inc. CR Rel-16 38.331 16.1.0 1960 - F NR\_CLI\_RIM

* QC thinks this should have been submitted as a revision of the in-principle agreed CR. Interoperability should be added and "other specs affected" could be removed.
* Samsung thinks we should discuss whether to have a NBC change or not. For this CR this is fine. Also Ericsson agrees.
* Revised in R2-2008201, putting a reference in the cover page to the IPA CR that was not included in the final CR in June. Remove "other specs affected". Also include the interoperability part
* Discussed in offline 113

R2-2008201 CR on CLI configuration LG Electronics Inc. CR Rel-16 38.331 16.1.0 1960 1 F NR\_CLI\_RIM

* [AT111e][113][CLI] RRC CR (LG)

Scope: Revise the CR in [R2-2007989](file:///C:\Data\3GPP\Extracts\R2-2007989%20CR%20on%20CLI%20configuration.docx)

Intended outcome: Agreeable CR in R2-2008201

Initial deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Initial deadline (for final CR): Wednesday 2020-08-26 09:00 UTC

L1enh\_URLLC

[R2-2007080](file:///C:\Data\3GPP\Extracts\38331_CR1783r0_(Rel-16)_R2-2007080.docx) PUCCH configuration with subslotLengthForPUCCH-r16 CATT CR Rel-16 38.331 16.1.0 1783 - F NR\_L1enh\_URLLC-Core

* Ericsson thinks this should be captured in RAN1 specs. Huawei thinks this should be captured somewhere and this is not in RAN1 spec at the moment. ZTE thinks the principle is ok but would like to have more time to check where the description should go
* CATT suggests that the topic for the offline could be to discuss the wording for a possible RRC CR \*IF\* RAN1 will decide that this will not be described in RAN1 specs.
* Continue in offline 114

[R2-2007862](file:///C:\Data\3GPP\Extracts\R2-2007862%20Converting%20suffix%20ForDCI-Formatx-y%20for%20shorter%20RRC%20parameter%20names.docx) Converting suffix ForDCI-Formatx-y for shorter RRC parameter names Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1937 - F NR\_L1enh\_URLLC-Core

* Nokia thinks this a good idea. QC thinks that in the main session it was agreed to do this and also inform RAN1. Ericsson is fine with this.
* Ok with the principle but the CR needs revision.
* Revised in R2-2008203
* Continue in offline 114

R2-2008203 Converting suffix ForDCI-Formatx-y for shorter RRC parameter names Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1937 1 F NR\_L1enh\_URLLC-Core

* [AT111e][114][L1enh\_URLLC] RRC CRs (CATT)

Scope: discuss the TP for a possible revision of [R2-2007080](file:///C:\Data\3GPP\Extracts\38331_CR1783r0_(Rel-16)_R2-2007080.docx) and revise [R2-2007862](file:///C:\Data\3GPP\Extracts\R2-2007862%20Converting%20suffix%20ForDCI-Formatx-y%20for%20shorter%20RRC%20parameter%20names.docx)

Intended outcome: Agreeable TP for a possible revision of [R2-2007080](file:///C:\Data\3GPP\Extracts\38331_CR1783r0_(Rel-16)_R2-2007080.docx) in R2-2008202

and agreeable CR in R2-2008203

Initial deadline (for companies' feedback): Wednesday 2020-08-26 07:00 UTC

Initial deadline (for TP in R2-2008202 and CR in R2-2008203): Wednesday 2020-08-26 09:00 UTC

R2-2008202 Summary of offline 114 - TP for PUCCH configuration with subslotLengthForPUCCH-r16 CATT discussion NR\_L1enh\_URLLC-Core

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: [RP-201256](file:///C:\Data\3GPP\archive\RAN\RAN%2388\Tdocs\RP-201256.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.10.1 Scope, requirements, scenarios, architecture

E.g. understand the WID, confirm the scenarios that shall be addressed, the role of and architecture for Location Service.

Workplan

[R2-2007565](file:///C:\Data\3GPP\Extracts\R2-2007565%20-%20Rel17%20NR-NTN%20workplan.docx) NR\_NTN\_solutions work plan THALES Work Plan Rel-17

* Revised in R2-2008186 based on the outcome of offline 105

R2-2008186 NR\_NTN\_solutions work plan THALES Work Plan Rel-17

…

[R2-2007431](file:///C:\Data\3GPP\Extracts\R2-2007431%20Discussion%20on%20NTN%20workplan.docx) Discussion on NTN workplan CMCC discussion Rel-17 NR\_NTN\_solutions-Core

Incoming LSs

[R2-2006514](file:///C:\Data\3GPP\Extracts\R2-2006514_R3-202824.doc) Response LS on the “LS out on Location of UEs and associated key issues” (R3-202824; contact: Thales) RAN3 LS in Rel-17 FS\_5GSAT\_ARCH To:SA2, RAN2, SA3-LI

* Noted

[R2-2006532](file:///C:\Data\3GPP\Extracts\R2-2006532_S3i200056.doc) Response LS on the “LS OUT on Location of UEs and associated key issues” (S3i200056; contact: Rogers) SA3-LI LS in Rel-17 FS\_5GSAT\_ARCH To:SA2, RAN2, RAN3 Cc:SA1

* Noted

[R2-2006530](file:///C:\Data\3GPP\Extracts\R2-2006530_S2-2004688.doc) LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G (S2-2004688; contact: Qualcomm) SA2 LS in Rel-17 FS\_5GSAT\_ARCH To:RAN2, RAN3, CT1

…

[R2-2006971](file:///C:\Data\3GPP\Extracts\R2-2006971.doc) Discussion of SA2 LS on fixed cell identity Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

…

[R2-2006972](file:///C:\Data\3GPP\Extracts\R2-2006972.doc) [Draft] LS Reply on SA WG2 assumptions on architecture aspects for using Qualcomm Inc LS out Rel-17 NR\_NTN\_solutions-Core To:SA2 Cc:RAN3, CT1

…

Scope & scenarios

[R2-2007572](file:///C:\Data\3GPP\Extracts\R2-2007572%20-%20NR%20NTN%20reference%20scenarios.docx) NR NTN Reference scenarios definition for Rel-17 normative phase THALES discussion Rel-17

* Discussed in offline 105

[R2-2007537](file:///C:\Data\3GPP\Extracts\R2-2007537%20NTN%20Overview.docx) NTN scope, scenarios, architecture, and requirements Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 105

[R2-2006630](file:///C:\Data\3GPP\Extracts\R2-2006630_Further%20Clarifications%20on%20the%20NTN%20WID.docx) Further Clarifications on the NTN WID CATT discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 105
* [AT111e][105][NTN] Workplan, scope and scenarios (Thales)

Scope: Discuss the workplan in [R2-2007565](file:///C:\Data\3GPP\Extracts\R2-2007565%20-%20Rel17%20NR-NTN%20workplan.docx) and the proposals in [R2-2007572](file:///C:\Data\3GPP\Extracts\R2-2007572%20-%20NR%20NTN%20reference%20scenarios.docx), [R2-2007537](file:///C:\Data\3GPP\Extracts\R2-2007537%20NTN%20Overview.docx), [R2-2006630](file:///C:\Data\3GPP\Extracts\R2-2006630_Further%20Clarifications%20on%20the%20NTN%20WID.docx) (and possibly others from contributions in 8.10.1)

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Thursday 2020-08-20 16:00 UTC

Initial deadline (for rapporteur's summary in R2-2008185): Thursday 2020-08-20 18:00 UTC

R2-2008185 Summary of offline 105 - NTN Workplan, scope and scenarios Thales discussion Rel-16 NR\_NTN\_solutions-Core

[R2-2006941](file:///C:\Data\3GPP\Extracts\R2-2006941_For8.10.1_NTN_WI_ObservationsProposals_Samsung.doc) NTN WI- Overall Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2007143](file:///C:\Data\3GPP\Extracts\R2-2007143%20Discussion%20on%20task%20prioritization%20for%20NR%20NTN.DOC) Discussion on task prioritization for NR NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007363](file:///C:\Data\3GPP\Extracts\R2-2007363%20%20On%20the%20scenarios%20and%20simulation%20assumptions%20for%20evaluating%20NTN%20mobility.docx) On the scenarios and simulation assumptions for evaluating NTN mobility Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

Positioning

[R2-2006699](file:///C:\Data\3GPP\Extracts\R2-2006699_NR-NTN_Positioning.doc) NR-NTN: Positioning Methods Fraunhofer IIS, Fraunhofer HHI discussion Rel-17 38.821

[R2-2007185](file:///C:\Data\3GPP\Extracts\R2-2007185.doc) Location Services in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.2 User Plane

In particular, initial focus on getting a common understanding of pre-compensation and offsets.

#### 8.10.2.1 MAC aspects

[R2-2007615](file:///C:\Data\3GPP\Extracts\R2-2007615%20(R17%20NTN%20WI%20AI%208.10.2.1%20Summary%20of%20MAC%20open%20issues).docx) Summary of MAC open issues in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 107

[R2-2007616](file:///C:\Data\3GPP\Extracts\R2-2007616%20(R17%20NTN%20WI%20AI%208.10.2.1%20Precompensation).docx) Pre-compensation and offset calculation in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 107

[R2-2006928](file:///C:\Data\3GPP\Extracts\R2-2006928.docx) Timing advance for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 107

[R2-2007590](file:///C:\Data\3GPP\Extracts\R2-2007590%20Timing%20Advance,%20Random%20Access%20and%20DRX%20aspects%20in%20NTN.docx) Timing Advance, Random Access and DRX aspects in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 107

[R2-2007784](file:///C:\Data\3GPP\Extracts\R2-2007784-Consideration%20on%20MAC%20enhancements%20for%20NTN.doc) Consideration on MAC enhancements for NTN ZTE Corporation, Sanechips discussion Rel-17

* Proposals 1 to 5 discussed in offline 107
* [AT111e][107][NTN] Pre-compensation and other MAC issues (Interdigital)

Scope: Discuss the proposals in [R2-2007615](file:///C:\Data\3GPP\Extracts\R2-2007615%20(R17%20NTN%20WI%20AI%208.10.2.1%20Summary%20of%20MAC%20open%20issues).docx), [R2-2007616](file:///C:\Data\3GPP\Extracts\R2-2007616%20(R17%20NTN%20WI%20AI%208.10.2.1%20Precompensation).docx), [R2-2006928](file:///C:\Data\3GPP\Extracts\R2-2006928.docx), [R2-2007590](file:///C:\Data\3GPP\Extracts\R2-2007590%20Timing%20Advance,%20Random%20Access%20and%20DRX%20aspects%20in%20NTN.docx) (and possibly other proposals from contributions in 8.10.2.1 focussing on pre-compensation and offset calculations), as well as proposals 1 to 5 in [R2-2007784](file:///C:\Data\3GPP\Extracts\R2-2007784-Consideration%20on%20MAC%20enhancements%20for%20NTN.doc). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Friday 2020-08-21 08:00 UTC

Initial deadline (for rapporteur's summary in R2-2008188): Friday 2020-08-21 10:00 UTC

R2-2008188 Summary of offline 107 - Pre-compensation and other MAC issues Interdigital discussion Rel-16 NR\_NTN\_solutions-Core

[R2-2006631](file:///C:\Data\3GPP\Extracts\R2-2006631%20Discussion%20on%20MAC%20Enhancement%20and%20Impact%20for%20NTN.docx) Discussion on MAC Enhancement and Impact for NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006638](file:///C:\Data\3GPP\Extracts\R2-2006638_On%20Updating%20MAC%20Timers%20in%20NR-NTN_v2.0.docx) On Updating MAC Timers in NR-NTN MediaTek Inc. discussion

[R2-2006702](file:///C:\Data\3GPP\Extracts\R2-2006702_MAC_NTN.docx) Enhancements for NTN on MAC Layer – Impact Analysis on TS Nomor Research GmbH, Thales discussion Rel-17

[R2-2006781](file:///C:\Data\3GPP\Extracts\R2-2006781%20-%20Consideration%20on%20MAC%20enhancement%20for%20NTN.docx) Consideration on MAC enhancement for NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006799](file:///C:\Data\3GPP\Extracts\R2-2006799%20Discussion%20on%20DRX%20and%20BSR%20in%20NTN.docx) Discussion on DRX and BSR in NTN PANASONIC R&D Center Germany discussion

[R2-2006927](file:///C:\Data\3GPP\Extracts\R2-2006927.docx) MAC issues for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006943](file:///C:\Data\3GPP\Extracts\R2-2006943_For8.10.2.1_MAC_UP_ObservationsProposals_Samsung.doc) MAC User Plane Enhancements for an NTN- Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2006974](file:///C:\Data\3GPP\Extracts\R2-2006974.doc) UP aspects including Random Access procedure enhancements Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007056](file:///C:\Data\3GPP\Extracts\R2-2007056.doc) Introducing offsets in MAC Spreadtrum Communications discussion

[R2-2007103](file:///C:\Data\3GPP\Extracts\._R2-2007103%20On%20Timing%20Advance%20for%20NTN%20Networks.docx) On Timing Advance for NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007104](file:///C:\Data\3GPP\Extracts\._R2-2007104%20On%20Preamble%20Ambiguity%20in%20NTN%20networks.docx) On Preamble Ambiguity in NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007105](file:///C:\Data\3GPP\Extracts\._R2-2007105%20On%20User%20Plane%20Latency%20Reduction%20Mechanisms%20in%20NTN%20Networks.docx) On User Plane Latency reduction mechanisms in NTN Networks Apple discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007176](file:///C:\Data\3GPP\Extracts\R2-2007176_Discussion%20on%20UL%20scheduling%20enhancement.doc) Discussion on UL scheduling enhancement Beijing Xiaomi Electronics discussion

[R2-2007186](file:///C:\Data\3GPP\Extracts\R2-2007186.doc) MAC enhancements in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007397](file:///C:\Data\3GPP\Extracts\R2-2007397%20Consideration%20on%20TA%20Precompensation.doc) Consideration on TA Precompensation Beijing Xiaomi Mobile Software discussion Rel-17

[R2-2007428](file:///C:\Data\3GPP\Extracts\R2-2007428%20Discussion%20of%20HARQ%20feedback%20for%20NTN.docx) Discussion of HARQ feedback for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007430](file:///C:\Data\3GPP\Extracts\R2-2007430%20Discussion%20on%20TA%20compensation.docx) Discussion on TA compensation CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007474](file:///C:\Data\3GPP\Extracts\R2-2007474%20Timing%20advance%20pre-compensation%20in%20NTN.docx) Timing advance pre-compensation in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007477](file:///C:\Data\3GPP\Extracts\R2-2007477%20Discussion%20on%20DRX%20in%20NTN-v1.0.doc) Discussion on DRX for NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007617](file:///C:\Data\3GPP\Extracts\R2-2007617%20(R17%20NTN%20WI%20AI%208.10.2.1%20RACH%20preamble%20ambiguity).docx) RACH preamble ambiguity in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007712](file:///C:\Data\3GPP\Extracts\R2-2007712_Impact%20of%20pre-compensation%20on%20RACH%20capacity%20for%20NTN.docx) Impact of pre-compensation on RACH capacity for NTN NEC Telecom MODUS Ltd. discussion Rel-17

[R2-2007714](file:///C:\Data\3GPP\Extracts\R2-2007714%20-%20On%20scheduling%20HARQ%20DRX%20RLC%20and%20PDCP%20for%20NTN.docx) On scheduling, HARQ, DRX, RLC, and PDCP for NTN Ericsson discussion Rel-17 NR\_NTN\_solutions

[R2-2007715](file:///C:\Data\3GPP\Extracts\R2-2007715%20-%20On%20Random%20Access%20in%20NTN.docx) On Random Access in NTN Ericsson discussion Rel-17 NR\_NTN\_solutions

[R2-2007888](file:///C:\Data\3GPP\Extracts\R2-2007888_Discussion%20on%20MAC%20aspects%20for%20NTN_r1.DOCX) Discussion on MAC aspects for NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007995](file:///C:\Data\3GPP\Extracts\R2-2007995%20MAC%20enhancements%20on%20the%20initial%20access%20procedures%20for%20NTN.docx) MAC enhancements on the initial access procedures for NTN ETRI discussion Rel-17

[R2-2008101](file:///C:\Data\3GPP\Extracts\R2-2008101.docx) Considerations on RACH procedure enhancements in NTN CAICT discussion Late

Withdrawn

[R2-2007519](file:///C:\Data\3GPP\Extracts\R2-2007519_Impact%20of%20pre-compensation%20on%20RACH%20capacity%20for%20NTN.docx) Impact of pre-compensation on RACH capacity for NTN NEC Telecom MODUS Ltd. agenda Withdrawn

#### 8.10.2.2 Other aspects

[R2-2006640](file:///C:\Data\3GPP\Extracts\R2-2006640_Updating%20RLC%20and%20PDCP%20in%20NR-NTN_v2.0.docx) RLC and PDCP Enhancements in NR-NTN MediaTek Inc. discussion

[R2-2006703](file:///C:\Data\3GPP\Extracts\R2-2006703_RLC_NTN.doc) Enhancements for NTN on RLC Control Loops and Timers Nomor Research GmbH, Thales discussion Rel-17

[R2-2006705](file:///C:\Data\3GPP\Extracts\R2-2006705_PDCP_NTN.doc) Enhancements for NTN on PDCP Control Loops and Timers Nomor Research GmbH, Thales discussion Rel-17

[R2-2006782](file:///C:\Data\3GPP\Extracts\R2-2006782%20-%20Consideration%20on%20RLC%20and%20PDCP%20enhancement%20for%20NTN.docx) Consideration on RLC and PDCP enhancements for NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007172](file:///C:\Data\3GPP\Extracts\R2-2007172%20Discussion%20on%20UP%20enhancement%20in%20NTN.doc) Discussion on UP enhancement in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007573](file:///C:\Data\3GPP\Extracts\R2-2007573%20-%20On%20NTN%20Feeder%20link%20switch%20over.docx) On NTN Feeder link switch over THALES discussion

[R2-2007785](file:///C:\Data\3GPP\Extracts\R2-2007785-Consideration%20on%20UP%20timers%20and%20RLC-PDCP%20SN%20for%20NTN.doc) Consideration on UP timers and RLC/PDCP SN for NTN ZTE Corporation, Sanechips discussion Rel-17

[R2-2007889](file:///C:\Data\3GPP\Extracts\R2-2007889_Discussion%20on%20RLC%20and%20PDCP%20aspects%20for%20NTN_r3.DOCX) Discussion on RLC and PDCP aspects for NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.3 Control Plane

Also identify things not covered in the TR that need to be covered, if any.

#### 8.10.3.1 Idle/Inactive mode

Including cell selection/reselection & system information.

[R2-2006872](file:///C:\Data\3GPP\Extracts\R2-2006872_Consideration%20on%20system%20information%20and%20cell%20(re)selection%20in%20NTN-v0.docx) Consideration on system information and cell (re)selection in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 106

[R2-2006973](file:///C:\Data\3GPP\Extracts\R2-2006973.docx) IDLE mode procedure Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 106

[R2-2007171](file:///C:\Data\3GPP\Extracts\R2-2007171%20Discussion%20on%20RRC_IDLE%20mode%20issues%20in%20NTN.doc) Discussion on RRC\_IDLE mode issues in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

* Discussed in offline 106

[R2-2007574](file:///C:\Data\3GPP\Extracts\R2-2007574%20-%20Considerations%20on%20satellite%20ephemeris.docx) Considerations on satellite ephemeris THALES discussion Rel-17

* Proposals 1 and 2 discussed in offline 106
* [AT111e][106][NTN] Idle mode issues (ZTE)

Scope: Discuss the proposals in [R2-2006872](file:///C:\Data\3GPP\Extracts\R2-2006872_Consideration%20on%20system%20information%20and%20cell%20(re)selection%20in%20NTN-v0.docx), [R2-2006973](file:///C:\Data\3GPP\Extracts\R2-2006973.docx), [R2-2007171](file:///C:\Data\3GPP\Extracts\R2-2007171%20Discussion%20on%20RRC_IDLE%20mode%20issues%20in%20NTN.doc) and proposals 1 and 2 in [R2-2007574](file:///C:\Data\3GPP\Extracts\R2-2007574%20-%20Considerations%20on%20satellite%20ephemeris.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Thursday 2020-08-20 16:00 UTC

Initial deadline (for rapporteur's summary in R2-2008187): Thursday 2020-08-20 18:00 UTC

R2-2008187 Summary of offline 106 - Idle mode issues ZTE corporation discussion Rel-16 NR\_NTN\_solutions-Core

[R2-2006628](file:///C:\Data\3GPP\Extracts\R2-2006628%20Initial%20Discussion%20for%20Idle%20and%20Inactive%20Mode%20in%20NTN.docx) Initial Discussion for Idle and Inactive Mode in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006642](file:///C:\Data\3GPP\Extracts\R2-2006642_Idle%20Mode%20Procedure%20in%20NR-NTN_v2.0.docx) On Idle Mode Procedures in NR-NTN MediaTek Inc. discussion

[R2-2006783](file:///C:\Data\3GPP\Extracts\R2-2006783%20-%20Discussion%20on%20cell%20reselection%20for%20NTN.doc) Discussion on cell reselection for NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006821](file:///C:\Data\3GPP\Extracts\R2-2006821%20Issues%20of%20the%20Fixed%20Tracking%20Area%20in%20NTN.docx) Issues of the Fixed Tracking Area in NTN PANASONIC R&D Center Germany discussion

[R2-2006924](file:///C:\Data\3GPP\Extracts\._R2-2006924%20HAPS-Satellite%20ephemeris%20broadcast.docx) HAPS-Satellite ephemeris broadcast Loon discussion Rel-17

[R2-2006925](file:///C:\Data\3GPP\Extracts\._R2-2006925%20HAPS-Terrestrial%20PCI%20confusion%20mitigation.docx) HAPS-Terrestrial PCI confusion mitigation Loon and Google discussion Rel-17

[R2-2006929](file:///C:\Data\3GPP\Extracts\R2-2006929.docx) Tracking area issue for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006945](file:///C:\Data\3GPP\Extracts\R2-2006945_For8.10.3.1_CP_IdleInactiveMode_ObservationsProposals_Samsung.doc) Control Plane Enhancements for Idle and Inactive Modes in an NTN- Overall Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2007048](file:///C:\Data\3GPP\Extracts\R2-2007048.doc) Consideration on Celll Reselection evaluation in NTN Spreadtrum Communications discussion

[R2-2007175](file:///C:\Data\3GPP\Extracts\R2-2007175_Control%20plane%20for%20idle%20mode%20UE.doc) Control Plane for Idle/Inactive mode UE Beijing Xiaomi Electronics discussion

[R2-2007184](file:///C:\Data\3GPP\Extracts\R2-2007184.doc) Idle mode enhancement in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007251](file:///C:\Data\3GPP\Extracts\R2-2007251_NTN_ephemeris.doc) Ephemeris data to be included in system information ITRI discussion NR\_NTN\_solutions-Core

[R2-2007362](file:///C:\Data\3GPP\Extracts\R2-2007362%20%20On%20Tracking%20Areas%20and%20IDLE%20mode%20handling%20for%20NTN.docx) On Tracking Areas and IDLE mode handling for NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007429](file:///C:\Data\3GPP\Extracts\R2-2007429%20Discussion%20of%20cell%20selection%20and%20reselection%20for%20NTN.docx) Discussion of cell selection and reselection for NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007473](file:///C:\Data\3GPP\Extracts\R2-2007473%20Ephemeris%20data%20provision%20in%20NTN.docx) Ephemeris data provision in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007558](file:///C:\Data\3GPP\Extracts\R2-2007558%20NTN%20CP.docx) Idle mode aspects for NTN Ericsson discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007743](file:///C:\Data\3GPP\Extracts\R2-2007743%20Initial%20discussion%20on%20Idle%20mode%20procedures%20in%20NR%20NTN.doc) Initial discussion on Idle mode procedures in NR NTN LG Electronics France discussion Rel-17

#### 8.10.3.2 Connected mode

Including mobility management.

[R2-2006930](file:///C:\Data\3GPP\Extracts\R2-2006930.docx) mobility enhacement for NTN Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006629](file:///C:\Data\3GPP\Extracts\R2-2006629%20Initial%20Discussion%20for%20Connected%20Mode%20in%20NTN.docx) Initial Discussion for Connected Mode in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006643](file:///C:\Data\3GPP\Extracts\R2-2006643_Connected%20Mode%20Procedure%20in%20NR-NTN_v2.0.docx) On Connected Mode Mobility Procedures in NR-NTN MediaTek Inc. discussion

[R2-2006784](file:///C:\Data\3GPP\Extracts\R2-2006784%20NTN%20connected%20mode%20mobility.doc) Discussion on mobility management for connected mode UE in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006822](file:///C:\Data\3GPP\Extracts\R2-2006822%20Overhead%20Reduction%20for%20the%20Handover%20Procedure%20in%20NTN.docx) Overhead Reduction for the Handover Procedure in NTN PANASONIC R&D Center Germany discussion

[R2-2006873](file:///C:\Data\3GPP\Extracts\R2-2006873_Consideration%20on%20mobility%20enhancement%20in%20NTN-v0.docx) Consideration on mobility enhancement in NTN ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2006953](file:///C:\Data\3GPP\Extracts\R2-2006953_For8.10.3.2_UP_ConnectedMode_ObservationsProposals_Samsung.doc) Control Plane Enhancements for the Connected Mode in an NTN- Overall Observations and Proposals SAMSUNG discussion Rel-17 NR\_NTN\_solutions

[R2-2006975](file:///C:\Data\3GPP\Extracts\R2-2006975.doc) Connected mode mobility enhancements Qualcomm Inc discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007144](file:///C:\Data\3GPP\Extracts\R2-2007144%20Discussion%20on%20enhancements%20for%20connected%20mode%20in%20NTN.DOC) Discussion on enhancements for connected mode in NTN Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007174](file:///C:\Data\3GPP\Extracts\R2-2007174_Control%20plane%20for%20connected%20mode%20UE.doc) Control Plane for Connected mode UE Beijing Xiaomi Electronics discussion

[R2-2007183](file:///C:\Data\3GPP\Extracts\R2-2007183.doc) Mobility management in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007463](file:///C:\Data\3GPP\Extracts\R2-2007463%20Mobility%20Management%20in%20NTN%20v1.1.doc) Mobility management in NTN Lenovo, Motorola Mobility discussion Rel-17

[R2-2007601](file:///C:\Data\3GPP\Extracts\R2-2007601%20Adjusting%20timers%20according%20to%20delay%20variations%20in%20NTN.docx) Adjusting timers according to delay variations in NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007618](file:///C:\Data\3GPP\Extracts\R2-2007618%20(R17%20NTN%20WI%20AI%208.10.3.2%20connected%20mode%20mobility).docx) Location-assisted connected mobility in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007744](file:///C:\Data\3GPP\Extracts\R2-2007744%20Initial%20discussion%20on%20connected%20mobility%20in%20NR%20NTN.doc) Initial discussion on connected mobility in NR NTN LG Electronics France discussion Rel-17 NR\_NTN\_solutions-Core

[R2-2007955](file:///C:\Data\3GPP\Extracts\R2-2007955%20Discussion%20on%20Delay%20Difference%20on%20Measurements%20for%20NTN_v1.docx) Discussion on delay difference on measurements for NTN Asia Pacific Telecom co. Ltd discussion NR\_NTN\_solutions-Core

Late

[R2-2006547](file:///C:\Data\3GPP\Extracts\R2-2006547%20Discussion%20on%20feeder%20link%20hard%20switch%20in%20NTN%20LEO.doc) Discussion on feeder link hard switch in NTN LEO CENC discussion Late

[R2-2006552](file:///C:\Data\3GPP\Extracts\R2-2006552%20Feeder%20link%20hard%20switch%20triggered%20HO.doc) Feeder link hard switch triggered HO CENC discussion Late

[R2-2006553](file:///C:\Data\3GPP\Extracts\R2-2006553%20Gateway%20data%20handling%20in%20NTN%20LEO.doc) Gateway data handling in NTN LEO CENC discussion Late

## 8.12 Reduced Capability SI

(FS\_NR\_redcap; leading WG: RAN1; REL-17; WID: [RP-201386](file:///C:\Data\3GPP\archive\RAN\RAN%2388\Tdocs\RP-201386.zip))

Time budget: 2 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

### 8.12.1 Organizational and scope

Get a common understanding of the SID, eg. what is RAN2 scope in the RAN1 centric objectives, what is required to be in the TR in order to start a WI.

[R2-2006910](file:///C:\Data\3GPP\Extracts\R2-2006910%20-%20%20Scope%20of%20Redcap%20SI.docx) Scope of RedCap SI Ericsson discussion FS\_NR\_redcap

* Discussed in offline 108

[R2-2007366](file:///C:\Data\3GPP\Extracts\R2-2007366%20TR38875%20skeleton%20updates%20cover%20page.docx) TR38.875 skeleton updates for Study on support of reduced capability NR devices Ericsson discussion

* Revised in R2-2008190 based on the outcome of offline 108

R2-2008190 TR38.875 skeleton updates for Study on support of reduced capability NR devices Ericsson discussion

* [AT111e][108][REDCAP] Scope and skeleton update (Ericsson)

Scope: Discuss the SI scope in [R2-2006910](file:///C:\Data\3GPP\Extracts\R2-2006910%20-%20%20Scope%20of%20Redcap%20SI.docx) and the skeleton update in [R2-2007366](file:///C:\Data\3GPP\Extracts\R2-2007366%20TR38875%20skeleton%20updates%20cover%20page.docx)

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

and skeleton update

Initial deadline (for companies' feedback): Monday 2020-08-24 16:00 UTC

Initial deadline (for rapporteur's summary in R2-2008189): Monday 2020-08-24 18:00 UTC

R2-2008189 Summary of offline 108 - RedCap scope and skeleton update Ericsson discussion Rel-16 FS\_NR\_redcap

[R2-2006732](file:///C:\Data\3GPP\Extracts\R2-2006732%20General%20views%20on%20Higher-layer%20impacts%20for%20Redcap%20devices-0807.doc) General views on Higher-layer impacts for Redcap devices Xiaomi Communications discussion

[R2-2006753](file:///C:\Data\3GPP\Extracts\R2-2006753-redcap-RAN1-2-scope.docx) RAN1-2 work scope discussion on RedCap capability Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2006978](file:///C:\Data\3GPP\Extracts\R2-2006978_RedCap%20scope.docx) Expected RAN2 scope of RedCap NEC discussion Rel-17 FS\_NR\_redcap

### 8.12.2 Framework for reduced capabilities

#### 8.12.2.1 Principles for how to define and constrain reduced capabilities

[R2-2006751](file:///C:\Data\3GPP\Extracts\R2-2006751-redcap-capabilty-framework.docx) Reduced capability signalling framework Intel Corporation discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 109

[R2-2006911](file:///C:\Data\3GPP\Extracts\R2-2006911%20Framework%20and%20Principles%20for%20Reduced%20Capability.docx) Framework and Principles for Reduced Capability Ericsson discussion FS\_NR\_redcap

* Discussed in offline 109

[R2-2006605](file:///C:\Data\3GPP\Extracts\R2-2006605_Defining%20and%20constraining%20UEs%20with%20reduced%20capabilities.docx) Defining and constraining UEs with reduced capabilities Qualcomm Inc discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 109
* [AT111e][109][REDCAP] Reduced capability signalling framework (Intel)

Scope: Discuss the proposals in [R2-2006751](file:///C:\Data\3GPP\Extracts\R2-2006751-redcap-capabilty-framework.docx), [R2-2006911](file:///C:\Data\3GPP\Extracts\R2-2006911%20Framework%20and%20Principles%20for%20Reduced%20Capability.docx) and [R2-2006605](file:///C:\Data\3GPP\Extracts\R2-2006605_Defining%20and%20constraining%20UEs%20with%20reduced%20capabilities.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Monday 2020-08-24 22:00 UTC

Initial deadline (for rapporteur's summary in R2-2008191): Tuesday 2020-08-25 02:00 UTC

R2-2008191 Summary of offline 109 - Reduced capability signalling framework Intel discussion Rel-16 FS\_NR\_redcap

[R2-2006660](file:///C:\Data\3GPP\Extracts\R2-2006660.docx) Capability and initial access of RedCap UEs Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2006691](file:///C:\Data\3GPP\Extracts\._R2-2006691_UE%20type%20and%20capability%20for%20RedCap%20UEs.doc) UE type and capability for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006733](file:///C:\Data\3GPP\Extracts\R2-2006733%20Discussion%20on%20UE%20Capaiblity%20Issues%20for%20reduced%20capability%20NR%20devices.doc) Discussion on UE Capaiblity Issues for reduced capability NR devices Xiaomi Communications discussion

[R2-2006785](file:///C:\Data\3GPP\Extracts\R2-2006785%20RedCap%20type.doc) Discussion on definition of RedCap Ues OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006903](file:///C:\Data\3GPP\Extracts\R2-2006903%20Define%20and%20Constrain%20Reduced%20Capability.docx) Define and constrain reduced capability ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2007011](file:///C:\Data\3GPP\Extracts\R2-2007011.doc) On definition and constraint of reduced capabilities CATT discussion Rel-17 FS\_NR\_redcap

[R2-2007110](file:///C:\Data\3GPP\Extracts\._R2-2007110_redCap_Access.docx) RedCap UE characterization and access restriction Apple discussion Rel-17 FS\_NR\_redcap

[R2-2007344](file:///C:\Data\3GPP\Extracts\R2-2007344%20Capability%20definition%20of%20REDCAP%20UE.doc) Capability definition of REDCAP UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2007400](file:///C:\Data\3GPP\Extracts\R2-2007400%20Discussion%20on%20how%20to%20define%20reduced%20capability%20devices.docx) Discussion on how to define reduced capability devices LG Electronics UK discussion Rel-17

[R2-2007478](file:///C:\Data\3GPP\Extracts\R2-2007478_The%20principle%20to%20constrain%20reduced%20capability%20NR%20devices.docx) The principle to constrain reduced capability NR devices Lenovo, Motorola Mobility discussion Rel-17

[R2-2007490](file:///C:\Data\3GPP\Extracts\R2-2007490%20Principles%20for%20reduced%20capabilities.docx) Principles for reduced capabilities Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2007492](file:///C:\Data\3GPP\Extracts\R2-2007492%20-%20On%20the%20definition%20of%20a%20RedCap%20device%20type.docx) On the definition of a RedCap device type MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

#### 8.12.2.2 Identification and access restrictions

[R2-2007345](file:///C:\Data\3GPP\Extracts\R2-2007345%20Identification%20and%20access%20restriction%20of%20REDCAP%20UE.doc) Identification and access restriction of REDCAP UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 110

[R2-2006661](file:///C:\Data\3GPP\Extracts\R2-2006661.docx) Coexistence between legacy UEs and RedCap UEs Samsung discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 110

[R2-2006786](file:///C:\Data\3GPP\Extracts\R2-2006786%20RedCap%20Identification%20and%20access%20restrictions.doc) Discussion on RedCap UE’s identification and access control OPPO discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 110

[R2-2007493](file:///C:\Data\3GPP\Extracts\R2-2007493%20-%20On%20UE%20identification%20and%20access%20restrictions.docx) On UE identification and access restrictions MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 110
* [AT111e][110][REDCAP] Identification and access restriction (Huawei)

Scope: Discuss the proposals in [R2-2007345](file:///C:\Data\3GPP\Extracts\R2-2007345%20Identification%20and%20access%20restriction%20of%20REDCAP%20UE.doc), [R2-2006661](file:///C:\Data\3GPP\Extracts\R2-2006661.docx), [R2-2006786](file:///C:\Data\3GPP\Extracts\R2-2006786%20RedCap%20Identification%20and%20access%20restrictions.doc) and [R2-2007493](file:///C:\Data\3GPP\Extracts\R2-2007493%20-%20On%20UE%20identification%20and%20access%20restrictions.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Monday 2020-08-24 22:00 UTC

Initial deadline (for rapporteur's summary in R2-2008192): Tuesday 2020-08-25 02:00 UTC

R2-2008192 Summary of offline 110 - Identification and access restriction Huawei discussion Rel-16 FS\_NR\_redcap

[R2-2006606](file:///C:\Data\3GPP\Extracts\R2-2006606_Identification%20and%20access%20restriction%20for%20RecCap%20UEs.docx) Identification and access restriction for RedCap UEs Qualcomm Inc discussion Rel-17 FS\_NR\_redcap

[R2-2006692](file:///C:\Data\3GPP\Extracts\R2-2006692%20Identification%20and%20Access%20Restrictions%20for%20RedCap%20UEs%20v1.0.docx) Identification and access restrictions for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006734](file:///C:\Data\3GPP\Extracts\R2-2006734%20Discussion%20on%20Identification%20and%20UE%20access%20restrictions%20for%20Redcap%20devices.doc) Discussion on Identification and UE access restrictions for Redcap devices Xiaomi Communications discussion

[R2-2006752](file:///C:\Data\3GPP\Extracts\R2-2006752-redcap-access-control.docx) Identification and Access restriction for RedCap devices Intel Corporation discussion Rel-17 FS\_NR\_redcap

[R2-2006904](file:///C:\Data\3GPP\Extracts\R2-2006904%20Redcap%20UE%20identification%20and%20access%20control.docx) Identification and access control for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2006912](file:///C:\Data\3GPP\Extracts\R2-2006912%20-%20%20Identification%20and%20restriction%20of%20devices%20for%20NR%20Redcap.docx) Identification and access restriction for devices with reduced capabilities Ericsson discussion FS\_NR\_redcap

[R2-2006979](file:///C:\Data\3GPP\Extracts\R2-2006979_RedCap%20const.docx) Constraint on usage of RedCap functions NEC discussion Rel-17 FS\_NR\_redcap

[R2-2007012](file:///C:\Data\3GPP\Extracts\R2-2007012.doc) Identification and access restrictions for reduced capability UE CATT discussion Rel-17 FS\_NR\_redcap

[R2-2007399](file:///C:\Data\3GPP\Extracts\R2-2007399%20Access%20restriction%20for%20reduced%20capability%20devices.docx) Access restriction for reduced capability devices LG Electronics UK discussion Rel-17

[R2-2007480](file:///C:\Data\3GPP\Extracts\R2-2007480_Discussion%20on%20the%20identification%20of%20Redcap.docx) Discussion on the identification of Redcap Lenovo, Motorola Mobility discussion Rel-17

[R2-2007491](file:///C:\Data\3GPP\Extracts\R2-2007491%20Cell%20access%20for%20REDCAP%20UE%20with%20reduced%20bandwidth.docx) Cell access for REDCAP UE with reduced bandwidth Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2007560](file:///C:\Data\3GPP\Extracts\R2-2007560%20Cell%20access%20restrictions%20for%20REDCAP%20UE.docx) Cell access restrictions for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

### 8.12.3 UE power saving and battery lifetime enhancement

UE power saving and battery lifetime enhancement for reduced capability UEs in applicable use cases (e.g. delay tolerant case).

DRX

[R2-2007013](file:///C:\Data\3GPP\Extracts\R2-2007013.doc) eDRX for NR RRC Inactive and Idle States CATT discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 111

[R2-2007346](file:///C:\Data\3GPP\Extracts\R2-2007346%20Discussion%20on%20eDRX%20for%20RRC_INACTIVE%20and%20RRC_IDLE.doc) Discussion on eDRX for RRC\_INACTIVE and RRC\_IDLE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 111

[R2-2007494](file:///C:\Data\3GPP\Extracts\R2-2007494%20eDRX%20for%20reduced%20capability%20UEs.docx) eDRX for reduced capability UEs MediaTek Inc. discussion Rel-17 FS\_NR\_redcap

* Discussed in offline 111

[R2-2006748](file:///C:\Data\3GPP\Extracts\R2-2006748_RedCap_PowSav_eDRX-Meas.docx) Use cases target to extend paging DRX cycle and relax measurements for stationary devices Intel Corporation discussion Rel-17 FS\_NR\_redcap

* Proposals 1 to 4 discussed in offline 111
* [AT111e][111][REDCAP] DRX aspects (CATT)

Scope: Discuss the proposals in [R2-2007013](file:///C:\Data\3GPP\Extracts\R2-2007013.doc), [R2-2007346](file:///C:\Data\3GPP\Extracts\R2-2007346%20Discussion%20on%20eDRX%20for%20RRC_INACTIVE%20and%20RRC_IDLE.doc), [R2-2007494](file:///C:\Data\3GPP\Extracts\R2-2007494%20eDRX%20for%20reduced%20capability%20UEs.docx) as well as proposals 1 to 4 in [R2-2006748](file:///C:\Data\3GPP\Extracts\R2-2006748_RedCap_PowSav_eDRX-Meas.docx). The intention is to identify design alternatives, collect company views and, whenever possible, also narrow down the proposals.

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

* + - List of agreeable proposals (if any)
    - List of proposals that require online discussions

Initial deadline (for companies' feedback): Monday 2020-08-24 22:00 UTC

Initial deadline (for rapporteur's summary in R2-2008193): Tuesday 2020-08-25 02:00 UTC

R2-2008193 Summary of offline 111 - DRX aspects CATT discussion Rel-16 FS\_NR\_redcap

[R2-2006607](file:///C:\Data\3GPP\Extracts\R2-2006607_Power%20saving%20enhancements%20for%20RecCap%20UEs.docx) Power saving enhancements for RedCap UEs Qualcomm Inc discussion Rel-17 FS\_NR\_redcap

[R2-2006694](file:///C:\Data\3GPP\Extracts\._R2-2006694%20DRX%20enhancement%20for%20RedCap%20UEs.docx) DRX enhancement for RedCap UEs vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2006731](file:///C:\Data\3GPP\Extracts\R2-2006731%20Discussion%20on%20UE%20Power%20saving%20for%20Redcap%20Devices.doc) Discussion on UE Power saving for Redcap Devices Xiaomi Communications discussion

[R2-2006787](file:///C:\Data\3GPP\Extracts\R2-2006787%20-%20Consideration%20on%20extended%20DRX%20for%20RedCap.docx) Consideration on extended DRX for RedCap OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006905](file:///C:\Data\3GPP\Extracts\R2-2006905%20Introducation%20of%20eDRX%20for%20redcap.docx) Introduction of eDRX for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2007111](file:///C:\Data\3GPP\Extracts\._R2-2007111_redCap_power-saving.docx) Impact of power-saving aspects on RedCap UEs Apple discussion Rel-17 FS\_NR\_redcap

[R2-2007346](file:///C:\Data\3GPP\Extracts\R2-2007346%20Discussion%20on%20eDRX%20for%20RRC_INACTIVE%20and%20RRC_IDLE.doc) Discussion on eDRX for RRC\_INACTIVE and RRC\_IDLE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2007393](file:///C:\Data\3GPP\Extracts\R2-2007393.doc) Introducing Extended DRX for RRC Inactive and/or Idle Samsung discussion FS\_NR\_redcap

[R2-2007401](file:///C:\Data\3GPP\Extracts\R2-2007401%20Extended%20DRX%20for%20reduced%20capability%20devices%20in%20RRC_IDLE%20and%20RRC_INACTIVE.docx) Extended DRX for reduced capability devices in RRC\_IDLE and RRC\_INACTIVE LG Electronics UK discussion Rel-17

[R2-2007470](file:///C:\Data\3GPP\Extracts\R2-2007470%20eDRX%20for%20UE%20with%20reduced%20capability.doc) eDRX for Idel/inactive-mode UE with reduced capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2007561](file:///C:\Data\3GPP\Extracts\R2-2007561%20UE%20power%20saving%20and%20battery%20lifetime%20enhancement%20for%20REDCAP%20UE.docx) Power saving and battery lifetime enhancement for REDCAP UE Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_redcap

[R2-2007653](file:///C:\Data\3GPP\Extracts\R2-2007653_eDRX%20for%20Reduced%20Capability%20NR%20Devices.docx) eDRX for Reduced Capability NR Devices Convida Wireless discussion Rel-17 FS\_NR\_redcap

[R2-2007654](file:///C:\Data\3GPP\Extracts\R2-2007654_eDRX%20Configuration%20for%20Reduced%20Capability%20NR%20Devices.docx) Discussion on eDRX Configuration Convida Wireless discussion Rel-17 FS\_NR\_redcap

RRM relaxation

[R2-2006913](file:///C:\Data\3GPP\Extracts\R2-2006913%20-%20Power%20consumption%20in%20RedCap%20devices.docx) Reducing power consumption in RedCap devices Ericsson discussion FS\_NR\_redcap

* Revised in [R2-2008130](file:///C:\Data\3GPP\Extracts\R2-2008130%20-%20Power%20consumption%20in%20RedCap%20devices_Revised.docx)

[R2-2008130](file:///C:\Data\3GPP\Extracts\R2-2008130%20-%20Power%20consumption%20in%20RedCap%20devices_Revised.docx) Reducing power consumption in RedCap devices Ericsson discussion FS\_NR\_redcap

Observations 3-8 and proposal 3

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[R2-2007347](file:///C:\Data\3GPP\Extracts\R2-2007347%20RRM%20measurement%20relaxation%20for%20REDCAP%20UE.doc) RRM measurement relaxation for REDCAP UE Huawei, HiSilicon discussion Rel-17 FS\_NR\_redcap

[R2-2006902](file:///C:\Data\3GPP\Extracts\R2-2006902%20Consideration%20on%20RRM%20relaxation%20for%20Redcap%20UE.docx) Consideration on RRM relaxation for Redcap UE ZTE Corporation, Sanechips discussion Rel-17 FS\_NR\_redcap

[R2-2006788](file:///C:\Data\3GPP\Extracts\R2-2006788%20RRM%20relax.doc) Discussion on RRM relaxation OPPO discussion Rel-17 FS\_NR\_redcap

[R2-2006662](file:///C:\Data\3GPP\Extracts\R2-2006662.docx) RRM relaxation for stationary devices Samsung discussion Rel-17 FS\_NR\_redcap

[R2-2006693](file:///C:\Data\3GPP\Extracts\R2-2006693%20RRM%20Relaxation%20for%20Power%20Saving%20v1.0.docx) RRM relaxation for power saving vivo, Guangdong Genius discussion Rel-17 FS\_NR\_redcap

[R2-2007471](file:///C:\Data\3GPP\Extracts\R2-2007471%20RRM%20relaxation%20for%20stationary%20UE%20with%20reduced%20capability.docx) RRM relaxation for stationary UE with reduced capability Lenovo, Motorola Mobility discussion Rel-17

[R2-2007745](file:///C:\Data\3GPP\Extracts\R2-2007745%20Considerations%20on%20RRM%20for%20reduced%20capability%20UEs.doc) Considerations on RRM for reduced capability UEs LG Electronics France discussion Rel-17 FS\_NR\_redcap

## Summary

TBD