3GPP TSG-RAN WG2 Meeting #124 R2-2xxxxxx

Chicago, USA, Nov. 13th – 17th, 2023

Agenda item: 8.10

Source: Session Chair (Ericsson)

Title: Report from maintenance and eRedCap breakout session

Document for: Approval

# Organizational

* [AT124][800] Organizational – Maintenance and eRedCap (Ericsson)

Scope:

* + - Share plans for the meeting and list of ongoing email discussions
    - Share meetings notes and agreements for review and endorsement
    - Flag LSs and agreed CRs for discussion

      Intended outcome:

* + - General information sharing about the sessions

# 4 EUTRA Rel-17 and earlier

Only essential corrections. No documents should be submitted to 4. Please submit to 4.x

## 4.1 EUTRA corrections Rel-17 and earlier

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: [RP-211340](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211340.zip))

(UPIP\_EN-DC\_UE; leading WG: RAN3; REL-17; WID: [RP‑213669](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_94e/Docs/RP-213669.zip))

(LTE TEI17)

Essential corrections to LTE Rel-17 topics not covered by other agenda items.

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: [RP-200293](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200293.zip)); REL-15 and Earlier NB-IoT WIs are in scope but not listed explicitly (long list).

(LTE\_eMTC5-Core; LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; Completed: June 20; WID: [RP-192875](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_86/Docs//RP-192875.zip);), REL-15 and Earlier eMTC WIs are in scope but not listed explicitly (long list).

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed: June 20; WID: [RP-190921](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_84/Docs//RP-190921.zip));

(LTE\_terr\_bcast-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_high\_speed\_enh2-Core; LTE TEI16 Non-positioning);

REL-15 and Earlier EUTRA WIs are in scope but not listed explicitly (long list), Except V2X and Sidelink WIs and Positioning WIs, which are adressed by AIs below.

NOTE that LTE corrections related to NR WIs or Joint NR LTE WIs should be submitted to NR AIs below.

NOTE that LTE corrections which are the same as an NR correction should be submitted to the respective NR AI (so the NR CR and LTE CR can be treated together).

This Agenda Item is treated in the Maintenance Breakout session

### 4.1.0 In Principle Agreed CRs

[R2-2313863](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313863.zip) Correction on *drx-InactivityTimer* for NB-IOT UE Xiaomi, Ericsson CR Rel-16 36.321 16.8.0 1570 3 F NB\_IOTenh3-Core Late

[R2-2313864](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313864.zip) Correction on *drx-InactivityTimer* for NB-IOT UE Xiaomi, Ericsson CR Rel-17 36.321 17.6.0 1569 3 A NB\_IOTenh3-Core Late

* Both agreed

### 4.1.1 Other

Internode RRC

[R2-2312062](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312062.zip) Corrections to inter-node RRC messages for 5GC CATT CR Rel-16 36.331 16.13.0 4965 - F LTE\_eMTC5-Core, TEI16

[R2-2312063](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312063.zip) Corrections to inter-node RRC messages for 5GC CATT CR Rel-17 36.331 17.6.0 4966 - A LTE\_eMTC5-Core, TEI16

Discussion

- QC thinks we shouldn’t delete the text in ”UERadioAccessCapabilityInformation”. Ericsson agrees. Ericsson is OK to have a CR but not in this way. QC are not sure the CR is needed.

- CATT would like to have this CR, but is OK to not do the change to “UERadioAccessCapabilityInformation”.

- Nokia found one more similar change needed and think we need a CR.

* Remove change from “UERadioAccessCapabilityInformation” and try to find agreeable CR offline.
* [AT124][801] eNB/NG-eNB clarification (CATT)

Scope:

* + - Discuss and try to find agreeable CR

      Intended outcome:

* + - Agreeable CR in R2-2313711 and R2-2313729 (CATT)

     Deadline:

* + - Friday morning session

UL HARQ RTT

[R2-2312119](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312119.zip) Correction on the UL HARQ RTT timer length MediaTek Inc. discussion

[R2-2312117](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312117.zip) Correction on the UL HARQ RTT timer length MediaTek Inc. CR Rel-16 36.321 16.8.0 1574 - F NB\_IOTenh3-Core

[R2-2312118](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312118.zip) Correction on the UL HARQ RTT timer length MediaTek Inc. CR Rel-17 36.321 17.6.0 1575 - A NB\_IOTenh3-Core

* Change impacted functionality from “IoT NTN” to “NB IoT”.
* Add the table from the disc paper to the cover page to clarify what the impact is.
* Agreed unseen in R2-2313712 and R2-2313713

[R2-2312709](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312709.zip) Correction on drx-InactivityTimer definition for NB-IoT UE Nokia, Nokia Shanghai Bell, Xiaomi, Ericsson CR Rel-16 36.321 16.8.0 1576 - F NB\_IOTenh3-Core

[R2-2312710](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312710.zip) Correction on drx-InactivityTimer definition for NB-IoT UE Nokia, Nokia Shanghai Bell, Xiaomi, Ericsson CR Rel-17 36.321 17.6.0 1577 - A NB\_IOTenh3-Core

- MediaTek asks if this is only for NB-IoT, and want to change from “with multiple HARQ processes” to “with two HARQ processes”. Ericsson thinks we usually have “multiple” even if it is just two HARQ processes.

- Huawei thinks there are related IPA CRs, and want to merge this with those IPAs. Nokia thinks we can anyway agree these CRs.

- OPPO thinks the first added word “or” should be “and”.

* Agreed
* The missing IPA CRs needs to be submitted next meeting.

MFBI

[R2-2313022](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313022.zip) On EUTRA MFBI signalling Ericsson discussion Rel-17 TEI17

[R2-2312122](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312122.zip) MFBI behavior of non-default duplex band (b8) and default duplex (b106) systems Anterix discussion Rel-18 36.307 Late

*Moved from 7.25.3*

Discussion

- Lenovo asks which release this is for? Chair assumes it is release independent. QC agrees. QC supports Ericssons proposal (Alt 1) and think that Alt2 in the Ericsson paper is NBC.

- Huawei thinks we should ask if the issue is real.

* Comeback Friday to see how we should proceed.

# 5 NR Rel-15 and Rel-16

Essential corrections only.

Tdoc Limitation: 5 tdocs in total for all sub agenda items.

In case a correction need to be reflected in both NR TS and LTE TS, the corrections should be submitted under one single AI (so the NR and LTE correction can be treatee together), the sub-Ais below this

## 5.1 Common

Includes the following WIs and input that doesn’t fit elsewhere.

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: [RP-191971](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_85/Docs//RP-191971.zip))

(NR\_IAB-Core; leading WG: RAN2; REL-16; started: Dec 18; target Aug 20; WID: [RP-200840](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-200840.zip))

(NR\_unlic-Core; leading WG: RAN1; REL-16; started: Dec 18; Closed June 20; WID: [RP-192926](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_86/Docs//RP-192926.zip)).

(NR\_IIOT-Core; leading WG: RAN2; REL-16; started: Mar 19; Completed: Jun 20; WID: [RP-200797](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-200797.zip))

(NR\_UE\_pow\_sav-Core; leading WG: RAN1; REL-16; started: Mar 19; Completed Jun 20; WID: [RP-200494](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200494.zip)).

(NR\_2step\_RACH-Core; leading WG: RAN1; REL-16; started: Dec 18; Completed: June 20; WID: [RP-200085](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200085.zip)).

(SRVCC\_NR\_to\_UMTS-Core; leading WG: RAN2; REL-16; started: Dec 18; Completed; Mar 20; WID: [RP-190713](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_83/Docs//RP-190713.zip))

(RACS-RAN-Core, leading WG: RAN2; REL-16; started: Mar 19; completed: Jun 20; WID: [RP-191088](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_84/Docs//RP-191088.zip))

(NG\_RAN\_PRN-Core; leading WG: RAN3; REL-16; started: Mar 19; completed: June 20; WID: [RP-200122](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_87e/Docs//RP-200122.zip))

(NR\_eMIMO-Core, leading WG: RAN1; REL-16; started: Jun 18; target; Aug 20; WID: [RP-200474😉](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200474.zip)

(NR\_CLI\_RIM; leading WG: RAN1; REL-16; started: Dec 18; Completed: Jun 20; WID: [RP-191997](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_85/Docs//RP-191997.zip);)

(NR\_L1enh\_URLLC-Core, leading WG: RAN1; REL-16; Completed: June 20; WID: [RP-191584](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_84/Docs//RP-191584.zip))

(LTE\_NR\_DC\_CA\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Target Aug 20; WI [RP-200791](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-200791.zip))

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; Completed June 20; WID: [RP-192277](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_85/Docs//RP-192277.zip)).

(NR\_HST, NR\_RRM\_enh-Core, NR\_RF\_FR1, NR\_RF\_FR2\_req\_enh, NR\_n66\_BW, LTE\_NR\_B41\_Bn41\_PC29dBm-Core, NR\_CSIRS\_L3meas,)

(NR TEI16).

LTE mob enh corrections that are common with NR mobility enhancements should be submitted to this AI.

### 5.1.1 Stage 2 and Organisational

Incoming LSs, etc. You should discuss your stage 2 CRs with the specification rapporteurs before submission. Includes impact to 38.300, 36.300, 37.340

#### 5.1.1.1 Other

[R2-2312142](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312142.zip) Miscellaneous Corrections Nokia (Rapporteur), Samsung, vivo CR Rel-16 38.300 16.14.0 0725 - F NR\_IAB-Core, LTE\_NR\_DC\_CA\_enh-Core

* Comeback Friday (see offline related to R2-2312143)

### 5.1.3 Control Plane corrections

#### 5.1.3.0 In Principle Agreed CRs

[R2-2312813](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312813.zip) Miscellaneous non-controversial corrections Set XX Ericsson CR Rel-15 38.331 15.23.0 4361 1 F NR\_newRAT-Core [R2-2310961](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310961.zip) Late

[R2-2312814](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312814.zip) Miscellaneous non-controversial corrections Set XX Ericsson CR Rel-16 38.331 16.14.0 4362 1 F NR\_newRAT-Core [R2-2310962](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310962.zip) Late

* Endorsed to be updated based on potential new input in this meeting and then one week post meeting email disc.
* [Post124][801] Miscellaneous non-controversial corrections Set XX (Ericsson)

Scope:

* + - Update Miscellaneous non-controversial corrections Set XX for R15, R16 and R17

      Intended outcome:

* + - Agreed CR in R2-2313714 and R2-2313715 and R2-2313719 (Ericsson)

     Deadline:

* + - Short

#### 5.1.3.1 NR RRC

Corrections to 38331, and related change to other TS if applicable, e.g. 36331, Stage-2 etc.

Default beam for cross-carrier scheduling

[R2-2312374](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312374.zip) Clarification on the default beam for the cross-carrier scheduling Samsung CR Rel-16 38.331 16.14.0 4425 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2312375](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312375.zip) Clarification on the default beam for the cross-carrier scheduling Samsung CR Rel-17 38.331 17.6.0 4426 - A LTE\_NR\_DC\_CA\_enh-Core

- Huawei thinks the change is OK, but does not expect any wrong implementations. Want to merge to rapporteurs CR. Ericsson agree.

- Huawei and Nokia thinks we should have “LTE\_NR\_DC\_CA\_enh-Core” as WI code for the CR that captures this.

* Both merged to rapporteurs CR

Multiple configured grants

[R2-2312975](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312975.zip) Correction on when multiple configured grants are signalled Ericsson CR Rel-16 38.331 16.14.0 4455 - F NR\_newRAT-Core, NR\_IIOT, NR\_L1enh\_URLLC

[R2-2312976](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312976.zip) Correction on when multiple configured grants are signalled Ericsson CR Rel-17 38.331 17.6.0 4456 - A NR\_newRAT-Core, NR\_IIOT, NR\_L1enh\_URLLC

- Samsung thinks that the CR is not needed since we have “Network can only configure configured grant in one BWP using either this field or *configuredGrantConfigToAddModList.*” in configuredGrantConfig. CATT agrees. Ericsson thinks that this sentence strictly doesn’t forbit the NW to use both the list and the single field, in case the NW gives two configured grants. Samsung wants to understand this issue in more details.

* [AT124][802] Correction on when multiple configured grants are signalled (Ericsson)

Scope:

* + - Discuss and conclude if CR similar to those in R2-2312975 and R2-2312976 are needed and update them if needed.

      Intended outcome:

* + - Agreeable CRs in R2-2313716 and R2-2313717 (Ericsson)

     Deadline:

* + - Friday morning session

PUCCH-config

[R2-2312977](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312977.zip) Clarification on modification of PUCCH-Config Ericsson discussion Rel-15 NR\_newRAT-Core

- Huawei is unsure if confirming this would clarify anything.

* RAN2 confirms that a previously configured pucch-Config can be modified (without any specification impact):

- by release and add of the uplink BWP, and

- by signalling again the field pucch-Config with SetupRelease structure set to setup.

Other-config

[R2-2312996](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312996.zip) Clarification on release of OtherConfig when going to Idle Qualcomm Incorporated CR Rel-15 38.331 15.23.0 4459 - F NR\_newRAT-Core

[R2-2312997](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312997.zip) Clarification on release of OtherConfig when going to Idle Qualcomm Incorporated CR Rel-16 38.331 16.14.0 4460 - A NR\_newRAT-Core

[R2-2313001](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313001.zip) Clarification on release of OtherConfig when going to Idle Qualcomm Incorporated CR Rel-17 38.331 17.6.0 4461 - A NR\_newRAT-Core

- Chair wonders if, when UE goes to IDLE, the UE releases everytjhing unless we explicitly say something in the spec. Samsung thinks the wording “release all radio resources,” is covering this behaviour. QC does not think OtherConfig is part of “all radio resources,”, Samsung disagrees and think the CR is not needed. Huawei thinks the change is useful, but want to merge to rapp CR. Samsung thinks that in LTE we don’t have such text but the UE anyway releases otherConfig. Samsung is concerned that if we list this explicitly, there may be other things that should be released but wont, since we don’t mention then. QC thinks we can add those later when we find.

* We intend to capture the change of this CR, but we need more time to check other fields.

DAPS

[R2-2313323](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313323.zip) Correction to NR DAPS handover Google Inc. CR Rel-16 38.331 16.14.0 4487 - F NR\_Mob\_enh-Core

[R2-2313328](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313328.zip) Correction to LTE DAPS handover Google Inc. CR Rel-16 36.331 16.13.0 4977 - F LTE\_feMob-Core

- Huawei thinks this is NBC, and an optimization. Apple thinks the scenario is not real. Google wonders what the UE behaviour is? Huawei think that the UE keeps the params.

* Not pursued

Autonomous BWP switch

[R2-2313501](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313501.zip) Consequences of UE autonomous BWP switch Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

Proposal 1: RAN2 to confirm that UEs not supporting the autonomous CBW change upon UE autonomous BWP switch still support autonomous CBW change IF the SIB1 CBW contains both BWPs.

Proposal 2: RAN2 to clarify in Rel-15 specification how UE handles the CBW change upon BWP switch.

Discussion:

- Apple thinks that the UE will trigger RLF and reestablish on the initial BWP. MediaTek are not OK with P1, and thinks this is not the current UE behaviour. QC, Apple and HW agrees with MediaTek. Nokia wonders if other companies think the scenario cannot happen, or if the UE doesn’t change the BW. MediaTek thinks the scenario cannot happen since all UEs support the whole SIB1 carrier BW.

* Noted, we can revisit this if we need to do some change

#### 5.1.3.2 UE capabilities

UE cap corrections 38306, 38331

interBandMRDC-WithOverlapDL-Bands

[R2-2311747](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311747.zip) Reply LS on update for “interBandMRDC-WithOverlapDL-Bands-r16” in 38.306 ([R4-2317401](http://www.3gpp.org/ftp//tsg_ran/WG4_Radio/TSGR4_108bis/Docs//R4-2317401.zip); contact: Apple) RAN4 LS in Rel-16 TEI16 To:RAN2

*Moved from 5.1.1*

* Noted

[R2-2312346](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312346.zip) Update on UE capability interBandMRDC-WithOverlapDL-Bands-r16 Apple, ZTE Corporation, Sanechips discussion Rel-16 TEI16

[R2-2312347](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312347.zip) Update on UE capability interBandMRDC-WithOverlapDL-Bands-r16 Apple, ZTE Corporation, Sanechips, Ericsson CR Rel-16 38.306 16.14.0 0937 1 F TEI16 [R2-2307861](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123/Docs//R2-2307861.zip)

[R2-2312348](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312348.zip) Update on UE capability interBandMRDC-WithOverlapDL-Bands-r16 Apple, ZTE Corporation, Sanechips, Ericsson CR Rel-17 38.306 17.6.0 0938 1 A TEI16 [R2-2307862](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123/Docs//R2-2307862.zip)

[R2-2313258](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313258.zip) Update to interBandMRDC-WithOverlapDL-Bands-r16 Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.14.0 0945 1 F NR\_newRAT-Core, TEI16 [R2-2308510](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123/Docs//R2-2308510.zip)

[R2-2313259](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313259.zip) Update to interBandMRDC-WithOverlapDL-Bands-r16 Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.6.0 0946 1 A NR\_newRAT-Core, TEI16 [R2-2308511](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123/Docs//R2-2308511.zip)

* Both above are agreed

asyncIntraBandENDC

[R2-2311748](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311748.zip) LS on update for “asyncIntraBandENDC“ ([R4-2317402](http://www.3gpp.org/ftp//tsg_ran/WG4_Radio/TSGR4_108bis/Docs//R4-2317402.zip); contact: Apple) RAN4 LS in Rel-16 TEI16 To:RAN2

*Moved from 5.1.1*

* Noted, and we will wait for further input before we discuss this topic further in RAN2 since we expect more input from RAN4 which we need to consider.

[R2-2312349](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312349.zip) Update on UE capability asyncIntraBandENDC Apple discussion Rel-15 TEI15

[R2-2312350](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312350.zip) Update on UE capability AsyncIntraBandENDC Apple CR Rel-15 38.306 15.22.0 0982 - F TEI15

[R2-2312351](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312351.zip) Update on UE capability AsyncIntraBandENDC Apple CR Rel-16 38.306 16.14.0 0983 - A TEI15

[R2-2312352](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312352.zip) Update on UE capability AsyncIntraBandENDC Apple CR Rel-17 38.306 17.6.0 0984 - A TEI15

[R2-2313262](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313262.zip) Update to asyncIntraBandENDC Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.14.0 1004 - F NR\_newRAT-Core, TEI16

[R2-2313263](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313263.zip) Update to asyncIntraBandENDC Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.6.0 1005 - A NR\_newRAT-Core, TEI16

[R2-2313337](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313337.zip) Consideration on the “asyncIntraBandENDC” ZTE Corporation, Sanechips discussion Rel-16 TEI16

Proposal 1: According the RAN4’s LS, the asyncIntraBandENDC shall be extended to cover the FDD-FDD Inter-band EN-DC with partially overlapping DL bands case.

Proposal 2: Ran2 to confirm whether there is NBC issue if extend the existing asyncIntraBandENDC to cover the FDD-FDD Inter-band EN-DC with partially overlapping DL bands case.

Proposal 3: The legacy asyncIntraBandENDC can be extended to cover the NE-DC case without introducing new signalling.

[R2-2311797](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311797.zip) Left issues on asyncIntraBandENDC and interBandMRDC-WithOverlapDL-Bands-r16 and OPPO discussion Rel-16 TEI16 Revised

[R2-2313574](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313574.zip) Left issues on asyncIntraBandENDC and interBandMRDC-WithOverlapDL-Bands-r16 and OPPO discussion Rel-16 TEI16 [R2-2311797](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311797.zip)

simultaneousRxTxInterBandCA

[R2-2312361](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312361.zip) Correction on the interpretation of the UE capability field simultaneousRxTxInterBandCA Apple Inc CR Rel-15 38.306 15.22.0 0985 - F NR\_newRAT-Core

[R2-2312362](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312362.zip) Correction on the interpretation of the UE capability field simultaneousRxTxInterBandCA Apple Inc CR Rel-16 38.306 16.14.0 0986 - A NR\_newRAT-Core

[R2-2312363](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312363.zip) Correction on the interpretation of the UE capability field simultaneousRxTxInterBandCA Apple Inc CR Rel-17 38.306 17.6.0 0987 - A NR\_newRAT-Core

* The 3 CRs above are agreed

ca-ParametersNRDC

[R2-2313464](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313464.zip) Clarification on ca-ParametersNRDC capability Huawei, HiSilicon CR Rel-15 38.331 15.23.0 4495 - F NR\_newRAT-Core

[R2-2313465](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313465.zip) Clarification on ca-ParametersNRDC capability Huawei, HiSilicon CR Rel-16 38.331 16.14.0 4496 - A NR\_newRAT-Core

[R2-2313466](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313466.zip) Clarification on ca-ParametersNRDC capability Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4497 - A NR\_newRAT-Core

- QC needs more time to check.

* Comeback Friday, see if any progress

Rapporteurs CR

[R2-2313038](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313038.zip) Miscellaneous non-controversial rapporteur corrections on Rel-16 38.306 Intel Corporation, Lenovo, MediaTek Inc. CR Rel-16 38.306 16.14.0 0995 - F NR\_eMIMO-Core, TEI16, NR\_newRAT-Core, NR\_CSIRS\_L3meas-Core

* Agreed

#### 5.1.3.3 Other

This agenda item addresses the idle and inactive behaviour specified in 38.304 or 36.304, LTE-specific changes for the applicable WIs, Other parts not covered elsewhere.

eDRX

[R2-2312635](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312635.zip) Clarification for the use of term and/or within the context of (e)DRX operation Huawei, HiSilicon, Ericsson CR Rel-15 38.304 15.8.0 0361 - F NR\_newRAT-Core

[R2-2312636](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312636.zip) Clarification for the use of term and/or within the context of (e)DRX operation Huawei, HiSilicon, Ericsson CR Rel-16 38.304 16.10.0 0362 - A NR\_newRAT-Core

[R2-2312637](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312637.zip) Clarification for the use of term and/or within the context of (e)DRX operation Huawei, HiSilicon, Ericsson CR Rel-17 38.304 17.6.0 0363 - A NR\_newRAT-Core, NR\_redcap-Core, NR\_SL\_relay-Core

- vivo thinks there is no change. Nokia supports the CR. QC thinks there is currently nothing wrong and does not want to change back to Rel-15. Samsung agrees with QC but would be OK to change from Rel-17. Huawei is OK to change only from Rel-17.

- Vivo wants to remove the last sentence if the paragraph (“In RRC\_IDLE state, if UE specific DRX is not configured by upper layers, the default value is applied”). Huawei agrees.

* The change is agreed unseen from Rel-17 in R2-2313718, but also the sentence “In RRC\_IDLE state, if UE specific DRX is not configured by upper layers, the default value is applied” should be removed.

Sidelink

[R2-2313071](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313071.zip) Correction on NR SL Operation Philips International B.V. CR Rel-16 36.304 16.8.0 0867 - F 5G\_V2X\_NRSL-Core

[R2-2313073](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313073.zip) Correction on NR SL Operation Philips International B.V. CR Rel-17 36.304 17.4.0 0868 - A 5G\_V2X\_NRSL-Core

- Nokia supports. Ericsson thinks the interoperability impact can be updated, wants to merge to rapp CR. Ericsson wants more time.

* Comeback Friday to see if the CR should be agreed.

# 6 NR Rel-17

Essential corrections only. Editorial/clarifications should be sent to be reviewed and approved by spec rapporteurs prior to submission. Editiorials should only be submitted by spec rapporteurs.

## 6.1 Common

(NR\_MG\_enh-Core; leading WG: RAN4; REL-17; WID: [RP-211591](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211591.zip))

(NR\_UDC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-211203](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211203.zip))

(NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: [RP-202363](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_90e/Docs//RP-202363.zip))

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-211548](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211548.zip))

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-212630](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212630.zip))

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: [RP-201040](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-201040.zip))

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: [RP-212610](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212610.zip))

(NR\_Slice -Core; leading WG: RAN2; REL-17; WID: [RP-212534](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212534.zip))

(NR\_QoE-Core; leading WG: RAN3; REL-17; WID: [RP-211406](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211406.zip))

(NR\_ext\_to\_71GHz-Core; leading WG: RAN1; REL-17; WID: [RP-212637](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212637.zip))

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-211566](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211566.zip)): non-RACH-indication parts

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: [RP-211574](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_92e/Docs//RP-211574.zip))

(NR\_feMIMO-Core; leading WG: RAN1; REL-17; WID: [RP-212535](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212535.zip))

(NR\_SmallData\_INACTIVE-Core, leading WG: RAN2; REL-17; WID: [RP-212594](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_93e/Docs//RP-212594.zip))

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: [RP-210854](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_91e/Docs//RP-210854.zip))

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: [RP-201038](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_88e/Docs//RP-201038.zip))

PRACH partitioning items

NR TEI17: Corrections are accepted. New TEI17 tech proposal requirements: a) authored by an operator (and preferably co-signed by more), AND: b) resolves a concrete problem in the market for this operator (no new vendor initiated enhancements).

Includes Rel-17 Work Items without specific R2 Agenda Item, e.g. RAN1 and RAN4 led items, SA2 and CT1 led items (was previously “Rel-17 Other”)

Includes aspects that does not fit under the more specific AIs, e.g. multi-WI aspects.

Tdoc limitation: 7 Tdocs

### 6.1.1 Stage 2 and Organisational

Incoming LSs, etc. You should discuss your stage 2 CRs with the specification rapporteurs before submission. Includes impact to 38.300, 37.340, (36.300 if applicable)

#### 6.1.1.0 In Principle Agreed CRs

[R2-2312549](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312549.zip) Clarification of configuration of transmissionComb in IE SRS-Resource Ericsson CR Rel-17 38.331 17.6.0 4382 1 F NR\_FeMIMO-Core [R2-2311192](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2311192.zip)

* Agreed

#### 6.1.1.1 Other

Mission Critical for MBS

[R2-2311762](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311762.zip) Reply LS on addressing packet loss during multicast MBS delivery ([S2-2311672](http://www.3gpp.org/ftp//tsg_sa/WG2_Arch/TSGS2_159_Xiamen_2023-10/Docs//S2-2311672.zip); contact: Qualcomm) SA2 LS in Rel-17 5MBS, MCOver5MBS, 5GS\_Ph1 To:SA6, RAN2 Cc:CT3, SA4

* Noted

[R2-2311931](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311931.zip) Latency and congestion management for MCPTT Sessions AT&T, FirstNet discussion Rel-17 38.300 NR\_MBS-Core

*Moved from 6.1.1*

[R2-2312959](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312959.zip) Mission Critical UEs and packet loss Ericsson discussion Rel-17 NR\_MBS-Core

*Moved from 6.1.1*

[R2-2312960](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312960.zip) Clarification for Mission Critical UEs Ericsson CR Rel-17 38.300 17.6.0 0735 - F NR\_MBS-Core

*Moved from 6.1.1*

[R2-2313368](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313368.zip) Discussion on MCPTT packet latency requirement based on SA2 LS Huawei, CBN, HiSilicon discussion Rel-17 NR\_MBS-Core

[R2-2313499](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313499.zip) MCPTT UE handling for MBS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

*Moved from 6.1.3.1*

[R2-2313500](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313500.zip) LS on multicast MBS handling for MCPTT Ues Nokia, Nokia Shanghai Bell LS out Rel-17 NR\_MBS-Core To:SA2, SA6, RAN3

*Moved from 6.1.3.1*

Discussion

- Ericsson says that some companies think a note is needed and no note is needed, some other companies think that for congestion, the keep alive signalling from SA2 is not sufficient. Ericsson themselves think that keep alive does not solve all issues. Nokia thinks that in general the SA2 keep alive solution works in general but congestion is perhaps not perfectly handled. Huawei thinks that congestion is not an issue. AT&T thinks that it is up to RAN2 to consider the congestion issue. CATT agrees with Huawei is sufficient and there is no issue in RAN2, and congestion is not a concern. QC thinks that the Ericsson CR is a good baseline. Firstnet supports Ericssons CR as it is. ZTE thinks that for Rel-18 we can release UEs to INACTIVE and it is unclear how the keep alive signalling works for UEs in INACTIVE. Ericsson highlights that stage-2 talks about congestions and we cannot ignore it, and congestion can happen in Rel-17 too. QC confirms that this is for R17.

* [AT124][803] Mission Critical UEs and packet loss (Ericsson)

Scope:

* + - Discuss and conclude if a note is needed and agreeable wording if a note should be added.

      Intended outcome:

* + - Agreeable CR in R2-2313720 (Ericsson)

     Deadline:

* + - Friday morning session

Rapporteurs CR

[R2-2312143](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312143.zip) Miscellaneous Corrections Nokia (Rapporteur), Lenovo, Samsung, vivo CR Rel-17 38.300 17.6.0 0726 - F NR\_IAB-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_QoE-Core

- ZTE wonders why we only focus on DC in “Explicit request by RRC upon synchronous reconfiguration in DC;”. Vivo is OK to not limit to DC, but want to exclude HO. Huawei agrees to remove handover.

* [AT124][804] Miscellaneous Corrections for 38.300 (vivo)

Scope:

* + - Discuss and conclude how to update the CR.

      Intended outcome:

* + - Agreeable CR in R2-2313721 (vivo)

     Deadline:

* + - Friday morning session

### 6.1.3 Control Plane corrections

#### 6.1.3.0 In Principle Agreed CRs

[R2-2312380](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312380.zip) Correction on Type1 HARQ-ACK codebook generation Qualcomm Incorporated CR Rel-17 38.331 17.6.0 4318 1 F TEI17 [R2-2309986](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2309986.zip) Revised

[R2-2313576](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313576.zip)   Correction on Type1 HARQ-ACK codebook generation   Qualcomm Incorporated           CR       Rel-17  38.331   17.6.0  4318     2          F          TEI17 [R2-2312380](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312380.zip)

* Agreed

[R2-2312381](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312381.zip) Correction on Type1 HARQ-ACK codebook generation Qualcomm Incorporated CR Rel-17 38.306 17.6.0 0957 1 F TEI17 [R2-2309987](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2309987.zip)

[R2-2312523](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312523.zip) Correction to RRC for 71 GHz on multi-PUSCH LG Electronics Inc., Ericsson, ASUSTeK, Nokia, Nokia Shanghai Bell, Samsung, Xiaomi, Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4016 5 F NR\_ext\_to\_71GHz-Core [R2-2310115](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310115.zip)

[R2-2312525](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312525.zip) Further correction to RRC for 71 GHz on multi-PUSCH Ericsson, Xiaomi, ASUSTeK, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung, LG Electronics Inc CR Rel-17 38.331 17.6.0 4088 3 F NR\_ext\_to\_71GHz-Core [R2-2310116](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310116.zip)

[R2-2312767](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312767.zip) Correction on RedCap initial UL/DL BWP ZTE Corporation, Sanechips CR Rel-17 38.331 17.6.0 4340 2 F NR\_redcap-Core [R2-2311434](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2311434.zip)

[R2-2312768](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312768.zip) Clarification on the meaning of nogap-noncsg ZTE Corporation, Nokia, Sanechips, CR Rel-17 38.331 17.6.0 4341 1 F NR\_MG\_enh-Core [R2-2310668](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310668.zip)

[R2-2312966](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312966.zip) Correction to disabling scaling factor for Cross-carrier scheduling Ericsson CR Rel-17 38.306 17.6.0 0967 1 F NR\_DSS [R2-2310946](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310946.zip)

[R2-2313467](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313467.zip) Clarification on UplinkTxSwitchingBandParameters Huawei, HiSilicon CR Rel-17 38.306 17.6.0 0962 2 F NR\_RF\_FR1\_enh [R2-2311433](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2311433.zip)

* The 7 CRs above are agreed

[R2-2312815](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312815.zip) Miscellaneous non-controversial corrections Set XX Ericsson CR Rel-17 38.331 17.6.0 4363 1 F NR\_newRAT-Core [R2-2310963](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2310963.zip) Late

- Lenovo indicates that the reference to NR NS-PmaxList has been changed unnecessarily.

* Postponed (see email disc [Post124][801])

[R2-2312406](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312406.zip) Corrections on the search space for RedCap Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4429 - F NR\_redcap-Core

- Ericsson thinks “while SDT procedure is not ongoing **receives** PEI” should be “while SDT procedure is not ongoing **monitors** PEI”. Ericsson think that the title should be “Clarification”.

* Agreed unseen in R2-2313722 with the above changes

#### 6.1.3.1 NR RRC

Corrections to 38331, and related change to other TS if applicable, except UE caps.

CSI reporting

[R2-2312069](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312069.zip) On remaining issues for CSI reporting configuration CATT discussion

Proposal 2: A magic sentence can be added to the CR introducing the agreed UE capability for subband numbering in CSI report.

Discussion on P2:

- Nokia is OK to have a magic sentence.

* A magic sentence is added to the CR introducing the agreed UE capability for subband numbering in CSI report.

[R2-2313536](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313536.zip) Discussion on capability for CSI report subband indexing Nokia, Nokia Shanghai Bell discussion Rel-15 NR\_newRAT-Core

*Moved from 5.1.3.1*

[R2-2312376](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312376.zip) Clarification on the condition of subband reporting Samsung, Ericsson CR Rel-17 38.306 17.6.0 0988 - F NR\_FeMIMO-Core

[R2-2312377](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312377.zip) Clarification on the condition of subband reporting Samsung, Ericsson CR Rel-17 38.331 17.6.0 4427 - F NR\_FeMIMO-Core

Discussion on need to change FD:

- QC is OK to not change the field description. Huawei thinks that the current field description talks about the frequency positions of the subbands, which is not what the RAN1 specs talks about. CATT thinks that the “lowest subband” means one thing in our spec vs. RAN1 specs, but that may be OK and no change is needed.

* We can attempt improving the field description, but even if we do a change, it should not duplicate RAN1 spec wording, instead we can try other clarifications in an offline
* [AT124][805] CSI reporting for subbands (Samsung)

Scope:

* + - Discuss and conclude if a field description update is needed for the CSI-reporting. And implement the capability with magic sentence for this change.

      Intended outcome:

* + - Agreeable CR in R2-2313723 (Samsung)

     Deadline:

* + - Friday morning session

RLM/BFD relaxation

[R2-2312030](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312030.zip) Correction on RLM/BFD relaxation state reporting CATT, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.6.0 4344 2 F NR\_UE\_pow\_sav\_enh-Core [R2-2311427](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2311427.zip)

[R2-2312958](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312958.zip) RLM and BFD relaxation state reporting Ericsson discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

* Comeback Friday.

RedCap - dmrs-TypeA-Position

[R2-2311775](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311775.zip) Clarification on dmrs-TypeA-Position in MIB for RedCap UEs Qualcomm Incorporated CR Rel-17 38.331 17.6.0 4393 - F NR\_redcap-Core

- Ericsson asks if it only applies to this parameters, or other params too, but apparently it is only this parameter where this issue can arise. QC agrees that this is the only parameter which it is interesting for. Huawei thinks there is no UE behaviour w.r.t. MIB on NCD-SSB. QC thinks it is clear that for IDLE the UE uses only one MIB; but for CONNECTED this parameter is used and it is not clear. Vivo supports this CR. Xiaomi wonders if we need to do something special for SDT.

* [AT124][806] Clarification on dmrs-TypeA-Position in MIB for RedCap UEs (Qualcomm)

Scope:

* + - Discuss and conclude if/how to clarify the use of dmrs-TypeA-Position in MIB by RedCap UEs.

      Intended outcome:

* + - Agreeable CR in R2-2313724 (Qualcomm)

     Deadline:

* + - Friday morning session

RedCap - NCD-SSB

[R2-2311712](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311712.zip) LS on NCD-SSB time offset for RedCap UEs in TDD ([R1-2310566](http://www.3gpp.org/ftp//tsg_ran/WG1_RL1/TSGR1_114b/Docs//R1-2310566.zip); contact: Ericsson) RAN1 LS in Rel-17 NR\_redcap-Core To:RAN2 Cc:RAN4

*Moved from 6.1.1.1*

[R2-2311776](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311776.zip) Correction to time offset of NCD-SSB Qualcomm Incorporated CR Rel-17 38.331 17.6.0 4394 - F NR\_redcap-Core

[R2-2313212](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313212.zip) Clarification on NCD-SSB time offset for RedCap UEs in TDD Ericsson CR Rel-17 38.331 17.6.0 4479 - F NR\_redcap-Core Revised

[R2-2313247](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313247.zip) Clarification on NCD-SSB time offset for RedCap UEs in TDD Ericsson CR Rel-17 38.331 17.6.0 4479 1 F NR\_redcap-Core [R2-2313212](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313212.zip)

[R2-2312766](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312766.zip) Correction on ssb-TimeOffset ZTE Corporation, Sanechips CR Rel-17 38.331 17.6.0 4443 - F NR\_redcap-Core

[R2-2313589](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313589.zip) Correction on NCD-SSB time offset for RedCap UEs in TDD CR Rel-17 38.331 17.6.0 4502 - F NR\_redcap-Core Late

- Nokia thinks we should wait since RAN1 are discussion. Huawei thinks that RAN1 may capture this, e.g. that the UE behaviour is undefined if the NW configures against the RAN1 agreement. QC thinks we should agree now since we may have a misalignment between R2 and R1 specs. Vivo agrees that we should change something since RAN1 sent the LS. Vivo has suggestions on other wording. CATT thinks we should capture this.

* [AT124][807] Correction on NCD-SSB time offset for RedCap UEs in TDD (Ericsson)

Scope:

* + - Check RAN1 progress and discuss how to capture the RAN1 indicated requirement/restriction in the field description.
    - Discuss if there is any impact for SDT we need to consider.

      Intended outcome:

* + - Agreeable CR in R2-2313725 (Ericsson)

     Deadline:

* + - Friday morning session

RedCap - BW change

[R2-2311777](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311777.zip) Correction to support autonomous change of UE channel bandwidth during RACH Qualcomm Incorporated, ZTE Corporation, Sanechips, Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4395 - F NR\_redcap-Core

* Agreed

[R2-2312059](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312059.zip) Correction to support autonomous change of UE channel bandwidth during RACH CATT CR Rel-17 38.331 17.6.0 4407 - F NR\_redcap-Core

* Noted

RedCap HD-FDD capability

[R2-2312407](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312407.zip) Correction for the selected band for HD-FDD capability checking by RedCap UE Huawei, HiSilicon CR Rel-17 38.331 17.6.0 4430 - F NR\_redcap-Core

- Ericsson wonders if the HD-FDD capability is per UE or per band? If per UE, this CR is not needed.

* [AT124][808] Correction for the selected band for HD-FDD capability checking by RedCap UE (Huawei)

Scope:

* + - Discuss and conclude if this CR is needed and if so, polish wording to not make the new if-statement applicable to non-RedCap UEs.

      Intended outcome:

* + - Agreeable CR in R2-2313726 (Huawei)

     Deadline:

* + - Friday morning session

RedCap search space monitoring

[R2-2313345](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313345.zip) Clarification to common search space monitoring by RedCap UEs Qualcomm France discussion Rel-17 38.331

* RAN2 confirms that when operating in RedCap-specific initial BWP, a RedCap UE does not monitor any common search space configured in legacy initial BWP, if the RedCap-specific initial BWP contains Coreset0 and CD-SSB.

SCell activation/deactivation

[R2-2311987](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311987.zip) Correction to SCell activation/deactivation MediaTek Inc. CR Rel-17 38.331 17.6.0 4404 - F LTE\_NR\_DC\_enh2-Core

- Chair: We agree this but , if we find more changes needed by end of meeting we can revisit this

* Agreed.

DRX

[R2-2312204](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312204.zip) Correction on C-DRX onDurationTimer And Offset Value range ZTE Corporation, Sanechips CR Rel-17 38.331 17.6.0 4415 - F NR\_ext\_to\_71GHz-Core

[R2-2312205](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312205.zip) Correction on C-DRX OnonDurationTimer And Offset Value range ZTE Corporation, Sanechips CR Rel-17 38.306 17.6.0 0979 - F NR\_ext\_to\_71GHz-Core

- LG thinks this was discussed before, was not agreed then, so no need to agree now unless there is any new (good) reason to agree it now.

* Not pursued

MBS during SDT

[R2-2312712](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312712.zip) Clarification for MBS broadcast reception Samsung CR Rel-17 38.331 17.6.0 4442 - F NR\_MBS-Core

- QC think there are other issues with the note, since RAN1 spec indicates that reception of MBS depends on search space index. Ericsson also has concerns with this CR.

* Postponed

si-SchedulingInfo

[R2-2313101](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313101.zip) Correction on SIB(s) acquisition Philips International B.V. CR Rel-17 38.331 17.6.0 4468 - F NR\_newRAT-Core

* Not pursued

SDT

[R2-2313278](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313278.zip) Correction to SDT-Config handling Google Inc. CR Rel-17 38.331 17.6.0 4485 - F NR\_SmallData\_INACTIVE-Core

- Nokia thinks there is no problem and the CR is not needed. Ericsson also didn’t see this as critical. Apple agrees with Nokia and Ericsson. Huawei thinks the CR is correct.

* Agreed

TransmissionComb

[R2-2313394](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313394.zip) Clarification on the simultaneous configuration of multiple transmission comb values Xiaomi draftCR Rel-17 38.331 17.6.0 F NR\_FeMIMO-Core

* Not pursued since covered by CR in R2-2312549

SSB to CG PUSCH mapping

[R2-2311833](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311833.zip) Corrections for SSB to CG PUSCH mapping for SDT Samsung Electronics Co., Ltd CR Rel-17 38.331 17.6.0 4392 - F NR\_SmallData\_INACTIVE-Core

*Moved from 6.1*

* Comeback Friday

“Legacy” term

[R2-2312123](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312123.zip) Removal of ambiguous term ‘legacy’ Lenovo CR Rel-16 38.331 16.14.0 4412 - F TEI16

* Agreed

[R2-2312124](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312124.zip) Removal of ambiguous term ‘legacy’ Lenovo CR Rel-17 38.331 17.6.0 4413 - F TEI16, NR\_FeMIMO-Core, NR\_IIOT\_URLLC\_enh-Core

* The field description should describe availableSlotOffsetList
* Agreed unseen in R2-2313728

[R2-2312125](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312125.zip) Removal of ambiguous term ‘legacy’ Lenovo CR Rel-17 38.306 17.6.0 0977 - F NR\_pos\_enh-Core, NR\_IIOT\_URLLC\_enh-Core

* Agreed

#### 6.1.3.2 UE capabilities

UE cap corrections 38306, 38331.

BW class V and W

[R2-2311738](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311738.zip) LS on the new channel bandwidth class for FR2-2 ([R4-2315865](http://www.3gpp.org/ftp//tsg_ran/WG4_Radio/TSGR4_108bis/Docs//R4-2315865.zip); contact: Huawei) RAN4 LS in Rel-17 NR\_ext\_to\_71GHz-Core To:RAN2

Moved from 6.1.1.1

[R2-2313468](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313468.zip) Introduction of FR2-2 new CA BW classes Huawei, HiSilicon, Ericsson CR Rel-17 38.331 17.6.0 4498 - B NR\_ext\_to\_71GHz-Core

* Agreed

[R2-2313264](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313264.zip) Introduction of FR2-2 CA BW classes Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.6.0 1006 - B NR\_ext\_to\_71GHz-Core

[R2-2313265](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313265.zip) Introduction of FR2-2 CA BW classes Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.6.0 4483 - B NR\_ext\_to\_71GHz-Core

Max aggregated BW

[R2-2312382](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312382.zip) Additional discussion on maximum aggregated BW UE capability Qualcomm Incorporated discussion Rel-17 NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core Revised

[R2-2313579](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313579.zip) Additional discussion on maximum aggregated BW UE capability Qualcomm Incorporated discussion Rel-17 NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core [R2-2312382](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312382.zip)

[R2-2312383](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312383.zip) Introduction of maximum aggregated bandwidth for FR1 inter-band CA and for FR2 intra-band CA Qualcomm Incorporated draftCR Rel-17 38.306 17.6.0 C NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core Revised

[R2-2313580](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313580.zip) Introduction of maximum aggregated bandwidth for FR1 inter-band CA and for FR2 intra-band CA Qualcomm Incorporated draftCR Rel-17 38.306 17.6.0 C NR\_BCS4-Core, NR\_RF\_FR2\_req\_enh2-Core [R2-2312383](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312383.zip)

- Ericsson thinks we should make the signalling applicable also to intra-band since otherwise the max aggregated BW would become applicable/not applicable based on the current configuration. QC thinks that RAN4 only requested inter-band, but due to fallbacks, the parameter may become applicable also to intra-band. Ericsson thinks RAN4 is not discussion intra-band but assumes that RAN4 would support it if we ask. QC thinks we should send an LS. Apple assumes that this param is applicable to intra-band.

* The CR is endorsed, to be updated once we get feedback from RAN4.
* Send LS to RAN4 asking if the capability should apply to intra-band
* [AT124][809] Max aggregated BW (Qualcomm)

Scope:

* + - Draft an LS to RAN4 to ask if this capability should apply for intra-band.

      Intended outcome:

* + - Approvable LS in R2-2313730 (Qualcomm)

     Deadline:

* + - Friday morning session

Independent gap

[R2-2312384](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312384.zip) Clarifications on the applicability of independent gap UE capabilities Qualcomm Incorporated CR Rel-17 38.306 17.6.0 0989 - F NR\_MG\_enh-Core

[R2-2312385](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312385.zip) Introduction of UE capability for inter-RAT NR FR2 measurements without measurement gap Qualcomm Incorporated CR Rel-17 36.331 17.6.0 4968 - F NR\_MG\_enh-Core

[R2-2312386](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312386.zip) Introduction of UE capability for inter-RAT NR FR2 measurements without measurement gap Qualcomm Incorporated CR Rel-17 36.306 17.4.0 1873 - F NR\_MG\_enh-Core

- ZTE is OK with the LTE CRs, but want to keep “The field also indicates whether the UE supports the FR2 inter-RAT measurement without gaps when (NG)EN-DC is not configured.”.

* [AT124][810] Independent gaps (Qualcomm)

Scope:

* + - Discuss and conclude if/how to update the CRs on “Introduction of UE capability for inter-RAT NR FR2 measurements without measurement gap”

      Intended outcome:

* + - Agreeable CR in R2-2313731, R2-2313732 and R2-2313733, if updated CRs needed (Qualcomm)

     Deadline:

* + - Friday morning session

Modulation order for RedCap

[R2-2312627](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312627.zip) Correction on supportedModulationOrderDL for Redcap for FR1 Xiaomi, Intel, Huawei, HiSilicon draftCR Rel-17 38.331 17.6.0 NR\_redcap-Core

- Ericsson agrees with the understanding but doesn’t think a CR is needed.

* Change the title to “Clarification” instead of “Correction”. Should be a real CR, not draft.
* Agreed unseen in R2-2313734.

drx-Adaptation

[R2-2313185](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313185.zip) Correction on UE capabilities of FR2-2 and IIoT ASUSTeK CR Rel-17 38.306 17.6.0 1000 - F NR\_ext\_to\_71GHz-Core, NR\_IIOT\_URLLC\_enh-Core

- Ericsson thinks we should polish wording.

* [AT124][811] Correction on UE capabilities of FR2-2 and IIoT (ASUSTek)

Scope:

* + - Update wording of the CR “Correction on UE capabilities of FR2-2 and IIoT”

      Intended outcome:

* + - Agreeable CR in R2-2313735 (ASUSTek)

     Deadline:

* + - Friday morning session

Multiple CORESET capability for RedCap

[R2-2313210](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313210.zip) Correction on multipleCORESET for RedCap UEs Ericsson, Qualcomm Inc., ZTE Corporation CR Rel-17 38.331 17.6.0 4478 - F NR\_redcap-Core Revised

[R2-2313211](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313211.zip) Correction on multipleCORESET for RedCap UEs Ericsson, Qualcomm Inc., ZTE Corporation CR Rel-17 38.306 17.6.0 1003 - F NR\_redcap-Core Revised

[R2-2313245](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313245.zip) Correction on multipleCORESET for RedCap UEs Ericsson, Qualcomm Inc., ZTE Corporation CR Rel-17 38.331 17.6.0 4478 1 F NR\_redcap-Core [R2-2313210](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313210.zip)

[R2-2313246](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313246.zip) Correction on multipleCORESET for RedCap UEs Ericsson, Qualcomm Inc., ZTE Corporation CR Rel-17 38.306 17.6.0 1003 1 F NR\_redcap-Core [R2-2313211](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313211.zip)

- Huawei wonders why this is Rel-17? ZTE thinks this is important for current implementations and hence want to solve this as soon as possible (Rel-17). MediaTek thinks this is an optimization and wants to wait to Rel-18. Vivo supports to do this in Rel-17, and its just a capability. QC thinks that the CR also clarifies how current spec works, and that is essential, and the new capability is useful and do not want to delay. Apple does not think this is critical.

- Huawei does not think this is critical but is OK to do this in Rel17. QC thinks this is essential.

* The CR only addresses the case when in the RedCap specific initial DL BWP when it does not contain CD-SSB and CORESET#0.
* Both above are agreed.

BW class R, S, T, U

[R2-2311737](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311737.zip) Reply LS on FR2 CA BW class of R-U ([R4-2315816](http://www.3gpp.org/ftp//tsg_ran/WG4_Radio/TSGR4_108bis/Docs//R4-2315816.zip); contact: vivo) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

*Moved from 6.1.1.1*

* Noted

[R2-2313260](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313260.zip) Introduction of FR2 FBG2 CA BW classes Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE Corporation, Sanechips, Qualcomm, Xiaomi Communications CR Rel-17 38.306 17.6.0 0678 5 B NR\_RF\_FR2\_req\_enh2-Core [R2-2210245](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210245.zip)

[R2-2313261](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313261.zip) Introduction of FR2 FBG2 CA BW classes Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, ZTE Corporation, Sanechips, Qualcomm, Xiaomi Communications CR Rel-17 38.331 17.6.0 2867 6 B NR\_RF\_FR2\_req\_enh2-Core [R2-2210243](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210243.zip)

* Both agreed

High power limit

[R2-2313451](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313451.zip) Correction to support higher power limit capability for inter-band UL EN-DC MediaTek Inc., Ericsson, Nokia, Nokia Shanghai Bell CR Rel-17 38.306 17.6.0 1009 - F Power\_Limit\_CA\_DC

[R2-2313452](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313452.zip) Correction to support higher power limit capability for inter-band UL EN-DC MediaTek Inc., Ericsson, Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.6.0 4494 - F Power\_Limit\_CA\_DC

* Comeback Friday to see if there is RAN4 progress

Rapporteurs CR

[R2-2313039](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313039.zip) Miscellaneous non-controversial rapporteur corrections on rel-17 38.306 Intel Corporation, Lenovo, MediaTek Inc. CR Rel-17 38.306 17.6.0 0996 - F NR\_eMIMO-Core, TEI16, NR\_MBS-Core, NR\_newRAT-Core, NR\_CSIRS\_L3meas-Core, TEI17

- Intel says the CR needs to be split and we can look at the split CRs on Friday.

* Comeback Friday see split CRs

#### 6.1.3.3 Other

Including idle and inactive behaviour specified in 38.304 or 36.304.

[R2-2312961](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312961.zip) eDRX corrections Ericsson CR Rel-17 38.304 17.6.0 0366 - F NR\_UE\_pow\_sav\_enh-Core, NR\_redcap-Core Revised

[R2-2313870](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313870.zip) eDRX corrections Ericsson CR Rel-17 38.304 17.6.0 0366 1 F NR\_UE\_pow\_sav\_enh-Core, NR\_redcap-Core [R2-2312961](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312961.zip)

- Xiaomi do not think there is a need for a CR and prefers existing wording.

- Vivo thinks that the first change is OK, but does not agree with the second change.

* [AT124][812] eDRX corrections (Ericsson)

Scope:

* + - See if/how to update the wording of R2-2313870

      Intended outcome:

* + - Agreeable CR in R2-2313736 (Ericsson)

     Deadline:

* + - Friday morning session

# 7 Rel-18

## 7.19 Enhanced support of reduced capability NR devices

(NR\_redcap\_enh-Core; leading WG: RAN1; REL-18; WID: [RP-232671](http://www.3gpp.org/ftp//tsg_ran/TSG_RAN/TSGR_101/Docs//RP-232671.zip))

Time budget: 1 TU

Tdoc Limitation: 2 tdocs

### 7.19.1 Organizational

Incoming LSs, running CRs, etc.

LSs

[R2-2311723](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311723.zip) Reply LS on INACTIVE eDRX above 10.24sec and SDT ([R3-235765](http://www.3gpp.org/ftp//tsg_ran/WG3_Iu/TSGR3_121-bis/Docs//R3-235765.zip); contact: Ericsson) RAN3 LS in Rel-18 NR\_REDCAP\_Ph2, NR\_redcap\_enh-Core, NR\_MT\_SDT-Core To:SA2, CT4 Cc:RAN2

[R2-2311760](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311760.zip) Reply LS on INACTIVE eDRX above 10.24sec and SDT ([S2-2311359](http://www.3gpp.org/ftp//tsg_sa/WG2_Arch/TSGS2_159_Xiamen_2023-10/Docs//S2-2311359.zip); contact: Intel) SA2 LS in Rel-18 NR\_REDCAP\_Ph2, NR\_redcap\_enh-Core, NR\_MT\_SDT-Core To:RAN3, CT4 Cc:RAN2

Remaining open issues

[R2-2313221](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313221.zip) Remaining open issues in Rel-18 eRedCap WI Ericsson discussion Rel-18 NR\_redcap\_enh-Core

[R2-2312186](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312186.zip) Open topics on UE capabilities for Rel-18 eRedCap WI Intel Corporation, Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core Revised

[R2-2313556](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313556.zip) Open topics on UE capabilities for Rel-18 eRedCap WI Intel Corporation, Huawei, HiSilicon, Ericsson discussion Rel-18 NR\_redcap\_enh-Core [R2-2313556](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313556.zip)

Running CRs

[R2-2311911](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311911.zip) Running MAC CR for eRedCap vivo (Rapporteur) CR Rel-18 38.321 17.6.0 1694 - B NR\_redcap\_enh-Core

[R2-2311965](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311965.zip) Introduction of eRedCap in TS 38.300 OPPO CR Rel-18 38.300 17.6.0 0729 - B NR\_redcap\_enh-Core

[R2-2312189](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312189.zip) UE capabilities for Rel-18 eRedCap WI Intel Corporation draftCR Rel-18 38.306 17.6.0 NR\_redcap\_enh-Core Revised

[R2-2313727](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313727.zip) UE capabilities for Rel-18 eRedCap WI Intel Corporation draftCR Rel-18 38.306 17.6.0 NR\_redcap\_enh-Core [R2-2312189](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312189.zip)

[R2-2312190](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312190.zip) UE capabilities for Rel-18 eRedCap WI Intel Corporation draftCR Rel-18 38.331 17.6.0 NR\_redcap\_enh-Core

[R2-2312638](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312638.zip) Introduction of eRedCap in TS 38.304 Huawei, HiSilicon CR Rel-18 38.304 17.6.0 0364 - B NR\_redcap\_enh-Core

[R2-2313217](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313217.zip) Introduction of eRedCap UEs Ericsson CR Rel-18 38.331 17.6.0 4480 - B NR\_redcap\_enh-Core Late

[R2-2312187](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312187.zip) [Temporary CR to TS 38.306] [RAN1 lead features] UE capabilities for Rel-18 eRedCap WI Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core Revised

[R2-2313557](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313557.zip) [Temporary CR to TS 38.306] [RAN1 lead features] UE capabilities for Rel-18 eRedCap WI Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core [R2-2312187](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312187.zip)

[R2-2312188](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312188.zip) [Temporary CR to TS 38.331] [RAN1 lead features] UE capabilities for Rel-18 eRedCap WI Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

### 7.19.2 Enhanced eDRX in RRC\_INACTIVE

Remaining details, if any.

Sync of eDRX

[R2-2312738](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312738.zip) Discussion on eDRX allowed Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

Capability and parameter naming

[R2-2312241](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312241.zip) Remaining issues of enhanced eDRX in RRC\_INACTIVE ZTE Corporation, Sanechips discussion NR\_redcap\_enh-Core

[R2-2312438](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312438.zip) Remaining issues in enhanced eDRX in RRC\_INACTIVE Samsung discussion Rel-18 NR\_redcap\_enh-Core

### 7.19.3 Further reduced UE complexity in FR1

*Remaining details, if any.*

Partitioning details and paging

[R2-2311912](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311912.zip) Discussion on access restriction for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

Focus on P4, P5, P7, P8

2-step

[R2-2312359](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312359.zip) eRedCap 2-step RACH open issues Apple discussion Rel-18 NR\_redcap\_enh-Core

[R2-2311983](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311983.zip) Discussion on remaining issues on early indication for eRedcap Xiaomi Communications discussion

[R2-2311913](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311913.zip) Discussion on 2-step RACH for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core [R2-2309734](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_123bis/Docs//R2-2309734.zip)

[R2-2313124](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313124.zip) 2-step RA for R18 eRedCap Nokia, Nokia Shanghai Bell discussion NR\_redcap\_enh-Core

[R2-2312041](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312041.zip) 2-step RACH early indication for eRedCap NEC discussion Rel-18 NR\_redcap\_enh-Core

[R2-2313490](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313490.zip) Discussion on 2-step RA for eRedCap UEs Ericsson, CEPRI discussion Rel-18 NR\_redcap\_enh-Core [R2-2313224](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313224.zip)

[R2-2311956](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311956.zip) Discussion on early indication for eRedCap UEs OPPO discussion Rel-18 NR\_redcap\_enh-Core

[R2-2311957](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311957.zip) Draft LS on MsgA PRACH based early indication for eRedCap UEs OPPO LS out Rel-18 NR\_redcap\_enh-Core To:RAN1

[R2-2313461](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313461.zip) Discussion on early indication for Rel-18 eRedCap UE LG Electronics Inc. discussion Rel-18 NR\_redcap\_enh-Core

Ignoring the capability filtering

[R2-2312639](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312639.zip) Discussion on capaiblity of eRedCap UE Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

[R2-2312915](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312915.zip) Discussion on the TP of optional UE capability filter for eRedCap UE Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2312439](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312439.zip) Remaining issues in further reduced UE complexity in FR1 Samsung discussion Rel-18 NR\_redcap\_enh-Core

CFRA fallback and condition for AdditionalRACH

[R2-2312408](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312408.zip) Issues on the identification of eRedCap UEs Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

Focus on P2 and P3

SON/MDT

[R2-2312918](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312918.zip) Discussion on SON/MDT reports for eRedCap Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2312060](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312060.zip) Discussion on reducing SON/MDT memory requirements for eRedCap UEs CATT discussion TEI18

MBS

[R2-2313291](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313291.zip) Discussion on eRedCap CFR for MBS NTT DOCOMO INC.. discussion Rel-18 NR\_redcap\_enh-Core

Msg5

[R2-2313339](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313339.zip) Msg5 indication after initial access for eRedCap UEs CATT, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Xiaomi discussion Rel-18 NR\_redcap\_enh-Core

[R2-2313502](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313502.zip) UE capability and relaxed processing timeline for eRedCap UEs Ericsson, CEPRI discussion Rel-18 NR\_redcap\_enh-Core [R2-2313227](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313227.zip)

[R2-2312243](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312243.zip) Remaining issues of further reduced UE complexity in FR1 ZTE Corporation, Sanechips discussion NR\_redcap\_enh-Core

Old or extended LCID space

[R2-2311984](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2311984.zip) Discussion on LCID selection for eRedcap UE Xiaomi Communications discussion

[R2-2312917](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312917.zip) Discussion on LCID solution of early indication for eRedCap UE Qualcomm Incorporated discussion NR\_redcap\_enh-Core

[R2-2312066](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312066.zip) Discussion on separate LCIDs for feature combination CATT discussion Rel-18 NR\_redcap\_enh-Core

[R2-2312658](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2312658.zip) Discussion on further reduced UE complexity CMCC discussion Rel-18 NR\_redcap\_enh-Core

*Moved from 7.19.2*

Withdrawn/Old revisions

[R2-2313488](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313488.zip) UE capability and relaxed processing timeline for eRedCap UEs Ericsson, CEPRI discussion Rel-18 NR\_redcap\_enh-Core [R2-2313227](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313227.zip) Withdrawn

[R2-2313487](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313487.zip) Discussion on 2-step RA for eRedCap UEs Ericsson, CEPRI discussion Rel-18 NR\_redcap\_enh-Core [R2-2313224](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313224.zip) Withdrawn

[R2-2313224](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313224.zip) Discussion on 2-step RA for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core Revised

[R2-2313227](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_124/Docs//R2-2313227.zip) UE capability and relaxed processing timeline for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core Revised

# Summary

**Email discussions:**

[ [AT124][800] Organizational – Maintenance and eRedCap (Ericsson)](#_Toc150943206)

[ [AT124][801] eNB/NG-eNB clarification (CATT)](#_Toc150943207)

[ [Post124][801] Miscellaneous non-controversial corrections Set XX (Ericsson)](#_Toc150943208)

[ [AT124][802] Correction on when multiple configured grants are signalled (Ericsson)](#_Toc150943209)

[ [AT124][803] Mission Critical UEs and packet loss (Ericsson)](#_Toc150943210)

[ [AT124][804] Miscellaneous Corrections for 38.300 (vivo)](#_Toc150943211)

[ [AT124][805] CSI reporting for subbands (Samsung)](#_Toc150943212)

[ [AT124][806] Clarification on dmrs-TypeA-Position in MIB for RedCap UEs (Qualcomm)](#_Toc150943213)

[ [AT124][807] Correction on NCD-SSB time offset for RedCap UEs in TDD (Ericsson)](#_Toc150943214)

[ [AT124][808] Correction for the selected band for HD-FDD capability checking by RedCap UE (Huawei)](#_Toc150943215)

[ [AT124][809] Max aggregated BW (Qualcomm)](#_Toc150943216)

[ [AT124][810] Independent gaps (Qualcomm)](#_Toc150943217)

[ [AT124][811] Correction on UE capabilities of FR2-2 and IIoT (ASUSTek)](#_Toc150943218)

[ [AT124][812] eDRX corrections (Ericsson)](#_Toc150943219)

[ [AT124][8XX] Template (Company)](#_Toc150943220)

**Comebacks:**

[**** Comeback Friday to see how we should proceed.](#_Toc150943175)

[**** Comeback Friday (see offline related to R2-2312143)](#_Toc150943176)

[**** Comeback Friday, see if any progress](#_Toc150943177)

[**** Comeback Friday to see if the CR should be agreed.](#_Toc150943178)

[**** Comeback Friday.](#_Toc150943179)

[**** Comeback Friday](#_Toc150943180)

[**** Comeback Friday to see if there is RAN4 progress](#_Toc150943181)

[**** Comeback Friday see split CRs](#_Toc150943182)

# Note to self (For Mattias)

**Tdoc number assignment (to be allocated by Mattias):**

R2-2313711 Corrections to inter-node RRC messages for 5GC CATT

R2-2313712 Correction on the UL HARQ RTT timer length MediaTek

R2-2313713 Correction on the UL HARQ RTT timer length MediaTek

R2-2313714 Miscellaneous non-controversial corrections Set XX Ericsson

R2-2313715 Miscellaneous non-controversial corrections Set XX Ericsson

R2-2313716 Correction on when multiple configured grants are signalled Ericsson

R2-2313717 Correction on when multiple configured grants are signalled Ericsson

R2-2313718 Clarification for the use of term and/or within the context of (e)DRX operation Huawei, Hisilicon, Ericsson

R2-2313719 Miscellaneous non-controversial corrections Set XX Ericsson

R2-2313720 Clarification for Mission Critical UEs Ericsson

R2-2313721 Miscellaneous Corrections vivo

R2-2313722 Corrections on the search space for RedCap Huawei

R2-2313723 CSI reporting for subbands Samsung

R2-2313724 Clarification on dmrs-TypeA-Position in MIB for RedCap UEs Qualcomm

R2-2313725 Correction on NCD-SSB time offset for RedCap UEs in TDD Ericsson

R2-2313726 Correction for the selected band for HD-FDD capability checking by RedCap UE Huawei

R2-2313727 UE capabilities for Rel-18 eRedCap WI Intel

R2-2313728 Removal of ambiguous term ‘legacy’ Lenovo

R2-2313729 Corrections to inter-node RRC messages for 5GC CATT

R2-2313730 Draft LS to RAN4 on Max aggregated BW Qualcomm

R2-2313731 Clarifications on the applicability of independent gap UE capabilities Qualcomm

R2-2313732 Introduction of UE capability for inter-RAT NR FR2 measurements without measurement gap Qualcomm

R2-2313733 Introduction of UE capability for inter-RAT NR FR2 measurements without measurement gap Qualcomm

R2-2313734 Correction on supportedModulationOrderDL for Redcap for FR1 Xiaomi

R2-2313735 Correction on UE capabilities of FR2-2 and IIoT ASUSTek

R2-2313736 eDRX corrections Ericsson

R2-2313737

R2-2313738

R2-2313739

R2-2313740

R2-2313741

R2-2313742

R2-2313743

R2-2313744

R2-2313745

R2-2313746

R2-2313747

R2-2313748

R2-2313749

R2-2313750

R2-2313751

R2-2313752

R2-2313753

R2-2313754

R2-2313755

R2-2313756

R2-2313757

R2-2313758

R2-2313759

R2-2313760

**Templates:**

* [AT124][8XX] Template (Company)

Scope:

* + - Discuss and conclude …

      Intended outcome:

* + - Agreeable CR in R2-23xxxxx (Company)
    - Approvable LS in R2-23xxxxx (Company)

     Deadline:

* + - Friday morning session