3GPP TSG-RAN WG2 Meeting #101bis R2-18xxxxx

Sanya, China, 16th - 20th April 2018

Source: RAN2 Chairman (Intel)

Title: Proposed Agenda

# 1 Opening of the meeting (9 AM)

## 1.1 Call for IPR

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| The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs** they become aware of.  The delegates were asked to take note that they were hereby invited:   * to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP. * to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (http://webapp.etsi.org/Ipr/). |

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG2 Chairman.

## 1.2 Network usage conditions

The PCG has laid down the following network usage conditions

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| --- |
| 1. **Users shall not use the network to engage in illegal activities. This includes activities such as copyright violation, hacking, espionage or any other activity that may be prohibited by local laws.**  2. **Users shall not engage in non-work related activities that consume excessive bandwidth** or cause significant degradation of the performance of the network.  Since the network is a shared resource, users should exercise some basic etiquette when using the 3GPP network at a meeting. It is understood that high bandwidth applications such as downloading large files or video streaming might be required for business purposes, but delegates should be strongly discouraged in performing these activities for personal use. Downloading a movie or doing something in an interactive environment for personal use essentially wastes bandwidth that others need to make the meeting effective. The meeting chairman should remind end users that the network is a shared resource; the more one user grabs, the less there is for another. Email and its attachments already take up significant bandwidth (certain email programs are not very bandwidth efficient). In case of need the chair can ask the delegates to restrict IT usage to things that are essential for the meeting itself.  **1. DON’T place your WiFi device in ad-hoc mode**  **2. DON’T set up a personal hotspot in the meeting room**  **3. DO try 802.11a if your WiFi device supports it**  **4. DON’T manually allocate an IP address**  **5. DON’T be a bandwidth hog by streaming video, playing online games, or downloading huge files**  **6. DON’T use packet probing software which clogs the local network (e.g., packet sniffers or port scanners)** |

## 1.3 Other

|  |
| --- |
| In accordance with the Working Procedures it is reaffirmed that:  (i) compliance with all applicable antitrust and competition laws is required;  (ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and  (iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP |

Note on (i): In case of question please contact your legal counsel.

Note on (ii): WIDs don’t need to be submitted to the RAN2 meeting and will typically not be discussed here either.

# 2 General

THANK YOU to companies that request TDoc numbers and submit contributions early before deadline (really appreciated). Will start to refrain from treating late documents.

## 2.1 Approval of the agenda

A draft schedule for the week is provided as a separate document, distributed via the RAN2 email reflector and made available during the meeting week in the RAN2\Inbox\Chairmans\_Notes folder.

## 2.2 Approval of the report of the previous meeting

## 2.3 Reporting from other meetings

## 2.4 Others

Rapporteur changes

Spec former rapporteur proposed new rapporteur

Isolated impact analysis

Note that an isolated impact analysis is required for Rel-8 to Rel-14 CRs from Q3 2017 onwards.

Only corrections where there is a proven problem are allowed for frozen releases (Rel-8 to Rel-14).

RAN2 WG compendium

Latest version can always be found at ftp://ftp.3gpp.org/tsg\_ran/WG2\_RL2/Org/RAN2\_Compendium/

Drafting rules

Note that specification drafting rules in TR 21.801 must be followed when drafting a CR and draft TS/TR.

Latest version can always be found at http://www.3gpp.org/ftp/specs/archive/21\_series/21.801/

Time Budget

The time budget endorsed at RAN-78 is available in RP-180566

Offline discussion during RAN2 meeting

Chairs will allocate a number for offline discussions during the meeting. Create a folder starting with this number within inbox/drafts and use this to share any documents relating to the offline discussion (please use format "nnn ....", i.e. a 3 digit number). Also use this number in the title of any reflector emails relating to this offline discussion. (please use format "[101 Offline#nnn]....."). Do not share documents over the reflector during the meeting

# 3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

# 4 Void

# 5 Void

# 6 LTE: Rel-12 and earlier releases

Including corrections related to the following WIs:

(LTE-L23, leading WG: RAN2, REL-8, started: Sep. 06, closed: Dec. 08, WID: RP-080747)

(LTE\_CA-Core, leading WG: RAN1, REL-10, started: Dec. 09, closed: June 11, WID: RP-100661)

(LTE\_UL\_MIMO-Core, leading WG: RAN1, REL-10, started: Dec.09, closed: June 11, WID: RP-100959)

(LTE\_eDL\_MIMO-Core, leading WG: RAN1, REL-10, started: Dec.09, closed: March 11, WID: RP-100196)

(LTE\_Relay-Core, leading WG: RAN1, REL-10, started: Dec. 09, closed: June 11, WID: RP-110911)

(MBMS\_LTE\_enh-Core, leading WG: RAN2, REL-10, started: June 10, closed: March 11, WID: RP-101244)

(MDT\_UMTSLTE-Core, leading WG: RAN2, REL-10, started: Dec. 09, closed: June 11, WID: RP-100360)

(eICIC\_LTE-Core, leading WG: RAN1, REL-10, started: March 10, closed: June 11, WID: RP-100383)

(SONenh\_LTE-Core, leading WG: RAN3, REL-10, started: March 10, closed: June 11, WID: RP-101004)

(LTE\_CA\_enh-Core, leading WG: RAN1, REL-11, started: March 11, closed: Mar.13, WID: RP-121999)

(MBMS\_LTE\_SC-Core, leading WG: RAN2, REL-11, started: June 10, closed: Sep.12, WID: RP-120258)

(LTE\_eDDA-Core, leading WG: RAN2, REL-11, started: March 11, closed: Dec.12, WID: RP-120256)

(LCS\_LTE-NBPS-Core, leading WG: RAN2, REL-11, started: March 09, closed: June. 13, WID: RP-131259)

(eICIC\_enh\_LTE-Core, leading WG: RAN1, REL-11, started: March 11, closed: Dec. 12, WID: RP-120860)

(SPIA\_IDC\_LTE-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Dec. 12, WID: RP-111355)

(COMP\_LTE\_DL-Core, leading WG: RAN1, REL-11, started: Sep.11, closed: Dec.12, WID: RP-111365)

(COMP\_LTE\_UL-Core, leading WG: RAN1, REL-11, started: Sep.11, closed: Dec.12, WID: RP-111365)

(LTE\_TDD\_add\_subframe, leading WG: RAN1, REL-11, started: March 12; closed: Sep. 12, WID: RP-120384)

(FS\_HetNet\_eMOB\_LTE, leading WG: RAN2, REL-11, started: March 11, closed: Sep. 12, WID: RP-110709)

(LTE\_enh\_dl\_ctrl-Core, leading WG: RAN1, REL-11, started: Dec. 11, closed: Dec. 12, WID: RP-120871)

(LTE\_SC\_enh\_dualC-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Dec.14, WID: RP-141797)

(LTE\_SC\_enh\_L1-Core, leading WG: RAN1, REL-12, started: Dec.13, closed: Dec.14, WID: RP-132073)

(LTE\_D2D\_Prox-Core, leading WG: RAN1, REL-12, started: Mar.14, closed: Mar.15, WID: RP-142043)

(MBMS\_LTE\_OS-Core, leading WG: RAN2, REL-12, started: Sep.13, closed: Dec.14, WID: RP-140282)

(LTE\_NAICS-Core, leading WG: RAN1, Rel-12, started: Mar 14, closed: Dec.14, WID: RP-140519)

(LC\_MTC\_LTE-Core, leading WG: RAN1, REL-12, started: Jun 13, closed: Dec 14, WID: RP-140522)

(GCSE\_LTE-MBMS\_CM-Core, leading WG: RAN3, started: Sep. 14, closed: Mar. 2015, WID: RP-141035)

(LTE\_CA\_TDD\_FDD-Core, leading WG: RAN1, REL-12, started: Jun 13, closed: Jun 14, WID: RP-140465)

(LCS\_BDS-LTE-Core, leading WG: RAN2, REL-12, started: Mar 13, closed: Dec 13, WID: RP-130416)

(LTE\_eDL\_MIMO\_enh-Core, leading WG: RAN1, REL-12, started: Sep 12, closed: June 14, WID: RP-121416)

(HetNet\_eMOB\_LTE-Core, leading WG: RAN2, REL-12, started: Dec.12, , closed: Sep 14, WID: RP-122007)

(Cov\_Enh\_LTE-Core, leading WG: RAN1, REL-12, started: Jun.13, closed: Jun.14, WID: RP-130833)

(LTE\_TDD\_eIMTA-Core, leading WG: RAN1, REL-12, started: Dec 12, closed: Jun.14, WID: RP-121772)

(SCM\_LTE-Core, leading WG: RAN2, REL-12, started: Mar.14, closed: Sep.14, WID: RP-140434)

Including any LTE corrections related to the following joint UMTS/LTE WIs:

(SIMTC-RAN\_OC-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Sep. 12, WID: RP-111373)

(eMDT\_UMTSLTE-Core, leading WG: RAN2, REL-11, started: Sep.11, closed: Dec.12, WID: RP-121204)

(SONenh2\_LTE\_UTRA-Core, leading WG: RAN3, REL-11, started: Sep.11, closed: Dec.12, WID: RP-120314)

(rSRVCC-GERAN, leading WG: GERAN2, REL-11, started: Sep.11, closed: Nov.13, WID: GP-111290)

(EHNB\_enh3-Core, leading WG: RAN3, REL-12, started: Sep.12, closed: Dec 13, WID: RP-130741)

(MTCe\_RAN-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Sep.14, WID: RP-132053)

(UTRA\_LTE\_WLAN\_interw-Core, leading WG: RAN2, REL-12, started: Dec.13, closed: Sep.14, WID: RP-132101)

(LTE\_UTRA\_IncMon-Core, leading: RAN4, REL-12, started: Dec.13, closed: Dec. 14, WID: RP-132061)

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

# 7 LTE: Rel-13

## 7.1 WI: Further LTE Physical Layer Enhancements for MTC

(LTE\_MTCe2\_L1-Core, leading WG: RAN1, REL-13; started: Sep. 14, closed: Mar. 16, WID: RP-150492)

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

*Including ou*tput of email discussion [101#51][LTE/MTC R13] DRX for MTC (DOCOMO)

## 7.2 WI: Narrowband IOT

(NB\_IOT-Core; leading WG: RAN1; started: Sep. 15; target: Jun. 16; WID: RP-152284)

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

## 7.3 Other LTE Rel-13 WIs

Including corrections related to the following WIs:

(LTE\_LAA-Core, leading WG: RAN1, REL-13; started: June 15, closed: Dec. 15, WID: RP-151045)

(LTE\_CA\_enh\_b5C-Core, leading WG: RAN1, REL-13; started: Dec. 14, closed: Dec. 15, WID: RP-151984)

(LTE\_SC\_PTM-Core, leading WG: RAN2, REL-13; started: June 15, closed: Dec. 15, WID: RP-151110)

(LTE\_eD2D\_Prox-Core, leading WG: RAN2, REL-13; started: Dec. 14, closed: Mar. 16, WID: RP-150441)

(LTE\_MC\_load-Core, leading WG: RAN2, started: Mar. 15, closed: Dec. 15, WID: RP-152181)

(LTE\_dualC\_enh-Core, leading WG: RAN2, started: Mar. 15, closed: Dec. 15, WID: RP-151739)

(LTE\_extDRX-Core; leading WG: RAN2; started: Mar. 15; closed: Mar. 16; WID: RP-150493)

(LTE\_EBF\_FDMIMO-Core; leading WG: RAN1; started: June. 15; closed: Dec. 15; WID: RP-151085)

(LTE\_eMDT2-Core; leading WG: RAN2; started: Sep. 15; closed: Dec 15; WID: RP-151611)

(UTRA\_LTE\_iPos\_enh-Core; leading WG: RAN2; started: Sep. 15; closed: Dec 15; WID: RP-152251)

(LTE\_WLAN\_radio-Core, leading WG: RAN2, started: Mar. 15, closed: Mar. 16, WID: RP-152213)

(LTE\_WLAN\_radio\_legacy-Core; leading WG: RAN2; started: Sep. 15; closed: Mar 15; WID: RP-151615)

Including any LTE corrections related to the following joint UMTS/LTE WIs:

(ACDC-RAN-Core; leading WG: RAN2; REL-13; started: Mar. 15; closed: Dec. 15; RP-150662)

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

# 8 LTE Rel-14

## 8.1 WI: Enhanced LAA for LTE

(LTE\_eLAA-Core; leading WG: RAN1; REL-14; started: Dec. 15; closed: Mar. 17; WID:RP-162229)

This agenda item is for correction CRs to the closed WI.

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

## 8.2 WI: Support for V2V services based on LTE sidelink

(LTE\_SL\_V2V-Core; leading WG: RAN1; started: Dec. 15; closed: Sept 16; WID: RP-161603)

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

## 8.3 Void

## 8.4 Void

## 8.5 WI: Enhanced LTE-WLAN Aggregation (eLWA)

(LTE\_WLAN\_aggr-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Mar. 17; WID: RP-160923)

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

## 8.6 WI: Further mobility enhancements in LTE

(LTE\_eMob-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Mar. 17; WID:RP-162503)

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

## 8.7 WI: Further Indoor Positioning enhancements for UTRA and LTE

(UTRA\_LTE\_iPos\_enh2-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Dec. 16; WID: RP-162026)

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

## 8.8 WI: L2 latency reduction techniques for LTE

(LTE\_LATRED\_L2-Core; leading WG: RAN2; REL-14; started: Mar. 16; closed: Sep. 16; WID: RP-160667)

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

## 8.9 Void

## 8.10 WI: eMBMS enhancements for LTE

(MBMS\_LTE\_enh2-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Sep. 17; WID:RP-162231)

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

## 8.11 WI: Enhancements of NB-IoT

(NB\_IOTenh-Core; leading WG: RAN1; REL-14; started: June 16; closed: Jun. 17; WID: RP-171060)

Note: SC-PTM for eNB-IoT is handled under 8.12.1

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

## 8.12 WI: Further Enhanced MTC for LTE

(LTE\_feMTC-Core; leading WG: RAN1; REL-14; started: June 16; closed: Jun. 17; WID: RP-170532)

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

## 8.13 WI: LTE-based V2X Services

(LTE\_V2X-Core, leading WG: RAN1; REL-14; started: June 16; closed: Mar. 17; WID: RP-162519)

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

### 8.13.1 Stage 2

### 8.13.2 User plane

### 8.13.3 Control plane

## 8.14 WI: SRS switching between LTE component carriers

(LTE\_SRS\_switch; leading WG: RAN1; REL-14; started: Mar.16: closed: Dec. 16; WID: RP-160935)

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

## 8.15 WI: Measurement Gap Enhancement for LTE

(LTE\_meas\_gap\_enh-Core; leading WG: RAN4; REL-14; started: Mar. 16; closed: Jun. 17; WID: RP-160912)

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

## 8.16 Void

## 8.17 WI: Performance enhancements for high speed scenario in LTE

(LTE\_high\_speed-Core; leading WG: RAN4; REL-14; started: Dec. 15. 16; closed: Dec. 16; WID: RP-160172)

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

## 8.18 WI: Voice and Video enhancement for LTE

(LTE\_VoLTE\_ViLTE\_enh; leading WG: RAN2; REL-14; started: Sep. 16; closed: Mar. 17: WID: RP-161856)

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

## 8.19 New UE category with single receiver based on Category 1 for LTE

(LTE\_UE\_cat\_1Rx-Core; leading WG: RAN4; REL-14; started: Sep. 16; closed: Jun. 17: WID: RP-171149)

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

## 8.20 Uplink Capacity Enhancements for LTE

LTE\_UL\_CAP\_enh-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Mar. 17: WID: RP-162488

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

## 8.21 WI: Enhancements on Full-Dimension (FD) MIMO for LTE

(LTE\_eFD\_MIMO-Core; leading WG: RAN1; REL-14; started: Mar. 2016; closed: Mar. 17: WID: RP-160623)

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

## 8.22 Void

## 8.23 WI: Downlink Multiuser Superposition Transmission for LTE

(LTE\_MUST-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Dec. 16: WID: RP-161019)

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

## 8.24 Other LTE Rel-14 WIs

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

This agenda item may be used for documents relating to Rel-14 WIs with no allocated RAN2 time but which might have minor RAN2 impact.

Including any LTE corrections related to the following joint UMTS/LTE WI:

(eDECOR-UTRA\_LTE-Core; leading WG: RAN3; REL-14; started: Dec. 16; closed: Mar. 17: WID: RP-162543)

## 8.25 LTE TEI14 enhancements

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

Small Technical Enhancements affecting LTE Rel-14 that do not belong to any Rel-14 WI.

Note: A TEI enhancement proposal should be treated for only one meeting cycle and involve only one WG. Otherwise, a WI should be proposed at RAN plenary!

This agenda item is for items already discussed under TEI14. New proposals should be submitted to TEI15, AI 9.19.

# 9 LTE Rel-15

## 9.1 Void

## 9.2 WI: Shortened TTI and processing time for LTE

(LTE\_STTIandPT-core; leading WG: RAN1; REL-15; started: June 16; target: Jun. 18; WID: RP-171468)

Time budget: 0 TU

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

This WI is complete from RAN2 point of view but RAN2 CRs have not been implemented to the specification as described in RP-172755. The CRs will be maintained as running CRs and then agreed again in RAN2#102. This AI is for corrections to the running CRs.

Including output of email discussion [101#66][LTE/sTTI] Running 36.331 – Ericsson

Including output of email discussion [101#67][LTE/sTTI] Running 36.306 – Ericsson

## 9.3 Void

## 9.4 Void

## 9.5 Further video enhancements for LTE

(LTE\_ViLTE\_enh2-Core; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-172726)

Time budget: 0 TU

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

This WI is complete from RAN2 point of view but RAN2 CRs have not been implemented to the specification as described in RP-172755. The CRs will be maintained as running CRs and then agreed again in RAN2#102. This AI is for corrections to the running CRs.

## 9.6 QoE Measurement Collection for streaming services in E-UTRAN

(LTE\_QMC\_Streaming; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-170956)

Time budget: 0 TU

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

This WI is complete from RAN2 point of view but RAN2 CRs have not been implemented to the specification as described in RP-172755. The CRs will be maintained as running CRs and then agreed again in RAN2#102. This AI is for corrections to the running CRs.

## 9.7 LTE connectivity to 5G-CN

(LTE\_5GCN\_connect-Core; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-180064)

Time budget: 1.5 TU

At this meeting, due to the commonality with NR, this WI will be handled in the main session.

### 9.7.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

Principles on what to specify in which specs, terminology, etc

### 9.7.2 Aspects independent from NR/5GC

### 9.7.3. Inactive state

Including output of email discussion [101#33][LTE/5GC] Inactive (Intel)

### 9.7.4 Flow based QoS

Including output of email discussion [101#35][LTE/5GC] Flow based QoS (Huawei)

### 9.7.5 Slicing

Including output of email discussion [101#34][LTE/5GC] Slicing (Ericsson)

### 9.7.6 Access control

Including output of email discussion [101#36][LTE/5GC] Access Control (China Telecom)

### 9.7.7 Other

## 9.8 Positioning Accuracy Enhancements for LTE

(LCS\_LTE\_acc\_enh-Core; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-172313)

Time budget: 1 TU

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

### 9.8.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

Including output of email discussion [101#78][LTE/Positioning] Stage 2 CR on positioning (ESA)

### 9.8.2 GNSS positioning enhancements

RTK payload transmission, transparent or not? Supported RTK techniques, SSR, VRS, PPP, etc? The details on the support of UE based and UE assisted; The details about unicast and broadcast of RTK assistance data;

Including output of email discussion [101#77][LTE/Positioning] Shape recommendations (Nokia)

### 9.8.3 Support for IMU positioning

The details of IMU raw data; the scenario and benefits on how to use IMU raw data;

Including output of email discussion [101#80][LTE/Positioning] UE movement model (Fraunhofer)

Including output of email discussion [101#81][LTE/Positioning] Details of reporting acceleration and displacement (Sony)

### 9.8.4 UE-based OTDOA positioning

What additional assistance information is required? Note, as second priority

### 9.8.5 Broadcasting of assistance data

SIB design for the transmission of A-GNSS, RTK and, as second priority, UE-based OTDOA assistance information. Encryption of assistance data broadcasting (SA3 input is needed);

Including output of email discussion [101#76][LTE/Postioning] Reply to SA2 on provisioning of keys for broadcast assistance data (Qualcomm)

Including output of email discussion [101#79][LTE/Positioning] Reply to SA3 on encrypting broadcasted positioning data (Ericsson)

## 9.9 Enhancing CA Utilization

(LTE\_euCA-Core; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-180561)

Time budget: 1 TU

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

### 9.9.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

### 9.9.2 Delay reduction for SCell set-up

Including output of email discussion [101#42][LTE/euCA] Introducing valid area mechanism (vivo)

### 9.9.3 Signalling overhead reduction for configuration activation

### 9.9.4 Others

## 9.10 Enhancements on LTE-based V2X Services

(LTE\_eV2X-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-171740)

Time budget: 1 TU

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

### 9.10.1 General

Including incoming LSs, work plan and rapporteur inputs.

Including output of email discussion [101#74][LTE/V2X] 36.300 running CR (Huawei)

Including any initial UP/CP running CR if provided.

### 9.10.2 Carrier aggregation (up to 8 PC5 carriers)

#### 9.10.2.1 Stage 2 discussion

Focus should be on RAN2 aspects.

Including output of email discussion [101#72][LTE/V2X] Packet duplications (Ericsson).

Including remaining issues for Tx carrier selection:

1) To choose one of two options for final Tx carrier selection among the multiple candiate carriers

a. Option1: based on CBR

b. Option2: leaving it to UE implementation

2) How to implement PPPR in Tx carrier selection.

Including output of email discussion [101#75][LTE/V2X] Additional carrier reselection triggering (Qualcomm).

#### 9.10.2.2 User plane details

Including need of LCP change with Tx carrier selection.

Including LCID mapping for packet duplication.

Including packet duplication detection behaviors in Rx UE.

Including other UP details.

#### 9.10.2.3 Control plane details

Including new Rel-15 parameters to be introduced.

Including detailed UE behaviors at the reception of SIB or RRC connection reconfiguration for PC5 CA.

Including other CP details.

### 9.10.3 Radio resource pool sharing between UEs using mode 3 and mode 4

#### 9.10.3.1 Stage 2 discussion

Focus should be on RAN2 aspects.

Including need of support of new mode-3 sensing report for resource pool sharing.

#### 9.10.3.2 User plane details

Including UP details.

#### 9.10.3.3 Control plane details

Including new consideration to RRC configuration and UE behivors aspects.

Including other CP details.

### 9.10.4 Others

Including RAN2 aspects, if any, on the WI objectives 1b (64 QAM), 1c (delay reduction at layer 1), 2 (transmit diversity), and 3 (short TTI).

Including output of email discussion [101#73][LTE/V2X] Destination address enhancements (ZTE).

## 9.11 High capacity stationary wireless and 1024 QAM

(LTE\_1024QAM\_DL-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Mar. 18: WID: RP-171738)

Time budget: 0 TU

This WI is complete from RAN2 point of view but RAN2 CRs have not been implemented to the specification as described in RP-172755. The CRs will be maintained as running CRs and then agreed again in RAN2#102. This AI is for corrections to the running CRs.

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

### 9.11.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

### 9.11.2 UE capability and potential new categories

### 9.11.3 Corresponding higher-layer procedures and signalling

## 9.12 Enhancements to LTE operation in unlicensed spectrum

(LTE\_unlic-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-180402)

Time budget: 1 TU

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

### 9.12.1 General

Including incoming LSs, work plan, rapporteur inputs, running CRs

### 9.12.2 Autonomous uplink access on Frame structure type 3

### 9.12.3 Other operation on Frame structure type 3

### 9.12.4 Others

## 9.13 Further NB-IoT enhancements

(NB\_IOTenh2-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: [RP-172063](file:///C:\Data\3GPP\TSGR\TSGR_77\docs\RP-172063.zip))

Time budget: 3 TU

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

Some sub-items in 9.13 and 9.14 may be treated jointly.

### 9.13.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

### 9.13.2 Early Data Transmission

Early Data transmission for NB-IoT is treated jointly with MTC under AI 9.14.2. Do not use this AI for any item that can be discussed jointly.

### 9.13.3 System Acquisition Enhancements

System acquisition Enhancements for NB-IoT is treated jointly with MTC under AI 9.14.3. Do not use this AI for any item that can be discussed jointly.

### 9.13.4 Relaxed Monitoring for cell reselection

Relaxed monitoring for cell reselection for MTC and NB-IoT is treated jointly under this AI. Problem fixing/corrections, no new solutions.

### 9.13.5 Semi-Persistent Scheduling

### 9.13.6 RRC Connection Release Enhancements

Problem fixing and Limited treatement of items previously on the table, no new solutions.

### 9.13.7 UE differentiation

### 9.13.8 TDD

### 9.13.9 Wake Up Signal

Wake Up Signal etc for MTC and NB-IoT is treated jointly under this Agenda Item.

### 9.13.10 Enhancements to standalone Operation

Including output of email discussion [101#55][NB-IoT R15] Enhancements to standalone Operation (Huawei)

### 9.13.11 PHR enhancements

Including output of email discussion [101#56][NB-IoT R15] PHR enhancements (Ericsson)

### 9.13.12 Other

E.g. UE Feedback, Support for physical layer SR, Measurement Accuracy Enhancements, NPRACH reliability, NPRACH range, small cell support, Support for RLC-UM, other.

Access baring enhancement for NB-IoT is treated jointly with MTC under AI 9.14.5. Do not use this AI for any item that can be discussed jointly

## 9.14 Even further enhanced MTC for LTE

(LTE\_eMTC4-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-172811)

Time budget: 3 TU

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

### 9.14.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

Including output of email discussion [101#60][LTE/MTC R15] Running 36.331 CR non EDT (Quacomm)

Including output of email discussion [101#62][LTE/MTC R15] Running 36.321 CR non EDT (Intel)

### 9.14.2 Early data transmission

Early Data transmission for NB-IoT and MTC is treated jointly under this AI.

Including output of email discussion [101#59][NB-IoT/MTC R15] Running 36.331 CR for EDT (Qualcomm)

Including output of email discussion [101#61][NB-IoT/MTC R15] Running 36.321 CR for EDT(Intel)

Including output of email discussion [101#57][NB-IoT/MTC R15] EDT remaining issues (Huawei)

Including output of email discussion [101#58][NB-IoT/MTC R15] EDT security issues (Intel)

### 9.14.3 System acquisition time enhancements

System acquisition Enhancements for NB-IoT and MTC is treated jointly under this AI.

### 9.14.4 Relaxed monitoring for cell reselection

Relaxed monitoring for cell reselection for MTC is treated jointly with NB-IoT under AI 9.13.4. Do not use this AI for any item that can be discussed jointly.

### 9.14.5 Access/load control of idle mode UEs

### 9.14.6 Uplink HARQ-ACK feedback

### 9.14.7 Increased PDSCH spectral efficiency

Including output of email discussion [101#63][NB-IoT/MTC R15] PDSCH spectral efficiency (Huawei)

### 9.14.8 Increased PUSCH spectral efficiency

Including output of email discussion [101#64][NB-IoT/MTC R15] PUSCH spectral efficiency (Ericsson)

### 9.14.9 Wake Up Signal

Wake Up Signal etc for MTC is treated jointly with NB-IoT under AI 9.13.9 Do not use this AI for any item that can be discussed jointly.

### 9.14.10 Other

Including higher UE velocity, lower UE power class, CRS muting etc.

Including output of email discussion [101#65][NB-IoT/MTC R15] Lower power class UE [ZTE]

## 9.15 Highly Reliable Low Latency Communication for LTE

LTE\_HRLLC-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: [RP-172845](file:///C:\Data\3GPP\TSGR\TSGR_78\Docs\RP-172845.zip)

Time budget: 1.0 TU

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

### 9.15.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

Including output of email discussion [101#50][LTE/URLLC] Introduction of URLLC in LTE in TS 36.300 (Ericsson)

Including output of email discussion [101#46][LTE/HRLLC] Introduction of URLLC in LTE in TS 36.321 (Ericsson)

Including output of email discussion [101#47][LTE/HRLLC] Introduction of URLLC in LTE in TS 36.323 (Ericsson)

Including output of email discussion [101#48][LTE/HRLLC] Introduction of URLLC in LTE in TS 36.322 (Ericsson)

Including output of email discussion [101#49][LTE/URLLC] Introduction of URLLC in LTE in TS 36.331 (Ericsson)

### 9.15.2 Packet Duplication

### 9.15.3 Other Priority Items

Other priority items for Rel-15 as identified in RAN pleanry endorsed RP-180586

### 9.15.4 Provision of Time Reference

Provision of time reference is a second priority item for Rel-15 as identified in RAN pleanry endorsed RP-180586

Including output of email discussion [101#45][LTE/HRLLC] The granularity of time reference discussion (Huawei)

## 9.16 UL data compression in LTE

(LTE\_UDC-Core; leading WG: RAN2; Rel-15; started Sep 17; target: Mar 18; WID RP-172365)

Time budget: 0 TU

This WI is complete from RAN2 point of view but RAN2 CRs have not been implemented to the specification as described in RP-172755. The CRs will be maintained as running CRs and then agreed again in RAN2#102. This AI is for corrections to the running CRs.

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

## 9.17 Further enhancements to CoMP for LTE

(feCOMP\_LTE-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Mar. 18: WID: RP-180584)

Time budget: 0 TU

This WI is complete from RAN2 point of view but RAN2 CRs have not been implemented to the specification as described in RP-172755. The CRs will be maintained as running CRs and then agreed again in RAN2#102. This AI is for corrections to the running CRs.

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

## 9.18 Enhanced LTE Support for Aerial Vehicles

(LTE\_Aerial-Core;leading WG: RAN2; REL-15; started: Dec. 17; target: June. 18: WID: [RP-172826](file:///C:\Data\3GPP\TSGR\TSGR_78\docs\RP-172826.zip))

Time budget: 1.0 TU

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

### 9.14.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

### 9.18.2 Subscription based identification

### 9.18.3 Mobility enhancement for connected mode

### 9.18.4 Airborne status/interference detection and indication

### 9.18.5 Others

## 9.19 Bluetooth/WLAN measurement collection in MDT

(LTE\_MDT\_BT\_WLAN-Core; leading WG: RAN2; REL-15; started: Dec. 17; target: June. 18: WID: [RP-180306](file:///C:\Data\3GPP\TSGR\TSGR_78\docs\RP-172820.zip))

Time budget: 0.5 TU

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

Including output of email discussion [101#19][LTE/BT/WLAN MDT] 36.306 CR (CMCC)

Including output of email discussion [101#20][LTE/BT/WLAN MDT] 36.331 CR (Huawei)

Including output of email discussion [101#21][LTE/BT/WLAN MDT] 37.320 CR (CMCC)

## 9.20 Increased number of E-UTRAN data bearers

(INOBEAR-Core [??] ; leading WG: RAN2; REL-15; started: Dec. 17; target: June. 18: WID: RP-180569)

Time budget: 0.5 TU

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

## 9.21 Other LTE Rel-15 WIs

This agenda item may be used for documents relating to Rel-15 WIs with no allocated RAN2 time but which might have minor RAN2 impact (e.g. CT/SA WIs for which we have received an LS requesting RAN2 action)

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

## 9.22 LTE TEI15 enhancements

Small Technical Enhancements affecting LTE Rel-15 that do not belong to any Rel-15 WI.

Note: A TEI enhancement proposal should be treated for only one meeting cycle and involve only one WG. Otherwise, a WI should be proposed at RAN plenary!

Time budget: 1 TU

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

### 9.22.1 CP latency for LTE

Contributions related to the task given to RAN2 from RAN#78 as described in LS RP-172840.

### 9.22.2 Other

Including output of email discussion [101#43][LTE/TEI15] HSDN Running 36.304 CR (OPPO)

Including output of email discussion [101#44][LTE/TEI15] HSDN Running 36.331 CR (CMCC)

# 10 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-180536)

## 10.1 Organisational

Incoming LSs, work plan, status from other groups, etc.

## 10.2 Stage 2 and common UP/CP aspects

### 10.2.1 Stage 2 TSs and running CR

TS 38.300, TS 37.340 rapporteur inputs (e.g. FFS lists, etc) and running CR to 36.300. Please submit proposed corrections to the appropriate agenda item.

### 10.2.2 Stage 2 corrections for EN-DC

No documents should be submitted to 10.2.2. Please submit to 10.2.2.x.

#### 10.2.2.1 User plane

Corrections to 38.300 or 37.340 for EN-DC related to user plane or common UP/CP aspects (i.e. that should be discussed with both user plane control plane people present)

#### 10.2.2.2 Other

Corrections to 38.300 or 37.340 for EN-DC other than those that fall into 10.2.2.2

### 10.2.3 Stage 2 corrections for non EN-DC

Correction 38.300 or 37.340 not related to EN-DC

### 10.2.4 Mobility - RLM,RLF

Any remaining stage 2 aspects of radio link monitoring procedure and criteria for declaring radio link failure, including impact of beam failure/recovery. This AI will be discussed after receiving input from RAN1 on the questions we asked.

Maximum 1 tdoc per company

### 10.2.5 Mobility - Inter-RAT

Any remaining stage 2 aspect of connected mode mobility between NR and E-UTRA, including capturing of agreements from RAN2#101 in the specification.

### 10.2.6 Security (non EN-DC)

Any remaining stage 2 aspects of security for cases other than EN-DC. Including addressing the FFS points from RAN#101 on reporting of DRB IP failure to the network

### 10.2.7 Positioning

### 10.2.8 NG-EN DC

Stage 2 aspects of NG-EN-DC. NG-EN-DC is targetted for the Release-15 late drop to be completed in December 2018. It will be treated with lower priority than EN-DC corrections and standalone at this meeting and may not be discussed. However, contributions may be submitted to this AI for the purpose of sharing views and offline discussion.

### 10.2.9 NE-DC

Stage 2 aspects of NE- DC. NE- DC is targetted for the Release-15 late drop to be completed in December 2018. It will be treated with lower priority than EN-DC corrections and standalone at this meeting and may not be discussed. However, contributions may be submitted to this AI for the purpose of sharing views and offline discussion.

### 10.2.10 Other

Other stage 2 aspects for standalone

Mobility enhancements (previously agenda item 10.32.7) are not essential standalone functionality and are being discussed as part of the RAN plenary Rel-16 scoping activity. Please to not submit documents relating to mobility enhancements.

As per guideance from RAN#79 (RP-180554) NR-NR DC specific aspects will not be discussed in RAN2 during Q2 2018. Please to not submit documents relating specifically to NR-NR DC.

## 10.3 Stage 3 user plane

Documents in this agenda item will be handled in the NR user plane break out session

### 10.3.1 MAC

#### 10.3.1.1 TS

Latest TS 38.321, rapporteur inputs, etc

Editorial and small corrections/clarifications should be provided to the rapporteur. Single rapporteur TP is encouraged for editorials and clarifications.

#### 10.3.1.2 MAC general aspects

Correction related to NR Unit, BWP and SUL general issues. Detailed functional corrections related to BWP and SUL should be submitted under corresponding function.

Including output of email discussion [101#68][NR UP/MAC] – BWP linkage – Ericsson

#### 10.3.1.3 MAC PDU format

Correction CRs related to MAC PDU format

New MAC CE formats related to RAN1 procedures

#### 10.3.1.4 Random access

##### 10.3.1.4.1 Differentiation of RA parameters

Contributions should focus on stage 3 details on prioritized RACH procedures. Idle mode prioritized RACH is out-of-scope of Rel-15.

##### 10.3.1.4.2 Random access in presence of multi-beam operation

*Corrections/critical issues related to random access in presence of multi-beam operation*

*Finalize beam failure recovery design/specification*

##### 10.3.1.4.3 Random access procedures

Corrections/critical issues related to general random access procedure

Including output of email discussion [101#69][NR UP/MAC] PRACH table – LG

#### 10.3.1.5 SR

Corrections/critical issues related to SR

#### 10.3.1.6 BSR

Corrections/critical issues related to BSR

Finalize how to handle the “immediate transmission” and ensure that an SR is triggered for URLLC transmission

#### 10.3.1.7 LCP

Corrections/critical issues related to LCP

#### 10.3.1.8 SPS/Grant-free

Corrections/critical issues related to Configured grant and SPS

#### 10.3.1.9 HARQ

Corrections/critical issues related to HARQ

#### 10.3.1.10 DRX

Contributions should focus on final critical issues/corrections for DRX

Including output of email discussion [101#70][NR UP/MAC] DRX and RNTIs – Huawei

#### 10.3.1.11 Impact of PDCP duplication on MAC

MAC CE for activation/deactivation of PDCP duplication (max 1 contribution per company)

Aspects related to fallback to split bearer and handling of RLC/PDCP entities during activation/deactivation should be submitted in AI 10.3.3.5

#### 10.3.1.12 PHR

Corrections/critical corrections related to PHR

#### 10.3.1.13 Other

Other corrections on topics not included in the detailed agenda items.

#### 10.3.1.14 Aspects related to NR standalone operation

Including details of MAC CE based rate adaption for voice over NR as agreed at RAN2#101 (and to be treated with lower priority than essential functionality).

### 10.3.2 RLC

#### 10.3.2.1 TS

Latest TS 38.322, rapporteur inputs, etc

Editorial and small corrections/clarifications should be provided to the rapporteur. Single rapporteur TP is encouraged for editorials and clarifications.

#### 10.3.2.2 RLC header format

Corrections related to RLC header format

#### 10.3.2.3 Impact of PDCP duplication to RLC

#### 10.3.2.4 Other

### 10.3.3 PDCP

#### 10.3.3.1 TS

Latest TS 38.323, rapporteur inputs, etc

Editorial and small corrections/clarifications should be provided to the rapporteur. Single rapporteur TP is encouraged for editorials and clarifications.

#### 10.3.3.2PDCP PDU formats

Corrections/critical issues related to PDCP PDU formats

#### 10.3.3.3 PDCP duplication

Impacts of PDCP duplication and whether duplication is supported for SRB for CA.

Max 1 contribution per company

#### 10.3.3.4 Other

Corrections/critical issues related to PDCP

### 10.3.4 SDAP

#### 10.3.4.1 TS

Latest TS 37.324, rapporteur inputs, etc

Including output of email discussion [101#71][NR UP/SDAP] Running TS – Huawei

#### 10.3.4.2 Header Format

Details of header format with the 8bit header size limitations. Contributions on RQI setting and size of QFI should be submitted in this AI. (max 1 contributions per company)

Contributions on this topic should depend on SA2 input and whether there is a need to remap NAS QFI to AS QFI

#### 10.3.4.3 QoS flow remapping and handover

How to ensure in-order delivery in case of QoS flow remapping (max 1 contribution per company)

#### 10.3.4.4 Others

*Other remaining issues*

## 10.4 Stage 3 control plane

### 10.4.1 NR RRC

#### 10.4.1.1 TS and running CR

38.331 rapporteur inputs including FFS list, running CR to add non-EN-DC aspects, etc. Please submit corrections to the appropriate agenda item.

###### 10.4.1.3 Connection control procedures

No documents should be submitted to 10.4.1.3. Please submit to 10.4.1.3.x.

###### 10.4.1.3.1 Corrections to connection control for EN-DC

Corrections related to connection control procedures for EN-DC

###### 10.4.1.3.1.1 Corrections to L1 Parameters (except CSI-RS)

###### 10.4.1.3.1.2 Corrections to L1 parameters for CSI-RS

###### 10.4.1.3.1.3 Other

##### 10.4.1.3.2 Email discussion on RRC procedures/messages

Including output of email discussion [101#37][NR] RRC procedures/messages (Ericsson). Documents addressing specific FFS points identified during the email discussion should be submitted to the appropriate agenda item.

##### 10.4.1.3.3 Connection establishment procedure

Access control and establishment cause are discussed in the access control agenda items 10.4.1.8.x

##### 10.4.1.3.4 Connection reconfiguration procedure

##### 10.4.1.3.5 Connection re-establishment procedure

##### 10.4.1.3.6 Connection resume procedure

Including success, reject, fallback to connections establishment, and release to idle cases and messages to be used for each case. Note that aspects specific to inactive security are discussed under AI 10.4.1.7.3

##### 10.4.1.3.7 Connection release procedure

Including release from connected to inactive and connected to inactive and messages to be used for each case.

##### 10.4.1.3.8 Security procedures

Including initial security activation and counter check procedure. Note that aspects specific to inactive security are discussed under AI 10.4.1.7.3

##### 10.4.1.3.9 Other

Other aspects of connection control procedures, state transitions, etc for standalone operation

#### 10.4.1.4 RRM measurements

No documents should be submitted to 10.4.1.4. Please submit to 10.4.1.4.x.

##### 10.4.1.4.1 Corrections to RRM for EN-DC

Corrections related to RRM measurement and measurement reporting for EN-DC

##### 10.4.1.4.2 Measurement gaps for EN-DC

Any remaining aspects of measurement gaps for EN-DC

##### 10.4.1.4.3 Measurement gaps for non EN-DC

##### 10.4.1.4.4 Measurement events

Any additional aspects of measurement events for standalone operation

##### 10.4.1.4.5 Inter-RAT measurements

Inter-RAT E-UTRA measurements for the purpose of inter-RAT handover from NR to E-UTRA

##### 10.4.1.4.6 Other

Other RRM related aspects for standalone operation

#### 10.4.1.5 Mobility

No documents should be submitted to 10.4.1.5. Please submit to 10.4.1.5.x.

##### 10.4.1.5.1 Corrections to SCG change for EN-DC

Corrections to 38.331 related to SCG change for EN-DC.

##### 10.4.1.5.2 SCG failure for EN-DC

Corrections to 38.331 and 36.331 related to SCG failure for EN-DC.

##### 10.4.1.5.3 Handover

Stage 3 details of basic handover.

#### 10.4.1.6 System information

No documents should be submitted to 10.4.1.6. Please submit to 10.4.1.6.x.

##### 10.4.1.6.1 System information content/structure

Including output of email discussion [101#39][NR] SIB content ASN.1 (Huawei)

##### 10.4.1.6.2 Email discussion on system information procedures

Including output of email discussion [101#38][NR] SI procedure text (LG). Documents addressing and specific FFS points identified during the email discussion should be submitted to the appropriate agenda item.

##### 10.4.1.6.3 Stored system information

Any remaining details of stored SI

##### 10.4.1.6.4 System information modification

Any remaining details of SI modification

##### 10.4.1.6.5 System information scheduling

Any remaining details of SI scheduling

##### 10.4.1.6.6 On demand system information

Any remaining details of On demand SI

##### 10.4.1.6.7 System information reception in connected mode

Any remaining details of SI reception in connected mode (note this continues the discussion that was started under the BWP stage 2 agenda item).

##### 10.4.1.6.8 System information -other

Other system information related aspects

#### 10.4.1.7 Inactive state

No documents should be submitted to 10.4.1.6. Please submit to 10.4.1.6.x or the agenda item on the resume procedure in 10.4.1.3.5.

##### 10.4.1.7.1 RAN area update procedure

Any further details specific to RAN area update (noting that the resume procedure is addressed by AI 10.4.1.3.5)

##### 10.4.1.7.2 Security framework for inactive

Including confirmation, or otherwise, of the working assumption taken at RAN2#101, inputs to Msg3 MAC-I, etc. AI to be handled after receiving response from SA3.

##### 10.4.1.7.3 Inactive - other

Other inactive state related aspects

#### 10.4.1.8 Access control

No documents should be submitted to 10.4.1.8. Please submit to 10.4.1.8.x.

##### 10.4.1.8.1 Email discussion on Access control

Including output of email discussion [101#40][NR] Access Control (LG). Docuements addressing specific FFS points identified during the email discussion should be submitted to the appropriate agenda item.

##### 10.4.1.8.2 Access control information

Coding of the access control information in SI, considering the baseline ASN.1 structure discussed in email discussion [101#40]

##### 10.4.1.8.3 Access control for AS triggered events in Inactive

##### 10.4.1.8.4 Establishment causes

May not be possible progress until RAN1 provide input on Msg.3 size.

##### 10.4.1.8.5 Other

#### 10.4.1.9 Inter-Node RRC messages

No documents should be submitted to 10.4.1.9. Please submit to 10.4.1.9.x.

##### 10.4.1.9.1 Corrections to Inter-Node RRC messages for EN-DC

##### 10.4.1.9.2 Inter-Node RRC messages for standalone operation

Progress structure and content of the Inter-Node RRC messages used for standalone operation.

#### 10.4.1.10 Other (non EN-DC)

Other RRC related aspects.

Including details of radio interface delay budget adjustment for voice over NR as agreed at RAN2#101 (and to be treated with lower priority than essential functionality).

### 10.4.2 LTE RRC changes related to NR

No documents should be submitted to 10.4.2. Please submit to 10.4.2.x.

#### 10.4.2.1 Running CR

36.331 rapporteur inputs including FFS list, running CR to add non-EN-DC aspects, etc. Please submit corrections to the appropriate agenda item.

#### 10.4.2.2 Corrections to RRM measurements for EN-DC

Corrections to 36.331 related to RRM procedures for EN-DC and not covered within the ASN.1 review.

#### 10.4.2.3 Corrections to other EN-DC aspects

Corrections to 36.331 related to EN-DC procedures other than RRM and not covered within the ASN.1 review.

#### 10.4.2.4 Changes for NR SA and EN-DC (post early freeze)

Including support for ANR from E-UTRA.

Broadcast parameters required for idle mobility from LTE to NR should be discussed in 10.4.5.7

### 10.4.3 Void

### 10.4.4 UE capabilities

No documents should be submitted to 10.4.4. Please submit to 10.4.4.x.

#### 10.4.4.1 TS

38.306 rapporteur inputs including FFS list, running CR for standalone, etc. Please submit corrections to the appropriate agenda item.

#### 10.4.4.2 Corrections to UE capabilities for EN DC

Including output of email discussion [101#41][NR] UE capability structure (Qualcomm)

#### 10.4.4.3 UE capabilities for standalone

#### 10.4.4.4 Temporary capability restriction

Maximum 1 tdoc per company

#### 10.4.4.5 Other aspects for non EN-DC

Including UE ID based capability reporting related to RAN plenary LS RP-180586

Any other aspect related to UE capabilities relevant for non EN-DC cases

### 10.4.5 Idle/inactive mode procedures

#### 10.4.5.1 TS

Latest 38.304, other rapporteur inputs, anything related to specification methodology. Please submit any new text proposals to the appropriate agenda item.

#### 10.4.5.2 Selection/reselection rules

Basic criteria and rules for cell selection and reselection

Maximum 1 tdoc per company

#### 10.4.5.3 Cell quality derivation

Derivation of cell quantity from beam measurements (including filtering and FFS points from previous meetings)

Maximum 1 tdoc per company

#### 10.4.5.4 Service based reselection

Maximum 1 tdoc per company

#### 10.4.5.5 Selection/reselection - other aspects

Including, for example mobility states, speed dependent scaling, forward compatibility for CSG, cell reservations, etc

#### 10.4.5.6 Idle/inactive paging

Including calculation of paging occasion, and address FFS from last meeting on truncated UE id in case of paging in FR2..

#### 10.4.5.7 Idle mobility from LTE to NR

Additions to LTE 36.304 to support idle mobility from LTE to NR. Broadcast parameters required for idle mobility from LTE to NR should be discussed here and not in 10.4.2.x.

# 11 Rel-15 NR Study Items

## 11.1 Study on Integrated Access and Backhaul for NR

(FS\_NR-IAB; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: SID: RP-172290)

Time budget: 1 TU

## 11.2 Study on NR-based Access to Unlicensed Spectrum

(FS\_NR-unlic; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: SID: RP-172021)

Time budget: 0.5 TU

## 11.3 Study Item on Self Evaluation towards IMT-2020 submission

(FS\_5G\_eval; leading WG: RAN; REL-15; started: Mar. 17; target: Jun. 18: SID: RP-171451)

Time budget: 0 TU

This agenda item is for submission of any contributions related to the RAN2 aspects of the self evaluation for the IMT-2020 submission. The discussion related to these contributions will be progressed offline until the conclusions are ready to be endorsed by RAN2.

# 12 Comebacks

This agenda item will be used during the meeting. No documents are supposed to be submitted by delegates.

## 12.1 Breakout sessions

### 12.1.1 Report from Break-Out session

Report from session on Rel-14 and Rel-15 LTE and NR idle/inactive mobility

R2-18xxxxx Report from Break-Out Session, Vice-Chair (CMCC)

* CBF: Report from LTE Break-Out Session, Vice-Chair (CMCC)

### 12.1.2 Report from Break-Out session

Report from session on NR UP

R2-18xxxxx Report from Break-Out Session, Vice-Chair (MediaTek)

* CBF: Report from LTE Break-Out Session, Vice-Chair (MediaTek)

### 12.1.3 Report from Break-Out session

Report from session on NB-IoT

R2-18xxxxx Report from Break-Out Session, Session Chair (Huawei)

* CBF: Report from LTE Break-Out Session, Session Chair (Huawei)

### 12.1.4 Report from Break-Out session

Report from session on MTC

R2-18xxxxx Report from Break-Out Session, Session Chair (Ericsson)

* CBF: Report from LTE Break-Out Session, Session Chair (Ericsson)

### 12.1.5 Report from Break-Out session

Report from session on Legacy LTE and Inobear WI

R2-18xxxxx Report from Break-Out Session, Session Chair (InterDigital)

* CBF: Report from LTE Break-Out Session, Session Chair (InterDigital)

### 12.1.6 Report from Break-Out session

Report from session on Rel-15 Positioning WI

R2-17xxxxx Report from Break-Out Session, Session Chair (Huawei)

* CBF: Report from LTE Break-Out Session, Session Chair (Huawei)

### 12.1.7 Report from Break-Out session

Report from session on Rel-15 V2X WI

R2-18xxxxx Report from Break-Out Session, Session Chair (Intel)

* CBF: Report from LTE Break-Out Session, Session Chair (Intel)

## 12.2 Main session

This section contains a temporary list of comebacks (press F9 to update while the cursor is inside the list).

# 13 Outgoing LSs

Draft LSs should be submitted to their corresponding agenda item if there is one. If there is no appropriate agenda item, draft LSs, and any association discussion documents, may be submitted to this agenda item.

# 14 Any other business

# 15 Closing of the meeting (17:00)