3GPP TSG-RAN WG2 Meeting #102 R2-18xxxxx

Busan, Korea, 21st - 25th May 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

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| --- |
| 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

## 6.1 Agreed in principle CRs

## 6.2 Other

# 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

### 7.1.1 Agreed in principle CRs

### 7.1.2 Other

## 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

### 7.2.1 Agreed in principle CRs

### 7.2.2 Other

## 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

### 7.3.1 Agreed in principle CRs

### 7.3.2 Other

# 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

### 8.11.1 Agreed in principle CRs

### 8.11.2 Other

## 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

### 8.12.1 Agreed in principle CRs

### 8.12.2 Other

## 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 Agreed in principle CRs

### 8.13.2 Other

## 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 [101bis#80][LTE/sTTI] CR to 36.331 – 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 Including output of email discussion [101bis#38][LTE/5GC] Inactive and RRC open issues (Intel)

### 9.7.4 Access control

Including output of email discussion [101bis#39][LTE/5GC] Access control stage 3 (CTC)

### 9.7.5 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

### 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;

### 9.8.3 Support for IMU positioning

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

### 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);

## 9.9 Enhancing CA Utilization

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

Time budget: 0.5 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

### 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.

Including output of email discussion [101bis#82][LTE/V2X] Running stage2 CR (Huawei)

Including output of email discussion [101bis#83][LTE/V2X] Running MAC CR (LG)

Including output of email discussion [101bis#84][LTE/V2X] Running RRC CR (Huawei)

Including output of email discussion [101bis#85][LTE/V2X] Running PDCP CR (CATT)

Including output of email discussion [101bis#81][LTE/V2X] Details of TX Profile (Qualcomm)

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

#### 9.10.2.1 Control plane

#### 9.10.2.2 User plane

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

#### 9.10.3.1 Control plane

#### 9.10.3.2 User plane

### 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)

#### 9.10.4.1 Control plane

#### 9.10.4.2 User plane

## 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

Including output of email discussion [101bis#53][LTE/feLAA] Running 36.300 CR to introduce feLAA (Nokia)

Including output of email discussion [101bis#54][LTE/feLAA] Running 36.321 CR to introduce feLAA (Ericsson)

Including output of email discussion [101bis#55][LTE/feLAA] Running 36.331 CR to introduce feLAA (Nokia)

Including output of email discussion [101bis#56][LTE/feLAA] Running 36.306 CR to introduce feLAA (Nokia)

Including output of email discussion [101bis#52][LTE/feLAA]Progress on FFS points (Ericsson)

### 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

Including output of email discussion [101bis#26][NB-IoT R15] Running 36.331 CR (Huawei)

Including output of email discussion [101bis#27][NB-IoT R15] Running 36.300 CR (Huawei)

Including output of email discussion [101bis#28][NB-IoT R15] Running 36.321 CR (Ericsson)

Including output of email discussion [101bis#29][NB-IoT R15] Running 36.306 CR (Ericsson)

### 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

Including output of email discussion [101bis#23][NB-IoT R15] Resolve FFSs on TDD (Huawei)

### 9.13.9 Wake Up Signal

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

Including output of email discussion [101bis#22][MTC/NB-IoT R15] Progress open issues on WUS (Qualcomm)

### 9.13.10 Enhancements to standalone Operation

### 9.13.11 PHR enhancements

### 9.13.12 Support for physical layer SR

Including output of email discussion [101bis#25][NB-IoT R15] Physical Layer SR (Huawei)

### 9.13.13 NPRACH range

Including output of email discussion [101bis#24][NB-IoT R15] NPRACH range (Huawei)

### 9.13.14 Other

E.g. UE Feedback, Measurement Accuracy Enhancements, NPRACH reliability, 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

### 9.14.0 Agreed in principle CRs

### 9.14.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

*Including output of email discussion [101bis#30][NB-IoT/eMTC] Running 36.300 CR for eMTC and NB-IoT for EDT (Huawei)*

*Including output of email discussion [101bis#31][eMTC] Running 36.300 CR for eMTC excluding EDT (Ericsson)*

*Including output of email discussion [101bis#32][eMTC] Running 36.304 CR for eMTC (Nokia)*

Including output of email discussion [101bis#33][eMTC] Running 36.306 CR for eMTC (Qualcomm)

Including output of email discussion [101bis#34][NB-IoT/eMTC] Running 36.321 CR for eMTC and NB-IoT for EDT (Intel)

Including output of email discussion [101bis#35][eMTC] Running 36.321 CR for eMTC excluding EDT (Intel)

Including output of email discussion [101bis#36][NB-IoT/eMTC] Running 36.331 CR for eMTC and NB-IoT for EDT (Qualcomm)

Including output of email discussion [101bis#37][eMTC] Running 36.331 CR for eMTC excluding EDT (Qualcomm)

### 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 [101bis#77][NB-IoT/eMTC] RRC-MAC interaction in EDT (Ericsson)

### 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

Including output of email discussion [101bis#78][NB-IoT/eMTC] on access/load control of idle mode UEs [Sierra Wireless]

### 9.14.6 Uplink HARQ-ACK feedback

### 9.14.7 Increased PDSCH spectral efficiency

*Including support for more flexible starting PRB for PDSCH resource allocation in connected mode*

### 9.14.8 Increased PUSCH spectral efficiency

*Including support for more flexible starting PRB for PUSCH resource allocation in connected mode*

### 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, dense PRS configurations etc.

## 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 [101bis#59][LTE/URLLC] Running 36.300 CR for introduction of URLLC for LTE (Ericsson)

Including output of email discussion [101bis#60][LTE/URLLC] Running 36.321 CR for introduction of URLLC for LTE (Ericsson)

Including output of email discussion [101bis#61][LTE/URLLC] Running 36.323 CR for introduction of URLLC for LTE (Ericsson)

Including output of email discussion [101bis#62][LTE/URLLC] Running 36.331 CR for introduction of URLLC for LTE (Ericsson)

Including output of email discussion [101bis#63][LTE/URLLC] Running 36.322 CR for introduction of URLLC for LTE (Ericsson)

### 9.15.2 Packet Duplication

Including output of email discussion [101bis#64][LTE/URLLC] RLF handling for CA duplication (OPPO)

### 9.15.3 Other Priority Items

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

Including output of email discussion [101bis#50][LTE/HRLLC] Provision of time reference (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

Including output of email discussion [101bis#57][LTE/UAV] Flight path information (Huawei)

### 9.18.4 Airborne status/interference detection and indication

Including output of email discussion [101bis#58][LTE/UAV] report of the sum of RSRP (Intel)

### 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 TU

This WI has no time allocated for this meeting. The focus this meeting should be to quickly agree the running CRs.

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

Including output of email discussion [101bis#68][LTE/MDT] Running 36.331 CR to introduce BT/WLAN MDT (Huawei)

Including output of email discussion [101bis#69][LTE/MDT] Running 37.320 CR to introduce BT/WLAN MDT (CMCC)

Including output of email discussion [101bis#70][LTE/MDT] Running 36.306 CR to introduce BT/WLAN MDT (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

Including output of email discussion [101bis#79][LTE/INOBEAR] – running CRs – Samsung

## 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

# 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

### 10.2.0 Agreed in principle CRs

### 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)

Including output of email discussion [101bis#40][NR] RRC triggered BWP activation (Samsung)

#### 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

Including output of email discussion [101bis#41][NR] SSB and Cell relationship (ZTE)

### 10.2.4 Mobility - Inter-RAT

Any remaining stage 2 aspect of connected mode mobility between NR and E-UTRA, including the stage 2 CR initiated from at RAN2#101bis.

### 10.2.5 Positioning

Including both the stage 2 and stage 3 aspects related to positioning.

Including output of email discussion [101bis#86][NR/Positioning] Support of downlink NR CID (Ericsson)

### 10.2.6 NG-EN DC

Stage 2 aspects of NG-EN-DC. NG-EN-DC is targeted 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.

### 10.2.7 NE-DC

Stage 2 aspects of NE- DC. NE- DC is targeted 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.

### 10.2.8 Other

Other stage 2 aspects for standalone

Mobility enhancements (agenda item 10.2.7 in earlier meetings) 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 guidance 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.

All cases of ANR (i.e. inter-RAT, intra-RAT, etc) should be discussed in AI 10.4..1.4.6

Handling SCG failure with split SRB should be discussed in AI 10.4.2.5

Including further discussion (both stage 2 and stage 3) of features for voice over NR as agreed at RAN2#101 (i.e. MAC CE based codec mode adaptation and delay budget reporting). To be treated with lower priority than essential functionality for SA.

Including output of email discussion [101bis#46][NR] Delay budget report and MAC CE adaptation for NR (Huawei)

## 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

#### 10.3.1.0 Agreed in principle CRs

#### 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

Corrections related to BWP and SUL general issues.

#### 10.3.1.3 MAC PDU format

Corrections related to MAC PDU and MAC CE formats

Including output of email discussion [101bis#72][NR UP] Smaller MAC header for CCCH (Ericsson).

#### 10.3.1.4 Random access

##### 10.3.1.4.1 Differentiation of RA parameters

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

Including output of email discussion [101bis#71][NR UP] Prioritized RACH (Ericsson)

##### 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, beam failure recovery.*

##### 10.3.1.4.3 Random access procedures

Corrections/critical issues related to general random access procedure

#### 10.3.1.5 SR

Corrections/critical issues related to SR

Including output of email discussion [101bis#73][NR UP] Parallel SR and RACH (Mediatek)

#### 10.3.1.6 BSR

Corrections/critical issues related to BSR

#### 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

Corrections/critical issues related to DRX

#### 10.3.1.11 Impact of PDCP duplication on MAC

MAC CE for activation/deactivation of PDCP duplication

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

Including output of email discussion [101bis#74][NR UP] Control of Duplication (Nokia)

#### 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.

### 10.3.2 RLC

#### 10.3.2.0 Agreed in principle CRs

#### 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

Including output of email discussion [101bis#75][NR] Max RLC retransmissions indication (Samsung)

#### 10.3.2.4 Other

### 10.3.3 PDCP

#### 10.3.3.0 Agreed in principle CRs

#### 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 for DRBs and SRBs

#### 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

#### 10.3.4.2 Header Format

Details of header format

#### 10.3.4.3 QoS flow remapping and handover

How to ensure in-order delivery for UL in case of QoS flow remapping

Including output of email discussion [101bis#76][NR UP] SDAP end marker solutions (Huawei).

#### 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 discussions on connection control

Documents addressing specific FFS points identified during the email discussion should be submitted to the appropriate agenda item.

Including output of email discussion [101bis#16][NR] Connection control TP (Ericsson)

Including output of email discussion [101bis#51][NR] Connection control open issues (Ericsson)

##### 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

Including the confirmation, or otherwise, of the working assumption from last meeting on the solution for re-establishing the bearers.

##### 10.4.1.3.6 Connection resume procedure

Including success, reject, fallback to connection establishment, and release to idle cases. Note that aspects specific to inactive security are discussed under AI 10.4.1.7.3

Including the confirmation, or otherwise, of the working assumption from last meeting on UE behaviour at cell reselection while T300X is running.

##### 10.4.1.3.7 Connection release procedure

Including release from connected to inactive and connected to inactive.

##### 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

Including output of email discussion [101bis#42][NR] Frequency of MO (Huawei)

##### 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 Support for ANR

All cases of ANR (i.e. inter-RAT ANR from E-UTRA, inter-RAT ANR from NR, and intra-RAT ANR within NR) and hence both 36.331 and 38.11 impacts should be discussed in this agenda item.

Including output of email discussion [101bis#47][NR] ANR (Vivo)

##### 10.4.1.4.7 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 or SCG failure for EN-DC

Corrections to 38.331 related to SCG change, or corrections to 38.331 and 36.331 related to SCG failure for EN-DC.

##### 10.4.1.5.2 RLM/RLF

Any further details of radio link monitoring procedure and criteria for declaring radio link failure (discussed under stage 2 AI 10.2.4 in previous agendas)

##### 10.4.1.5.3 Intra-RAT Handover for SA

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

Any remaining aspect of SI content and structure. Broadcast parameters required for idle mobility should be discussed in 10.4.5.x

Including output of email discussion [101bis#13][NR] Text Proposal on the ASN.1 for SIB content (Huawei)

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

Documents addressing and specific FFS points identified during the email discussion should be submitted to the appropriate agenda item.

Including output of email discussion [101bis#14][NR] Text Proposal on SI procedure text (LG)

##### 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

Including output of email discussion [101bis#43][NR] RA resources for MSG1 on demand request (Samsung)

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

Any remaining details of SI reception in connected mode

Including output of email discussion [101bis#44][NR] SI reception in connected mode (Samsung)

##### 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 configuration and update procedure

Any further details specific to RAN configuration and 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

Aspects related to access control should be discussed under AI 10.4.1.8.3

#### 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

Documents addressing specific FFS points identified during the email discussion should be submitted to the appropriate agenda item.

Including output of email discussion [101bis#45][NR] TP on AC (LG)

##### 10.4.1.8.2 Access control information

Coding of the access control information in SI

Including confirmation, or otherwise, of the working assumption on value of N, where N is the maximum number of barring parameter sets that can be configured in SI.

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

##### 10.4.1.8.4 Establishment causes

Establishment causes for connection request and resume request.

##### 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.

### 10.4.2 LTE changes related to NR

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

#### 10.4.2.0 Agreed in principle CRs

#### 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.

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

Corrections to 36.331 related to EN-DC procedures other than RRM.

#### 10.4.2.4 Inter-RAT Handover

Stage 3 details of inter-RAT handover. Both 36.331 and 38.331 impacts of both inter-RAT HO from NR to LTE and from LTE to NR should be discussed in this AI. Idle mobility from LTE to NR should be discussed in 10.4.5.7

#### 10.4.2.5 Others changes for NR SA and EN-DC (post early freeze)

All cases of ANR (i.e. inter-RAT, intra-RAT, etc) should be discussed in AI 10.4..1.4.6

Including IDC for EN-DC, and handling SCG failure with split SRB

### 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 [101bis#48][NR] UE capabilities structure (Nokia)

#### 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

This AI addresses the idle and inactive behaviour to be specified in 38.304. Other aspects related to inactive (e.g. state transitions or other behaviour triggered by cell reselection, out of coverage, etc) should be discussed under the RRC agenda items (10.4.1.x)

#### 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.

Including output of email discussion [101bis#65][NR] Running TS38.304(Qualcomm)

#### 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

Including output of email discussion [101bis#66][NR] Good beams in cell reselection (CMCC)

#### 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..

Including output of email discussion [101bis#67][NR] PO/PF calculation (QUALCOMM)

#### 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

### 11.1.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

### 11.1.2 User plane aspects

Including consideration of adaptation layer, multi-hop RLC ARQ, scheduler and QoS impacts

### 11.1.3 Control plane aspects

Including consideration of control plane protocol stack and control plane procedures (e.g. topology management, route management, etc)

### 11.1.4 Other

## 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](file:///C:\Data\3GPP\archive\TSGR\TSGR_77\Docs\RP-172021.zip))

Time budget: 0.5 TU

Including output of email discussion [101bis#49][NR] NR unlicensed SI (Qualcomm)

## 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)