3GPP TSG-RAN WG2 Meeting #104 R2-18xxxxx

Spokane, USA, 12th - 16th November 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 (https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc) |

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-15 CRs from Q3 2018 onwards.

Only corrections where there is a proven problem are allowed for frozen releases (Rel-8 to Rel-15).

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-81 is available in RP-182180

Offline discussions 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 "[Offline-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 "[RAN2#104 Offline-nnn]....."). Do not share documents over the reflector during the meeting

If you need a tdoc number for the outcome of your offline discussion and one is not already allocated in the notes, you must request your number by Thursday 23:59 local time.

# 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

## 7.2 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

### 7.3.1 Agreed in principle CRs

### 7.3.2 Other

# 8 LTE Rel-14

## 8.1 WI: LTE based V2X

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

(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

### 8.1.1 Agreed in principle CRs

### 8.1.2 Other

## 8.2 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

### 8.2.1 In principle agreed CRs

### 8.2.2 Other

## 8.3 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

## 8.4 Other LTE Rel-14 WIs

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

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

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

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

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

(MBMS\_LTE\_enh2-Core; leading WG: RAN1; REL-14; started: Mar. 16; closed: Sep. 17; WID:RP-162231) (LTE\_SRS\_switch; leading WG: RAN1; REL-14; started: Mar.16: closed: Dec. 16; WID: RP-160935)

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

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

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

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

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

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

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

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

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

### 8.4.1 Agreed in principle CRs

### 8.4.2 Other

# 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; closed: Sep. 18; WID: RP-171468)

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

### 9.2.1 Agreed in principle CRs

### 9.2.2 Other

## 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; closed: Sep. 18: WID: RP-181746)

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

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

(LTE\_QMC\_Streaming; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep 18: WID: RP-181640)

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

### 9.6.1 In principle agreed CRs

### 9.6.2 Other

## 9.7 LTE connectivity to 5G-CN

(LTE\_5GCN\_connect-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181680)

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

### 9.7.0 In principle agreed CRs

### 9.7.1 Organisational

Including incoming LSs

Including output of email discussion [103bis#43][LTE/eLTE] Capture NR agreements (Intel)

### 9.7.2 Aspects independent from NR/5GC

### 9.7.3 Inactive state

### 9.7.4 Access control

### 9.7.5 Other

## 9.8 Positioning Accuracy Enhancements for LTE

(LCS\_LTE\_acc\_enh-Core; leading WG: RAN2; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-181298)

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

### 9.8.0 Agreed in principle CRs

### 9.8.1 Organisational

Including incoming LSs, rapporteur inputs

### 9.8.2 GNSS positioning enhancements

### 9.8.3 Support for IMU positioning

### 9.8.5 Broadcasting of assistance data

## 9.9 Enhancing CA Utilization

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

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

### 9.9.0 In principle agreed CRs

### 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; closed: Sep. 18: WID: RP-171740)

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

### 9.10.0 Agreed in principle CRs

### 9.10.1 General

Including incoming LSs

### 9.10.2 Control plane

### 9.10.3 User plane

## 9.11 High capacity stationary wireless and 1024 QAM

(LTE\_1024QAM\_DL-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Mar. 18: WID: RP-181670)

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; closed: Jun. 18: WID: RP-180402)

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

### 9.12.0 In principle agreed CRs

### 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; closed: Sep. 18: WID: RP-182114)

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.

### 9.13.0 In principle agreed CRs

### 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.

### 9.13.5 Semi-Persistent Scheduling

### 9.13.6 RRC Connection Release Enhancements

### 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

### 9.13.11 PHR enhancements

### 9.13.12 Support for physical layer SR

### 9.13.13 NPRACH range

### 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: Dec. 18: WID: RP-172811)

Time budget: 0 TU

This AI is for corrections to a WI that is complete from RAN2 point of view.

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

### 9.14.0 In principle agreed CRs

### 9.14.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

### 9.14.2 Early data transmission

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

### 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

### 9.14.8 Increased PUSCH spectral efficiency

### 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; closed: Sep. 18: WID: RP-181259

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

### 9.15.0 In principle agreed CRs

### 9.15.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

### 9.15.2 Packet Duplication

### 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

## 9.16 UL data compression in LTE

(LTE\_UDC-Core; leading WG: RAN2; Rel-15; started Sep 17; closed: Sep 18; WID RP-180914)

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

### 9.16.1 In principle agreed CRs

### 9.16.2 Other

## 9.17 Further enhancements to CoMP for LTE

(feCOMP\_LTE-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Sep. 18: WID: RP-182004)

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; closed: Sep. 18: WID:RP-181310)

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

### 9.18.0 In principle agreed CRs

### 9.18.1 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; closed: Sep. 18: WID: RP-181743)

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

### 9.19.1 In principle agreed CRs

### 9.19.2 Other

## 9.20 Increased number of E-UTRAN data bearers

(INOBEARRAN-Core ; leading WG: RAN2; REL-15; started: Dec. 17; closed: Sep. 18: WID: RP-182133)

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

### 9.20.1 Agreed in principle CRs

### 9.20.2 Other

## 9.21 Other LTE Rel-15 WIs

This agenda item may be corrections relating to Rel-15 WIs which had 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

### 9.21.1 Agreed in principle CRs

### 9.21.2 Other

## 9.22 LTE TEI15 enhancements

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

This AI is for corrections to items introduced under TEI15. New proposals shoud be submitted to TEI16 when it time is allocated for it later in the release/

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

Including output of email discussion [103bis#13]LTE] Early implementable features (DOCOMO)

# 10 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Dec. 18: WID: RP-181726)

## 10.1 Organisational

Incoming LSs, status from other groups, etc.

## 10.2 Stage 2 and common UP/CP aspects

### 10.2.0 In principle agreed CRs

In principle agreed CR to 38.300, 37.340, 36.300

### 10.2.1 Stage 2 corrections for TS 38.300

As previously requested stage 2 description improvements should be discussed with the specification rapporteur before submission to the meeting - the aim is reduce the required discussion time in the meeting.

### 10.2.2 Stage 2 corrections for TS 37.340

Corrections to 38.300 or 37.340 for Standalone and any EN-DC related aspects added in June 18.

As previously requested stage 2 description improvements should be discussed with the specification rapporteur before submission to the meeting - the aim is reduce the required discussion time in the meeting.

### 10.2.3 Positioning

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

### 10.2.3.1 In principle agreed CR

### 10.2.3.2 Other

### 10.2.4 Other

Including contributions related to SA5 work on L2 measurements.

RAN#80 agreed the Rel-16 work programme. Do not submit any documents that fall within the scope of the Rel-16 WIs/SIs.

## 10.3 Stage 3 user plane

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

Essential functional corrections will be prioritized. For clarity and consistency enhancements, please pre-discuss and seek support with the TS rapporteur.

### 10.3.1 MAC

#### 10.3.1.0 Agreed in principle CRs

#### 10.3.1.1 MAC general aspects

Corrections related to BWP and SUL and general issues

#### 10.3.1.2 Random access

*Corrections related to random access procedure, except multi-beam aspects*

#### 10.3.1.3 Multi-beam operation

*Corrections related to multi-beam operation, beam failure detection, beam failure recovery.*

#### 10.3.1.4 PHR

Corrections related to PHR

#### 10.3.1.5 SPS and Configured Grant

Corrections related to Configured grant and SPS

#### 10.3.1.6 DRX

Corrections related to DRX

#### 10.3.1.7 MAC PDU format

Corrections related to MAC PDU and MAC CE formats, if any

#### 10.3.1.8 Other

Other corrections on topics not included in the detailed agenda items, e.g. PDCP duplication, LCP, HARQ, SR, BSR.

### 10.3.2 RLC

Corrections related to RLC

### 10.3.3 PDCP

Corrections related to PDCP

#### 10.3.3.1 Agreed in principle CRs

#### 10.3.3.2 Other

### 10.3.4 SDAP

Corrections related to SDAP

#### 10.3.4.1 Agreed in principle CRs

#### 10.3.4.2 Other

## 10.4 Stage 3 control plane

### 10.4.1 NR RRC

#### 10.4.1.0 In principle agreed CRs

In principle agreed CR to 38.331

#### 10.4.1.1 TS

38.331 rapporteur inputs, if any.

#### 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 (early drop)

Corrections related to connection control procedures for EN-DC

###### 10.4.1.3.1.1 Corrections to L1 Parameters

Including output of email discussion [103bis#14][NR] Channel Bandwidth Signalling (Qualcomm)

Including output of email discussion [103bis#42][NR/L1] PUCCH resource release (Huawei)

###### 10.4.1.3.1.2 Other

Including output of email discussion [103bis#15][NR] Applicability of 38.331 to EN-DC (Huawei)

##### 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

Including corrections related to handover (i.e. reconfig with sync)

##### 10.4.1.3.5 Connection re-establishment procedure

##### 10.4.1.3.6 Connection resume procedure

Including success, reject, fallback to connection establishment, and release to idle cases.

##### 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.

##### 10.4.1.3.9 Inactive

Including aspects of inactive not addressed by the AI 10.4.1.3.6 on the resume procedure

##### 10.4.1.3.10 Access control

##### 10.4.1.3.11 Other

Including corrections related to RLM/RLF

Including overheating for NR standalone as requested by RAN in RP-182074.

Including RRC processing delay requirements

Including output of email discussion [103bis#16][NR] Overheating (Huawei)

#### 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 RRM

Including output of email discussion [103bis#17][NR] NR serving cell measurements (Huawei)

##### 10.4.1.4.2 Measurement gaps

Including output of email discussion [103bis#18][NR] Measurement gaps (Intel)

##### 10.4.1.4.3 Inter-RAT measurements

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

##### 10.4.1.4.4 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 38.331 impacts should be discussed in this agenda item.

#### 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

Corrections to broadcast parameters required for idle mobility should be discussed in 10.4.5.x

##### 10.4.1.6.2 System information procedures

Corrections to SI procedures including stored SI, SI modification, SI scheduling, stored SI, etc but not including on demand SI.

##### 10.4.1.6.3 On demand system information

##### 10.4.1.6.4 System information reception in connected mode

#### 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 Inter-Node RRC messages for EN-DC

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

### 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 In principle agreed CRs

In principle agreed CR to 36.331

#### 10.4.2.1 RRM measurements

Including output of email discussion [103bis#19][NR] Sorting of NR cells in measurement reports in LTE (Huawei)

#### 10.4.2.2 Inter-RAT Handover

Including both 36.331 and 38.331 corrections 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

Including capabilities related to inter-RAT handover and redirection involving NR, LTE/eLTE.

Including output of email discussion [103bis#20][NR] Inter-RAT HO (Huawei)

#### 10.4.2.3 Others

Other corrections to LTE RRC for EN-DC and SA

Including output of email discussion [103bis#21][NR] SupportedbandListNR (Ericsson)

### 10.4.4 UE capabilities

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

#### 10.4.4.0 In principle agreed CRs

In principle agreed CR to 38.306 and 36.306

#### 10.4.4.1 TS

38.306 rapporteur inputs, etc

Including output of email discussion [103bis#22][NR] UE capabilities (DOCOMO/Intel)

#### 10.4.4.2 UE capabilities for EN-DC

Including output of email discussion [103bis#23][NR] Relation of feature sets and band combinations (Ericsson)

Including output of email discussion [103bis#24][NR] SRS switching capability (Huawei)

#### 10.4.4.3 UE capabilities for standalone

### 10.4.5 Idle/inactive mode procedures

This AI addresses the idle and inactive behaviour specified in 38.304 or 36.304. Other aspects related to inactive (e.g. state transitions or other behaviour triggered by cell reselection, out of coverage, etc) are covered under RRC agenda items (10.4.1.x)

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

#### 10.4.5.0 In principle agreed CRs

#### 10.4.5.1 TS

Rapporteur inputs.

#### 10.4.5.2 Cell selection/reselection

Corrections to criteria and rules for cell selection and reselection

#### 10.4.5.3 Idle/inactive paging

Corrections to paging

#### 10.4.5.4 Idle mobility from LTE to NR

Corrections to LTE TS 36.304 on idle mobility from LTE to NR.

## 10.5 Late Drop

### 10.5.1 Stage 2 running CR

Including output of email discussion [103bis#09][NR/Late drop] 37.340 CR (ZTE)

### 10.5.2 38.331 running CR

Including output of email discussion [103bis#10][NR/Late drop] 38.331 CR (Ericsson)

Including confirmation, or otherwise, of the working assumption on use of full RRCReconfiguration message to carry SCG configuration for NR-DC.

### 10.5.3 36.331 running CR

Including output of email discussion [103bis#11][NR/Late drop] 36.331 CR (Samsung)

### 10.5.4 Security

Including output of email discussion [103bis#25][NR/Late drop] Remaining security issues for MR-DC (Intel)

### 10.5.5 UE capabilities and capability coordination

Including output of email discussion [103bis#26][NR/Late drop] NE DC capability parameters (Huawei)

Including output of email discussion [103bis#27][NR/Late drop] NR-DC capabilities (Nokia)

### 10.5.6 Measurements and measurement coordination

### 10.5.7 Other aspects common to NG-EN DC, NE-DC and NR-DC

Any stage 2 and stage 3 aspects common to NG-EN DC, NE-DC and NR-DC and not addressed by earlier agenda items

### 10.5.8 Other aspects specific to NG-EN DC

Any stage 2 and stage 3 aspects specific to NG-EN-DC and not addressed by earlier agenda items

### 10.5.9 Other aspects specific to NE-DC

Stage 2 and stage 3 aspects specific to NE-DC and not addressed by earlier agenda items

### 10.5.10 Other aspects specific to NR-DC

Stage 2 and stage 3 aspects specific to NR-DC and not addressed by earlier agenda items

# 11 Rel-16 NR Work Items

## 11.1 Study on Integrated Access and Backhaul for NR

(FS\_NR\_IAB; leading WG: RAN2; REL-16; started: Mar. 17; target: Dec. 18: SID: [RP-181349](file:///C:\Data\3GPP\Extracts\RP-181349_revision_of_IAB_SID.doc))

Time budget: 2 TU

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

### 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

Including output of email discussion [103bis#30][NR - IAB] Adaptation layer non-IP or IP (Ericsson)

Including output of email discussion [103bis#31][NR - IAB] Adaptation layer in MT (Qualcomm)

### 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-16; started: Mar. 17; target: Jun. 18: SID RP-181339)

Time budget: 1 TU

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

### 11.2.1 User plane

#### 11.2.1.2 MAC

MAC impacts other than RACH

#### 11.2.1.1 RACH

Including RACH 4-step, RACH 2-step

#### 11.2.1.3 Other

User plane impacts other than MAC

### 11.2.2 Control plane

#### 11.2.2.1 Inactive and Idle mode

Impacts to 38.304: mobility, paging in idle and inactive modes, system information

#### 11.2.2.2 Connected mode and RRC

General Mobility Aspects: How to find and identify NR-U target cell(s).

Impact to 38.331: RLM/RLF, mobility in connected mode (note that mobility solutions to be covered by the NR Mobility Enh WI are not to be discussed).

#### 11.2.2.3 Other

E.g. system topics for Stand Alone, if any.

### 11.2.3 Other

Including general topics covering both CP and UP, organisational

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

(FS\_5G\_eval; leading WG: RAN; REL-16; started: Mar. 17; target: Jun. 19: SID: RP-171451)

This agenda item is for submission of any contributions related to the RAN2 aspects of the self-evaluation for the IMT-2020 submission.

## 11.4 Study on NR V2X

(FS\_NR\_V2X; leading WG: RAN1; REL-16; started: Jun 18; target; Mar 19; SID: RP-182111)

Time budget: 1 TU

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

### 11.4.1 General

Including incoming LSs, work plan, rapporteur inputs, skeleton TR

Including output of email discussion [103bis#35][NR/V2X] V2X agreements (Huawei)

### 11.4.2 Sidelink design

#### 11.4.2.1 Scenarios

Including scenarios to be considered in SI

#### 11.4.2.2 L2/3 Protocol design common for unicast, groupcast and broadcast

Including common L2/3 protocol impacts (other than resource allocation aspect) for SL unicast, groupcast and broadcast

Including output of email discussion [103bis#36][NR/V2X] SL broadcast, UP aspects (LG)

Including output of email discussion [103bis#37][NR/V2X] NR SL broadcast, CP aspects (Huawei)

#### 11.4.2.3 L2/3 Protocol design specific to unicast/groupcast/broadcast

Including L2/3 protocol impacts (other than resource allocation aspect) specific for SL unicast/groupcast/broadcast

Including output of email discussion [103bis#38][NR/V2X] SL unicast/groupcast (LG)

#### 11.4.2.4 Resource allocation/configuration

Including SL resource allocation mechanism

#### 11.4.2.5 Others

### 11.4.3 Uu enhancements

Including analysis/evaluation on the need of Uu enhancement, identification of enhancements if any

Including output of email discussion [103bis#39][NR/V2X] e2e delay (Intel)

### 11.4.4 RAT/Interface selection

Including RAT/interface selection mechanism

Including output of email discussion [103bis#40][NR/V2X] RAT selection for SL (ZTE)

### 11.4.5 QoS management

Including solutions for QoS management of the radio interface

### 11.4.6 Others

## 11.5 Study in UE radio capability signalling

(FS\_RACS\_RAN; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 19; SID: [RP-181459](file:///C:\Data\3GPP\TSGR\TSGR_80\Docs\RP-181459.zip))

Time budget: 0.5 TU

### 11.5.1 Organisational

Including incoming LSs, rapporteur inputs, draft TR, etc

### 11.5.2 Radio interface signalling optimisations based on using UE capability identity

Including consideration of the interaction of the proposed optimisations with the Rel-15 mechanisms

Including output of email discussion [103bis#12][NR/UE cap SI] UE cap ID signalling options (MediaTek)

### 11.5.3 Radio interface signalling optimisations based on other means

Including optimisations based on e.g. compression, segmentation and including consideration of the interaction of the proposed optimisations with the Rel-15 mechanisms

Including output of email discussion [103bis#28][NR/UE cap SI] UE cap compression TP (Nokia)

Including output of email discussion [103bis#29][NR/UE cap SI] UE cap segmentation TP (Ericsson)

### 11.5.4 Other

Any other aspects

## 11.6 Study on NR non-terrestrial network

(FS\_NR\_NTN\_solutions; leading WG: RAN3; REL-16; started: Jun 18; target; Jun 19; SID: RP-181598)

Time budget: 0.5 TU

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

### 11.6.1 General

Including output of email discussion [103bis#33][NR – NTN] (Thales)

Rapporteur input

### 11.6.2 Requirements and Scenarios

Contributions on overall requirements and scenario prioritization. Key issues and requirement related to one of the areas identified below should be subsmitted in those AIs.

### 11.6.3 User Plane

#### 11.6.3.1 MAC Enhancements

Contributions related to MAC enhancements (e.g. DRX, HARQ, RA enhancements) and any other identified issues

#### 11.6.3.2 RLC Enhancements

Contributions related to RLC reordering (e.g. timers and SN space) and any other identified issues

#### 11.6.3.3 PDCP Enhancements

Contributions related to RLC reordering (e.g. timers and SN space) and any other identified issues

### 11.6.4 Control Plane

#### 11.6.4.1 Mobility

Including output of email discussion [103bis#34][NR - NTN] (Ericsson)

Contributions related to mobility scenarios and modeling

Contributions related to mobility enhancements and issues to address

#### 11.6.4.2 Idle mode

Including tracking area management and update, cell selection/reselection, and paging

#### 11.6.4.3 Other

## 11.7 Study on NR Industrial Internet of Things (IoT)

(FS\_ NR\_IIOT; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 19; SID: RP-182090)

Time budget: 1 TU

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

### 11.7.1 General

Rapportur input etc.

### 11.7.2 TSN

#### 11.7.2.1 Accurate reference timing

Accurate reference timing: Delivery & related process (e.g. SIB delivery or RRC delivery to UEs, Multiple Transmission points)

#### 11.7.2.2 Scheduling Enhancements

Enhancements e.g. for scheduling, to satisfy QoS for wireless Ethernet when using TSN traffic patterns as specified in TR 22.804.

#### 11.7.2.3 Ethernet Header Compression

Analysis of the benefits and the scenario (e.g. what are the formats and size of Ethernet frame to be considered, are VLAN fields included, protocol termination etc.). Definition of the requirements for a new header compression.

#### 11.7.2.4 Other

E.g. Performance evaluation of TSN requirements (TR 22.804 clause 8.1).

### 11.7.3 Intra-UE prioritization and multiplexing

Intra-UE prioritization and multiplexing, Including output of email discussion [103bis#41][NR/IIoT] Intra-UE prioritization (Nokia)

### 11.7.4 Data duplication and multi-connectivity

## 11.8 Study on NR Positioning Support

(FS\_NR\_pos; leading WG: RAN1; REL-16; started: Jun 18; target; Mar 19; SID: [RP-182155](file:///C:\Data\3GPP\TSGR\TSGR_81\docs\RP-182155.zip))

Time budget: 0.5 TU

### 11.8.1 Organisational

Including incoming LSs, skeleton TR, rapporteur inputs, etc

### 11.8.2 Architecture and protocol aspects

### 11.8.3 Other

# 12 Rel-16 LTE Work Items

## 12.1 Additional MTC enhancements for LTE

(LTE\_eMTC5-Core; leading WG: RAN1; REL-16; started: Jun 18; target; Dec 19; WID: RP-181878)

Time budget: 2 TU

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

Some sub-items in 12.1 and 12.2 may be treated jointly.

### 12.1.1 Organisational

Including incoming LSs, rapporteur inputs, running CRs

### 12.1.2 Mobile-terminated (MT) early data transmission (EDT)

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

### 12.1.3 UE-group wake-up signal (WUS)

UE-group wake-up signal (WUS) for MTC is treated jointly with NB-IoT under AI 12.2.3. Do not use this AI for any item that can be discussed jointly.

### 12.1.4 Transmission in preconfigured resources

Transmission in preconfigured resources for MTC is treated jointly with NB-IoT under AI 12.2.4. Do not use this AI for any item that can be discussed jointly.

### 12.1.5 Scheduling multiple DL/UL transport blocks

Scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast

Scheduling multiple DL/UL transport blocks for MTC and NB-IoT is treated jointly under this AI.

### 12.1.6 Quality report in Msg3

### 12.1.7 MPDCCH performance improvement using CRS

### 12.1.8 Improvements for non-BL UEs

CE mode A and B improvements for non-BL UEs among “enhancements to idle mode mobility”, “UE demodulation performance requirements for 2 RX antennas and full duplex FDD”, “Dual layer DL reception”, “Feedback based on CSI-RS”, “ETWS/CMAS in connected mode”

### 12.1.9 Stand-alone deployment

Enable the use of LTE control channel region for DL transmission (MPDCCH/PDSCH) to BL/CE UEs

### 12.1.10 Mobility Enhancements

Improving the DL RSRP and, RSRQ measurement accuracy, through use of RSS, relaxation of RRM measurements for serving cell for UEs using WUS for at least low mobility UEs

### 12.1.11 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of MTC with NR

### 12.1.12 Other

## 12.2 Additional enhancements for NB-IoT

(NB\_IOTenh3-Core; leading WG: RAN1; REL-16; started: Jun 18; target; Dec 19; WID: RP-181674)

Time budget: 2 TU

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

Some sub-items in 12.1 and 12.2 may be treated jointly.

### 12.2.1 Organisational

Including incoming LSs, draft TS, rapporteur inputs, etc

### 12.2.2 Mobile-terminated (MT) early data transmission (EDT)

Mobile-terminated Early Data transmission for NB-IoT is treated jointly with MTC under AI 12.1.2. Do not use this AI for any item that can be discussed jointly.

### 12.2.3 UE-group wake-up signal (WUS)

UE group wake Up signal for MTC and NB-IoT is treated jointly under this Agenda Item.

### 12.2.4 Transmission in preconfigured resources

Including support for transmission in preconfigured resources in idle and/or connected mode based on SC-FDMA waveform for UEs with a valid timing advance.

Transmission in preconfigured resources for MTC and NB-IoT is treated jointly under this Agenda Item.

### 12.2.5 Scheduling multiple DL/UL transport blocks

Including scheduling multiple DL/UL transport blocks with or without DCI for SC-PTM and unicast

Scheduling multiple DL/UL transport blocks for NB-IoT is treated jointly with MTC under AI 12.1.5. Do not use this AI for any item that can be discussed jointly.

### 12.2.6 Network management tool enhancement

Including SON support for ANR, Random access performance and RLF report

### 12.2.7 Improved multi-carrier operation

Including support of Msg3 quality reporting for non-anchor access.

Including signalling to indicate on a non-anchor carrier for paging a set of subframes which will contain NRS even when no paging NPDCCH is transmitted.

### 12.2.8 Inter-RAT cell selection

Including power efficient NB-IoT mechanism which would assist idle mode inter-RAT cell selection for NB-IoT to and from LTE, LTE-MTC and GERAN

### 12.2.9 Coexistence with NR

Study NR and LTE specifications to identify possible issues related to coexistence of NB-IoT with NR

### 12.2.10 Other

Others

## 12.3 Even further mobility enhancement in E-UTRAN

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Dec 19; WID: RP-181544)

Time budget: 1 TU

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

### 12.3.1 Organizational

Including incoming LSs and rapporteur inputs (if any)

### 12.3.2 Reduction in user data interruption during handover

*Including analysis of current interruption and possible solutions to reduce the interruption time, e.g.*

* *Details of the solution directions with split bearer (e.g. how does PDCP relocation/reordering work, security impacts, duplication of data, need for dual RRC)*
* *Details of the solution directions with non-split bearer (e.g. how does PDCP relocation/reordering work, security impacts, duplication of data, need for dual RRC)*

### 12.3.3 Handover robustness improvements

*Including analysis of handover robustness issues in Rel-15 and possible solutions to improve that, e.g.*

* *Details of the solution directions that improve handover robustness over existing Rel-15 methods (including how to combine the robustness solution with interruption reducing solutions)*
* *Performance evaluation (e.g. via simulation results) of candidate schemes (including indication of how the mobility robustness improvement is evaluated, e.g. via HOF/RLF rate)*

### 12.3.4 Other

*Including discussion on whether the solutions in the WID should be applicable for LTE connected to 5GC.*

# 13 Comebacks

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

## 13.1 Breakout sessions

### 13.1.1 Report from Break-Out session

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

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

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

### 13.1.2 Report from Break-Out session

Report from session on NR UP, IAB SI, NR-U SI, NR IIoT SI

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

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

### 13.1.3 Report from Break-Out session

Report from session on NB-IoT

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

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

### 13.1.4 Report from Break-Out session

Report from session on MTC

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

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

### 13.1.5 Report from Break-Out session

Report from session on Legacy LTE, Rel-15 LTE, and NR NTN SI,

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

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

### 13.1.6 Report from Break-Out session

Report from session on Rel-15 Positioning WI

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

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

### 13.1.7 Report from Break-Out session

Report from session on LTE V2X and NR V2X

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

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

### 13.1.8 Report from Break-Out session

Report from session on Rel-16 LTE Mobility Enhancements WI

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

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

## 13.2 Main session

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

# 14 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.

# 15 Any other business

# 16 Closing of the meeting (17:00)