3GPP TSG-RAN WG2 Meeting #100 R2-17xxxxx

Reno, USA, 27th November – 1st December 2017

Source: RAN2 Chairman (Intel)

Object: Proposed Agenda

# 1 Opening of the meeting (9 AM)

## 1.1 Call for IPR

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

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

## 1.2 Network usage conditions

The PCG has laid down the following network usage conditions

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

## 1.3 Other

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

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

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

# 2 General

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

## 2.1 Approval of the agenda

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

## 2.2 Approval of the report of the previous meeting

## 2.3 Reporting from other meetings

## 2.4 Others

Rapporteur changes

Spec former rapporteur proposed new rapporteur

Isolated impact analysis

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

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

RAN2 WG compendium

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

Drafting rules

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

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

Time Budget

The time budget endorsed at RAN-77 is available in RP-172116

Offline discussion during RAN2 meeting

Chairs will allocate a number of offline discussions during the meeting. Create a folder containing this number within inbox/drafts and use this to share any documents relating to the offline discussion. Also use this number in the title of any reflector emails relating to this offline discussion. Do not share documents over the reflector during the meeting.

# 3 Incoming liaisons

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

# 4-5 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)

## 6.0 In principle agreed CRs

## 6.1 Other

Including output of email discussion [99bis#45][LTE/IDC] – UL CA IDC problems- Nokia

# 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

### 7.1.0 In principle agreed CRs

### 7.1.1 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

## 7.3 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)

### 7.3.0 In principle agreed CRs

### 7.3.1 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

### 8.2.1 User plane

### 8.2.2 Control plane

## 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)

## 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

### 8.10.0 In principle agreed CRs

### 8.10.1 Other

## 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

### 8.11.0 In principle agreed CRs

### 8.1.1 Other

Including output of email discussion [99bis#33][NB-IoT R14] UE-Capability-NB extension (Sequans)

## 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

### 8.12.0 In principle agreed CRs

### 8.12.1 Multicast for feMTC and eNB-IoT

### 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

### 8.13.0 In principle agreed CRs

### 8.13.1 Stage 2

### 8.13.2 User plane

Including output of email discussion [99bis#46][LTE/V2X] CR to 36.321 - LG

### 8.13.3 Control plane

## 8.14 WI: SRS switching between LTE component carriers

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

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

### 8.14.0 In principle agreed CRs

### 8.14.1 Other

## 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)

## 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

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

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.

### 8.25.0 In principle agreed CRs

### 8.25.1 Other

# 9 LTE Rel-15

## 9.1 SI: Further Enhancements to LTE Device to Device, UE to Network Relays for IoT and Wearables

(FS\_feD2D\_IoT\_relay\_wearable; leading WG: RAN2; REL-15; started: Mar. 16; target: Dec. 17; SID: RP-170295)

Time budget: 0.5TU

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

### 9.1.0 In principle agreed CRs

### 9.1.1 Other

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

(LTE\_STTIandPT-core; leading WG: RAN1; REL-15; started: June 16; target: Dec. 17; WID: RP-171468)

Time budget: 0.5 TU

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

Including output of email discussion [99bis#47][LTE/sTTI] CR to 36.300 – Ericsson

Including output of email discussion [99bis#48][LTE/sTTI] CR to 36.321 – Ericsson

Including output of email discussion [99bis#49][LTE/sTTI] CR to 36.331 – Ericsson

Including output of email discussion [99bis#50][LTE/sTTI] CR to 36.302 – Ericsson

Including output of email discussion [99bis#51][LTE/sTTI] CR to 36.306 – Ericsson

Including output of email discussion [99bis#52][LTE/sTTI] – Remaining open issues on sTTI – Ericsson

## 9.3 Void

## 9.4 Study on Enhanced Support for Aerial Vehicles

(FS\_LTE\_Aerial; leading WG: RAN2; REL-15; started: Mar. 17; target: Dec. 17: SID: RP-171050)

Time budget: 1.5 TU

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

### 9.4.1 General

(work plan and TR skeleton)

Including output of email discussion [99bis#08][LTE/UAV] Running TR36.777 (DCM)

### 9.4.2 Requirements and parameter identification

(Identify the heights, speeds, latency, reliability, data rate, positioning accuracy, etc , taking into account the regulation viewpoints)

No contribution is expected since the requirements studied are finalized.

### 9.4.3 Potential enhancements for UAV interference problem

(Solutions to detect whether UL signal from an air-borne UE increases interference in multiple neighbour cells and whether an air-borne UE incurs interference from multiple cells)

Including output of email discussion [99bis#30][LTE/UAV] Capture potential solutions for DL and UL Interference detection [DCM]

### 9.4.4 Potential enhancements for handover

(Identify if enhancements in terms of cell selection and handover efficiency as well as robustness in handover signalling can be achieved)

#### 9.4.4.1 Handover simulation results

Capturing the UAV simulation result into the TR 36.777

Including output from email discussion [99bis#31][LTE/UAV] Capture handover simulation results with observations [Huawei]

#### 9.4.4.2 Mobility related field trial result

Capturing the mobility field trial result into the TR36.777

Including output from email discussion [99bis#60][LTE/UAV] Capture field trial results (Qualcomm)

#### 9.4.4.1 Potential enhancements solutions

Identify potential solutions for enhancements of UAV handover.

Including output from email discussion [99bis#61][LTE/UAV] Identify potential solutions on mobility enhancement (Ericsson)

### 9.4.5 Identify certification

(Identification of an air-borne UE that does not have proper certification for connecting to the cellular network while air-borne)

### 9.4.6 Others

## 9.5 Further video enhancements for LTE

(LTE\_ViLTE\_enh2-Core; leading WG: RAN2; REL-15; started: Mar. 17; target: Dec. 17: WID: RP-171392)

Time budget: 0.5 TU

### 9.5.1 General

(work plan)

### 9.5.2 Local caching for UE assistance video request

Including output from email discussions [99#33][LTE/eViLTE] UE assistance information (CMCC)

### 9.5.3 Enhancement to solve the problem of critical data discard

### 9.5.4 Others

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

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

Time budget: 0 TU

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

The WI has no time budget allocated for this meeting. CRs to conclude the WI were agreed in principle in RAN2#99bis, and hence this AI is only for handling of those CRs and any necessary modifications/corrections to those CRs.

### 9.6.0 In principle agreed CRs

### 9.6.1 Others

## 9.7 LTE connectivity to 5G-CN

(LTE\_5GCN\_connect-Core; leading WG: RAN2; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-171432)

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 Stage 2 aspects independent from NR/5GC

Including AS support for EPC/5GC selection, inter-RAT mobility (e.g. between E-UTRA/5GC and E-UTRA/EPC but not mobility in inactive which is addressed by AI 10.4.1.7.4), etc.

### 9.7.3 Stage 2 aspects dependent on NR/5GC

Including impact to E-UTRA DC due to flow based QoS, operation of flow based QoS at intra system handover and inter system handover, access control, inactive state, and slicing. These will be discussed when NR has made more progress on these items, and hence will not be discussed at this meeting.

## 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-171508)

Time budget: 0 TU

This AI is a placeholder only - no documents to be submitted to this AI. The WI has no time budget allocated for this meeting and will be discussed again at RAN2#101.

### 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 sceanrio 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-170805)

Time budget: 1 TU

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

### 9.9.1 General

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

### 9.9.2 Delay reduction for SCell set-up

Including output of email discussion [99bis#32][LTE/euCA] Faster activation for Scells (Nokia)

### 9.9.3 Signalling overhead reduction for configuration activation

### 9.9.4 Others

## 9.10 Enhancements on LTE-based V2X Services

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

Time budget: 1 TU

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

### 9.10.1 General

Including incoming LSs, work plan and rapporteur inputs.

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

Focus should be on RAN2 aspects.

Details of carrier selection

Handling of the UE with limited Rx chains

Protocol architecture and details for packet duplication

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

Focus should be on RAN2 aspects.

### 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).

## 9.11 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: 0.5 TU

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-170848)

Time budget: 1 TU

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

### 9.12.1 General

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

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

### 9.12.3 Other operation on Frame structure type 3

### 9.12.4 Others

## 9.13 Further NB-IoT enhancements

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

Time budget: 2 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.

For WI objectives A-1 to A-5, the following approach has been concluded by RAN WG chairs for providing the "complete running CRs/draft CRs to RAN#78":

a/ Draft/running CRs for the prioritised features are endorsed by the RAN WGs as being complete

b/ The CRs are attached for information in an LS to RAN

c/ The CRs are referenced in the status report to demonstrate the objectives have been met

d/ RAN WGs do not provided the CRs to RAN as agreed or technically endorsed

### 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.

Including output of email discussion [99bis#53][MTC/NB-IoT] EDT indication via PRACH – Ericsson

Including output of email discussion [99bis#55][MTC/NB-IoT] EDT RRC messages – Huawei

### 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.

Including output of email discussion [99bis#35][NB-IoT/MTC] Relaxed Monitoring (Ericsson)

### 9.13.5 Semi-Persistent Scheduling

### 9.13.6 RRC Connection Release Enhancements

Including output of email discussion [99bis#36][NB-IoT] RRC release enhancements (QC)

### 9.13.7 UE differentiation

### 9.13.8 TDD

Including output of email discussion [99bis#34][NB-IoT] Timer impact of TDD (Ericsson)

### 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 Other

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

Including output of email discussion [99bis#37][NB-IoT/MTC] WakeUp Signal (Huawei)

## 9.14 Even further enhanced MTC for LTE

(LTE\_eMTC4-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-171427)

Time budget: 1 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

### 9.14.2 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.X Do not use this AI for any item that can be discussed jointly.

### 9.14.10 Other

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

## 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-171489

Time budget: 0.5 TU

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

## 9.16 UL data compression in LTE

(LTE\_UDC-Core; leading WG: RAN2; Rel-15; started Sep 17; target: Mar 18; WID RP-172076)

Time budget: 1.0 TU

Including output of email discussion [99bis#29][LTE/UDC] Operator controlled dictionary issue [MTK]

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-171031)

Time budget: 0.5 TU

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

## 9.18 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)

## 9.19 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

# 10 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Jun. 18: WID: RP-172115)

## 10.1 Organisational

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

## 10.2 Stage 2 and common UP/CP aspects

Proposals to the stage 2 should be submitted with a TP to show the impact to the stage 2 specifications.

### 10.2.1 Stage 2 TSs and running CR

Latest TS 38.300, TS 37.340 and running CR to 36.300, other rapporteur inputs, anything related to specification methodology. Please submit any new text proposals to the appropriate agenda item.

### 10.2.2 User Plane

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

#### 10.2.2.1 Bearer type harmonisation

Any remaining stage 2 aspects relating to bearer type harmonisation

This agenda item is relevant to EN-DC completion and standalone operation.

Maximum 1 tdoc per company

#### 10.2.2.2 Bearer type change

This agenda item is relevant to EN-DC completion and standalone operation.

Maximum 1 tdoc per company.

#### 10.2.2.3 Other

Any remaining stage 2 user plane aspects - detailed topics should be discussed in stage 3 user plane.

This agenda item is relevant to EN-DC completion and SA.

### 10.2.3 Impact of bandwidth parts

Any remaining stage 2 aspects relating to bandwidth parts for EN-DC, noting that it was agreed last meeting to discuss BWP impact to standalone operation after Dec 17. Detailed topics should be addressed under the appropriate UP or CP stage 3 AI.

This agenda item is relevant to EN-DC completion.

Maximum 1 tdoc per company

### 10.2.4 MN/SN measurement coordination

Any remaining stage 2 aspects relating to MN/SN measurement coordination.

Further detail discussion of the measurement object parameters that can be configured differently without affecting whether the 2 measurement objects will count as 1 or 2 measurement layers, please use stage 3 agenda item 10.4.1.4.1.

This agenda item is relevant to EN-DC completion.

Maximum 1 tdoc per company

### 10.2.5 MN/SN procedures for EN-DC

Any remaining stage 2 aspects relating to MN/SN procedures for EN-DC

Details of the content of inter node RRC messages should be progressed in stage 3 AI 10.4.1.9.

This agenda item is relevant to EN-DC completion.

Maximum 1 tdoc per company

### 10.2.6 Security for EN-DC

Any remaining stage 2 aspects relating to security for EN-DC.

This agenda item is relevant to EN-DC completion.

### 10.2.7 Single Tx

Any remaing aspects for single tx operation, including capability signalling and TDM pattern coordination (NOTE: Still to be confirmd whether TDM pattern coordination will be discussed first in RAN2 or RAN3)

Including output from email discussion [99bis#15][NR] Capability of signalling for 1 tx (Nokia)

### 10.2.8 Supplementary uplink

Any remaing stage 2 aspects for SUL operation, including any joint CP/UP aspects. Contributions on stage 3 aspects should be submitted in the corresponding stage 3 AIs.

### 10.2.9 EN-DC - other aspects

Any remaining stage 2 aspects. Contributions should include a TP to show how the stage 2 specification would be impacted (if no stage 2 spec impact then the contribution should be submitted to an appropriate stage 3 AI)

This agenda item is relevant to EN-DC completion.

### 10.2.10 Mobility mechanisms - basic handover

Any remaining stage 2 aspects of basic handover (and not common to SCG change for EN-DC). Contributions should include a TP to show how the stage 2 specification would be impacted (if no stage 2 spec impact then the contribution should be submitted to an appropriate stage 3 AI)

This agenda item is not relevant to EN-DC completion but will be treated if time allows

### 10.2.11 Mobility mechanisms - other

Note decisions at RAN2#97bis to progress the basic HO mechanism and only when stable to discuss conditional handover and potential optimisations to target close to 0ms or 0ms interruption.

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

### 10.2.12 Mobility - RLM,RLF

Any remaining stage 2 aspects of radio link monitoring procedure and criteria for declaring radio link failure, including impact of beam failure/recovery based on responses from RAN1 to questions sent from last meeting.

Stage 2 for RLM/RLF for EN-DC is considered complete, and hence this agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

Maximum 1 tdoc per company

### 10.2.13 Mobility without RRC involvement

AI is a placeholder for when RAN1 has made progress on beam management. Any RAN2 contributions should focus on the RAN2 implications as a consequence of RAN1 agreements - do not submit duplicates of RAN1 documents here.

This agenda item is relevant to EN-DC completion

### 10.2.14 Mobility - Inter-RAT

Connected mode mobility between NR and E-UTRA

Inter-RAT NR measurements to be added to E-UTRA for purpose of EN-DC should be discussed under stage 3 AI 10.4.2.

Inter-RAT E-UTRA measurements to be added to NR for the purpose of inter-RAT handover from NR to -E-UTRA should be discussed under stage 3 AI 10.4.1.3.7

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

### 10.2.15 Security (non EN-DC)

Stage 2 aspects of security for cases other than EN-DC

This agenda item is not relevant to EN-DC completion but will be treated if time allows.

### 10.2.16 Slicing

Including signalling of slice info to RAN, impact to access control, confirmation (or otherwise) of working assumption from RAN2#99 on use of dedicated prioritises to control idle mode mobility for slicing, etc

This agenda item is not relevant to EN-DC completion but will be treated if time allows.

### 10.2.17 QoS

Any remaining stage 2 aspects, including QoS operation with DC.

Detailed topics should be discussed in stage 3 user plane

Note agreement at RAN2#97bis that QoS flow remapping at handover will be discussed when flow remapping not at handover has been progressed within user plane session.

This agenda item is not relevant to EN-DC completion but will be treated if time allows.

### 10.2.18 Positioning

This agenda item is not relevant to EN-DC completion but will be treated if time allows.

### 10.2.19 Stage 2 corrections

This agenda item is for corrections to the draft stage 2 TSs. 'Corrections' means improvements to the way that existing agreements are captured in the TS, or addition of existing agreements that have been omitted (new agreements should not be proposed). In addition, such corrections should first to communicated to the specification rapporteur for possible inclusion in a rapporteur's update, and only submitted here if you conclude a separate contribution should be useful.

This agenda item is relevant to EN-DC completion and non EN-DC.

### 10.2.20 Other (non EN-DC)

Other stage 2 aspects for non EN-DC

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

## 10.3 Stage 3 user plane

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

### 10.3.1 MAC

#### 10.3.1.1 TS

Latest TS 38.321, rapporteur inputs, etc

Including output from email discussion [99bis#12][NR UP/MAC] – Running TS 386.321 – Samsung

Please provide input to the rapporteur for corrections. Single rapporteur TP is encouraged.

#### 10.3.1.2 MAC general aspects

Including output of email discussion [99bis#42][NR UP/MAC] – NR Unit replacement – Ericsson

Including output of email discussion [99bis#43][NR UP/MAC] Impact of BWP – LG

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion will not be treated and are highly discouraged even if you disagree with the proposal made by rapporteur.

#### 10.3.1.3 MAC PDU format

Contributions should focus only on critical issues/corrections related to agreed MAC PDU formats – Max 1 contributions per company

#### 10.3.1.4 Random access

##### 10.3.1.4.1 Differentiation of RA parameters

This AI will not be treated. Discussion on this topic will resume where we left off after Dec. 2017

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

Max 1 contribution per company only on issues related to multi-beam operation

##### 10.3.1.4.3 Random access procedures

Final issues to be resolved on on further details of random access procedures, preamble selection, power ramping for msg1 transmission (with no beam forming) RA-RNTI calculation and 4 contention resolution. – Maximum 1 contribution per company

Stage 3 details of On-demand SI request. Details for msg3 based-SI request depend on CP discussions will not not be progressed given the prioritization of SI design in CP.

##### 10.3.1.4.4 Other aspects related to RA

Other remaining aspects including impacts of SUL on initial access

#### 10.3.1.5 SR

Including output of email discussion [99bis#38][NR UP/MAC] – SR open issues - Nokia

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion will not be treated and are highly discouraged even if you disagree with the proposal made by rapporteur.

#### 10.3.1.6 BSR

Including output of email discussion [99bis#39][NR UP/MAC] – BSR open issues – Vivo

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion will not be treated and are highly discouraged even if you disagree with the proposal made by rapporteur.

#### 10.3.1.7 LCP

Including output of email discussion [99bis#40][NR UP/ MAC] – LCP – Interdigital

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion will not be treated and are highly discouraged even if you disagree with the proposal made by rapporteur.

#### 10.3.1.8 SPS/Grant-free

Including output of email discussion [99bis#41][NR UP/MAC] – Open issues on SPS and GF – Huawei

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion will not be treated and are highly discouraged even if you disagree with the proposal made by rapporteur.

#### 10.3.1.9 HARQ

#### 10.3.1.10 DRX

Contributions should focus on final critical issues/corrections for DRX

#### 10.3.1.11 Impact of PDCP duplication on MAC

MAC CE for activation/deactivation of PDCU 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

This AI will not be treated

#### 10.3.1.12 PHR

Contributions should focus on final critical issues/corrections for DRX and finalizing PHR in the presence of beamforming

#### 10.3.1.13 Other

Other aspects not included in the detailed agenda items.

### 10.3.2 RLC

#### 10.3.2.1 TS

Latest TS 38.323, rapporteur inputs, etc

Including output from email discussion [99bis#13][NR UP/RLCMAC] – Running TS 386.322 – Mediatek

Please provide input to the rapporteur for corrections. Single/combined rapporteur TP is encouraged.

#### 10.3.2.2 RLC header format

Contributions should focus only on critical issues/corrections related to agreed RLC PDU format (e.g. not enhancements)

#### 10.3.2.3 RLC UM operation

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

#### 10.3.2.4 Impact of PDCP duplication to RLC

This AI will not be treated

#### 10.3.2.5 RLC AM operation

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion are highly discouraged.

#### 10.3.2.6 Other

Including output from email discussion [99bis#59][NR UP/RLC] Open issues related to RLC – Ericsson

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

Contributions related to open issues discussed in email discussion are highly discouraged.

### 10.3.3 PDCP

#### 10.3.3.1 TS

Latest TS 38.323, rapporteur inputs, etc

Including output from email discussion [99bis#14][NR UP/PDCPMAC] – Running TS 386.323 – LG

Please provide input to the rapporteur for corrections. Single/combined rapporteur TP is encouraged.

#### 10.3.3.2PDCP PDU formats

Contributions should focus only on critical issues/corrections related to agreed PDCP PDU format (e.g. not enhancements)

#### 10.3.3.3 PDCP receive operation

Contributions should focus only on critical remaining issues/corrections

#### 10.3.3.4 UL data split

Including output of email discussion [99bis#44][NR UP/PDCP] – TP for PDCP pre-processing – LG

Max 1 contribution per company focusing on critical issues NOT identified/addressed by email discussion – supporting TP included in the contribution

#### 10.3.3.5 PDCP duplication

This AI will not be treated

#### 10.3.3.6 Support for RoHC

#### 10.3.3.7 Other

Contributions should focus only on critical remaining issues/corrections

### 10.3.4 SDAP

This AI is down-prioritized and will be treated if issues that require RAN2 attention for other WGs to progress are identified

#### 10.3.4.1 TS

Latest TS 37.324, rapporteur inputs, etc

#### 10.3.4.2 Header Format

Details of header format only (e.g. size of QFI and use of one bit QFI). Progress on some aspects may require SA2 response.

#### 10.3.4.3 Other

QoS flow remapping and handover within the same cell (max 1 contribution per company for this topic)

Other SDAP issues

## 10.4 Stage 3 control plane

### 10.4.1 NR RRC

#### 10.4.1.1 TS

Latest TS 38.331, other rapporteur inputs, etc. Please submit any new text proposals to the appropriate agenda item. Note specification methodology has been given a separate AI for RRC.

Including output from email discussion [99bis#16][NR] TS 38.331 (Ericsson)

This agenda item is relevant to EN-DC completion.

#### 10.4.1.2 Specification methodology

This agenda item is relevant to EN-DC completion.

#### 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 Connection reconfiguration message and bearer handling

Structure and general content of RRCConnectionReconfiguration message. Including the related additions to the LTE RRCConnectionReconfiguration for EN-DC operation.

Including output from email discussion [99bis#17][NR] Reconfiguration and bearer handling (Ericsson)

Any contributions should focus on critical issues NOT resolved by the email discussion and a supporting TP should be included in the contribution.

This agenda item is relevant to EN-DC completion.

##### 10.4.1.3.2 Connection reconfiguration message - L2 parameters

L2 parameter content of RRCConnectionReconfiguration message.

Including output from email discussion [99bis#18][NR] L2 parameters in RRC (Huawei)

Any contributions should focus on critical issues NOT resolved by the email discussion and a supporting TP should be included in the contribution..

This agenda item is relevant to EN-DC completion.

##### 10.4.1.3.3 Connection reconfiguration message - L1 parameters

L1 parameter content of RRCConnectionReconfiguration message.

Including output from email discussion [99bis#19][NR] L1 parameters in RRC (Ericsson)

Any contributions should focus on critical issues NOT resolved by the email discussion and a supporting TP should be included in the contribution.

This agenda item is relevant to EN-DC completion.

##### 10.4.1.3.4 Other (for EN-DCs)

Stage 3 details related to SCG SRB, split SRB, etc.

Including output from email discussion [99bis#21][NR] RRC reconfiguration processing time for EN-DC (Ericsson)

This agenda item is relevant to EN-DC completion.

##### 10.4.1.3.5 Connection control message harmonisation

Harmonisation/merging of messages to be used for different procedures, UE identity and other message content to be used in different cases, etc.

This agenda item is not relevant to EN-DC completion but will be treated if time allows.

Maximum 1 tdoc per company

##### 10.4.1.3.6 Other (for non EN-DC)

Other aspects of connection control procedures, state transitions, etc that are not relevant for EN-DC (other aspects relevant for EN-DC should be submitted to 10.4.1.3.2)

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 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 TP

Including finalising details of measurement report content and measurement report configuration (separate AIs for these topics are not provided at this meeting).

This agenda item is relevant to EN-DC completion

Including output from email discussion [99bis#20][NR] RRM (Ericsson)

Any contributions should focus on critical issues NOT resolved by the email discussion and a supporting TP should be included in the contribution.

##### 10.4.1.4.2 L3 filter configuration

Including output from email discussion [99bis#22][NR] Filter coefficients (MediaTek)

This agenda item is relevant to EN-DC completion

Maximum 1 tdoc per company

##### 10.4.1.4.3 Measurement events

Any additional aspects of measurement events. Potential support for Cx events will be discussed when input has been received from RAN1 on beam management

This agenda item is relevant to EN-DC completion

##### 10.4.1.4.4 Measurement gaps

For initial discussion in RAN2 but may be difficult to progress without input from RAN4.

This agenda item is relevant to EN-DC completion

##### 10.4.1.4.5 Other (for EN-DC)

Other RRM related aspects that are relevant to EN-DC

This agenda item is relevant to EN-DC completion

##### 10.4.1.4.6 Inter-RAT measurements

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

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

##### 10.4.1.4.7 Other (for non EN-DC)

Other RRM related aspects that are not relevant for EN-DC

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 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 Beam selection for HO access

This agenda item is relevant to EN-DC completion.

Including output from email discussion [99bis#23][NR] TP on beam selection (Ericsson)

Maximum 1 tdoc per company

##### 10.4.1.5.2 SCG change for EN-DC

Stage 3 details of SCG change for EN-DC.

This agenda item is relevant to EN-DC completion.

##### 10.4.1.5.3 SCG failure for EN-DC

Stage 3 details for SCF failure for EN-DC, including both the NR and LTE aspects of the procedure.

This agenda item is relevant to EN-DC completion.

#### 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 MIB content

Any further details of the MIB content required for EN-DC operation.

This agenda item is relevant to EN-DC completion

##### 10.4.1.6.2 System information content/structure

Progress details of the content and structure of system information (excluding MIB content covered in AI 10.4.1.5.2)

This agenda item is not relevant to EN-DC completion but will be treated if time allows .

##### 10.4.1.6.3 Stored system information

Further details of stored SI including index/identifier format

This agenda item is not relevant to EN-DC completion but will be treated if time allows.

Maximum 1 tdoc per company

##### 10.4.1.6.4 System information modification

This agenda item is not relevant to EN-DC completion but will be treated if time allows

Maximum 1 tdoc per company

##### 10.4.1.6.5 System information scheduling

This agenda item is not relevant to EN-DC completion and but will be treated if time allows

Maximum 1 tdoc per company

##### 10.4.1.6.6 On demand system information

Including need for additional bit to indicate if SI message is actually being broadcast

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

##### 10.4.1.6.7 System information -other

Other system information related aspects

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting

#### 10.4.1.7 Inactive state

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

##### 10.4.1.7.1 RAN area configuration

Any further details of RAN area configuration given LS response to RAN3 from RAN2#99bis.

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

Maximum 1 tdoc per company

##### 10.4.1.7.2 RAN area update procedure

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

Maximum 1 tdoc per company

##### 10.4.1.7.3 Paging in inactive

RRC procedure to respond to paging, including any differences between RAN and CN paging

This agenda item is not relevant to EN-DC completion but will be treated if time allows

##### 10.4.1.7.4 Inter-RAT mobility between NR Inactive and E-UTRA/5GC Inactive

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

##### 10.4.1.7.5 Security framework for inactive

Security framework for inactive UEs to address FFS arising from email discussion 98#30.

This agenda item is not relevant to EN-DC completion but will be treated if time allows

##### 10.4.1.7.6 Inactive - other

Other inactive state related aspects

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.1.8 Access control

Continue to progress unified access control

This agenda item is not relevant to EN-DC completion but will be treated if time allows

Including output from email discussion [99bis#24][NR] AC (Intel)

#### 10.4.1.9 Inter-Node RRC messages

Structure and content of the Inter-Node RRC messages used for EN-DC procedures.

Including output from email discussion [99bis#25][NR] Inter-node RRC messages (Samsung)

This agenda item is relevant to EN-DC completion.

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

Other RRC related aspects

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

### 10.4.2 LTE RRC changes for EN-DC

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

Note that changes to LTE RRCConnectionReconfiguration for configuring EN-DC will be discussed jointly with NR RRCConnectionReconfiguration in 10.4.1.3.1, and NR and :LTE aspects of SCG failure for EN-DC will be jointly discussed in 10.4.1.5.3.

#### 10.4.2.1 Running CR

This agenda item is relevant to EN-DC completion

Including output from email discussion [99bis#26][NR] LTE RRC running CRs (Samsung)

#### 10.4.2.2 RRM measurements

Introduction of inter-RAT NR measurements within LTE RRC.

This agenda item is relevant to EN-DC completion.

#### 10.4.2.3 Other

Including the NR indication in LTE system information, etc

This agenda item is relevant to EN-DC completion.

### 10.4.3 UE capabilities

No documents should be submitted to 10.4.3. Please submit to 10.4.3.x.

#### 10.4.3.1 UE capability structure

This agenda item is relevant to EN-DC completion and SA.

Including output from email discussion [99bis#28][NR] UE capability ASN.1 structure (Intel)

Maximum 1 tdoc per company

#### 10.4.3.2 UE capability coordination

This agenda item is relevant to EN-DC completion.

Maximum 1 tdoc per company

#### 10.4.3.3 Other aspects for EN-DC

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

Including output from email discussion [99bis#27][NR] L2/3 capabilities (Intel)

This agenda item is relevant to EN-DC completion.

#### 10.4.3.4 Temporary capability restriction

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

Maximum 1 tdoc per company

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

Any other stage 2 aspect related to UE capabilities relevant for non EN-DC cases

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.3.6 TS

Latest 38.306, other rapporteur inputs, anything related to specification methodology.

This agenda item is relevant to EN-DC completion

### 10.4.4 Idle/inactive mode procedures

#### 10.4.4.1 TS

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

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.4.2 Selection/reselection rules

Basic criteria and rules for cell selection and reselection

Maximum 1 tdoc per company

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.4.3 Cell quality derivation

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

Maximum 1 tdoc per company

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.4.4 Service based reselection

Maximum 1 tdoc per company

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.4.5 Selection/reselection - other aspects

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

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

#### 10.4.4.6 Idle/inactive paging

Including beam related aspects, response driven paging and calculation of paging occasion.

This agenda item is not relevant to EN-DC completion and is not expected to be treated at this meeting.

# 11 Comebacks

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

## 11.1 Breakout sessions

### 11.1.1 Report from Break-Out session

Report from session on Rel-14 and Rel-15 LTE

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

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

### 11.1.2 Report from Break-Out session

Report from session on Rel-13/14 NB-IoT, Rel-13/14 MTC, Rel-15 NB-IoT WIs

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

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

### 11.1.3 Report from Break-Out session

Report from session on Rel-14 LTE and NR UP

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

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

### 11.1.4 Report from Break-Out session

Report from session on Rel-15 MTC

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

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

### 11.1.5 Report from Break-Out session

Report from session on Rel-15 V2X WI

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

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

## 11.2 Main session

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

## 12 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 may be submitted to this agenda item.

# 13 Any other business

# 14 Closing of the meeting (17:00)