3GPP TSG-RAN WG2 NR AH1807 Meeting R2-18xxxxx

Montreal, Canada, 2nd - 6th July 2018

Source: RAN2 Chairman (Intel)

Title: Proposed Agenda

# 1 Opening of the meeting (9 AM)

## 1.1 Call for IPR

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

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

## 1.2 Network usage conditions

The PCG has laid down the following network usage conditions

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

## 1.3 Other

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

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

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

# 2 General

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

## 2.1 Approval of the agenda

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

## 2.2 Approval of the report of the previous meeting

## 2.3 Reporting from other meetings

## 2.4 Others

Rapporteur changes

Spec former rapporteur proposed new rapporteur

Isolated impact analysis

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

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

RAN2 WG compendium

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

Drafting rules

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

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

Time Budget

The time budget endorsed at RAN#80 is available in RP-18xxxx

Offline discussion during RAN2 meeting

Chairs will allocate a number for offline discussions during the meeting. Create a folder starting with this number within inbox/drafts and use this to share any documents relating to the offline discussion (please use format "nnn ....", i.e. a 3 digit number). Also use this number in the title of any reflector emails relating to this offline discussion. (please use format "[AH1807 Offline#nnn]....."). Do not share documents over the reflector during the meeting

# 3-9 Void

# 10 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; target: Dec. 18: WID: [RP-181474](file:///C:\Data\3GPP\RAN\Docs\RP-181474.zip))

## 10.1 Organisational

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

## 10.2 Stage 2 and common UP/CP aspects

### 10.2.1 Stage 2 TSs

TS 38.300, TS 37.340 rapporteur inputs. Please submit proposed corrections to the appropriate agenda item.

### 10.2.2 Stage 2 corrections for EN-DC

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

#### 10.2.2.1 User plane

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

#### 10.2.2.2 Other

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

### 10.2.3 Stage 2 corrections for Standalone

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

### 10.2.4 NG-EN DC and NE-DC common aspects

Stage 2 aspects that are common to NG-EN-DC and NE-DC. Some aspects may also be common to NR-NR DC

### 10.2.5 NG-EN DC

Stage 2 aspects specific to NG-EN-DC

### 10.2.6 NE-DC

Stage 2 aspects specific to NE-DC

### 10.2.7 Other

Other stage 2 aspects.

RAN#80 agreed that NR-NR DC will be included in the late drop. However, aspects specific to NR-NR DC will be discussed for the first time at RAN2#103 so do not submit documents relating specifically to NR-NR DC. Aspects common to NG-EN-DC and NE-DC may be discussed under agenda item 10.2.4.

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

## 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

Rapporteur inputs, etc

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

#### 10.3.1.2 MAC general aspects

Corrections related to BWP and SUL general issues.

#### 10.3.1.3 MAC PDU format

Corrections related to MAC PDU and MAC CE formats

#### 10.3.1.4 Random access

##### 10.3.1.4.1 Differentiation of RA parameters

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

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

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

Including output of email discussion [102#70][NR UP] Reset of BFD (Nokia)

##### 10.3.1.4.3 Random access procedures

Corrections/critical issues related to general random access procedure

#### 10.3.1.5 SR

Corrections/critical issues related to SR

#### 10.3.1.6 BSR

Corrections/critical issues related to BSR

#### 10.3.1.7 LCP

Corrections/critical issues related to LCP

#### 10.3.1.8 SPS/Grant-free

Corrections/critical issues related to Configured grant and SPS

Including output of email discussion [102#71][NR UP] Semi-persistent Resource Handling (Docomo)

#### 10.3.1.9 HARQ

Corrections/critical issues related to HARQ

#### 10.3.1.10 DRX

Corrections/critical issues related to DRX

Including output of email discussion [102#72][NR UP] DRX ambiguity period (Huawei)

#### 10.3.1.11 Impact of PDCP duplication on MAC

MAC CE for activation/deactivation of PDCP duplication

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

#### 10.3.1.12 PHR

Corrections/critical corrections related to PHR

#### 10.3.1.13 Other

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

### 10.3.2 RLC

#### 10.3.2.1 TS

Rapporteur inputs, etc

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

#### 10.3.2.2 RLC header format

Corrections related to RLC header format

#### 10.3.2.3 Impact of PDCP duplication to RLC

#### 10.3.2.4 Other

### 10.3.3 PDCP

#### 10.3.3.1 TS

Rapporteur inputs, etc

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

#### 10.3.3.2PDCP PDU formats

Corrections/critical issues related to PDCP PDU formats

#### 10.3.3.3 PDCP duplication

Impacts of PDCP duplication for DRBs and SRBs

#### 10.3.3.4 Other

Corrections/critical issues related to PDCP

### 10.3.4 SDAP

#### 10.3.4.1 TS

Rapporteur inputs, etc

#### 10.3.4.2 Header Format

Corrections related of header format

#### 10.3.4.3 QoS flow remapping and handover

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

#### 10.3.4.4 Others

*Other remaining issues*

## 10.4 Stage 3 control plane

### 10.4.1 NR RRC

#### 10.4.1.1 TS

38.331 rapporteur inputs.

Including output of email discussion [102#67][NR] EN-DC requirements in 38.331 (Huawei)

###### 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

###### 10.4.1.3.1.2 Other

##### 10.4.1.3.3 Connection establishment procedure

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

##### 10.4.1.3.4 Connection reconfiguration procedure

##### 10.4.1.3.5 Connection re-establishment procedure

Including the confirmation, or otherwise, of the working assumption from RAN2#101bis on the solution for re-establishing the bearers.

##### 10.4.1.3.6 Connection resume procedure

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

##### 10.4.1.3.7 Connection release procedure

Including release from connected to inactive and connected to inactive.

##### 10.4.1.3.8 Security procedures

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

##### 10.4.1.3.9 Other

#### 10.4.1.4 RRM measurements

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

##### 10.4.1.4.1 Corrections to RRM for EN-DC (early drop)

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

##### 10.4.1.4.2 Measurement gaps for EN-DC (early drop)

Corrections related to measurement gaps for EN-DC

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

##### 10.4.1.4.4 Inter-RAT measurements

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

##### 10.4.1.4.5 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.

##### 10.4.1.4.6 Other

Other RRM related corrections

#### 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

##### 10.4.1.6.3 Stored system information

##### 10.4.1.6.4 System information modification

##### 10.4.1.6.5 System information scheduling

##### 10.4.1.6.6 On demand system information

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

##### 10.4.1.6.8 System information - other

#### 10.4.1.7 Inactive state

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

##### 10.4.1.7.1 RAN area configuration and update procedure

Corrections to RAN configuration and RAN area update (noting that the resume procedure is addressed by AI 10.4.1.3.5)

##### 10.4.1.7.2 Security framework for inactive

Inputs to Msg3 MAC-I, etc. AI to be handled after receiving response from SA3.

##### 10.4.1.7.3 Inactive - other

Corrections related to access control should be discussed under AI 10.4.1.8.3

#### 10.4.1.8 Access control

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

##### 10.4.1.8.1 Access control information

Including confirmation, or otherwise, of the working assumption from RAN2#102 on the coding of access control information for NR and LTE/5GC.

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

##### 10.4.1.8.3 Establishment causes

Establishment causes for connection request and resume request.

##### 10.4.1.8.4 Other

#### 10.4.1.9 Inter-Node RRC messages

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

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

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

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

Other RRC related corrections

### 10.4.2 LTE changes related to NR

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

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

Corrections to 36.331 related to RRM procedures for EN-DC.

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

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

#### 10.4.2.3 Inter-RAT Handover

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

Including output of email discussion [102#66][NR and LTE/5GC] Inter system handover (Ericsson)

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

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

### 10.4.3 ASN.1 review

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

#### 10.4.3.1 Rapporteur inputs

ASN.1 review documents, plus any other rapporteur inputs related to ASN.1 review. No company contributions should be submitted to this agenda item.

#### 10.4.3.2 ASN.1 issue documents

Discussion documents related to issues identified in the ASN.1 review. Issue number from the issue list is to be included in the title of all discussion documents.

### 10.4.4 UE capabilities

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

#### 10.4.4.1 TS

38.306 rapporteur inputs, etc

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

#### 10.4.4.3 UE capabilities for standalone

#### 10.4.4.4 Temporary capability restriction

Maximum 1 tdoc per company

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

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

Including any contribution related to responding to LS from SA2 in R2-1806658. Note discussion will be limited to responding to the LS and anything beyond this will be discussed as part of the Rel-16 SI on "Optimisations on UE radio capability signalling ".

### 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)

#### 10.4.5.1 TS

Rapporteur inputs.

Editorial and small corrections/clarifications should be provided to the rapporteur for inclusion in a rapporteur CR.

#### 10.4.5.2 Cell selection/reselection rules

Corrections to criteria and rules for cell selection and reselection

#### 10.4.5.3 Cell quality derivation

Corrections to derivation of cell quantity from beam measurements (including filtering)

#### 10.4.5.4 Cell selection/reselection - other aspects

Corrections to other aspects of cell selection/reselection.

#### 10.4.5.5 Idle/inactive paging

Corrections to paging

#### 10.4.5.6 Idle mobility from LTE to NR

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

# 11 Rel-15 NR Study Items

## 11.1 Study on Integrated Access and Backhaul for NR

(FS\_NR\_IAB; leading WG: RAN2; REL-15; started: Mar. 17; target: Dec. 18: SID: RP-181349)

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 [102#68][NR] IAB (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-15; started: Mar. 17; target: Jun. 18: SID RP-181339)

Including output of email discussion [102#69][NR] NR-U mobility (Qualcomm)

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

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

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

This agenda item is for submission of any contributions related to the RAN2 aspects of the self-evaluation for the IMT-2020 submission. The discussion related to these contributions will be progressed offline with the aim to endorse the outcome during a brief online session at RAN2#103/

# 12 Comebacks

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

## 12.1 Breakout sessions

### 12.1.1 Report from Break-Out session

Report from session on NR idle/inactive mobility

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

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

### 12.1.2 Report from Break-Out session

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

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

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

## 12.2 Main session

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

# 13 Outgoing LSs

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

# 14 Any other business

# 15 Closing of the meeting (17:00)