**3GPP TSG RAN3 meeting #xxx R3-23xxxx**

**xx xx - xx xx 2023, xx**

Agenda Item: x

Source: ETSI MCC

Title: Report of 3GPP TSG RAN3 meeting #119-bis-e

Online, 17 April - 26 April 2023

Document for: Approval



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## 1 Opening of the meeting

## 2 Reminders

### 2.1 IPR Declaration

The attention of the delegates to the meeting of this Technical Specification Group was 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 thereby 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 Information Statement and the Licensing declaration forms.

### 2.2 Statement of Antitrust Compliance

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters.

### 2.3 Responsible IT Behavior

Delegates were reminded of the fair network use rules established by the PCG:

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 are consume excessive bandwidth or cause significant degradation of the performance of the network.

And most importantly:

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 device supports it;

4. DON’T manually allocate an IP address;

5. DON’T stream video, play online games, or download huge files;

6. DON’T use packet probing software (e.g., packet sniffers or port scanners) which clogs the local network.

### 2.4 Additional reminders

1. All agreed CRs must be provided during the meeting week, that is, BEFORE the end of the meeting. In order to continue with the principle of “agreed unseen” CRs, please make sure that all such CRs are uploaded in time and that they contain exactly the agreed changes.

2. During physical meetings, prefer face-to-face offline discussion to e-mail discussion.

3. Come-Backs (CB), server, reflector and e-mail discussions:

When a CB is set up, e.g.:

**CB: # 1\_Name**

**- topics of the offline discussion**

(Company Owner - moderator)

Rev in R3-xxxxxx

Summary of offline disc R3-xxxxxy

1. Create a folder in “Inbox/Drafts/**1\_Name**” with the assigned CB number (**1**) and name;
2. Upload all drafts, corrections, revisions, etc. in the same folder “Inbox/Drafts/**1\_Name**”;
3. Avoid sending drafts via e-mail or on the reflector!
4. When sending e-mails, do not attach any document, and please minimize e-mail discussion (e.g. it is enough to announce start of discussion, availability of drafts on server, support for a document, discussion conclusion).
5. It is highly beneficial if the summary of offline discussion contains proposals for “official” group conclusions, e.g. “propose to agree R3-xxxxxx”, “propose to agree that….”, “no agreement”, “to be continued”, etc.

3bis. For e-meetings, the above also applies for e-mail discussions set up by the Chair before the meeting, e.g.:

**CB # 2\_E-mail\_Name**

**- open-ended topics of the e-mail discussion**

(Company Owner - moderator)

Summary of offline disc R3-xxxxxx

…etc.

4. To encourage the use of pCRs, if there are discussion papers and pCRs from the same company on the same topic, only the pCRs will be treated.

5. Papers submitted to the wrong AI will not be treated.

6. When subsections are available, please do not submit papers to the “top level” AI. If you think none of the available subsections fits your contribution, then it should go to the “Others” subsection. Any papers submitted to the “top level” AIs should not expected to be treated.

7. To save time, incoming LSs which have no action for RAN3 will not be treated unless they are flagged to the Chair before the start of the meeting.

8. QUOTAS – Each company may submit up to a certain number of contributions to the Agenda Item where this number appears. This number applies to the *sum* of the Tdocs submitted to *all* the sub-Agenda Items. If e.g. **QUOTA: 5** appears in AI 10.x, a company may submit up to 5 contributions to AI 10.x in any combination: e.g. up to 4 to 10.x.1.1 and up to 1 to 10.x.1.2, or up to 3 to 10.x.1.1 and up to 2 to 10.x.1.2, and so on. Please see also at the end of this document. Quota rules are to be maintained [R3-221096](https://www.3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_114bis-e/Inbox) (revised from [R3-200133](https://www.3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_107_e/Docs)) and continue to be the basis for working with quotas in RAN3.

Some suggestions for better RAN3 meetings can also be found [here](http://www.3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_AHGs/R3_AH_NR_1706/Docs/R3-172219.zip).

RAN3#119bis-e Tdoc submission deadline: 7am UTC of the 7th of Apr

RAN3#119bis-e meeting registration deadline: 7am UTC of the 10th of Apr

## 3 Approval of the Agenda

**R3-231100 RAN3#119bis-e Meeting Agenda**

*Type: agenda For: Approval  
 Source: RAN3 Chair*

**Decision:** The document was **approved**.

## 4 Approval of the minutes from previous meetings

**R3-231101 RAN3#119 Meeting Report**

*Type: report For: Approval  
 Source: ETSI-MCC*

**Decision:** The document was **revised to R3-231936**.

**R3-231936 RAN3#119 Meeting Report**

*Type: report For: Approval  
 Source: ETSI-MCC*

(Replaces R3-231101)

**Decision:** The document was **approved**.

## 5 Documents for immediate consideration

*Recording of GoToWebinar/GotoMeeting sessions of the present meeting is strictly prohibited. No individual or entity - including the speakers and/or the authors -may electronically record any portion of the meeting without prior written consent of the Chair and all the meeting participants. Recording of voice or video at meetings is not used in 3GPP; this applies also to e-Meeting.*

**R3-231181 Guidelines for RAN3 Electronic Meetings**

*Type: discussion For: Endorsement  
 Source: RAN3 Chair, RAN3 Vice-Chairs*

(Replaces R3-225343)

**Decision:** The document was **endorsed**.

## 6 Organizational topics

**R3-231505 Handling of LSin**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Discussion:**

Moving those available LSin from agenda item 8.1 is suggested to be done at least 1 week before the Tdocs’ submission deadline.

**Decision:** The document was **noted**.

## 7 General, protocol principles and issues

**R3-231102 TR 30.531 v1.45.0 Work Plan and Working Procedures - RAN WG3**

*Type: draft TR For: Endorsement  
 30.531 v1.45.0  
 Source: ETSI-MCC*

**Decision:** The document was **withdrawn**.

## 8 Incoming LSs

### 8.1 New Incoming LSs

**[1-symbol PRS]**

**R3-231108 LS on 1-symbol PRS**

*Type: LS in For: Discussion  
 Original outgoing LS: R1-2302201, to RAN2, RAN3, cc RAN4  
 Source: RAN1, ZTE*

**Decision:** The document was **noted**.

**R3-231835 Support 1-symbol PRS [TEI18]**

*Type: CR For: (not specified)  
 38.455 v17.4.0 CR-0102 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, CMCC, Samsung, Huawei*

**Decision:** The document was **revised to R3-231933**.

**R3-231933 Support 1-symbol PRS [1symbol\_PRS]**

*Type: CR For: Agreement  
 38.455 v17.4.0 CR-0102 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, CMCC, Samsung, Huawei*

(Replaces R3-231835)

**Discussion:**

- Update source group as R3

**Decision:** The document was **endorsed**.

**R3-231836 Support 1-symbol PRS [TEI18]**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1167 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, CMCC, Samsung, Huawei*

**Decision:** The document was **revised to R3-231934**.

**R3-231934 Support 1-symbol PRS [1symbol\_PRS]**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1167 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, CMCC, Samsung, Huawei*

(Replaces R3-231836)

**Discussion:**

- Update source group as R3

**Decision:** The document was **endorsed**.

**R3-231837 [DRAFT] reply LS for 1-symbol PRS**

*Type: LS out For: (not specified)  
 to RAN1, cc RAN2  
 Source: ZTE*

**Decision:** The document was **revised to R3-231935**.

**R3-231935 [DRAFT] reply LS for 1-symbol PRS**

*Type: LS out For: Agreement  
 to RAN1, cc RAN2  
 Source: ZTE*

(Replaces R3-231837)

**Decision:** The document was **agreed**.

**# 1\_1-symbol\_PRS**

**- Check RAN1 progress in** [**R3-231108**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231108.zip)**, and identify RAN3 impact**

**- Provide CRs and reply LS if agreeable**

**R3-231857 CB: # 1\_1-symbol\_PRS - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**[RAN UE ID]**

**R3-231121 LS on RAN UE Id optionality**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-232761, to RAN3, cc -  
 Source: SA5, Ericsson*

**Decision:** The document was **noted**.

**R3-231622 UE identifiers for management-based trace data**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231623 [DRAFT] Reply LS on RAN UE Id optionality**

*Type: LS out For: (not specified)  
 to SA5  
 Source: Ericsson*

**Decision:** The document was **revised to R3-232161**.

**R3-232161 [DRAFT] Reply LS on RAN UE Id optionality**

*Type: LS out For: Agreement  
 to SA5  
 Source: Ericsson*

(Replaces R3-231623)

**Discussion:**

Nokia: RAN UE ID does not link to MDT

ZTE: Simple version is preferred

Huawei: Do not need to mention IMEI

Ericsson: Add the question to clarify what SA5 really wants to ask

**Decision:** The document was **noted**.

**R3-231632 Discussion on LS on RAN UE Id optionality**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231633 [Draft] Reply LS on RAN UE Id optionality**

*Type: LS out For: (not specified)  
 to SA5  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231698 Discussion on RAN UE ID for management-based TRACE and MDT**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231699 RAN UE ID for management-based TRACE and MDT - XnAP**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231700 RAN UE ID for management-based TRACE and MDT - X2AP**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231701 draft reply Discussion on RAN UE ID for management-based TRACE and MDT**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231723 Discussion on trace in CU-DU split and dual connectivity**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231724 [DRAFT] Reply LS on RAN UE Id optionality**

*Type: LS out For: (not specified)  
 to SA5  
 Source: Huawei*

**Decision:** The document was **noted**.

**# 2\_RANUEID\_SA5**

**- Using the Cell Traffic Trace mechanism in Rel-16 or enhancing RAN UE ID mechanism?**

**- Capture agreements and provide reply LS to SA5**

**R3-231858 CB: # 2\_RANUEID\_SA5 - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**R3-232162 [DRAFT] Reply LS on RAN UE Id optionality**

*Type: LS out For: Agreement  
 to SA5  
 Source: Ericsson*

**Decision:** The document was **noted**.

**[CC]**

**R3-231104 LS on Network Triggered Service Request for a UE in Suspend State**

*Type: LS in For: Discussion  
 Original outgoing LS: C4-230664, to SA2, cc RAN3  
 Source: CT4, Ericsson*

**Decision:** The document was **noted**.

**R3-231109 Reply LS on PDU Set Handling**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302010, to SA2, cc SA4, RAN3  
 Source: RAN2, Chinamobile*

**Decision:** The document was **noted**.

**R3-231251 Discussion on LS reply from RAN2 on MRB PDCP topics**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

**R3-231292 Reply LS on the use of PEI during an Emergency PDU session**

*Type: LS out For: (not specified)  
 to RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**R3-231365 Discussion on INACTIVE eDRX above 10.24sec and SDT**

*Type: discussion For: Agreement  
 Source: ZTE*

**Decision:** The document was **withdrawn**.

### 8.2 LSin received during the meeting

**R3-232105 Reply LS on buffer level threshold-based RVQoE reporting**

*Type: LS in For: discussion  
 Original outgoing LS: S4-230684, to -, cc -  
 Source: SA4*

**Decision:** The document was **noted**.

**R3-232106 Reply LS on 3GPP work on Energy Efficiency**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: CT1*

**Decision:** The document was **noted**.

**R3-232107 Reply LS on Tracking IANA assignment requests**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: CT4*

**Decision:** The document was **noted**.

### 8.3 Left over LSs / pending actions

**[RAN Exposure for XRM]**

**R3-231498 Discussion on the RAN information exposure for XRM**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231499 CR on support UP based QoS notification control for XR**

*Type: CR For: (not specified)  
 38.415 v17.0.0 CR-0035 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231500 CR on support UP based QoS notification control for XR**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0974 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231501 [draft] Reply LS on RAN information exposure for XRM**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231550 Discussion on SA2 LS on RAN information exposure for XRM**

*Type: discussion For: (not specified)  
 Source: Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231551 Reply LS on RAN information exposure for XRM**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231560 Discussion on RAN information exposure for XRM**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231561 Reply LS on RAN information exposure for XRM**

*Type: LS out For: Approval  
 to RAN2  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231802 Discussion on exposing NG-RAN information**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231803 Draft reply LS on RAN information exposure for XRM**

*Type: LS out For: Approval  
 to SA2, cc RAN2  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231851 Discussion on RAN information exposure for XRM**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231852 [DRAFT] Reply LS on RAN information exposure for XRM**

*Type: LS out For: Agreement  
 to SA2, cc RAN1, RAN2  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231853 TP to TS 38.413 for RAN information exposure for XRM**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231854 TP to TS 38.415 for RAN information exposure for XRM**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231452 Discussion on RAN information exposure for XRM**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**# 3\_RANexposure\_XRM**

**- Whether to support UP based QoS Notification Control?**

**- Whether to support data rate information on a per QoS Flow exposure from RAN?**

**- Capture agreements and provide LS to SA2**

**R3-231859 CB: # 3\_RANexposure\_XRM - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Lenovo - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**R3-232129 Reply LS on RAN information exposure for XRM**

*Type: LS out For: Agreement  
 to SA2  
 Source: Ericsson (to be RAN3)*

**Discussion:**

* NRAN3 discussed the UP based QoS Notification Control and reached no consensus on the benefits of this feature. This feature may be feasible but RAN3 has not analyzed the details.
* RAN3 kindly ask SA2 to take the above into account and to provide feedback and clarify the benefits of UP based QoS Notification Control to RAN3, if needed.

**Decision:** The document was **revised to R3-232169**.

**R3-232169 Reply LS on RAN information exposure for XRM**

*Type: LS out For: Agreement  
 to SA2  
 Source: Ericsson (to be RAN3)*

(Replaces R3-232129)

**Decision:** The document was **agreed**.

**R3-231760 Discussion on NR support for UAV**

*Type: other For: (not specified)  
 Source: Huawei*

**Discussion:**

Nokia: Can we have an offline for this?

Qualcomm: What's the difference of those new indications?

ZTE: RAN3 has no TU for UAV in this meeting, need more time to check.

Samsung: Whether the exiting IE is enough

**Decision:** The document was **noted**.

**R3-231761 [draft] Reply LS on RAN dependency for UAS**

*Type: LS out For: (not specified)  
 to SA2,RAN2  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231496 Correction on IP address mapping for IAB topology update**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1019 Cat: F (Rel-17)  
  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**R3-231497 [draft] Reply LS on F1-C IP addresses mapping during IAB topology update**

*Type: LS out For: Approval  
 to SA3, RAN2  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

## 9 Corrections to Rel-17 or earlier releases

### 9.1 LTE

**R3-231220 Correction for SubcarrierSpacingSSB**

*Type: CR For: (not specified)  
 36.413 v17.4.0 CR-1909 rev 2 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm, Huawei*

(Replaces R3-230792)

**Decision:** The document was **revised to R3-232030**.

**R3-232030 Correction for SubcarrierSpacingSSB [NR\_ext\_to\_71GHz-Core]**

*Type: CR For: Agreement  
 36.413 v17.4.0 CR-1909 rev 3 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm, Huawei*

(Replaces R3-231220)

**Discussion:**

Huawei: This issue has not been covered in Rel-17 Ran1 WI

- Check the track, NR or LTE or both?

- Cat.B, TEI17, check unique TEI identifier [WI code] among WGs

- Link the relationship to the completed WI in the coversheet

**# 47\_SubcarrierSpacingSSB**

**- Check the approved WI objectives and specs**

**- Check technical details**

**Decision:** The document was **endorsed**.

**R3-231909 CB: # 47\_SubcarrierSpacing SSB**

*Type: discussion For: discussion  
 Source: Nokia*

**Decision:** The document was **noted**.

### 9.2 NR

#### 9.2.1 SONMDT

**R3-231267 Correction on Mobility Change procedure**

*Type: CR For: (not specified)  
 38.423 v16.13.0 CR-1011 Cat: F (Rel-16)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm, ZTE, Orange, Vodafone*

**Decision:** The document was **revised to R3-232058**.

**R3-232058 Correction on Mobility Change procedure**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1011 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm, ZTE, Orange, Vodafone*

(Replaces R3-231267)

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **endorsed**.

**R3-231268 Correction on Mobility Change procedure**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1012 Cat: A (Rel-17)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm, ZTE, Orange, Vodafone*

**Decision:** The document was **revised to R3-232059**.

**R3-232059 Correction on Mobility Change procedure**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1012 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm, ZTE, Orange, Vodafone*

(Replaces R3-231268)

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **endorsed**.

**R3-231546 Correction on RACH Report IE**

*Type: CR For: (not specified)  
 38.423 v16.13.0 CR-1022 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231547 Correction on RACH Report IE**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1023 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231548 Correction on RACH Report IE**

*Type: CR For: (not specified)  
 38.473 v16.13.0 CR-1154 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231549 Correction on RACH Report IE**

*Type: CR For: (not specified)  
 38.473 v17.4.0 CR-1155 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231685 Correction on RESOURCE STATUS FAILURE message over E1 in Rel-16**

*Type: CR For: Approval  
 38.463 v16.13.0 CR-0717 Cat: F (Rel-16)  
  
 Source: ZTE, China Telecom, CMCC, Lenovo, China Unicom*

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-231972**.

**R3-231972 Correction on RESOURCE STATUS FAILURE message over E1 in Rel-16**

*Type: CR For: Approval  
 38.463 v16.13.0 CR-0717 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, China Telecom, CMCC, Lenovo, China Unicom*

(Replaces R3-231685)

**Decision:** The document was **endorsed**.

**R3-231686 Correction on RESOURCE STATUS FAILURE message over E1 in Rel-17**

*Type: CR For: Approval  
 37.483 v17.4.0 CR-0061 Cat: A (Rel-17)  
  
 Source: ZTE, China Telecom, CMCC, Lenovo, China Unicom*

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-231973**.

**R3-231973 Correction on RESOURCE STATUS FAILURE message over E1 in Rel-17**

*Type: CR For: Approval  
 37.483 v17.4.0 CR-0061 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE, China Telecom, CMCC, Lenovo, China Unicom*

(Replaces R3-231686)

**Decision:** The document was **endorsed**.

**R3-231687 Correction on Event-based Reporting for Inter-system Resource Status Request**

*Type: CR For: Approval  
 38.413 v17.4.0 CR-0979 Cat: F (Rel-17)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, CMCC, Lenovo*

**Decision:** The document was **revised to R3-231974**.

**R3-231974 Correction on Event-based Reporting for Inter-system Resource Status Request**

*Type: CR For: Approval  
 38.413 v17.4.0 CR-0979 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, CMCC, Lenovo*

(Replaces R3-231687)

**Decision:** The document was **endorsed**.

**R3-231725 Correction on Trace Activation IE**

*Type: CR For: (not specified)  
 38.423 v16.13.0 CR-1032 Cat: F (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, Orange, CMCC*

**Decision:** The document was **revised to R3-232095**.

**R3-232095 Correction on Trace Activation IE**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1032 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, Orange, CMCC*

(Replaces R3-231725)

**Decision:** The document was **endorsed**.

**R3-231726 Correction on Trace Activation IE**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1033 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Orange, CMCC*

**Decision:** The document was **revised to R3-232096**.

**R3-232096 Correction on Trace Activation IE**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1033 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Orange, CMCC*

(Replaces R3-231726)

**Decision:** The document was **endorsed**.

**R3-231727 Discussion on the presence of area scope in MDT configuration**

*Type: discussion For: (not specified)  
 Source: Huawei, CMCC, China Unicom*

**Decision:** The document was **noted**.

**R3-231728 Correction on the Area Scope IE in MDT Configuration**

*Type: CR For: (not specified)  
 38.423 v16.13.0 CR-1034 Cat: F (Rel-16)  
  
 Source: Huawei, CMCC, China Unicom*

**Decision:** The document was **revised to R3-232097**.

**R3-232097 Correction on the Area Scope IE in MDT Configuration**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1034 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, CMCC, China Unicom*

(Replaces R3-231728)

**Decision:** The document was **endorsed**.

**R3-231729 Correction on the Area Scope IE in MDT Configuration**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1035 Cat: A (Rel-17)  
  
 Source: Huawei, CMCC, China Unicom*

**Decision:** The document was **revised to R3-232098**.

**R3-232098 Correction on the Area Scope IE in MDT Configuration**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1035 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, CMCC, China Unicom*

(Replaces R3-231729)

**Decision:** The document was **endorsed**.

**R3-231190 Alignment of the tabular and ASN.1 definitions for the Resource Status Update**

*Type: CR For: Agreement  
 38.463 v16.13.0 CR-0711 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE, Samsung*

**Abstract:**

NBC(non-backwards compatible) CR

**Discussion:**

Move to 9.2.1

NBC(non-backwards compatible) CR

**Decision:** The document was **endorsed**.

**R3-231191 Alignment of the tabular and ASN.1 definitions for the Resource Status Update**

*Type: CR For: Agreement  
 37.483 v17.4.0 CR-0055 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE, Samsung*

**Abstract:**

NBC(non-backwards compatible) CR

**Discussion:**

Move to 9.2.1

NBC(non-backwards compatible) CR

**Decision:** The document was **endorsed**.

**R3-231611 F1AP Rel-17 correction for NR-U metrics**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1158 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Incorporated, Samsung, Nokia, Nokia Shanghai Bell*

**Discussion:**

Move to 9.2.1

**Decision:** The document was **revised to R3-232055**.

**R3-232055 F1AP Rel-17 correction for NR-U metrics**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1158 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Incorporated, Samsung, Nokia, Nokia Shanghai Bell*

(Replaces R3-231611)

**Decision:** The document was **endorsed**.

**R3-231612 XnAP Rel-17 correction for NR-U metrics**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1026 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Incorporated, Samsung, Nokia, Nokia Shanghai Bell*

**Discussion:**

Move to 9.2.1

**Decision:** The document was **revised to R3-232056**.

**R3-232056 XnAP Rel-17 correction for NR-U metrics**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1026 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Incorporated, Samsung, Nokia, Nokia Shanghai Bell*

(Replaces R3-231612)

**Decision:** The document was **endorsed**.

**R3-231730 [draft] LS on the presence of area scope**

*Type: LS out For: (not specified)  
 to SA5  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**# 4\_R17SONMDT**

**- Check the corrections proposed**

**- Approve the CRs if agreeable**

**R3-231861 CB: # 4\_R17SONMDT- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

#### 9.2.2 MBS

**R3-231114 Reply LS on potential de-synchronisation of a multicast MRB’s PDCP HFN and SN**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302092, to RAN3, cc -  
 Source: RAN2, Nokia*

**Decision:** The document was **noted**.

**R3-231392 Delay issue on initialization of initialRX-DELIV**

*Type: discussion For: Agreement  
 Source: Huawei, CBN, China Unicom, Samsung, Lenovo*

**Decision:** The document was **noted**.

**R3-231393 Correction on the delay issue on initialization of initialRX-DELIV**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0969 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, China Unicom, Samsung, Lenovo*

**Decision:** The document was **noted**.

**R3-231394 [DRAFT] LS on the delay issue on initialization of initialRX-DELIV**

*Type: LS out For: Agreement  
 to SA2, CT4, cc RAN2  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231401 Correction of MBS multicast HFN SN Initialisation**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, CATT, Orange, Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231402 Correction of MBS multicast HFN SN Initialisation**

*Type: CR For: (not specified)  
 38.401 v17.4.0 CR-0288 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Orange, Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231403 LS on Multicast HFN/SN Initialization for Inactive Multicast Sessions**

*Type: LS out For: (not specified)  
 to CT4  
 Source: Nokia, Nokia Shanghai Bell, orange, qualcomm, CATT*

**Decision:** The document was **noted**.

**R3-231404 Resolution of MRB PDCP Wrap Around issue**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231461 Discussion on MRB PDCP count “wrap around” problem**

*Type: discussion For: Agreement  
 Source: CATT,CBN*

(Replaces R3-230243)

**Decision:** The document was **noted**.

**R3-231462 Correction on MRB PDCP count “wrap around” problem**

*Type: CR For: Decision  
 37.483 v17.4.0 CR-0044 rev 3 Cat: F (Rel-17)  
  
 Source: CATT, CBN*

(Replaces R3-230244)

**Decision:** The document was **noted**.

**R3-231293 Correction of MBS session at Xn handover**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Orange, CATT, ZTE*

**Decision:** The document was **noted**.

**R3-231294 Correction of MBS session at Xn handover**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0966 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Orange, CATT, ZTE*

**Decision:** The document was **noted**.

**R3-231295 Correction of MBS session at Xn handover**

*Type: draftCR For: (not specified)  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Orange, CATT, ZTE*

**Decision:** The document was **noted**.

**R3-231296 LS on MBS session information at Xn handover**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Orange, CATT, ZTE*

**Decision:** The document was **noted**.

**R3-231389 Correction on NG-U tunnel aspect for MBS session**

*Type: CR For: Agreement  
 37.483 v17.4.0 CR-0058 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Lenovo, ZTE, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **endorsed**.

**R3-231390 Correction on Multicast session establishment**

*Type: CR For: Agreement  
 38.401 v17.4.0 CR-0287 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Lenovo, ZTE, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232000**.

**R3-232000 Correction on Multicast session establishment**

*Type: CR For: Agreement  
 38.401 v17.4.0 CR-0287 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Lenovo, ZTE, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-231390)

**Decision:** The document was **endorsed**.

**R3-231391 Correction on Broadcast Partial Success**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1147 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-231965**.

**R3-231965 Correction on Broadcast Partial Success**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1147 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, ZTE, Nokia, Nokia Shanghai Bell, Google, LG Electronics, CATT, Lenovo, Ericsson*

(Replaces R3-231391)

**Decision:** The document was **endorsed**.

**R3-231806 Correction on NR MBS multicast information**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1043 Cat: F (Rel-17)  
  
 Source: CMCC, Huawei, ZTE*

**Decision:** The document was **noted**.

**R3-231833 Clarifiication on RNTI assignment for MBS**

*Type: CR For: (not specified)  
 38.401 v17.4.0 CR-0291 Cat: F (Rel-17)  
  
 Source: Google Inc.*

**Decision:** The document was **noted**.

**R3-231834 Transfer of MBSInterestIndication from CU to DU**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1166 Cat: F (Rel-17)  
  
 Source: Google Inc.*

**Decision:** The document was **revised to R3-231966**.

**R3-231966 Transfer of MBSInterestIndication from CU to DU**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1166 rev 1 Cat: F (Rel-17)  
  
 Source: Google Inc.*

(Replaces R3-231834)

**Decision:** The document was **endorsed**.

**R3-231502 Correction on multicast session distribution setup procedure in TS 38.413**

*Type: CR For: Approval  
 38.413 v17.4.0 CR-0975 Cat: F (Rel-17)  
  
 Source: ZTE*

**Discussion:**

Move to 9.2.2

**Decision:** The document was **noted**.

**# 5\_R17MBS**

**- Check the reply from RAN2 in** [**R3-231114**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231114.zip)

**- Left issues on PDCP of MRB, e.g., PDCP Wrap Around, and Delay issue on initialization of initialRX-DELIV**

**- Area configuration (location dependent and local multicast session) and correction to path switch request acknowledgement**

**- Corrections to NG-U tunnel for multicast session**

**- Misc issues including, Broadcast Partial Success, corrections to ANS.1, RNTI assignment, and MII from CU to DU**

**R3-231862 CB: # 5\_R17MBS- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

**Abstract:**

Summary of offline discussion

**Discussion:**

**RAN3’s common understanding is that protocol means specified in Rel-17 cannot always avoid MRB PDCP wrap around while keeping MBS session context established in NG-RAN during a configured multicast MBS session in some valid deployment scenarios and solutions should be investigated in R18.**

**Release 17: How to support initialization of RxDELIV for MRB PDCP**

**Release 17: how mtch-neighbourCell which is a bitstring relating to content of MBS-NeighbourCellList would be set in a realistic implementation and how the DU should deal with such information received via 2 different kinds of elementary procedures (F1 interface management versus Broadcast Context management) and investigate if any CR needed.**

**Release 18: investigate solutions to solve with MRB PDCP wrap around issue and whether a specified network solution is necessary.**

**Decision:** The document was **noted**.

**R3-231860 Response to R3-231392 and R3-231401 on delay of PDCP initialization**

*Type: response For: Discussion  
 Source: ZTE*

**Decision:** The document was **withdrawn**.

**R3-231891 Response to R3-231461 and R3-231404 on PDCP COUNT wrap-around**

*Type: response For: Discussion  
 Source: ZTE*

**Decision:** The document was **withdrawn**.

#### 9.2.3 SCG and CPAC

#### 9.2.4 Others

**[R17 IAB]**

**R3-231105 Reply LS on RB set configuration**

*Type: LS in For: Discussion  
 Original outgoing LS: R1-2302130, to RAN3, cc -  
 Source: RAN1, ZTE*

**Decision:** The document was **noted**.

**R3-231360 Correction to TS 38.423 on RB Set Configuration**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1014 Cat: F (Rel-17)  
  
 Source: ZTE, Lenovo, Qualcomm, Nokia, Nokia Shanghai Bell, CATT*

**Discussion:**

- Correct R3-2xxxx

**Decision:** The document was **revised to R3-232167**.

**R3-232167 Correction to TS 38.423 on RB Set Configuration**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1014 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, Lenovo, Qualcomm, Nokia, Nokia Shanghai Bell, CATT*

(Replaces R3-231360)

**Decision:** The document was **endorsed**.

**R3-231361 Correction to TS 38.473 on RB Set Configuration**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1145 Cat: F (Rel-17)  
  
 Source: ZTE, Lenovo, Qualcomm, Nokia, Nokia Shanghai Bell, CATT*

**Discussion:**

- Use italic style for IE description

- Correct R3-2xxxxxx

**Decision:** The document was **revised to R3-232168**.

**R3-232168 Correction to TS 38.473 on RB Set Configuration**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1145 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, Lenovo, Qualcomm, Nokia, Nokia Shanghai Bell, CATT*

(Replaces R3-231361)

**Decision:** The document was **endorsed**.

**R3-231855 (CR TS 38.423) Correction of RB Set Configuration**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1047 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231311 Discussion on SA3 LS related to dynamic PSK for IAB inter-CU topology adaptation**

*Type: discussion For: Discussion  
 Source: Qualcomm Inc.*

**Decision:** The document was **noted**.

**R3-231495 Discussion on the F1-C IP addresses mapping issue from SA3 LS R3-230872**

*Type: discussion For: Discussion  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231787 Discussion on SA3 LS on Mapping of F1-C IP addresses**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231788 [draft] Reply LS on Mapping of F1-C IP addresses**

*Type: LS out For: (not specified)  
 to SA3  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231481 Correction on IAB bar configuration**

*Type: CR For: Approval  
 38.473 v17.4.1 CR-1152 Cat: A (Rel-17)  
  
 Source: Huawei, Qualcomm, Xiaomi*

**Decision:** The document was **noted**.

**R3-231856 Correction on IAB bar configuration**

*Type: CR For: Approval  
 38.473 v16.13.0 CR-1151 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Qualcomm, Xiaomi*

(Replaces R3-231480)

**Decision:** The document was **noted**.

**# 6\_R17IAB**

**- Check reply LS from RAN1 in** [**R3-231105**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231105.zip) **and the corresponding corrections proposed in RAN3**

**- SA3 LS related: The source/initial IAB-donor can obtain the new IP address(es) for F1-C from the target/new IAB donor via XnAP, i.e. XnAP HANDOVER REQUEST ACKNOWLEDGE, UE CONTEXT RELEASE messages?**

**Update the IAB Barred IE’s configuration granularity from per cell to per PLMN/NPN in F1 interface?**

**R3-231863 CB: # 6\_R17IAB- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**R3-232117 Reply LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures**

*Type: LS out For: Agreement  
 to SA3, cc RAN2  
 Source: RAN3(ZTE)*

**Discussion:**

- RAN3 has discussed the issue and cannot reach agreement on whether to accommodate SA3’s request.

**Decision:** The document was **revised to R3-232166**.

**R3-232166 Reply LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures**

*Type: LS out For: Agreement  
 to SA3, cc RAN2  
 Source: RAN3(ZTE)*

(Replaces R3-232117)

**Decision:** The document was **agreed**.

Ericsson: Short the file name

Qualcomm, Nokia: IP addresses need to be exchanged between IAB nodes which is missing in R17, RAN3 decides not to support this in R17. This is a new feature requirement which is not proper to be discussed at the end of release.

Samsung: Fine with current wording

**To be continued: whether there is any issue regarding the IAB Barred IE configured by donor CU.**

**R3-231117 LS on the use of PEI during an emergency PDU session**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302302, to SA2, RAN3, cc CT1  
 Source: RAN2, Ericsson*

**Decision:** The document was **noted**.

**R3-231291 Use of PEI during an Emergency PDU session**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231646 Discussion on the use of PEI during an emergency PDU session**

*Type: discussion For: Discussion  
 Source: Ericsson, Deutsche Telekom, AT&T, Verizon Wireless*

**Decision:** The document was **noted**.

**R3-231647 Disabling UE-ID based PEI during emergency PDU session**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0978 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom, AT&T, Verizon Wireless*

**Decision:** The document was **noted**.

**R3-231648 Disabling UE-ID based PEI during emergency PDU session**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1029 Cat: F (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom, Verizon Wireless*

**Decision:** The document was **noted**.

**R3-231649 Reply LS on the use of PEI during an emergency PDU session**

*Type: LS out For: Agreement  
 to RAN2, SA2, CT1  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231712 Discussion on the use of PEI during an emergency PDU session**

*Type: discussion For: (not specified)  
 Source: Huawei, China Unicom, China Telecom*

**Decision:** The document was **noted**.

**R3-231713 [Draft] Reply LS on the use of PEI during an emergency PDU session**

*Type: LS out For: (not specified)  
 to RAN2, SA2, cc CT1  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231714 Disabling PEI during an emergency PDU session**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0981 Cat: F (Rel-17)  
  
 Source: Huawei, China Unicom, China Telecom*

**Decision:** The document was **noted**.

**R3-231715 Disabling PEI during an emergency PDU session**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1031 Cat: F (Rel-17)  
  
 Source: Huawei, China Unicom, China Telecom*

**Decision:** The document was **noted**.

**# 7\_PEI**

**- Check RAN2 reply in** [**R3-231117**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231117.zip)**, no impact on RAN3 or introducing an indication to disable the PEI during the emergency PDU session?**

**- Provide reply LS to RAN2, SA2?**

**R3-231864 CB: # 7\_PEI- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

There is no consensus on RAN3 final impacts.

It is proposed to note all documents and postpone the topic to next meeting, to be discussed in AI 8.3, taking RAN2 and SA2 progress, if any, into account.

**To be continued...**

**R3-231124 Reply LS on introduction of a new attribute “Only Resource Coordination” to support source coordination between LTE and NR SA**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-233142, to RAN3, cc -  
 Source: SA5, China telecom*

**Decision:** The document was **noted**.

**R3-231579 [DRAFT] Reply LS on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA**

*Type: LS out For: Approval  
 to SA5  
 Source: China Telecom,Huawei*

**Decision:** The document was **revised to R3-232051**.

**R3-232051 [DRAFT] Reply LS on introduction of a new attribute "Only Resource Coordination" to support source coordination between LTE and NR SA**

*Type: LS out For: Approval  
 to SA5  
 Source: China Telecom*

(Replaces R3-231579)

**Decision:** The document was **agreed**.

**R3-231580 Clarification of Use Case and the Effect of the new Attribute “Only Resource Coordination”**

*Type: discussion For: (not specified)  
 Source: China Telecom,Huawei*

**Decision:** The document was **noted**.

**R3-231601 Discussion on new attribute “Only Resource Coordination**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231702 Reply LS on introduction of a new attribute to support source coordination between LTE and NR SA**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**# 8\_NewAttribute**

**- Clarify the use case and usage of this "Only Resource Coordination" attribute**

**- Provide reply LS to SA5**

**R3-231865 CB: # 8\_NewAttribute- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: China Telecom - moderator*

**Abstract:**

[NWM] Summary of offline discussion

**Decision:** The document was **noted**.

**R3-231221 Corrections on TNL association addition, update and removal (E1)**

*Type: CR For: (not specified)  
 38.462 v16.1.0 CR-0020 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Huawei, Samsung*

**Decision:** The document was **endorsed**.

**R3-231222 Corrections on TNL association addition, update and removal (E1)**

*Type: CR For: (not specified)  
 37.482 v17.2.0 CR-0003 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Huawei, Samsung*

**Decision:** The document was **endorsed**.

**R3-231223 Corrections on TNL association addition, update and removal (E1)**

*Type: CR For: (not specified)  
 38.463 v16.13.0 CR-0712 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Huawei, Samsung*

**Decision:** The document was **endorsed**.

**R3-231224 Corrections on TNL association addition, update and removal (E1)**

*Type: CR For: (not specified)  
 37.483 v17.4.0 CR-0056 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Huawei, Samsung*

**Decision:** The document was **endorsed**.

**R3-231244 Clarifications on TNLA Addition/Removal/Modification procedures**

*Type: discussion For: (not specified)  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Decision:** The document was **noted**.

**R3-231231 Corrections on TNL association addition, update and removal**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0939 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-230464)

**Decision:** The document was **revised to R3-232033**.

**R3-232033 Corrections on TNL association addition, update and removal**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0939 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231231)

**Decision:** The document was **endorsed**.

**R3-231232 Corrections on TNL association addition, update and removal**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0940 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-230465)

**Decision:** The document was **revised to R3-232034**.

**R3-232034 Corrections on TNL association addition, update and removal**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0940 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231232)

**Decision:** The document was **endorsed**.

**R3-231240 Corrections on TNL association addition, update and removal**

*Type: CR For: (not specified)  
 38.412 v16.1.0 CR-0020 Cat: F (Rel-16)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Decision:** The document was **revised to R3-232031**.

**R3-232031 Corrections on TNL association addition, update and removal**

*Type: CR For: Agreement  
 38.412 v16.1.0 CR-0020 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231240)

**Decision:** The document was **endorsed**.

**R3-231241 Corrections on TNL association addition, update and removal**

*Type: CR For: (not specified)  
 38.412 v17.0.0 CR-0021 Cat: A (Rel-17)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Decision:** The document was **revised to R3-232032**.

**R3-232032 Corrections on TNL association addition, update and removal**

*Type: CR For: Agreement  
 38.412 v17.0.0 CR-0021 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231241)

**Decision:** The document was **endorsed**.

**R3-231331 Corrections on TNL association addition and removal (X2AP)**

*Type: CR For: Agreement  
 36.423 v16.10.1 CR-1739 Cat: F (Rel-16)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

**Decision:** The document was **revised to R3-232042**.

**R3-232042 Corrections on TNL association addition and removal (X2AP)**

*Type: CR For: Agreement  
 36.423 v16.10.1 CR-1739 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-231331)

**Decision:** The document was **endorsed**.

**R3-231332 Corrections on TNL association addition and removal (X2AP)**

*Type: CR For: Agreement  
 36.423 v17.4.0 CR-1740 Cat: A (Rel-17)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

**Decision:** The document was **revised to R3-232043**.

**R3-232043 Corrections on TNL association addition and removal (X2AP)**

*Type: CR For: Agreement  
 36.423 v17.4.0 CR-1740 rev 1 Cat: A (Rel-17)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-231332)

**Decision:** The document was **endorsed**.

**R3-231333 Corrections on TNL association (X2)**

*Type: CR For: Agreement  
 36.422 v16.1.0 CR-0038 Cat: F (Rel-16)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

**Decision:** The document was **revised to R3-232044**.

**R3-232044 Corrections on TNL association (X2)**

*Type: CR For: Agreement  
 36.422 v16.1.0 CR-0038 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-231333)

**Decision:** The document was **endorsed**.

**R3-231334 Corrections on TNL association (X2)**

*Type: CR For: Agreement  
 36.422 v17.0.0 CR-0039 Cat: A (Rel-17)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

**Decision:** The document was **revised to R3-232045**.

**R3-232045 Corrections on TNL association (X2)**

*Type: CR For: Agreement  
 36.422 v17.0.0 CR-0039 rev 1 Cat: A (Rel-17)  
  
 Source: Samsung, Ericsson, ZTE, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-231334)

**Decision:** The document was **endorsed**.

**R3-231351 Corrections on TNL association addition, update and removal (F1AP)**

*Type: CR For: Agreement  
 38.473 v16.13.0 CR-1143 Cat: F (Rel-16)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Decision:** The document was **revised to R3-232006**.

**R3-232006 Corrections on TNL association addition, update and removal (F1AP)**

*Type: CR For: Agreement  
 38.473 v16.13.0 CR-1143 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231351)

**Decision:** The document was **endorsed**.

**R3-231352 Corrections on TNL association addition, update and removal (F1AP)**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1144 Cat: A (Rel-17)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Decision:** The document was **revised to R3-232007**.

**R3-232007 Corrections on TNL association addition, update and removal (F1AP)**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1144 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231352)

**Decision:** The document was **endorsed**.

**R3-231353 Corrections on TNL association addition, update and removal (F1)**

*Type: CR For: Agreement  
 38.472 v16.1.0 CR-0026 Cat: F (Rel-16)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Discussion:**

R3-232008 is canceled

**Decision:** The document was **endorsed**.

**R3-232008 Corrections on TNL association addition, update and removal (F1)**

*Type: CR For: Agreement  
 38.472 v16.1.0 CR-0026 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231353)

**Decision:** The document was **withdrawn**.

**R3-231354 Corrections on TNL association addition, update and removal (F1)**

*Type: CR For: Agreement  
 38.472 v17.1.0 CR-0027 Cat: A (Rel-17)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

**Discussion:**

R3-232009 is canceled

**Decision:** The document was **endorsed**.

**R3-232009 Corrections on TNL association addition, update and removal (F1)**

*Type: CR For: Agreement  
 38.472 v17.1.0 CR-0027 rev 1 Cat: A (Rel-17)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, Samsung*

(Replaces R3-231354)

**Decision:** The document was **withdrawn**.

**R3-231490 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.423 v16.13.0 CR-1016 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

**Decision:** The document was **revised to R3-231990**.

**R3-231990 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.423 v16.13.0 CR-1016 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces R3-231490)

**Decision:** The document was **endorsed**.

**R3-231491 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1017 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

**Decision:** The document was **revised to R3-231991**.

**R3-231991 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1017 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces R3-231491)

**Decision:** The document was **endorsed**.

**R3-231492 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.422 v16.0.0 CR-0015 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

**Decision:** The document was **revised to R3-231992**.

**R3-231992 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.422 v16.0.0 CR-0015 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces R3-231492)

**Decision:** The document was **endorsed**.

**R3-231493 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.422 v17.0.0 CR-0016 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

**Decision:** The document was **revised to R3-231993**.

**R3-231993 Clarifications on TNLA Addition/Removal/Modification procedures (XnAP)**

*Type: CR For: Approval  
 38.422 v17.0.0 CR-0016 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces R3-231493)

**Decision:** The document was **endorsed**.

**# 9\_TNLAssociation**

**- Check the corrections on TNLA Addition/Removal/Modification among specs**

**- Approve the CRs if agreeable, split the work**

**R3-231866 CB: # 9\_TNLAssociation- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**R3-231362 Introduction of the UE hashed ID to 38.423**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1015 Cat: F (Rel-17)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom*

**Decision:** The document was **revised to R3-232012**.

**R3-232012 Introduction of the UE hashed ID to 38.423**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1015 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, CATT, Huawei, Ericsson, Qualcomm*

(Replaces R3-231362)

**Decision:** The document was **endorsed**.

**R3-231363 Introduction of the UE hashed ID to 38.473**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1146 Cat: F (Rel-17)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom*

**Decision:** The document was **revised to R3-232013**.

**R3-232013 Introduction of the UE hashed ID to 38.473**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1146 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, CATT, Huawei, Ericsson, Qualcomm*

(Replaces R3-231363)

**Decision:** The document was **endorsed**.

**R3-231564 Issues on calculating eDRX PTW position for RRC\_INACTIVE Ues**

*Type: discussion For: Decision  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231565 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0976 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232014**.

**R3-232014 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0976 rev 1 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-231565)

**Decision:** The document was **revised to R3-232130**.

**R3-232130 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0976 rev 2 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-232014)

**Decision:** The document was **endorsed**.

**R3-231566 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1024 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231567 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1156 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231568 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0977 Cat: F (Rel-16)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232015**.

**R3-232015 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0977 rev 1 Cat: F (Rel-16)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-231568)

**Decision:** The document was **revised to R3-232131**.

**R3-232131 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0977 rev 2 Cat: F (Rel-16)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-232015)

**Decision:** The document was **endorsed**.

**R3-231569 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1025 Cat: F (Rel-16)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232016**.

**R3-232016 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1025 rev 1 Cat: F (Rel-16)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-231569)

**Decision:** The document was **revised to R3-232132**.

**R3-232132 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1025 rev 2 Cat: F (Rel-16)  
  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-232016)

**Decision:** The document was **endorsed**.

**R3-231570 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX (stage 2)**

*Type: draftCR For: Agreement  
 38.300 v17.4.0  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232017**.

**R3-232017 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX (stage 2)**

*Type: draftCR For: Agreement  
 38.300 v17.4.0  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-231570)

**Decision:** The document was **revised to R3-232133**.

**R3-232133 Introduction of Hashed UE Identity Index Value for RRC\_INATIVE with eDRX (stage 2)**

*Type: draftCR For: Agreement  
 38.300 v17.4.0  
 Source: CATT, Huawei, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, ZTE, China Telecom*

(Replaces R3-232017)

**Decision:** The document was **endorsed**.

**# 10\_HashedUEID**

**- Identify the issues and the solution**

**- Approve the CRs if agreeable, split the work**

**R3-231867 CB: # 10\_HashedUEID- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: CATT - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232134**.

**R3-232134 CB: # 10\_HashedUEID- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: CATT - moderator*

(Replaces R3-231867)

**Decision:** The document was **noted**.

**Agreements:**

**To support RAN paging with long eDRX, the specification is updated as follows:**

**R17 and R16 NG: add the Hashed UE Identity Index Value IE into the Core Network Assistance Information for RRC INACTIVE IE;**

**R17 and R16 Xn: add the Hashed UE Identity Index Value IE into the RAN Paging message;**

**R17 F1: add the Hashed UE Identity Index Value IE into the Paging message.**

**R17 Stage 2: add a general description about introducing Hashed UE Identity Index Value to determine the start point of PTW.**

**R3-231118 Reply LS on applicability of timing error margin of Rx TEG**

*Type: LS in For: Discussion  
 Original outgoing LS: R4-2303244, to RAN2, cc RAN1, RAN3  
 Source: RAN4, CATT*

**Decision:** The document was **noted**.

**R3-231119 LS on Excess Packet Delay Threshold for MDT**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-232150, to RAN3, cc RAN2  
 Source: SA5, Nokia*

**Decision:** The document was **noted**.

**R3-231380 Clarification of the length of the Routing ID**

*Type: discussion For: Decision  
 Source: NEC*

**Discussion:**

Nokia: The key part of this CR is "16 octets"

ZTE: The updated CRs from NTTDocomo are fine, LS is not needed

Samsung: Fine with NTTDocomo's CRs

NEC: OCTET STRING is enough and tranparent to RAN/AMF, "mapping" is confusing

CATT: If the maximize value can be agreed in RAN3, the we can accept the change

**Decision:** The document was **noted**.

**R3-231242 Clarification on maximum length of Routing ID**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0953 rev 2 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-230948)

**Discussion:**

The maximum length is 16 octets, referring to the value of NfInstanceId defined in TS 29.571 [35]

**Decision:** The document was **revised to R3-231913**.

**R3-231913 Clarification on maximum length of Routing ID**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0953 rev 3 Cat: F (Rel-16)  
  
 Source: NTT DOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-231242)

**Decision:** The document was **endorsed**.

**R3-231243 Clarification on maximum length of Routing ID**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0954 rev 2 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-230949)

**Discussion:**

The maximum length is 16 octets, referring to the value of NfInstanceId defined in TS 29.571 [35]

**Decision:** The document was **revised to R3-231914**.

**R3-231914 Clarification on maximum length of Routing ID**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0954 rev 3 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC., Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-231243)

**Decision:** The document was **endorsed**.

**R3-231245 Clarification on the maximum length of Routing ID**

*Type: LS out For: (not specified)  
 to SA2, CT4  
 Source: NTT DOCOMO, INC.*

(Replaces R3-230751)

**Discussion:**

Nokia: Fine to send LS, be careful about the wording and enforce the encoding in CT4

NEC: If the receiving WG says no, what should we do?

ZTE: Why it is necessary? Internal coordination is enough

Huawei: Fine to send LS, just alignment not new agreement

Ericsson: Fine to send the LS, there may have some impact on CT4

**Decision:** The document was **revised to R3-231915**.

**R3-231915 Clarification on the maximum length of Routing ID**

*Type: LS out For: -  
 to SA2, CT4  
 Source: NTT DOCOMO, INC.*

(Replaces R3-231245)

**Discussion:**

* LS ~~for clarification~~ on the maximum length of Routing ID
* ~~(and IETF RFC 4122)~~

**Decision:** The document was **revised to R3-232170**.

**R3-232170 Clarification on the maximum length of Routing ID**

*Type: LS out For: -  
 to SA2, CT4  
 Source: NTT DOCOMO, INC.*

(Replaces R3-231915)

**Decision:** The document was **agreed**.

**R3-231786 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v16.13.0 CR-1149 rev 1 Cat: F (Rel-16)  
  
 Source: China Telecom,ZTE,CATT*

(Replaces R3-231408)

**Abstract:**

NBC(non-backwards compatible) CR

**Discussion:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-232049**.

**R3-232049 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v16.13.0 CR-1149 rev 2 Cat: F (Rel-16)  
  
 Source: China Telecom,ZTE,CATT*

(Replaces R3-231786)

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-232135**.

**R3-232135 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v16.13.0 CR-1149 rev 3 Cat: F (Rel-16)  
  
 Source: China Telecom,ZTE,CATT*

(Replaces R3-232049)

**Abstract:**

NBC(non-backwards compatible) CR

**Discussion:**

Nokia, Huawei, Samsung: Want to check whether any other way can be found, e.g., in a BC way

Ericsson: Criticality?

ZTE, CATT : Discuss the issue raised by Nokia

**# 48\_PRACHConfig** (moderator - China Telecom)

**- Check the issue raised online**

**- BC way or NBC way?**

**Decision:** The document was **endorsed**.

**R3-231414 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v17.4.1 CR-1150 Cat: A (Rel-17)  
  
 Source: China Telecom, ZTE,CATT*

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-232050**.

**R3-232050 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v17.4.1 CR-1150 rev 1 Cat: A (Rel-17)  
  
 Source: China Telecom, ZTE,CATT*

(Replaces R3-231414)

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-232136**.

**R3-232136 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v17.4.1 CR-1150 rev 2 Cat: A (Rel-17)  
  
 Source: China Telecom, ZTE,CATT*

(Replaces R3-232050)

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **endorsed**.

**R3-231541 Missing transmission bandwidth configurations in XnAP [NR\_FR1\_35MHz\_45MHz\_BW]**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1021 Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T, Qualcomm, China Telecom, China Unicom, Samsung, CATT, CMCC, Nokia, Nokia Shanghai Bell*

**Discussion:**

ZTE, Huawei: Agree with the corrections, for 45MHz, nrb44, nrb92, nrb188 should be removed, add ZTE as co-source

- For 45MHz, nrb44, nrb92, nrb188 should be removed

- Add ZTE, Huawei as co-source

**Decision:** The document was **revised to R3-231910**.

**R3-231910 Missing transmission bandwidth configurations in XnAP [NR\_FR1\_35MHz\_45MHz\_BW]**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1021 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T, Qualcomm, China Telecom, China Unicom, Samsung, CATT, CMCC, Nokia, Nokia Shanghai Bell, ZTE, Huawei*

(Replaces R3-231541)

**Decision:** The document was **endorsed**.

**R3-231542 Missing transmission bandwidth configurations in X2AP [NR\_FR1\_35MHz\_45MHz\_BW]**

*Type: CR For: (not specified)  
 36.423 v17.4.0 CR-1741 Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T, Qualcomm, China Telecom, China Unicom, Samsung, CATT, CMCC, Nokia, Nokia Shanghai Bell, ZTE, Huawei*

**Discussion:**

- For 45MHz, nrb44, nrb92, nrb188 should be removed

- Add ZTE, Huawei as co-source

**Decision:** The document was **revised to R3-231911**.

**R3-231911 Missing transmission bandwidth configurations in X2AP [NR\_FR1\_35MHz\_45MHz\_BW]**

*Type: CR For: Agreement  
 36.423 v17.4.0 CR-1741 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson, AT&T, Qualcomm, China Telecom, China Unicom, Samsung, CATT, CMCC, Nokia, Nokia Shanghai Bell, ZTE, Huawei*

(Replaces R3-231542)

**Decision:** The document was **endorsed**.

**R3-231774 Correction of QoE stage-2 description**

*Type: draftCR For: Agreement  
 38.300 v17.4.0  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Xiaomi, Qualcomm, Huawei, CATT*

**Decision:** The document was **revised to R3-232048**.

**R3-232048 Correction of QoE stage-2 description**

*Type: draftCR For: Agreement  
 38.300 v17.4.0  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Xiaomi, Qualcomm, Huawei, CATT, Samsung*

(Replaces R3-231774)

**Discussion:**

Ericsson: Few open issues need to be further discussed

**# 49\_QoEStage2**

**- Check the details and open issues**

**Decision:** The document was **endorsed**.

**R3-231912 CB: # 49\_QoEStage2**

*Type: discussion For: discussion  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231752 Discussion on corrections for UP security policy update in MR-DC**

*Type: discussion For: (not specified)  
 Source: ZTE, China Telecom, CATT, China Unicom*

**Discussion:**

Solution 1: Add the Security Result IE in the PDU Session Resource Modification Info - SN terminated IE in the SN modification request message to indicate whether the “preferred” policy is applied or not at the MN side.

Solution 2: Add the following description in 8.3.3.4 Abnormal Conditions to specify that if the SN receives a “preferred” security policy, it shall reject the PDU session.

Solution 3: Add the following description in 8.3.3.2 Successful Operation to specify that if the MN receives a “preferred” security policy, it shall determines the security policy as “required” or “not needed”.

Solution4: Do nothing?

CATT: Similar should be followed as Option1, Option2 is too strict for SN node. Option3 is not a good way to go.

Nokia: Seldom case. What will happen if "do nothing"?

ZTE: It is not a corner case. In case of split PDU session, the security policy can not be guaranteed between MN and SN

Huawei: Share the same comment as Nokia, and why removes the split PDU session indicator? ZTE: Would like to focus on security issue first

Ericsson: It is a corner case. During HO, usually SMF just follow what RAN suggested. Do nothing if fine, if solution is needed, then prefer Option3.

CATT: It's not a corner case. The SN needs to be aware the security policy decided by MN

**# 50\_UPSecurity**

**- Check the issue and the impact on RAN**

**Decision:** The document was **noted**.

**R3-231916 CB: # 50\_UPSecurity**

*Type: other For: discussion  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231753 Correction for UP security policy update in modification procedure**

*Type: CR For: Agreement  
 38.423 v15.17.0 CR-1039 Cat: F (Rel-15)  
  
 Source: ZTE, China Telecom, CATT, China Unicom*

**Decision:** The document was **noted**.

**R3-231754 Correction for UP security policy update in modification procedure**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1040 Cat: A (Rel-16)  
  
 Source: ZTE, China Telecom, CATT, China Unicom*

**Decision:** The document was **noted**.

**R3-231755 Correction for UP security policy update in modification procedure**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1041 Cat: A (Rel-17)  
  
 Source: ZTE, China Telecom, CATT, China Unicom*

**Decision:** The document was **revised to R3-232065**.

**R3-232065 Correction for UP security policy update in modification procedure**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1041 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Samsung*

(Replaces R3-231755)

**Decision:** The document was **endorsed**.

**R3-231249 Correction of Burst Arrival Time semantics description**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-0980 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

(Replaces R3-230847)

**Discussion:**

Remove TEI17

**Decision:** The document was **revised to R3-231917**.

**R3-231917 Correction of Burst Arrival Time semantics description**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-0980 rev 3 Cat: F (Rel-17)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

(Replaces R3-231249)

**Discussion:**

Endorsed unseen

**Decision:** The document was **endorsed**.

**R3-231229 Correction of Burst Arrival Time semantics description**

*Type: CR For: Agreement  
 37.483 v17.4.0 CR-0057 Cat: F (Rel-17)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **endorsed**.

**R3-231230 Correction of Burst Arrival Time semantics description**

*Type: CR For: (not specified)  
 38.473 v17.4.0 CR-1119 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-230418)

**Decision:** The document was **endorsed**.

**R3-231314 Correction of Burst Arrival Time semantics description**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0931 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-230202)

**Discussion:**

**Add co-source companies in 3GU**

**Decision:** The document was **endorsed**.

**R3-231281 Discussion on multiple Trace Session activation**

*Type: discussion For: Approval  
 Source: CATT,ZTE,Huawei,CMCC,China Telecom*

**Discussion:**

ZTE: This issue has been discussed for several meetings in RAN3

Samsung: Fine to send the LS to SA5 for the case that NG-RAN node receives the second Trace start message with different TR, in this case, the new Trace will be started, but no common understanding so far

Nokia: Is there any reason that the new session should not be started?

CATT: Whether the previous trace session should be deactivated?

Huawei: A new Trace session shall be activated, check whether any spec updates are needed

**# 51\_MultiTrace**

**- Confirm that the new Trace Session will be started, then RAN3 can discuss whether anything needs to be updated to handle the previous Trace Session**

**- The relationship with MDT?**

**Decision:** The document was **noted**.

**R3-231918 CB: # 51\_MultiTrace**

*Type: discussion For: discussion  
 Source: CATT*

**Discussion:**

**Agreements:**

**Based on the description in TS32.422 and TS38.413, NG-RAN node should start the new Trace session when it receives the second activation request of a Trace Session whose TR is different with the existing one.**

Discuss whether NG-RAN node should deactivate the first trace session immediately after it receive the second trace activation message or deactivate before handover procedure.

Discuss the behaviour of NG-RAN node if multiple MDT configurations are received.

To be continued...

**Decision:** The document was **noted**.

**R3-231282 [Draft]LS to SA5 on multiple Trace Session Activation**

*Type: LS out For: (not specified)  
 to SA5, cc SA2  
 Source: CATT,ZTE,Huawei.CMCC,China Telecom*

**Decision:** The document was **noted**.

**R3-231366 Correction of SIType List**

*Type: discussion For: (not specified)  
 Source: Huawei, CATT, Nokia, Nokia Shanghai Bell, Samsung*

**Discussion:**

Ericsson: SIB1 is never broadcast via on demand way. The correction is not completed. What UE requested is other SI, which including SIBs except SIB1, the definition can be found in TS38.300, either we make clarification to SI type as SIB, or we need change all the related descriptions

ZTE: Share the same understanding as Ericsson

Huawei: SI type means system information

Google: Share the same view as Ericsson and ZTE

**Issue is acknowledged, to be continued…**

**Decision:** The document was **noted**.

**R3-231367 Correction of SIType List**

*Type: CR For: (not specified)  
 38.473 v16.13.0 CR-1134 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, CATT, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-230666)

**Decision:** The document was **noted**.

**R3-231368 Correction of SIType List**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1135 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, CATT, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-230667)

**Decision:** The document was **noted**.

**R3-231845 Correction on behaviour procedure text for UP security procedure**

*Type: CR For: Agreement  
 38.423 v15.17.0 CR-1044 Cat: F (Rel-15)  
  
 Source: ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: Rel-17 is enough

Huawei: It's not essential

Samsung: Fine to only correct it in Rel-17

**# 52\_UPSecurityDescrip** (moderator - ZTE)

**- Align the description among specs and release**

**Decision:** The document was **noted**.

**R3-231846 Correction on behaviour procedure text for UP security procedure**

*Type: CR For: Agreement  
 38.423 v16.13.0 CR-1045 Cat: A (Rel-16)  
  
 Source: ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231847 Correction on behaviour procedure text for UP security procedure**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1046 Cat: A (Rel-17)  
  
 Source: ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232064**.

**R3-232064 Correction on behaviour procedure text for UP security procedure**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1046 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell, Samsung, Ericsson*

(Replaces R3-231847)

**Decision:** The document was **revised to R3-232128**.

**R3-232128 Correction on behaviour procedure text for UP security procedure**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1046 rev 2 Cat: F (Rel-17)  
  
 Source: ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell, Samsung, Ericsson*

(Replaces R3-232064)

**Decision:** The document was **endorsed**.

**R3-231543 Analysis of ACL remaining issues**

*Type: discussion For: (not specified)  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

**Discussion:**

Nokia: Why there is hole?

ZTE: Fine to have this CB, the second case is not correct

CATT: Fine to have some offline discussion. LTE DC?

**# 53\_ACL**

**- Check the scenarios, and the validation of the scenarios**

**- Check whether there is any missing part in current solution**

**Decision:** The document was **noted**.

**R3-231923 CB: # 53\_ACL**

*Type: discussion For: discussion  
 Source: Ericsson*

**Discussion:**

- Check the scenarios, and the validation of the scenarios

- Check whether there is any missing part in current solution

**Decision:** The document was **revised to R3-232156**.

**Agreements:**

**The following ACL use case is confirmed:**

**Use Case 3, E-UTRAN RRC re-establishment:  
In the case of E-UTRAN RRC re-establishment if the UE Context is not locally available, the new serving eNB requests the last serving eNB to provide the UE Context data by means of the Retrieve UE Context procedure. As a consequence of re-establishment and UE context Retrieval, the new serving eNB may receive forwarded data from the last serving eNB after sending the DATA FORWARDING ADDRESS INDICATION message where the destination IP addresses for data forwarding are included. The support for dynamic ACL is missing in that case. Namely, the source IP address for the data forwarding procedure following a Retrieve UE Context is not provided to the target.**

**Include last serving eNB´s source IP address to be used for data forwarding in the X2: RETRIEVE UE CONTEXT RESPONSE message.**

**R3-232156 CB: # 53\_ACL**

*Type: discussion For: discussion  
 Source: Ericsson*

(Replaces R3-231923)

**Decision:** The document was **noted**.

**R3-231544 Missing Use Cases for Dynamic ACL**

*Type: CR For: (not specified)  
 36.423 v16.10.1 CR-1742 Cat: F (Rel-16)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

**Decision:** The document was **revised to R3-232080**.

**R3-232080 Missing Use Cases for Dynamic ACL**

*Type: CR For: Agreement  
 36.423 v16.10.1 CR-1742 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

(Replaces R3-231544)

**Decision:** The document was **revised to R3-232157**.

**R3-232157 Missing Use Cases for Dynamic ACL**

*Type: CR For: Agreement  
 36.423 v16.10.1 CR-1742 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

(Replaces R3-232080)

**Decision:** The document was **revised to R3-232163**.

**R3-232163 Missing Use Cases for Dynamic ACL**

*Type: CR For: Agreement  
 36.423 v16.10.1 CR-1742 rev 3 Cat: F (Rel-16)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

(Replaces R3-232157)

**Decision:** The document was **endorsed**.

**R3-231545 Missing Use Cases for Dynamic ACL**

*Type: CR For: (not specified)  
 36.423 v17.4.0 CR-1743 Cat: A (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

**Decision:** The document was **revised to R3-232081**.

**R3-232081 Missing Use Cases for Dynamic ACL**

*Type: CR For: Agreement  
 36.423 v17.4.0 CR-1743 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

(Replaces R3-231545)

**Decision:** The document was **revised to R3-232158**.

**R3-232158 Missing Use Cases for Dynamic ACL**

*Type: CR For: Agreement  
 36.423 v17.4.0 CR-1743 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

(Replaces R3-232081)

**Decision:** The document was **revised to R3-232164**.

**R3-232164 Missing Use Cases for Dynamic ACL**

*Type: CR For: Agreement  
 36.423 v17.4.0 CR-1743 rev 3 Cat: A (Rel-17)  
  
 Source: Ericsson, Deutsche Telekom, Huawei, China Telecom*

(Replaces R3-232158)

**Decision:** The document was **endorsed**.

**R3-231369 Correction of RRC Resume Cause in PATH SWITCH REQUEST message**

*Type: CR For: (not specified)  
 38.413 v16.12.0 CR-0967 Cat: F (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell*

**Abstract:**

NBC(non-backwards compatible) CR

**Decision:** The document was **revised to R3-232054**.

**R3-232054 Correction of RRC Resume Cause in PATH SWITCH REQUEST message**

*Type: CR For: Agreement  
 38.413 v16.12.0 CR-0967 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated*

(Replaces R3-231369)

**Abstract:**

NBC(non-backwards compatible) CR

**Discussion:**

CATT: For normal gNB case, the RRC Resume Cause IE will be indicated in the path switch request message.

Ericsson: It's NBC CR, there is no harm that AMF got the RRC Resume Cause from gNB, not support this CR

ZTE: Share the view as CATT, Ericsson

Nokia: This is the mistake introduced by the original CR

**# 54\_RRCResume** (moderator - HW)

**- Check whether stage2 text has covered the intention**

**Decision:** The document was **endorsed**.

**R3-231370 Correction of RRC Resume Cause in PATH SWITCH REQUEST message**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0968 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232053**.

**R3-232053 Correction of RRC Resume Cause in PATH SWITCH REQUEST message**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0968 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell, Ericsson, Qualcomm Incorporated*

(Replaces R3-231370)

**Decision:** The document was **endorsed**.

**R3-231703 Discussion on Correction on Packet Delay Budget**

*Type: discussion For: (not specified)  
 Source: ZTE, CATT,China Telecom*

**Discussion:**

Huawei: Ack the issue, using NTN WI code, there is no changes introduced over interfaces for NTN in split architecture

Ericsson: Keep it simple and prefer option2

Nokia: Option3 is preferred

Qualcomm: Option3 then Option2

**# 55\_PDB**

**- Select the solution**

**- WI code and E1/F1 interface impact?**

**Decision:** The document was **noted**.

**R3-231924 CB: # 55\_PDB**

*Type: discussion For: discussion  
 Source: ZTE*

R17 CR for TS38.413 Correction of Extended Packet Delay Budget in R3-232010

R17 CR for TS38.423 Correction of Extended Packet Delay Budget in R3-232024

**Decision:** The document was **noted**.

**R3-232010 Correction of Extended Packet Delay Budget**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0987 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE, CATT, China Telecom, Ericsson, Huawei*

**Decision:** The document was **revised to R3-232153**.

**R3-232153 Correction of Extended Packet Delay Budget**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0987 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE, CATT, China Telecom, Ericsson, Huawei*

(Replaces R3-232010)

**Decision:** The document was **endorsed**.

**R3-232024 Correction of Extended Packet Delay Budget**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1048 Cat: F (Rel-17)  
  
 Source: Ericsson, ZTE, CATT, China Telecom, Nokia, Nokia Shanghai Bell, Huawei*

**Decision:** The document was **revised to R3-232154**.

**R3-232154 Correction of Extended Packet Delay Budget**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1048 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson, ZTE, CATT, China Telecom, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-232024)

**Decision:** The document was **endorsed**.

**R3-231704 Correction on Packet Delay Budget**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0980 Cat: F (Rel-17)  
  
 Source: ZTE, CATT,China Telecom*

**Discussion:**

canceled revision to Re-232003

**Decision:** The document was **revised to R3-232003**.

**R3-232003 Correction on Packet Delay Budget**

*Type: CR For: -  
 38.413 v17.4.0 CR-0980 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, CATT,China Telecom*

(Replaces R3-231704)

**Decision:** The document was **withdrawn**.

**R3-231705 Correction on Packet Delay Budget**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1030 Cat: F (Rel-17)  
  
 Source: ZTE, CATT,China Telecom*

**Decision:** The document was **noted**.

**R3-231706 Correction on Packet Delay Budget**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1162 Cat: F (Rel-17)  
  
 Source: ZTE, CATT,China Telecom*

**Decision:** The document was **revised to R3-232018**.

**R3-232018 Correction of Extended Packet Delay Budget**

*Type: CR For: -  
 38.473 v17.4.1 CR-1162 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, CATT, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-231706)

**Decision:** The document was **endorsed**.

**R3-231707 Correction on Packet Delay Budget**

*Type: CR For: (not specified)  
 37.483 v17.4.0 CR-0062 Cat: F (Rel-17)  
  
 Source: ZTE, CATT,China Telecom*

**Decision:** The document was **revised to R3-232019**.

**R3-232019 Correction of Extended Packet Delay Budget**

*Type: CR For: -  
 37.483 v17.4.0 CR-0062 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, CATT, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-231707)

**Decision:** The document was **endorsed**.

**R3-231371 Correction to RRC Inactive to other states**

*Type: CR For: Agreement  
 38.401 v17.4.0 CR-0286 Cat: F (Rel-17)  
  
 Source: Google*

**Discussion:**

Nokia: Why do we need to mention SDT in RRC inactive to other states?

ZTE: There is another separate section to capture SDT

Huawei, Ericsson: Prefer to keep SDT part in the separate section

**Decision:** The document was **noted**.

**R3-231578 Correction of signalling only RA-based SDT**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: Other ways exist, e.g. resume cause

ZTE: Not align with RAN2 agreement, for SDT, SRB and DRB will be established simultaneously

Huawei: Resuming SRB and DRB together is a safe way

CATT: Similar view as ZTE and Huawei

**Decision:** The document was **noted**.

**R3-231636 Correction of SDT with UE context relocation**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: Ericsson, ZTE, China Telecom*

**Discussion:**

Qualcomm: What's the security issue?

Huawei: The original figure is right

Nokia: The UL TNL address may be changed during path switch procedure

Lenovo: No security issue, while for UL TNL address change case, it is not new for SDT

**Decision:** The document was **noted**.

**R3-231634 Clarification of Application Layer Measurement Collection**

*Type: draftCR For: (not specified)  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232127**.

**R3-232127 Clarification of Application Layer Measurement Collection**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0 CR-17.4.0 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-231634)

**Discussion:**

ZTE: Treat this as rapporteur corrections is better, whisch is not only for this feature

Huawei: No harm, but not essential

Ericsson: Not all "can" need to be changed

ZTE: Fine to further discuss

Huawei: Similar concern as Ericsson

**# 56\_QoEALMC**

**- Check the details with companies**

**Decision:** The document was **noted**.

**R3-231925 CB: # 56\_QoEALMC**

*Type: discussion For: discussion  
 Source: Nokia*

**Decision:** The document was **noted**.

**R3-231637 Discussion on support of preconfigured GAPs for different configured BWP for RedCap UE**

*Type: discussion For: Discussion  
 Source: Ericsson, Qualcomm Incorporated, CATT*

**Discussion:**

Huawei: CU does not know the association between BWP and servingCellMO

ZTE: It's related to RAN2, it is a corner case, in Rel-17, the Uu interface does not support list of measurement gap configuration

Nokia: Ack the isseu, concerns on the solution

Qualcomm: Do not agree that it is a corner case

**# 57\_BWPConfig**

**- Check the details of the solution**

**- Capture agreements if any**

**- Take** [**R3-231688**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231688.zip) **into account**

**Decision:** The document was **noted**.

**R3-231926 CB: # 57\_BWPConfig**

*Type: discussion For: discussion  
 Source: Ericsson*

**Decision:** The document was **noted**.

**Agreements:**

**RAN3 to support the signalling requirements of Pre-configured measurement Gap (Pre-MG) over F1 in case of DCI based BWP switching for RedCap UE.**

**To determine if MGs are needed, the CU needs first the servingCellMO configured for each BWP, the BWP ID and the BWP location and bandwidth information from the DU before requesting for Pre-MG.**

**For activated BWP configured with NCD-SSB for a UE supporting Pre-MG, the first RRC Reconfiguration should not be sent to UE.**

**When requesting MG configuration, the DU should know that the previous CGC was not sent to RedCap UE supporting Pre-MG, and that it should send the old config to CU together with the configured MGs.**

**On the CU to DU interaction to ask DU to generate preconfigured measurement gaps per BWP, more discussion is needed on the role of the preConfGapStatus in the F1 signaling and to discuss.**

**On the issue of SI delivery to RedCap UE during handover to NCD-SSB supporting cell, to be discussed if/how this can be solved (e.g. unified way, implementation).**

**To be continued, taking the progress in R3-231926 into account...**

**R3-231638 Support of preconfigured Measurement GAPs for RedCap UE**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1160 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Incorporated, CATT*

**Decision:** The document was **revised to R3-231907**.

**R3-231907 Support of preconfigured Measurement GAPs for RedCap UE**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1160 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Incorporated, CATT*

(Replaces R3-231638)

**Decision:** The document was **noted**.

**R3-231663 Correction of Priority Level**

*Type: CR For: (not specified)  
 38.463 v15.11.0 CR-0713 Cat: F (Rel-15)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT*

**Discussion:**

Ericsson: It's not critical from Rel-15

**Decision:** The document was **noted**.

**R3-231664 Correction of Priority Level**

*Type: CR For: (not specified)  
 38.463 v16.13.0 CR-0714 Cat: A (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT*

**Decision:** The document was **noted**.

**R3-231665 Correction of Priority Level**

*Type: CR For: (not specified)  
 37.483 v17.4.0 CR-0059 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT*

**Discussion:**

- For first IE: No need for Semantics description for spare value.

- Only Rel-17 is enough

- For second IE: The value 0 is not used in this version of specification.

**Decision:** The document was **revised to R3-231927**.

**R3-231927 Correction of Priority Level**

*Type: CR For: -  
 37.483 v17.4.0 CR-0059 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT, Nokia/Nokia Shanghai Bell*

(Replaces R3-231665)

**Decision:** The document was **endorsed**.

**R3-231666 Correction of RAT type in Data Usage Report List**

*Type: CR For: (not specified)  
 38.463 v15.11.0 CR-0715 Cat: F (Rel-15)  
  
 Source: Huawei, Deutsche Telekom, BT*

**Decision:** The document was **revised to R3-231986**.

**R3-231986 Correction of RAT type in Data Usage Report List**

*Type: CR For: -  
 38.463 v15.11.0 CR-0715 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Deutsche Telekom, BT, Nokia, Nokia Shanghai Bell*

(Replaces R3-231666)

**Discussion:**

**# 58\_DataUsageReport**

**- Check RAT Type usage in E1**

**- Which release to update, focus on R17**

**Decision:** The document was **endorsed**.

**R3-231928 CB: # 58\_DataUsage Report**

*Type: discussion For: discussion  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231667 Correction of RAT type in Data Usage Report List**

*Type: CR For: (not specified)  
 38.463 v16.13.0 CR-0716 Cat: A (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, BT*

**Decision:** The document was **revised to R3-231987**.

**R3-231987 Correction of RAT type in Data Usage Report List**

*Type: CR For: -  
 38.463 v16.13.0 CR-0716 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, BT, Nokia, Nokia Shanghai Bell*

(Replaces R3-231667)

**Decision:** The document was **endorsed**.

**R3-231668 Correction of RAT type in Data Usage Report List for Rel-17**

*Type: CR For: (not specified)  
 37.483 v17.4.0 CR-0060 Cat: F (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, BT*

**Discussion:**

Ericsson: The issue can be solved in R3-231907 ZTE: Not the same issue

Huawei: Which SIB is the most important SIB to be known by UE？ZTE: SIB1 and other SIBs

**Decision:** The document was **revised to R3-231988**.

**R3-231988 Correction of RAT type in Data Usage Report List for Rel-17**

*Type: CR For: Agreement  
 37.483 v17.4.0 CR-0060 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, BT, Nokia, Nokia Shanghai Bell*

(Replaces R3-231668)

**Decision:** The document was **endorsed**.

**R3-231688 Correction on SI delivery to RedCap UE during handover**

*Type: CR For: Approval  
 38.473 v17.4.1 CR-1161 Cat: F (Rel-17)  
  
 Source: ZTE, China Telecom, CMCC*

**Discussion:**

Ericsson: The issue can be solved in R3-231907 ZTE: Not the same issue

Huawei: Which SIB is the most important SIB to be known by UE? ZTE: SIB1 and other SIBs

**Decision:** The document was **noted**.

**R3-231731 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: (not specified)  
 38.473 v15.16.0 CR-1163 Cat: F (Rel-15)  
  
 Source: Huawei, Ericsson, Orange*

**Discussion:**

Nokia: Does the DU know which case it is? Huawei: There are similar cases in F1 spec.

ZTE: Support this correction

- Add ZTE as co-source

**Decision:** The document was **revised to R3-231929**.

**R3-231929 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 38.473 v15.16.0 CR-1163 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Ericsson, Orange, ZTE, Deutsche Telekom*

(Replaces R3-231731)

**Discussion:**

Endorsed unseen

**Decision:** The document was **endorsed**.

**R3-231732 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: (not specified)  
 38.473 v16.13.0 CR-1164 Cat: A (Rel-16)  
  
 Source: Huawei, Ericsson, Orange*

**Discussion:**

- Add ZTE as co-source

**Decision:** The document was **revised to R3-231930**.

**R3-231930 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 38.473 v16.13.0 CR-1164 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Ericsson, Orange, ZTE, Deutsche Telekom*

(Replaces R3-231732)

**Discussion:**

Endorsed unseen

**Decision:** The document was **endorsed**.

**R3-231733 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1165 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson, Orange*

**Discussion:**

- Add ZTE as co-source

**Decision:** The document was **revised to R3-231931**.

**R3-231931 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1165 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Ericsson, Orange, ZTE, Deutsche Telekom*

(Replaces R3-231733)

**Discussion:**

Endorsed unseen

**Decision:** The document was **endorsed**.

**R3-231734 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v15.13.0 CR-1744 Cat: F (Rel-15)  
  
 Source: Huawei, Orange, China Telecom*

**Decision:** The document was **revised to R3-231920**.

**R3-231920 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v15.13.0 CR-1744 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231734)

**Decision:** The document was **revised to R3-232073**.

**R3-232073 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v15.13.0 CR-1744 rev 2 Cat: F (Rel-15)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231920)

**Discussion:**

ZTE: Align with ASN.1 on the range of List of E-UTRA Cells in NR Coordination Request Item

Samsung: Error on the procddure text

**# 59\_ResourceCoordination**

* **Whether the changes over X2 interface are needed?**
* **Check the details**

**Decision:** The document was **noted**.

**R3-231932 CB: 59\_ResourceCoordination**

*Type: discussion For: discussion  
 Source: Huawei*

**Discussion:**

**Issues to be clarified:**

**Tabular update needed for X2?**

**Presence clarification of List of E-UTRA Cells and List of NR Cells in response message**

**Change only rel-17 or from rel-15?**

**To be continued...**

**Decision:** The document was **noted**.

**R3-231735 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v16.10.1 CR-1745 Cat: A (Rel-16)  
  
 Source: Huawei, Orange, China Telecom*

**Decision:** The document was **revised to R3-231921**.

**R3-231921 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v16.10.1 CR-1745 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231735)

**Decision:** The document was **revised to R3-232074**.

**R3-232074 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v16.10.1 CR-1745 rev 2 Cat: A (Rel-16)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231921)

**Decision:** The document was **noted**.

**R3-231736 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v17.4.0 CR-1746 Cat: A (Rel-17)  
  
 Source: Huawei, Orange, China Telecom*

**Decision:** The document was **revised to R3-231922**.

**R3-231922 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v17.4.0 CR-1746 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231736)

**Decision:** The document was **revised to R3-232075**.

**R3-232075 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 36.423 v17.4.0 CR-1746 rev 2 Cat: A (Rel-17)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231922)

**Decision:** The document was **noted**.

**R3-231737 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: (not specified)  
 38.423 v15.17.0 CR-1036 Cat: F (Rel-15)  
  
 Source: Huawei, Orange, China Telecom*

**Decision:** The document was **revised to R3-232076**.

**R3-232076 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 38.423 v15.17.0 CR-1036 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231737)

**Decision:** The document was **noted**.

**R3-231738 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: (not specified)  
 38.423 v16.13.0 CR-1037 Cat: A (Rel-16)  
  
 Source: Huawei, Orange, China Telecom*

**Decision:** The document was **revised to R3-232077**.

**R3-232077 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: -  
 38.423 v16.13.0 CR-1037 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231738)

**Decision:** The document was **noted**.

**R3-231739 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1038 Cat: A (Rel-17)  
  
 Source: Huawei, Orange, China Telecom*

**Decision:** The document was **revised to R3-232078**.

**R3-232078 Correction on E-UTRA - NR Cell Resource Coordination**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-1038 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Orange, China Telecom*

(Replaces R3-231739)

**Decision:** The document was **noted**.

**R3-231748 Correction of Paging Priority Indicator in QoS Flow Level QoS Parameters**

*Type: CR For: (not specified)  
 38.463 v15.11.0 CR-0718 Cat: F (Rel-15)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT*

**Decision:** The document was **not treated**.

**R3-231749 Correction of Paging Priority Indicator in QoS Flow Level QoS Parameters**

*Type: CR For: (not specified)  
 38.463 v16.13.0 CR-0719 Cat: A (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT*

**Decision:** The document was **not treated**.

**R3-231750 Correction of Paging Priority Indicator in QoS Flow Level QoS Parameters**

*Type: CR For: (not specified)  
 37.483 v17.4.0 CR-0063 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, Orange, BT*

**Decision:** The document was **not treated**.

**R3-231804 Discussion on exchanging AMF Set information over Xn**

*Type: discussion For: Discussion  
 Source: CMCC, Huawei*

**Decision:** The document was **not treated**.

**R3-231805 Correction on AMF Set Information over Xn**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1042 Cat: F (Rel-17)  
  
 Source: CMCC, Huawei*

**Decision:** The document was **not treated**.

**R3-231596 Subcarrier Spacing FR2 correction**

*Type: discussion For: Agreement  
 Source: Huawei*

**Decision:** The document was **not treated**.

**R3-231610 Correction on F1AP for L2 U2N Relay**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1157 Cat: F (Rel-17)  
  
 Source: Philips International B.V.*

**Decision:** The document was **not treated**.

**R3-231613 Correction on F1AP for L2 U2N Relay**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1159 Cat: F (Rel-17)  
  
 Source: Philips International B.V.*

**Decision:** The document was **not treated**.

**R3-231614 Correction on F1AP for L2 U2N Relay**

*Type: discussion For: Decision  
 Source: Philips International B.V.*

**Decision:** The document was **not treated**.

**R3-231621 Correction on L2 U2N Relay Remote UE RRC procedures**

*Type: CR For: (not specified)  
 38.401 v17.4.0 CR-0290 Cat: F (Rel-17)  
  
 Source: Philips International B.V.*

**Decision:** The document was **not treated**.

**R3-231246 Clarification on usage of E-RAB Information List**

*Type: CR For: (not specified)  
 38.413 v15.13.0 CR-0958 rev 1 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO, INC., Ericsson*

(Replaces R3-230761)

**Decision:** The document was **not treated**.

**R3-231247 Clarification on usage of E-RAB Information List**

*Type: CR For: (not specified)  
 38.413 v16.12.0 CR-0959 rev 1 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO, INC., Ericsson*

(Replaces R3-230769)

**Decision:** The document was **not treated**.

**R3-231248 Clarification on usage of E-RAB Information List**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0960 rev 1 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC., Ericsson*

(Replaces R3-230770)

**Decision:** The document was **not treated**.

**R3-231405 Correction of signalling only RA-based SDT**

*Type: CR For: (not specified)  
 38.401 v17.4.0 CR-0289 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**R3-231406 Correction of signalling only RA-based SDT**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1148 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

**R3-231408 ASN.1 Correction of PRACH Configuration**

*Type: CR For: Approval  
 38.473 v16.13.0 CR-1149 Cat: F (Rel-16)  
  
 Source: China Telecom,ZTE,CATT*

**Decision:** The document was **withdrawn**.

**R3-231480 Correction on IAB bar configuration**

*Type: CR For: Approval  
 38.473 v16.13.0 CR-1151 Cat: F (Rel-16)  
  
 Source: Huawei*

**Decision:** The document was **withdrawn**.

**R3-231635 (CR TS 38.423) Correction of RB Set Configuration**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1028 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **withdrawn**.

### 9.3 R17 Rapporteur Corrections

## 10 Enhancement of Data Collection for SON\_MDT in NR standalone and MR-DC WI (RAN3-led)

WID [NR\_ENDC\_SON\_MDT\_enh2-Core]: [RP-221825](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_96/Docs/RP-221825.zip) (target: RAN #102) [TU: 1 (**1**, 1, 1, 1)]

### 10.1 General

**R3-231125 (BLCR to 38.423) Addition of SON features enhancement**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0934 rev 4 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-230070)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231126 (BLCR to 38.473) Addition of SON features enhancement**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1105 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces R3-231045)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231127 BLCR to 38.300:enhancement of SON**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: CMCC*

(Replaces R3-231043)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231128 (BLCR to 38.413) for SON**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0964 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-231044)

**Abstract:**

Baseline CR

**Decision:** The document was **revised to R3-231906**.

**R3-231906 (BLCR to 38.413) for SON**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0964 rev 2 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-231128)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Split the MDT part as a separate BL CR or keep SON and MDT together in a BL CR?**

**To be continued...**

Huawei: No ASN.1 yet

Ericsson: Will provide ASN.1 in next meeting

**Decision:** The document was **endorsed**.

**R3-231129 (BLCR to 38.401) Addition of SON features enhancement**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0282 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE*

(Replaces R3-231047)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231789 Update of work Plan for Enhancement of Data Collection for SON\_MDT in NR standalone and MR-DC WI**

*Type: Work Plan For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

### 10.2 Support of SON/MDT Enhancements

#### 10.2.1 SHR and SPR

**R3-231189 [TP to 38.423, SON] Configuration coordination for the successful PSCell change report**

*Type: discussion For: Endorsement  
 38.423 v..  
 Source: Nokia Netherlands*

**Decision:** The document was **noted**.

**R3-231200 (TP for SON BLCR for 38.423) SON enhancement for SHR and SPR**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-232002**.

**R3-232002 (TP for SON BLCR for 38.423) SON enhancement for SHR and SPR**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-231200)

**Decision:** The document was **agreed**.

**R3-231269 (TPs for SON BLCRs for TS 38.300) SHR**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Discussion:**

R3-232060 is canceled.

**Decision:** The document was **noted**.

**R3-232060 (TPs for SON BLCRs for TS 38.300) SHR**

*Type: discussion For: Agreement  
 38.300 v17.4.0  
 Source: Huawei*

(Replaces R3-231269)

**Decision:** The document was **withdrawn**.

**R3-231270 (TPs for SON BLCRs for TS 38.300) SPR**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231299 Inter-RAT SHR and SPR**

*Type: discussion For: Decision  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231339 Successful Handover Report and Successful PSCell Change Report**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231372 Discussion on related issue of inter-RAT SHR**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231423 SON enhancements for SPR**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231424 SON enhancements for SHR**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231552 Discussion on SON enhancement for SHR and SPR**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231584 Inter-RAT SHR and SPR discussion**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231708 (TPs for SON BLCRs for TS 38.300 TS 38.413 TS 38.473 and TS 38.423)Inter-RAT SHR and SPR**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **revised to R3-232021**.

**R3-232021 (TPs for SON BLCRs for TS 38.413 )Inter-RAT SHR and SPR**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: ZTE, Qualcomm*

(Replaces R3-231708)

**Decision:** The document was **agreed**.

**R3-231791 SON enhancement for Inter-RAT SHR**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231792 SON enhancement for SPR**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**# SONMDT1\_SHRSPR**

**For Inter-RAT SHR:**

**- Forwarding mechanism for Inter-RAT SHR and R17 intra-NR SHR?**

**- Retrieval of UE context for intra-RAT and inter-RAT SHR?**

**- Correlate of inter-RAT SHR and RLF?**

**- NR to LTE HO - Addition of RACH related information?**

**- SHR collected during inter-RAT HO (LTE to NR)?**

**For SPR:**

**- Which node decides the trigger of T312/310 for MN-initiated classic PSCell change/CPC?**

**- The trigger of T304, whether the objective of SPR is to optimize PSCell change configuration during mobility or the RACH access issue or both?**

**- Which node will trigger PSCell change/CPC first, UE context retrieval while performing SPR optimizations, forwarding mechanism for SPR, the contents of SPR, the correlation between SPR and SCGFailureInformation, SPR availability indication**

**- Capture agreements and open issues**

**- Provide TPs if agreeable**

**R3-231868 CB: # SONMDT1\_SHRSPR- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232004**.

**R3-232004 CB: # SONMDT1\_SHRSPR- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm - moderator*

(Replaces R3-231868)

**Decision:** The document was **noted**.

(TPs for SON BLCRs for TS 38.473) Inter-RAT SHR and SPR [R3-232022](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232022.zip) rev in [R3-232137](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232137.zip)  
LS to RAN2 on intra-system inter-RAT SHR and on SPR in [R3-232061](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232061.zip)

**R3-232022 (TPs for SON BLCRs for TS 38.473) Inter-RAT SHR and SPR**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: ZTE, Qualcomm*

**Decision:** The document was **revised to R3-232137**.

**R3-232137 (TPs for SON BLCRs for TS 38.473) Inter-RAT SHR and SPR**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: ZTE, Qualcomm, Samsung*

(Replaces R3-232022)

**Decision:** The document was **agreed**.

**R3-232061 LS on intra-system inter-RAT SHR and on SPR**

*Type: LS out For: Agreement  
 to RAN2  
 Source: Huawei*

**Discussion:**

Remove the WA, only keep the first sentence

**Decision:** The document was **revised to R3-232140**.

**R3-232140 LS on intra-system inter-RAT SHR and on SPR**

*Type: LS out For: Agreement  
 to RAN2  
 Source: Huawei*

(Replaces R3-232061)

**Discussion:**

Ericsson: Remove the WA

**Decision:** The document was **agreed**.

Successful HO Report (SHR)

**Agreements:**

**If a different NR node (different from source NR node) retrieves the SHR collected during an inter-RAT HO (NR to LTE), reuse *ACCESS AND MOBILITY INDICATION* message (over XnAP and F1AP) and Uplink/Downlink RAN configuration transfer procedures (over NGAP) to forward the SHR to the source NR node**

**UE will provide information that enables context retrieval in the source node? To be discussed in the 2nd round.**

QUALCOMM: SHR cause includes list of cause values

HUAWEI: Add the sentence above on the top of p2.

ZTE, CATT, Lenovo, NEC: The original p2 is good enough.

ERICSSON: Disagree with p2

**There is no need for UE to include the following RACH related information in SHR collected during inter-RAT HO (NR to LTE) as this information is already available in the RA Report:**

* **number of RACH attempts made for the successful handover**
* **a flag on whether contention was observed for the successful handover**

**Agreements:**

**No further discussion in RAN3 on above RACH related information.**

**Support collection of SHR during successful inter-RAT HO (LTE to NR) for T304 trigger without any LTE impacts in R18, if the following principles are used. Send LS to RAN2 to confirm the first 4 bullets:**

* **Target gNB can send SHR configuration (T304 trigger) to UE via NR container (*targetRAT-MessageContainer)* in *MobilityFromEUTRACommand***
* **UE stores this SHR configuration in NR format**
* **If T304 trigger is met, UE records SHR in NR format**
* **UE reports this SHR to only an gNB (either the target gNB or another gNB)**
* **gNB retrieving this SHR can forward this SHR to the target gNB for SHR optimizations**

ERICSSON: Want to check the detail of LS

**Agreements:**

**The SHR collected during inter-RAT HO (LTE to NR) should include at least Source LTE cell and Target NR cell (assuming RAN2 confirms no LTE impacts based on the principles in Proposal 4)**

Successful PSCell Change Report (SPR):

**WA: The triggers for SPR should be represented in terms of percentage values (similar to SHR)**

ERICSSON: It is also being discussed in RAN2

QUALCOMM: RAN2 has no plan to discuss this in this meeting

NEC: It can be agreed, send LS to RAN2 for confirmation

CATT: RAN3 is the leading group

**Agreements:**

**In case the SPR is retrieved in a “new node” (different from the node that sent the SPR configuration to the UE i.e., “old MN”), the SPR is always sent from the “new node” to the “old MN” which then forwards to the respective node(s) which should perform the SPR optimization.**

ERICSSON: old node should be old MN node

**Agreements:**

**To assist in the forwarding of SPR, UE may include the following in SPR**

* **CGI of the PCell which sent the SPR configuration (presence of this IE is to be discussed)**
* **WA: Indication whether the PSCell change was MN-initiated or SN-initiated (RAN3 should discuss how the UE knows whether the PSCell change as MN-initiated or SN-initiated and will check with RAN2 on the mechanism)**

**Reuse ACCESS AND MOBILTY INDICATION to forward SPR over XnAP and F1AP and use Uplink/Downlink RAN Configuration Transfer for forwarding SPR over NGAP**

**To identify the UE context in the old source SN/old target SN when SPR is forwarded by old MN for SPR optimization, old MN identifies the UE context and sends the stored respective SN Mobility Information together with SPR to the old source SN/old target SN**

Samsung: Add “respective”

To be continued in 2nd round

TP to TS 38.413 for SPR (ZTE): based on R3-231708

TP to TS 38.473 for SPR (ZTE): based on R3-231708

TP to TS 38.423 for SPR (Samsung): based on R3-231200

LS to RAN2 inter-RAT SHR from LTE to NR and SPR (HW): based on R3-231269

Issue 1: Down selection among Option 1 vs. 2 for retrieval of UE context at source gNB during inter-RAT HO (NRà LTE) and intra-NR HO

Option 1: UE includes the “Source C-RNTI” and “Time between HO command and SHR retrieval”

Option 2: Mobility Information is sent to the UE together with the SHR configuration, the UE includes the Mobility Information back in the SHR

Issue 2: Down selection among Option 1 vs. 2 to identify the UE context in the old MN when SPR is received

Option 1: UE includes the “C-RNTI in old PSCell” and “Time between PSCell change and SPR retrieval”.

Option 2: “Mobility Information in old PCell“ is sent to the UE together with the SPR configuration, the UE includes the Mobility Information back in the SPR

Issue 3: in case SPR is collected during MN-initiated PSCell change,

Discuss whether “optimize lower layer issues of source PSCell” mean optimizing T310/T312 timer value, or T310/T312 SPR trigger, or both

FFS whether SPR optimizations are done in both MN and source SN (e.g., MN has to optimize PSCell change configuration and source SN has to optimize T310/T312 timer values) for Option 1/2/3

Issue 4: In case T304 trigger is met and SHR is collected, discuss whether the objective is to optimize RACH access issues in target cell or to optimize the mobility configuration or both

Issue 5: In case there is a RLF shortly after a successful inter-RAT HO from NR to LTE, RAN3 should discuss whether to support correlation of NR RLF and LTE SHR and if yes, whether any UE assistance is needed to support this correlation.

**Agreements:**

**In case the SHR collected during an intra-NR HO is retrieved in a NR node different from source/target NR node, the receiving node performs initial analysis (identifies the node(s) to which the SHR is to be forwarded) and forwards the SHR to the corresponding node(s) which generates the SHR trigger condition that triggered the SHR (i.e., Option 3 is agreed)**

**If the trigger is T312/T310, the objective of SPR is to**

* **optimize PSCell change configuration and associated mobility thresholds**
* **optimize lower layer issues of source PSCell (e.g., optimize T310/T312 timer values)**

**Further, T310/T312 related SPR triggers can also be optimized to ensure UE doesn’t unnecessarily collect SPR or only rarely collects SPR**

**Irrespective of option 1/2/3, in case SPR is collected during MN-initiated PSCell change, SPR optimizations are done in both MN and source SN**

* **MN is responsible to optimize PSCell change configuration and associated mobility thresholds**
* **Source SN is responsible to optimize lower layer issues (e.g., optimize T310/T312 timer values)**

**In case of SN initiated PSCell change,**

* **Source SN may send the SN Mobility Information to MN via SN Change Required message (already supported by existing specifications)**
* **Target SN may send the SN Mobility Information to MN in SN Addition Request Acknowledge message**
* **If received, MN stores the SN Mobility Information of both source SN and target SN and sends it to the “node performing SPR optimization” along with SPR in ACCESS AND MOBILITY INDICATION over XnAP**

**In case of MN initiated PSCell change,**

* **Source SN may send the SN Mobility Information to MN via SN Release Request Acknowledge**
* **Target SN may send the SN Mobility Information to MN in SN Addition Request Acknowledge message**
* **If received, MN stores the SN Mobility Information of both source SN and target SN and sends it to the “node performing SPR optimization” along with SPR in ACCESS AND MOBILITY INDICATION over XnAP**

#### 10.2.2 MRO

**R3-231201 (TP for SON BLCR for 37.340 and 38.423) SON enhancements for CPAC and MCG failure recovery**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231202 (TP for SON BLCR for 38.413 and 38.300) MRO for inter-system handover for voice fallback**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231226 [TP to 37.340, SON] Further consideration on the CPC Execution to wrong PSCell**

*Type: other For: Endorsement  
 37.340 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-230129)

**Decision:** The document was **revised to R3-232062**.

**R3-232062 [TP to 37.340, SON] Definitions for MRO failure events for CPAC**

*Type: other For: Endorsement  
 37.340 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, ZTE, Ericsson, Samsung*

(Replaces R3-231226)

**Decision:** The document was **agreed**.

**R3-231227 [TP to TS38423, SON] Support for MRO for fast MCG recovery in case of SCG deactivation and for pre-Rel.18 UEs**

*Type: other For: Endorsement  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231340 MRO enhancements for CPAC, voice fallback and fast MCG recovery**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231373 Discussion on remaining issue of MRO for fast MCG recovery**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231425 (TP for SON BLCR for 37.340) SON enhancements for CPAC**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231426 (TP for SON BLCR for 38.300) MRO for inter-system handover for voice fallback**

*Type: other For: (not specified)  
 Source: Lenovo, CMCC*

**Decision:** The document was **noted**.

**R3-231427 MRO for fast MCG link recovery**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231553 Discussion on MRO for CPAC**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231554 Discussion on MRO for fast MCG recovery and voice fallback**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231585 (TP for SON BL CR for TS 36.300, TS 38.300, TS 38.423) SON enhancements for MRO**

*Type: other For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **revised to R3-232151**.

**R3-232151 (TP for SON BL CR for TS 38.300) SON enhancements for MRO**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Ericsson*

(Replaces R3-231585)

**Decision:** The document was **agreed**.

**R3-231689 (TPs for SON BL CR TS37.340 and TS38.413) MRO enhancemetns in Rel-18**

*Type: other For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231790 MRO for CPC and CPA**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231800 Further considerations on fast MCG recovery**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231271 (TPs for SON BLCRs for TS 38.300): MRO related objectives**

*Type: other For: (not specified)  
 Source: Huawei*

**Discussion:**

Late contribution

**Decision:** The document was **noted**.

**# SONMDT2\_MRO**

**MRO for CPAC:**

**- Stage2 on CPA and CPC**

**- Any further enhancement on the SCGFailureInformation for CPAC?**

**- Any network interface impact?**

**MRO for Fast MCG Failure Recovery:**

**- Any additional case on top of agreed case a and case b?**

**- Further enhancement on UE reported information?**

**- Any network interface impact?**

**MRO for inter-system handover for voice fallback:**

**- Clarification on the basic cases.**

**- Any network interface impact on RLF report transfer?**

**- Capture agreements and open issues, provide Stage 2 and Stage 3 TPs if agreeable?**

**- LS to RAN2?**

**R3-231869 CB: # SONMDT2\_MRO- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232011**.

**R3-232011 CB: # SONMDT2\_MRO- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

(Replaces R3-231869)

**Decision:** The document was **noted**.

(TP for SON BLCR for 37.340) UHI for CPAC [R3-232001](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232001.zip)

Huawei: It’s not needed, just implementation and no need to specified

Update of WF on the MRO scenarios in [R3-232147](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232147.zip)

**R3-232001 (TP for SON BLCR for 37.340) UHI for CPAC**

*Type: other For: Agreement  
 37.340 v17.4.0  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-232147 Update of WF on the MRO scenarios**

*Type: discussion For: Approval  
 Source: Lenovo*

**Decision:** The document was **withdrawn**.

MRO for CPAC:

**Agreements:**

**Definitions of MRO events for CPAC will be introduced in TS 37.340 in a new chapter (based on [1226], CPA needs to be added).**

For the 2nd round: review of the TP (based on R3-231226).

For the 2nd round: review of the information exchange to see if the existing procedures can indeed be reused to support MRO for CPAC.

**Agreements:**

**During CPAC configuration, the value of the Time Stay IE for the source PSCell UHI, sent in S-NODE ADDITION REQUEST message, does not reflect the exact time the UE stayed in the source PSCell.**

In Rel.18, no extra signalling will be enabled to support CPAC UHI, stage2 text to be checked?

Ericsson: Does it mean we will only have something in stage2?

Nokia: Majority do not want to have stage3 solution. Similar to CHO, we can only have stage2 definition.

For the 2nd round: review of the TP (new stage-2).

A scenario when MCG fails before CPA/CPC is executed is a subject to regular MCG MRO correction to avoid possible resource waste.

Nokia: Do this as best effort.

MRO for the fast MCG recovery:

**Agreements:**

**Case f1, where the SCG fails or is deactivated yet before the UE sends the MCGFailureInformation is to be addressed.**

Case (c), i.e. the “near-failure scenario” will be addressed.

WA: In order to enable support for pre-Rel.18 UEs (and help avoid wasting Uu resources), the T316 will be delivered from the MN to the SN.

Ericsson: Support f1

Qualcomm: Case c should not be addressed, focus on case a and f1

CMCC: near-failure scenario needs to be considered.

NEC: Can compromise to casef1 and casec

CATT: Not clear on WA2

Samsung: WA1 is not needed

Ericsson: Saving Uu resources is not SON work in RAN3

MRO for the voice fall-back:

**Agreements:**

**Stage-2 description of the detection mechanism will be introduced in TS 38.300 (based on** [**R3-231585**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231585.zip)**).**

For the 2nd round: review of the TP (based on R3-231585).

New R3-232001 (st2 description of SCG UHI handling)

**Agreements:**

**Scenario ‘a’ is redefined: SCG fails when the UE is undergoing fast MCG recovery (i.e. SCG failure happens while T316 is running).**

**The document containing list of scenarios (last noted at #118 as R3-226422) is recommended to be updated to cover the scenario ‘f1’.**

To be continued: Transfer of the T316 from the MN to the SN to support the MRO for the fast MCG recovery Rel.18 scenarios for pre-Rel.18 UEs (or Uu resource usage optimisation).

#### 10.2.3 RACH Enhancements

**R3-231112 Reply LS on RACH enhancement for R18 SONMDT**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302066, to RAN3, cc -  
 Source: RAN2, Huawei*

**Decision:** The document was **noted**.

**R3-231203 Discussion on SON for RACH**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231300 (TP for SON BL CR for TS 38.473) RACH enhancements**

*Type: other For: Approval  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231341 RACH optimization enhancements**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231555 Discussion on RACH enhancement**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231586 RACH Optimization enhancement**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231587 Reply LS on RACH enhancement for R18 SONMDT**

*Type: LS out For: Discussion  
 to RAN2  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231628 (TP for SON BL CR to TS 38.473) Further discussion on RACH optimisation**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231709 (TPs for SON BLCRs for TS 38.473 and TS 38.423)RACH enhancements**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **revised to R3-232020**.

**R3-232020 (TPs for SON BLCRs for TS 38.423)RACH enhancements**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source:  ZTE, Intel*

(Replaces R3-231709)

**Discussion:**

- Add Ericsson co-source

**Decision:** The document was **revised to R3-232142**.

**R3-232142 (TPs for SON BLCRs for TS 38.423)RACH enhancements**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source:  ZTE, Intel, Ericsson*

(Replaces R3-232020)

**Decision:** The document was **agreed**.

**R3-231740 (TPs for SON BLCRs for TS 38.300, TS 38.401, TS 38.423, TS 36.423,TS 38.473): Remaining issues for RACH optimisation**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **revised to R3-232099**.

**R3-232099 (TPs for SON BLCR for TS 38.300): Naming update for RA report**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Huawei*

(Replaces R3-231740)

**Decision:** The document was **agreed**.

**R3-231741 [draft] Rely LS on RACH enhancement for R18 SONMDT**

*Type: LS out For: Agreement  
 to RAN2  
 Source: Huawei*

**Decision:** The document was **revised to R3-232100**.

**R3-232100 [draft] Rely LS on RACH enhancement for R18 SONMDT**

*Type: LS out For: Agreement  
 to RAN2  
 Source: Huawei*

(Replaces R3-231741)

**Discussion:**

- RAN3 concluded that majority companies support Alt 1. -> RAN3 concluded that the preferred option is Alt 1.

- RAN3 therefore kindly asks RAN2 to clarify the above agreement.

- ACTION: RAN3 respectfully asks RAN2 to take the above into account and provide feedback if any.

**Decision:** The document was **revised to R3-232144**.

**R3-232144 [draft] Rely LS on RACH enhancement for R18 SONMDT**

*Type: LS out For: Agreement  
 to RAN2  
 Source: Huawei*

(Replaces R3-232100)

**Discussion:**

Ericsson: RAN3 concluded that the preferred option is option1.

**Decision:** The document was **agreed**.

**# SONMDT3\_RACH**

**- Check RAN2 progress in** [**R3-231112**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231112.zip)**, check group understanding and reply LS to RAN2**

**- Discuss RACH report optimization (e.g, feature priority, RACH partition configuration, time stamp, NW controls UE)**

**- Details on RACH report retrieval, e.g, the presence of gNB-DU UE F1AP ID and Random access Indication?**

**- Capture agreements and open issues**

**- Provide TPs if agreeable**

**R3-231870 CB: # SONMDT3\_RACH- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Intel - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232025**.

**R3-232025 CB: # SONMDT3\_RACH- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Intel Corporation (moderator)*

(Replaces R3-231870)

**Decision:** The document was **noted**.

(TP for SON BL CR to TS 38.473) Further discussion on RACH optimization in [R3-231999](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Agenda\Inbox\R3-231999.zip)

(TP for SON BLCR for TS 38.401): Naming update for RA report in [R3-232101](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232101.zip)

(TP for SON BLCR for TS 38.423): Naming update for RA report in [R3-232102](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232102.zip)

(TP for SON BLCR for TS 38.473): Naming update for RA report in [R3-232103](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232103.zip)

(TPs for SON BLCR for TS 36.423): Naming update for RA report in [R3-232104](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232104.zip)

**R3-231999 (TP for SON BL CR to TS 38.473) Further discussion on RACH optimisation**

*Type: other For: Agreement  
 38.473 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Remove changes over changes, clean the text

Add Ericsson as co-source

**Decision:** The document was **revised to R3-232141**.

**R3-232141 (TP for SON BL CR to TS 38.473) TP for RACH optimisation**

*Type: other For: Agreement  
 38.473 v..  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE, Intel, Ericsson*

(Replaces R3-231999)

**Decision:** The document was **agreed**.

**R3-232101 (TPs for SON BLCR for TS 38.401): Naming update for RA report**

*Type: other For: Agreement  
 38.401 v17.4.0  
 Source: Huawei*

**Decision:** The document was **agreed**.

**R3-232102 (TPs for SON BLCR for TS 38.423): Naming update for RA report**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source: Huawei*

**Decision:** The document was **revised to R3-232143**.

**R3-232143 (TPs for SON BLCR for TS 38.423): Naming update for RA report**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source: Huawei*

(Replaces R3-232102)

**Decision:** The document was **agreed**.

**R3-232103 (TPs for SON BLCR for TS 38.473): Naming update for RA report**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Huawei*

**Decision:** The document was **agreed**.

**R3-232104 (TPs for SON BLCR for TS 36.423): Naming update for RA report**

*Type: other For: Agreement  
 36.423 v17.4.0  
 Source: Huawei*

**Decision:** The document was **agreed**.

RACH INDICATION message

**Agreements:**

**Only *gNB-CU UE F1AP ID* is included in the RACH INDICATION message.**

**The *Random Access Indication IE* in the RACH INDICATION message is not needed.**

**The criticality of the *RACH indication list IE* in the RACH INDICATION message is “reject”.**

Name of RA report

**Agreements:**

**To align the naming of RA report with RAN2 spec in TS 38.300, TS 38.401, TS 38.423 and TS 38.473.**

**To use “RA report” in TS 38.300, TS 38.401, TS 38.423 and TS 38.473.**

**To be continued next meeting:**

**RA report forwarding in inter-MN handover case**

**RACH report optimization**

**Feature priorities**

**RACH partition configuration**

**Time between RACH access that led to the generation of a RACH Report and reporting of the RACH Report to the NG-RAN**

**The network controls the UE to report RA information**

#### 10.2.4 SON/MDT Enhancements for Non-Public Networks

**R3-231184 (TP for MDT BL CR for TS 38.423) Addition of PNI-NPN in MDT Area Scope**

*Type: other For: (not specified)  
 Source: Huawei, China Telecom, CMCC*

**Decision:** The document was **revised to R3-231184**.

**R3-232091 (TP for MDT BL CR for TS 38.423) Addition of PNI-NPN in MDT Area Scope**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source: Huawei, China Telecom, CMCC*

(Replaces R3-231184)

**Decision:** The document was **agreed**.

**R3-231185 (TP for SON BLCR for TS 37.320): MDT support in SNPN**

*Type: other For: (not specified)  
 Source: Huawei, Orange, China Telecom, CMCC*

**Decision:** The document was **noted**.

**R3-231301 (TP for SON BL CR for TS 38.413) MDT enhancements for SNPN**

*Type: other For: Approval  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231337 Discussion on SON/MDT for NPN**

*Type: discussion For: (not specified)  
 Source: BEIJING SAMSUNG TELECOM R&D*

**Decision:** The document was **noted**.

**R3-231342 SON MDT enhancements for Non-Public networks**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231556 Discussion on SONMDT enhancement for NPN**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231588 SON enhancements for Non-public networks**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231629 (TP for MDT BL CR to TS 38.413) Support of NPN in MDT area scope**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231710 (TPs for SON BLCRs for TS 38.413 and TS 38.423)MDT support in NPN**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: ZTE*

**Decision:** The document was **revised to R3-232027**.

**R3-232027 (TPs for MDT BLCRs for TS 38.413)MDT support in NPN**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: ZTE*

(Replaces R3-231710)

**Decision:** The document was **agreed**.

**R3-231742 (TPs for MDT BLCRs for TS 38.413, TS 38.423): MDT support in SNPN**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**# SONMDT4\_NPN**

**- Check if any revisions are needed for the NGAP TP for MDT in the PNI-NPN? XnAP mirror TP?**

**- Discuss the solution on MDT in the SNPNs**

**- Capture agreements and open issues, provide TPs if agreeable**

**R3-231871 CB: # SONMDT4\_NPN- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232112**.

**R3-232112 CB: # SONMDT4\_NPN- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

(Replaces R3-231871)

**Decision:** The document was **noted**.

**R3-232118 LS on support of separate MDT reports for public and non-public networks**

*Type: LS out For: Agreement  
 to RAN2  
 Source: RAN3(Ericsson)*

**Decision:** The document was **agreed**.

**FFS: Check the company's preference: in case of PNI-NPN area scope is not present, whether how to interpret the old area scope choices when it set as cell base, TA based, TAI based, and PLMN wide with following cases:**

**-only represents the PN area, i.e, only including non-CAG cells**

**-can represent both PN and NPN area, i.e, including both non-CAG cells and CAG cells. If the latter is preferred, whether further clarification is needed to avoid misunderstanding.**

**If old area scope choices only represents the PN area , FFS whether there is a need to preserve the legacy functionality of the NGAP "PLMN wide" choice, namely, this choice is equivalent to absence of area scope over Xn and RRC, i.e. MDT is performed within the MDT PLMN List without any restriction.**

**FFS on set the range of maxnoofCAGforMDT to 256 or 12.**

SON/logged MDT reports retrieval for SNPNs

Agree the R3-232118 LS to RAN2 potential override of logged MDT reports upon moving from SNPN to PLMN.

RLF report enhancement

**Agreements:**

**How to introduce NID or PNI-NPN ID into SON/MDT reports depends on RAN2’s decision.**

Whether a UHI containing PNI-NPN should be disclosed to a public network

**Agreements:**

**It is up to configuration and operator’s policies whether PN and NPN information can be included in the UE History Information.**

For MDT area scope in SNPNs:

**FFS introduce the "SNPN based", "SNPN cell based", and "SNPN TA based" choice IEs into the existing CHOICE structure, this would allow for the specification of interested SNPNs, interested cells of SNPNs, or interested TAs of SNPNs.**

**FFS Whether there is a need to introduce a NGAP "SNPN wide" choice.**

For LS to RAN2 to inform the progress of MDT support in NPN:

Send an LS to RAN2 and other WGs after both PNI-NPN and SNPN solution for MDT area scope are stable.

For MDT user consent:

No LS to SA5 for MDT user consent in SNPN at this meeting.

#### 10.2.5 SON for NR-U

**R3-231204 Discussion on SON for NR-U**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231228 The LBT waiting time for correct NR-U MRO analysis**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-230131)

**Decision:** The document was **noted**.

**R3-231302 NR-U enhancements for MRO**

*Type: discussion For: Decision  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231343 SON enhancements for NR-U**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231428 Discussion on MRO for NR-U**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231557 Discussion on SON enhancement for NR-U**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231589 Radio Resource Status per NR-U Channel**

*Type: discussion For: (not specified)  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231590 (TP for SON BL CR for TS 38.423) Radio Resource Status per NR-U Channel**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231591 (TP for SON BL CR for TS 38.473) Radio Resource Status per NR-U Channel**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Deutsche Telekom, Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231592 (TP for SON BL CR for TS 38.423) NR-U metrics**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Samsung*

**Decision:** The document was **revised to R3-231996**.

**R3-231996 (TP for SON BL CR for TS 38.423) NR-U metrics**

*Type: other For: -  
 38.423 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Samsung*

(Replaces R3-231592)

**Decision:** The document was **revised to R3-232067**.

**R3-232067 (TP for SON BL CR for TS 38.423) NR-U metrics**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Samsung*

(Replaces R3-231996)

**Decision:** The document was **agreed**.

**R3-231593 (TP for SON BL CR for TS 38.473) NR-U metrics**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Samsung*

**Decision:** The document was **revised to R3-231997**.

**R3-231997 (TP for SON BL CR for TS 38.473) NR-U metrics**

*Type: other For: -  
 38.473 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Samsung*

(Replaces R3-231593)

**Decision:** The document was **revised to R3-232068**.

**R3-232068 (TP for SON BL CR for TS 38.473) NR-U metrics**

*Type: other For: Agreement  
 38.473 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Samsung*

(Replaces R3-231997)

**Decision:** The document was **agreed**.

**R3-231594 NR-U enhancements for MRO and MLB**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231690 Further discussion on NR-U optimizations**

*Type: other For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231743 (TPs for SON BLCR for TS 38.423, TS 38.473): SON for NR-U**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**# SONMDT5\_NRU**

**NR-U for MRO**

**- RLF Report optimizations, e.g., value of EDT in UL (exact/average/max)**

**- RA Report optimizations**

**NR-U for MLB**

**- Presence of the COT UL over F1.**

**- Whether the EDT UL for MLB should be introduced over F1?**

**- Whether to introduce CAC and Radio Resource Status per NR-U channel?**

**- COT Percentage by Neighbor Cells?**

**- Capture agreements and open issues, provide Stage 3 TPs if agreeable?**

**R3-231872 CB: # SONMDT5\_NRU- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232069**.

**R3-232069 CB: # SONMDT5\_NRU- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

(Replaces R3-231872)

**Decision:** The document was **noted**.

Proposals - MRO related

**Agreements:**

**Enhancements of RLF reports and RA reports are beneficial to separate mobility related errors from the LBT-related ones.**

**RLF Report and RA report can be enhanced to include information concerning the LBT failures in RA procedures, the granularity and implementation details needs to be further discussed based on progress in RAN2.**

QUALCOMM: Remove “per BWP” which is under the discussion in RAN2.

Proposals - MLB related

**WA: a gNB sends in resource status reporting via Xn an EDT UL that reflects at least the maximum EDT UL configured for the UEs.** FFS on whether the EDT UL sent over Xn can also consider the EDT UL reported by UEs.

**Agreements:**

**The presence of COT percentage UL in F1 is optional.**

Continue to discuss on the addition to RLF report of information determining the outcome of the channel access procedure, with focus on EDT UL.

FFS on whether to enable a UE-based solution or a NW-based solution to inform the source gNB of a handover about DL LBT issues occurring at the target gNB, during a handover execution.

Continue to discuss on the need for reporting EDT UL over F1.

Continue to discuss on additional load metrics for NR-U.

#### 10.2.6 MDT Enhancements

**R3-231711 (TPs for MDT BLCRs for TS 38.413)MDT Enhancements**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231744 (TP for MDT BL CR for TS 38.413): Signalling based immediate MDT in NR-DC**

*Type: other For: (not specified)  
 Source: Huawei, Deutsche Telekom, Orange, China Telecom, CMCC*

**Decision:** The document was **noted**.

**# SONMDT6\_MDT**

**- Priority handling for signalling logged MDT configuration between different RAT type?**

**- Cross-RAT logged MDT reporting?**

**- Signalling based immediate MDT in NR-DC?**

**- Check details of TPs**

**R3-231873 CB: # SONMDT6\_MDT- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

LS to SA5 on MDT measurements collection in MR-DC in [R3-231995](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231995.zip) rev in [R3-232070](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232070.zip)

**R3-231995 LS on MDT measurements collection in MR-DC**

*Type: LS out For: Agreement  
 to SA5  
 Source: Huawei*

**Decision:** The document was **revised to R3-232070**.

**R3-232070 LS on MDT measurements collection in MR-DC**

*Type: LS out For: Agreement  
 to SA5  
 Source: Huawei*

(Replaces R3-231995)

**Decision:** The document was **agreed**.

**Agreements:**

**RAN3 confirms that the scenarios for inter-RAT signalling based logged MDT protection includes the following:**

**Scenario 1: Inter-system inter-RAT: EPC –> 5GC**

**Scenario 2: Intra-system Inter-RAT and intra-5GC: LTE –> NR**

**RAN3 confirms that NR requested M-based logged MDT should never override LTE s-based logged MDT.**

OAM provides an LTE S-based logged MDT protection indicator to gNB and cause value on NGAP for NR Signalling based logged MDT failure indication?

No consensus.

### 10.3 Others

## 11 Enhancement on NR QoE WI (RAN3-led)

WID [NR\_QoE\_enh]: [RP-223488](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223488.zip) (target: RAN #102) [TU: 1 (**1**, 1, 1, 1)]

### 11.1 General

**R3-231130 (BLCR) Enhancement on NR QoE**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0267 rev 3 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-230061)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231131 (BLCR) Enhancement on NR QoE**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1070 rev 4 Cat: B (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces R3-231054)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231132 (BLCR to 38.300) for QoE Enh**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: China Unicom*

(Replaces R3-231055)

**Abstract:**

Baseline CR

**Discussion:**

Update the text based on the latest spec.

**Decision:** The document was **revised to R3-231945**.

**R3-231945 (BLCR to 38.300) for QoE Enh**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: China Unicom*

(Replaces R3-231132)

**Discussion:**

Endorsed unseen

**Decision:** The document was **endorsed**.

**R3-231827 Update Workplan for Rel-18 NR QoE Enhancement**

*Type: Work Plan For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **noted**.

**R3-231110 LS on Continuity of QoE measurements during intra-5GC inter-RAT HO**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302020, to RAN3, SA4, cc -  
 Source: RAN2, Huawei*

**Decision:** The document was **noted**.

**R3-231422 Discussion on QoE measurement during intra-5GC inter-RAT handover**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231763 Discussion on the support of QoE continuity during intra-5GC inter RAT handover**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231764 [draft] Reply LS to LS on Continuity of QoE measurements during intra-5GC inter-RAT HO**

*Type: LS out For: (not specified)  
 to RAN2, cc SA4  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231775 Dicussion on the LS from RAN2 about QoE continuity in intra-5GC inter-RAT HO**

*Type: discussion For: Discussion  
 Source: ZTE*

**Decision:** The document was **noted**.

**# QoE1\_BLCR\_RAN2LS**

**- Endorse BL CRs if no comments raised**

**- Check work plan, revise** [**R3-231827**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231827.zip) **if needed**

**- Check the progress in** [**R3-231110**](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231110.zip)**, identify possible impact on RAN3, reply LS?**

**R3-231874 CB: # QoE1\_BLCR\_RAN2LS - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: China Unicom - moderator*

**Abstract:**

[NWM] Summary of offline discussion

**Decision:** The document was **noted**.

Check R3-231110, LS for inter-RAT from RAN2:

**WA: For HO from LTE/5GC to NR, there is no impacts to RAN3.**

**To be discussed in next meeting:**

**For HO from NR to LTE/5GC case, identify the impact on RAN3**

The LS reply to RAN2 can be sent when RAN3 have a clear conclusion.

### 11.2 Support for New Service Type and RRC\_INACTIVE/RRC\_IDLE states

**R3-231120 Reply LS on QoE measurements in RRC IDLE/INACTIVE states**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-232760, to RAN2, RAN3, cc SA4  
 Source: SA5, Huawei*

**Decision:** The document was **noted**.

**R3-231216 Remaining open issues on QMC for MBS and RRC state**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231318 Discussion on NR QoE in RRC\_INACTIVE/RRC\_IDLE states**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231344 QMC in RRC\_INACTIVE and RRC\_IDLE for MBS broadcast service**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231345 QoE enhancements for high mobility scenarios**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231429 Discussion on QoE measurement in RRC\_INACTIVE and RRC\_IDLE states**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231430 (TP to 38.423 & 38.420) Support of QoE measurement in RRC\_INACTIVE**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231486 QoE and RVQoE Measurement Support for MBS**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231487 QMC in HSDN Cells and High Mobility Scenarios**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231518 QoE configuration and reporting in RRC\_INACTIVE RRC\_IDLE states**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231519 Discussion on QoE in high mobility scenario**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231624 Information required for MBS BC QMC**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Orange*

**Decision:** The document was **noted**.

**R3-231625 QMC support for high mobility scenarios**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231768 [draft] Reply LS to Reply LS on QoE measurements in RRC IDLE/INACTIVE states**

*Type: LS out For: (not specified)  
 to SA5, RAN2, cc SA4  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231769 TP for 38300 BL CR on INACTIVE IDLE QoE new service types and high speed scenario**

*Type: other For: Approval  
 38.300 v..  
 Source: ZTE, CMCC*

**Decision:** The document was **revised to R3-232072**.

**R3-232072 TP for 38300 BL CR on INACTIVE IDLE QoE new service types and high speed scenario**

*Type: other For: Approval  
 38.300 v..  
 Source: ZTE, CMCC*

(Replaces R3-231769)

**Decision:** The document was **revised to R3-232160**.

**R3-232160 TP to BL CRs for TS 38.300 for INACTIVE/IDLE QoE, new service types, and high mobility scenario**

*Type: other For: Approval  
 38.300 v..  
 Source: ZTE, CMCC, Huawei, China Telecom, China Unicom*

(Replaces R3-232072)

**Decision:** The document was **agreed**.

**R3-231770 Discussion on SA4 reply LS with draft reply LS**

*Type: discussion For: Approval  
 Source: ZTE, CMCC, China Unicom*

**Decision:** The document was **noted**.

**R3-231771 Discussion on IDLE NACTIVE QoE and high mobility scenario**

*Type: discussion For: Approval  
 Source: ZTE, CMCC*

**Decision:** The document was **noted**.

**R3-231819 Further discussions on the support of MBS QoE**

*Type: discussion For: Discussion  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231820 (TP for NR\_QoE BL CR for 38.300) on QoE measurement enhancements**

*Type: other For: Approval  
 38.300 v..  
 Source: Huawei, China Telecom, China Unicom*

**Decision:** The document was **merged**.

**R3-231821 CR to 38.413 on the introduction of R18 QoE measurement**

*Type: CR For: Approval  
 38.413 v17.4.0 CR-0984 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, China Unicom*

**Decision:** The document was **revised to R3-232071**.

**R3-232071 CR to 38.413 on the introduction of R18 QoE measurement**

*Type: CR For: Approval  
 38.413 v17.4.0 CR-0984 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, China Unicom*

(Replaces R3-231821)

**Discussion:**

endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231828 Discussion on QoE measurement in RRC\_INACTIVE and RRC\_IDLE states**

*Type: discussion For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **noted**.

**R3-231829 Discussion on QoE measurement for high mobility scenarios**

*Type: discussion For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **noted**.

**# QoE2\_InactiveIdle**

**- Which QoE configuration shall be available at new gNB side for IDLE MBS(BC) QoE after UE re-connects to NW.**

**- Whether m-based MBS QoE can override s-based QoE at new gNB side.**

**- Whether to support RVQoE/MDT alignment/ NW slicing for non-connected QoE.**

**- Whether to introduce HSDN indicator and/or high mobility only indicator for high mobility scenario.**

**- How to enhance MBS QoE configuration by adding any of the MBS related info.**

**- Capture agreements and open issues**

**- Provide TPs if agreeable**

**R3-231875 CB: # QoE2\_InactiveIdle- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231946**.

**R3-231946 CB: # QoE2\_InactiveIdle- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

(Replaces R3-231875)

**Decision:** The document was **revised to R3-232150**.

**R3-232150 CB: # QoE2\_InactiveIdle- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

(Replaces R3-231946)

**Decision:** The document was **noted**.

LS to SA5 on OAM awareness of MBS service area and MBS session ID in [R3-232079](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232079.zip)

**R3-232079 LS on OAM awareness of MBS service area and MBS session ID**

*Type: LS out For: Agreement  
 to SA5  
 Source: Huawei*

**Decision:** The document was **agreed**.

**Agreements:**

**AR/MR will be supported as new service type and take R17 legacy QoE mechanism as baseline, pending on SA4’s further progress in R18.**

MBS is a communication delivery method.

ERICSSON: SA said MBS is a communication service

ZTE: Can be discussed together with p1

**WA: RVQoE measurement is not supported in RRC\_IDLE/INACTIVE state.**

**RAN3 continue to study whether support RVQoE measurement in RRC\_CONNECTED state.**

Xiaomi, Samsung:Support RVQoE measurement in RRC\_CONNECTED state needs to be continued.

Samsung, ZTE: For WA, it is pending to RAN2 progress

**Agreements:**

**Configuration container need not to be provided to the new gNB for MBS broadcast service.**

Xiaomi, Nokia: The area scope and slice scope are also not needed

HUAWEI: The proposal is still controversial

ERICSSON: Why the area scope and slice scope are not needed?

WA: The following QoE configuration related information for MBS broadcast service should be available in the new gNB:

- QoE measurement type (indicating it is signaling based or management based QoE measurement)

- RRC level ID (measConfigAppLayerID)

**Agreements:**

**RRC level ID (measConfigAppLayerID) for MBS broadcast service should be available in the new gNB.**

ERICSSON: Add available RVQoE metrics for MBS

QUALCOMM, ZTE: Discuss whether QoE reference can be the same for signaling based and management based QoE, check with SA5

Xiaomi: Agree to add available RVQoE metrics for MBS. Why we need RRC level ID?

ZTE: Check with SA4 and SA5, the requirement comes from them

HUAWEI: Disagree with ERICSSON

**Agreements:**

**For MBS QoE, an M-based QoE configuration shall not overwrite the S-based QoE configuration stored at the UE by the new gNB.**

QUALCOMM: Not sure whether it is a valid scenario

ERICSSON, Lenovo: What’s the purpose of this proposal? We do not need this proposal.

Samsung, Nokia: It’s not related to global unique QoE reference ID

**Whether to support UE-based solution or CN-based solution should take into account the final agreed set of information needed in the new gNB, as well as other factors.**

**To be continue:**

**FFS if we support only other services running over MBS bearer, or MBS can be treated as a new service type alone.**

**FFS whether to support some selection policies to better report/discard reports in case of limited storage space**

**Agreements:**

**QoE measurement type (s-based or m-based measurement) for MBS broadcast service should be available in the gNB serving the UE after the transition from RRC\_IDLE to RRC\_CONNECTED.**

**RAN3 first focus on supporting the following scenario QMC:**

* **QoE measurement collection and reporting when the UE is in HSDN cells**

**For confining the QoE measurements to HSDN cells, RAN3 to choose between the HSDN-wide indication, existing area scope and other possible enhancements if needed.**

**For supporting QMC in high mobility scenarios, RAN3 to determine the meaning of “high mobility”.**

### 11.3 Support QoE for NR-DC

**R3-231217 Remaining open issues on support of NR-DC**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231319 Discussion on Support for legacy QoE in NR-DC**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231320 Discussion on Support for RV-QoE in NR-DC**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231346 Support for QoE in NR-DC**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231431 Discussion on QoE measurement in NR-DC**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231488 (TP for QoE BL CR for TS 38.300) QoE and RVQoE Measurements and Reporting in NR-DC Scenarios**

*Type: other For: Agreement  
 Source: Ericsson*

**Decision:** The document was **revised to R3-232035**.

**R3-232035 (TP for QoE BL CR for TS 38.300) QoE and RVQoE Measurements and Reporting in NR-DC Scenarios**

*Type: other For: Agreement  
 Source: Ericsson*

(Replaces R3-231488)

**Decision:** The document was **noted**.

**R3-231520 Discussion on QoE configuration and reporting in NR-DC**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231626 Further discussion on SN-triggered m-based QMC**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231776 Further Consideration on QoE in NR-DC**

*Type: discussion For: Discussion  
 Source: ZTE, China Telecom, CMCC*

**Decision:** The document was **noted**.

**R3-231777 Dicussion on MDT alignment and mobility in NR-DC**

*Type: discussion For: Discussion  
 Source: ZTE, China Telecom*

**Decision:** The document was **noted**.

**R3-231778 TPs to BL CR of 38.401 and BL CR of 38.423 on NR QoE**

*Type: other For: Agreement  
 Source: ZTE, China Telecom*

**Decision:** The document was **noted**.

**R3-231818 Further discussions on the support for QoE in NR-DC**

*Type: discussion For: Decision  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231830 Further discussion on QoE measurement in NR-DC**

*Type: discussion For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **noted**.

**# QoE3\_NR-DC**

**- Discussion on procedure enhancement: SN initiated procedure: reuse legacy procedures or define new XnAP procedures? MN initiated procedure: legacy procedures or new procedures? class-1 or class-2 procedures? Discuss the content in the messages?**

**- RRC id allocation: MN transfers the allocated RRC id per configuration to the SN? Or MN notifies the split pool to SN?**

**- Which node to send the reporting leg indication? Explicitly or implicitly? Common or different indication for the reporting leg of QoE and RVQoE?**

**- How the SN generated RVQoE configuration is sent to UE? Directly or via MN? Whether MN can modify the configuration generated by SN?**

**- The node that sends the RVQoE configuration and legacy QoE configuration should be the same, or can be different?**

**- The node that receives QoE reports and the corresponding RVQoE reports should be the same, or can be different?**

**- Discuss the procedure for transferring RVQoE report over Xn?**

**- Both MN and SN can provide the MDT measurement results for alignment with QoE? should the MDT provided by MN and SN be the same MDT?**

**- Discuss the cases which need to support QoE continuity in NR-DC, e.g., SN change, SN release, SCG failure?**

**- Capture agreements and open issues**

**- Provide TPs if agreeable**

**R3-231876 CB: # QoE3\_NR-DC- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231947**.

**R3-231947 CB: # QoE3\_NR-DC- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

(Replaces R3-231876)

**Decision:** The document was **noted**.

(draftCR TS 38.300) QoE and RVQoE Measurements and Reporting in NR-DC Scenarios in [R3-231919](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231919.zip)

**R3-231919 (draftCR TS 38.300) QoE and RVQoE Measurements and Reporting in NR-DC Scenarios**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: Ericsson*

**Decision:** The document was **noted**.

**Agreements:**

**The information used by the SN to express to the MN its interest in configuring a UE with an m-based QoE and RVQoE measurement configuration, shall contain the QoE reference.**

Support the following scenarios for m-based QoE/RVQoE configuration:

* The SN wants to configure the UE by using SRB3.
* The SN wants to configure the UE, by tunneling the configuration via SRB1.

HUAWEI: Need further check on SRB3

ZTE: Disagree with HW

QUALCOMM: MN should only be involved in coordination

Samsung: Whether there has the possibility that SN sends the configuration to UE via SIB1

**Agreements:**

**Support the following scenarios for m-based QoE configuration received in the SN:**

**The SN wants to configure the UE by using SRB3.**

**The SN wants to configure the UE, by sending the configuration in a transparent container to the MN, which then sends it to the UE via SRB1.**

**Discuss which parameters the SN needs to indicate to the MN, to express its interest in configuring a UE with an m-based QoE measurement and the corresponding RVQoE measurement.**

**The MN and the SN coordinate the RRC ID allocation for m-based QoE measurements to be configured at a UE, on a per-QoE reference basis.**

**When the MN approves that the SN configures the UE with a certain m-based QoE configuration, the MN assigns an RRC ID for this m-based QoE configuration and indicates it to the SN.**

**When SN indicates its interest in configuring m-based QoE a measurement to a UE:**

**The SN can indicate to the MN that the reports are to be sent via the SRB5.**

**The SN can request the use of the SRB4 for reporting, which the MN can confirm or reject. FFS whether the indication is explicit or implicit.**

**The network can explicitly instruct a UE in NR-DC to switch the reporting leg.**

**Proposal 4-2: Discuss whether the reporting leg switch is per QoE reference.**

Nokia: Do we need 4-2? It has been covered by 5-1.

ERICSSON: UE may be configured from different nodes

**The leg switching command can be sent to the UE by the node that configured that specific QoE configuration.**

**FFS how to handle the maintenance of QoE configuration after SN release, after mobility for an NR-DC UE and after the change from NR-DC to single connectivity.**

**The node that currently receives the QoE reports via the Uu can send a request to the peer node, asking that the QoE reporting leg is switched to the peer node.**

**The leg switch for QoE reporting needs to be approved by both nodes serving the UE.**

**If the SN is asked by the MN to forward to the MCE the QoE reports pertaining to a measurement configured by the MN, the MN should indicate to the SN the QoE Reference, the MCE IP Address and the RRC ID.**

**If the MN is asked by the SN to forward to the MCE the QoE reports pertaining to a measurement configured by the SN, the SN should indicate to the MN the QoE Reference and the MCE IP Address.**

**As the baseline, QoE reports and RVQoE reports pertaining to the same QoE reference can be sent over the same leg.**

**WA: QoE reports and RVQoE reports pertaining to the same QoE reference can be sent over different legs.**

**If the SRB5 is not configured, the RVQoE reports can be sent on the SRB4 from the UE via the MN to the SN.**

**FFS on whether the node that determined that its peer node provides the bearer(s) for a session should inquire the peer node whether the peer node is interested in receiving the RVQoE reports.**

**FFS whether, in a UE in NR-DC, each QoE configuration can have more than one corresponding RVQoE configuration.**

**Discuss coordination about RVQoE configuration between MN and SN in NR-DC**

**FFS how to handle the maintenance of RVQoE configuration after SN release, after mobility for an NR-DC UE and after the change from NR-DC to single connectivity.**

**For UEs in NR-DC, the node that configured the UE with a QoE measurement configuration can generate the corresponding RVQoE measurement configuration.**

**The node that has initially configured a UE in NR-DC with an RVQoE configuration can modify and release the RVQoE configuration as long as this node serves the UE.**

**The SN can send an RVQoE configuration directly to UE via SRB3 or in a transparent container to the MN, which then sends it to the UE via SRB1.**

**Consider the QoE measurement reporting for NR-DC in following scenarios:**

**SCG failure scenario.**

**SN release scenario.**

**RAN overload scenario.**

**QMC continuity during mobility in NR-DC should be discussed after the baseline solution for QMC in NR-DC is in place.**

### 11.4 Left-over from R17

**R3-231111 LS on buffer level threshold-based RVQoE reporting**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302042, to SA4, cc RAN3  
 Source: RAN2, Apple*

**Decision:** The document was **noted**.

**R3-231123 LS on Approval of eQoE CRs for NR**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-232997, to RAN2, RAN3, SA4, CT1, CT4, cc -  
 Source: SA5, Ericsson*

**Decision:** The document was **noted**.

**R3-231321 Discussion on Left-over issues**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231347 Enhancements to RAN visible QoE**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231489 (TP for QoE BL CR for TS 38.473) Enhancements of Rel-17 QoE and RVQoE Features**

*Type: other For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231521 Discussion on RVQoE information (TP to BL CR TS 38.473 Enhancement on NR QoE)**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231627 (TP for BL CR to TS 38.473) Deactivation of RAN visible QoE information transfer via F1**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231762 Further discussion on the support of R17 left-over features**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231779 Discussion on left-over issues from R17**

*Type: discussion For: Discussion  
 Source: ZTE, China Unicom, China Telecom*

**Decision:** The document was **noted**.

**R3-231780 TP to BL CR of 38.473 on NR QoE enhancement**

*Type: other For: Agreement  
 38.473 v..  
 Source: ZTE, China Unicom, China Telecom*

**Decision:** The document was **noted**.

**R3-231831 Further discussion on assistance information when RAN overload**

*Type: discussion For: (not specified)  
 Source: China Unicom*

**Decision:** The document was **noted**.

**# QoE4\_Others**

**- Check the incoming LSs**

**- Whether to introduce threshold-based trigger, event-based triggers for RVQoE?**

**- Discuss the procedures for DU participation in deactivation of QoE reporting over F1, e.g., class-1 or class 2, to reuse legacy procedure or to define a new procedure?**

**- Whether DU can participate in assembling RVQoE configuration?**

**- Discuss the details of assistance information, e.g. priorities per QoE configuration? Types or characteristics of the consumers?**

**- Proceed to TP(s) if agreeable**

**R3-231877 CB: # QoE4\_Others- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232046**.

**R3-232046 CB: # QoE4\_Others- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

(Replaces R3-231877)

**Decision:** The document was **noted**.

LS to SA5 on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload in [R3-232047](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232047.zip)

**The assistance information can be introduced only when the clear definition is defined.**

LS to RAN2 on threshold-based triggers and event-based triggers for RAN Visible QoE report in [R3-232146](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232146.zip)

Triggers for RVQoE reporting

**Agreements:**

**Radio-related event triggers for RVQoE reporting is not supported in Rel-18.**

**If a UE is configured with periodic RVQoE reporting that automatically starts at the beginning of the application session or immediately upon reception of RVQoE configuration, it cannot be configured with a threshold-based trigger at the same time.**

**Discuss whether threshold-based buffer level reporting starts: i) when buffer level is greater than a threshold or ii) when buffer level is below a threshold or iii) when buffer level is between two thresholds.**

**RAN3 should discuss how the UE should send the RVQoE reports after the threshold is met, e.g., the following options:**

**Option 1: Just once (after receiving this RVQoE report, gNB might reconfigure this threshold value to get additional reports)**

**Option 2: Periodically based on a gNB configured reporting periodicity**

**Option 3: A certain number of times based on gNB configured report amount**

**Further discuss whether to introduce TTT(time to trigger) for threshold-based triggers.**

DU participation

**WA: A class-2 procedure is used for DU to deactivate the RVQoE reporting over F1AP.**

**Further discuss the details of the procedure used for RVQoE deactivation over F1, e.g., legacy or new procedure, UE associated or non-UE associated signaling.**

**Whether the deactivation of RVQoE reporting over F1 is performed per RVQoE configuration or not.**

**Clarify whether the DU triggered deactivation of RVQoE reporting over F1 pertains only to the present application session.**

**Further discuss and clarify the necessity of DU participation in assembling RVQoE configuration.**

**R3-232047 LS on the feasibility of introducing assistance information for handling of QoE reporting during RAN overload**

*Type: LS out For: Agreement  
 to SA5, cc RAN2  
 Source: ZTE*

**Decision:** The document was **agreed**.

**R3-232146 LS to RAN2 on threshold-based triggers and event-based triggers for RAN Visible QoE report**

*Type: LS out For: Agreement  
 to RAN2  
 Source: RAN3(Qualcomm)*

**Decision:** The document was **withdrawn**.

## 12 AI/ML for NG-RAN WI (RAN3-led)

WID [NR\_AIML\_NGRAN-Core]: [RP-220635](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_95e/Docs/RP-220635.zip) (target: RAN #100) [TU: 2 (**2**, 2)]

### 12.1 General

**R3-231133 (BLCR to 38.423) for AI/ML for NG-RAN**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0959 rev 4 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-231042)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231134 CR to TS 38.401 for addition of AI/ML-RAN feature in the case of split architecture**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0265 rev 5 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Lenovo, Huawei, Samsung, Intel Corporation, CMCC*

(Replaces R3-230058)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231135 (BLCR) Draft CR to 38.300 on AI/ML for NG-RAN**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: CMCC, ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, CATT, Samsung, Lenovo, Intel Corporation*

(Replaces R3-230060)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

### 12.2 Data Collection Enhancements and Signaling Support

#### 12.2.1 Stage2 Related

**R3-231615 (TP for AI/ML BLCR to TS38.300) Characteristics of the procedures for exchanging AI/ML-related information**

*Type: other For: (not specified)  
 Source: Ericsson, InterDigital*

**Decision:** The document was **noted**.

**R3-231655 (TP for TS 38.300) AI/ML General Aspects**

*Type: other For: (not specified)  
 38.300 v..  
 Source: Nokia, Nokia Shanghai Bell, Orange*

**Decision:** The document was **noted**.

**R3-231797 (TP for AIML BLCR to TS38.300) Stage 2 updates on the new procedures of AIML for RAN**

*Type: discussion For: Discussion  
 Source: CMCC, CATT*

**Decision:** The document was **noted**.

**R3-231822 (TP for AI&ML BLCR for TS 38.300) Further discussions on common issues and Stage 2 updates on the introduction of RAN AI/ML**

*Type: other For: Approval  
 38.300 v..  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231823 Further discussions on remaining common open isses for the introduction of RAN AIML**

*Type: discussion For: Decision  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231841 (TP to BLCR for 38.300) Further discussion on AIML RAN function**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**# AIRAN1\_Stage2**

**- Turn WA to agreement?**

**- Capture agreements to TS38.300?**

**R3-231878 CB: # AIRAN1\_Stage2- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: CMCC - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232122**.

**R3-232122 CB: # AIRAN1\_Stage2- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: CMCC - moderator*

(Replaces R3-231878)

**Decision:** The document was **noted**.

 (TP for AIML BLCR to TS38.300) Stage 2 updates on the new procedures of AIML for RAN in [R3-232125](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232125.zip)

**Agreements:**

**Procedures used for AI/ML support in the NG-RAN shall be “data type agnostic”, which means that the intended use of the data (e.g., input, output, feedback) shall not be indicated.**

ZTE: In the future, if there has the possibility to request the report immediately or later after the event, how to handle this case?

**Agreements:**

**The requested prediction time is configured in the AI/ML INFORMATION REQUEST for one-time reporting.**

**Requested prediction time: time in the future for which the prediction information is requested in the AI/ML INFORMATION REQUEST.**

**FFS whether the Requested Prediction time consists of a time interval.**

**For periodic reporting, the requested prediction time is explicitly signalled. The details need to be further discussed.**

Samsung, ZTE, Nokia, Lenovo, Qualcomm, CATT: Remove e.g. part

Ericsson: Keep e.g. part

**R3-232125 (TP for AIML BLCR to TS38.300) Stage 2 updates on the new procedures of AIML for RAN**

*Type: other For: Agreement  
 Source: CMCC, CATT, Nokia, Nokia Shanghai Bell, Lenovo, Ericsson, Huawei, Samsung*

**Decision:** The document was **noted**.

#### 12.2.2 Stage3 Related

##### 12.2.2.1 LB and Xn procedures

**R3-231205 Discussion on Xn impact of LB**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231209 TP to 38.423 for partial reporting of AI/ML information**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231260 Feedback for NG-RAN AI-ML**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231378 AIML Load balancing**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231433 Discussion on prediction accuracy and time information**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231434 Discussion on UE performance feedback collection**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231465 Discussion on partial success and validity time**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231469 (TP for 38.423) Updates on non-UE associated messages to support AI/ML**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231515 Discussion on validity time and prediction accuracy**

*Type: discussion For: Decision  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231602 AI-ML Event triggered UE performance reporting**

*Type: discussion For: (not specified)  
 Source: Ericsson, InterDigital, Deutsche Telekom*

**Decision:** The document was **noted**.

**R3-231603 (TP for AI/ML BLCR to TS 38.423) AI-ML Event triggered UE performance reporting**

*Type: other For: (not specified)  
 Source: Ericsson, InterDigital, Deutsche Telekom*

**Decision:** The document was **noted**.

**R3-231616 (TP for AI/ML BLCR to TS38.423) Partial success for the AI-ML Assistance Data Reporting procedure**

*Type: other For: (not specified)  
 Source: Ericsson, InterDigital*

**Decision:** The document was **noted**.

**R3-231656 (TP for TS 38.423) LB and AI/ML Information Exchange over Xn**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231680 Further discussion on remaining issues on procedures for AI**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231681 (TP to 38.423 and 38.420) AIRAN impact on Xn Interface**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231795 Discussion on AIML UE performance feedback**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231796 (TP for 38.423)Procedure for AIML related Information**

*Type: other For: Approval  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231798 Remaining issues on predicted information**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231259 Xn enhancements for NG-RAN AI-ML**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Discussion:**

Move to 12.2.2.1

**Decision:** The document was **noted**.

**R3-231432 Miscellaneous Xn interface issues**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Discussion:**

Move to 12.2.2.1

**Decision:** The document was **noted**.

**R3-231824 (TP for AIML BLCR for TS 38.423) Remaining open issues for load balancing**

*Type: other For: Approval  
 38.423 v..  
 Source: Huawei*

**Discussion:**

Move to 12.2.2.1

**Decision:** The document was **noted**.

**R3-231620 (TP for AI/ML BLCR to TS38.423) AI-ML Threshold Based Events**

*Type: other For: (not specified)  
 Source: Ericsson*

**Discussion:**

Move to 12.2.2.1

**Decision:** The document was **noted**.

**# AIRAN2\_LB**

**- How to support partial reporting mechanisms?**

**- Whether the indication that an indication in the new agreed request message that UE performance feedback is provided after handover event is in implicit or explicit way?**

**- The details of the trigger indication in the HO request message to indicate that UE performance feedback is requested after HO completion?**

**- The structure of UE performance feedback IE, and whether the UE performance feedback is reported by one-time or periodically?**

**- Discuss how to support validity**

**- Capture agreements and open issues**

**- Provide TP if agreeable**

**R3-231879 CB: # AIRAN2\_LB- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232023**.

**R3-232023 CB: # AIRAN2\_LB- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

(Replaces R3-231879)

**Decision:** The document was **noted**.

(TP to 38.423) AIRAN Impact on Xn Interface in [R3-232120](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232120.zip)

**R3-232120 (TP to 38.423) AIRAN Impact on Xn Interface**

*Type: other For: Agreement  
 Source: ZTE, Ericsson, Qualcomm Incorporated*

**Discussion:**

In 8.4.aa.2, put “FFS on the details of the Predicted Radio Resource Status IE.”

Together with NG-RAN node2 Measurement ID, identifies an AI/ML information reporting (name is FFS) context.

UE Assistant Identifier (FFS on the details)

Introduce a new IE to cover two measurement IDs

**Decision:** The document was **revised to R3-232148**.

**R3-232148 (TP to 38.423) AIRAN Impact on Xn Interface**

*Type: other For: Agreement  
 Source: ZTE, Ericsson, Qualcomm Incorporated*

(Replaces R3-232120)

**Decision:** The document was **agreed**.

Nokia: it’s FFS whether a new IE needs to be introduced.

The impact on procedures for HO-ed performance:

**Agreements:**

**No additional explicit indication is required in the AI/ML INFORMATION REQUEST message that UE performance feedback is provided after handover if UE performance feedback is only considered as feedback.**

ERICSSON: How do we configure information specific for different event？

ZTE: The requesting node can configure the objectives separately, no need to introduce event ID

QUALCOMM: Configure two different measurements, the measurement ID will be included in HO request

Nokia: Agree with QUALCOMM’s explanation on the feasibility to do this

HUAWEI: Share the same view as QUALCOMM and Nok

CATT: Using the report characteristic IE to list all the measurements requested in HO request

**Agreements:**

**Introduce the pair Measurement ID (e.g., NG-RAN node1 Measurement ID and NG-RAN node2 Measurement ID) in the HO request message, to establish relationship with the AI/ML INFORMATION REQUEST message. Any additional information to be added can be further discussed.**

ERICSSON, Interdigital: Leave p2 as open issue

**Discuss whether UE performance can be used as both input or feedback first.**

The structure of UE performance feedback IE:

**Agreements:**

**A list of UE performance feedbacks is introduced into the AI/ML INFORMATION UPDATE message.**

**UE performance feedback can be reported through one-time reporting or periodic reporting.**

Partial Reporting mechanisms:

**WA: Introduce an indicator (to indicate that whether the target node is allowed to report partially or not) in the AI/ML INFORMATION REQUEST message, that indicate partial reporting is allowed or not allowed?**

Nokia: 3 alternatives were discussed

ZTE: Alt2 is kind of optimization on the top of Alt1

CATT: Alt1 and Alt2 are not the basic mechanism

HUAWEI: We have different alternatives to be further discussed

Samsung: Alt2 is an optimization based on Alt1

ERICSSON, ZTE: Majority prefers to have Alt1, the indicator is simply to say that the target node is allowed to report partially or not

Huawei, Nokia: Prefer Alt3

**Agreements:**

**Introduce the failed measurement in the response message to indicate partial reporting result. The successful measurement list and failure cause need to be further discussed.**

Samsung: Successful list can be included, but fine to accept failure list. What’s the source node can do with failure cause?

ERICSSON: The cause value can tell the source node whether the failure is due to temporary reason

ZTE: Fine to go for failure measurement list

CATT: Successful measurement list can be included as well as other procedures

Timing information:

**Proposal 8: Include timing information for predictions in the request message is to specify the time window of the requested prediction, whether it includes the prediction time and validity time.**

Lenovo: What’s the definition of prediction time and validity time window

**To be continued:**

**For periodic reporting, discuss if requested prediction time and validity time are explicitly or implicitly signalled (e.g. by means of the reporting period).**

**The details of the timing information, e.g., validity time, requested time, etc.**

**FFS on whether the timing information can be used for other measurements.**

Accuracy:

**No consensus on whether the accuracy information is necessary to transfer between requested node and requesting node.**

**Agreements:**

**Stop the discussion on Predicted TNL capacity indicator, predicted slice available capacity, predicted composite available capacity in R18.**

**Down-select the following options:**

* **Option 1: Introduce the indicator in the request message that informs the requested node if the partial reporting is allowed or not allowed.**
* **Option 2: Introduce the characteristic bitmap in the request message that informs the requested node which measurements must be reported.**
* **Option 3: No explicit IE in the request message.**

##### 12.2.2.2 ME and Xn procedures

**R3-231206 Discussion on Xn impact of ME**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231376 AIML Mobility Enhancement**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231435 Discussion on future UE trajectory collection**

*Type: discussion For: (not specified)  
 Source: Lenovo, Intel Corporation, ZTE*

**Decision:** The document was **noted**.

**R3-231436 (TP for TS38.423) on future UE trajectory collection**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231467 Discussion on XnAP impacts of AI/ML for UE associated metrics**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231468 (TP for 38.423) Support of AI/ML based mobility optimization**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231514 Discussion on AI/ML based mobility optimization**

*Type: discussion For: Decision  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231538 Mobility Optimization Outputs**

*Type: discussion For: Decision  
 Source: InterDigital*

**Decision:** The document was **noted**.

**R3-231539 (TP for AIML BLCR for TS 38.423) Mobility Optimization Outputs**

*Type: other For: Agreement  
 Source: InterDigital Finland Oy*

**Decision:** The document was **noted**.

**R3-231608 Cell based UE trajectory prediction exchange**

*Type: discussion For: (not specified)  
 Source: Ericsson, InterDigital, Qualcomm*

**Decision:** The document was **noted**.

**R3-231609 (TP for AIML BLCR for TS 38.423) Cell based UE trajectory prediction exchange**

*Type: other For: (not specified)  
 Source: Ericsson, InterDigital, Qualcomm*

**Decision:** The document was **noted**.

**R3-231619 Open points on validity time and prediction accuracy**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231650 Discussion on cell based UE trajectory prediction**

*Type: discussion For: (not specified)  
 Source: LG Electronics Inc.*

**Decision:** The document was **noted**.

**R3-231651 (TP for NR\_AIML\_NGRAN-Core BL CR for TS 38.423) Discussion on cell based UE trajectory prediction**

*Type: other For: (not specified)  
 Source: LG Electronics Inc.*

**Decision:** The document was **noted**.

**R3-231657 (TP for TS 38.423) AI/ML Mobility Optimization**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231658 (TP for TS 38.423) Cell-based UE Trajectory Prediction**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231683 Discussion on left issues of AI based mobility optimization**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231799 On Predicted UE Trajectory Information**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231825 (TP for AIML BLCR for TS 38.423) Remaining open issues for mobility enhancements**

*Type: other For: Approval  
 38.423 v..  
 Source: Huawei*

**Discussion:**

Move to 12.2.2.2

**Decision:** The document was **noted**.

**# AIRAN3\_ME**

**- The presence of time stay of UE, optional or mandatory?**

**- Whether predicted UE Trajectory spans across multiple NG-RAN nodes?**

**- Whether the actual UE trajectory is needed between NG-RAN node, the details of the solution.**

**- Capture agreements and open issues**

**- Provide TP if agreeable**

**R3-231880 CB: # AIRAN3\_ME- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: NEC - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232026**.

**R3-232026 CB: # AIRAN3\_ME- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: NEC - moderator*

(Replaces R3-231880)

**Decision:** The document was **noted**.

Propose the following:

The presence of time stay of UE, optional or mandatory is FFS.

**Agreements:**

**Predicted UE Trajectory conveyed in the Handover Request can span across multiple NG-RAN nodes.**

ZTE: Two parts here: one is whether and how to collect the UE Trajectory across multiple NG-RAN nodes for training/inference, the other one is transfer the predicted UE Trajectory across multiple NG-RAN nodes

To support an AI model for UE trajectory prediction in other NG-RAN node(s), the source NG-RAN node needs to understand the actual (relevant) UE trajectory in the other NG-RAN node(s), and it is upon implementation if it is used for training/monitoring/etc. It needs to be further discussed if the actual trajectory consists of historical information obtained before the prediction is generated or trajectory measurements collected after the prediction is generated.

**The source NG-RAN cannot collect actual UE trajectory in the future from multiple NG-RAN nodes.**

**In R18, collecting actual UE trajectory feedback at the source node from multiple neighboring NG-RAN nodes is not pressured.**

Nokia, Samsung: Do not need to limit the behavior like this

There is no consensus regarding how the source NG-RAN node understands the actual UE trajectory in the future, either:

Option 1) by means of the UE History Information reported from (other) UEs to the source NG-RAN node. Independent from handover procedure. No specification impacts.

Option 2) by collecting the actual UE trajectory from the target NG-RAN node(s) (FFS whether the format of UHI can be reused) using the agreed class1/2 procedure. Similar as the UE performance collection after handover.

**It is FFS whether the presence of time stay of UE in the predicted UE trajectory information is “Optional” or “mandatory”.**

**Agreements:**

**In Rel\_18, RAN3 will not pursue enhancements for one gNB to request UE trajectory from more than one hop gNBs.**

**Which of the following statements do companies agree?**

* **1) To support an AI model for UE trajectory prediction in other NG-RAN node(s), the source NG-RAN node needs to understand the actual (relevant) UE trajectory in the other NG-RAN node(s), and it is upon implementation if it is used for training/monitoring/etc. It needs to be further discussed if the actual trajectory consists of historical information obtained before the prediction is generated or trajectory measurements collected after the prediction is generated.**
* **2) To support an AI/ML model for UE trajectory prediction of future NG-RAN node(s), the source NG-RAN node needs to receive UE Trajectory Information related to cells in future NG-RAN node(s), and it is up to implementation if it is used for training/monitoring/etc. It needs to be further discussed if the UE Trajectory Information consists of historical information obtained before the prediction is generated or trajectory measurements collected after the prediction is generated.**

ERICSSON: Opt2 is puzzle

Nokia: The prediction information is needed to predict the future UE trajectory

##### 12.2.2.3 ES and Xn procedures

**R3-231207 Discussion on Xn impact of ES**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231210 TP to 38.423 for predicted energy saving strategy exchanging procedure for AI/ML for NG-RAN**

*Type: other For: Approval  
 Source: Samsung, Lenovo*

**Decision:** The document was **noted**.

**R3-231377 AIML Energy Saving**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231437 Discussion on issues related to AI based network energy saving**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231466 Discussion on the EC metric**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231617 AI-ML Network Energy Saving**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231618 (TP for AI/ML BLCR to TS38.423) AI/ML Network Energy Saving Procedures**

*Type: other For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **revised to R3-232092**.

**R3-232092 (TP for AI/ML BLCR to TS38.423) AI/ML Network Energy Saving Procedures**

*Type: other For: -  
 Source: Ericsson*

(Replaces R3-231618)

**Discussion:**

- Add the new IE at the end of the tabular

- Add ZTE as co-source

**Decision:** The document was **revised to R3-232149**.

**R3-232149 (TP for AI/ML BLCR to TS38.423) AI/ML Network Energy Saving Procedures**

*Type: other For: Agreement  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-232092)

**Discussion:**

Energy Cost refers to actual Energy Cost.

Nokia: Be careful to the number of bitmap

Ericsson: Whethere this EC can only be reported after HO needs to be further discussed

**Decision:** The document was **agreed**.

**R3-231659 (TP for TS 38.423) AI/ML Energy Saving Open Aspects**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231682 Further discussion on AIML based energy saving**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231801 Open Issues on AI ML for NG-RAN Energy Saving**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231812 Further discussion for NG-RAN AIML energy saving**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **noted**.

**R3-231826 (TP for AIML BLCR for TS 38.423) Remaining open issues for energy saving**

*Type: other For: Approval  
 38.423 v..  
 Source: Huawei*

**Decision:** The document was **noted**.

**# AIRAN4\_ES**

**- Revisit the current definition of energy cost, and discuss the corresponding feasibility and impacts, the definition of “additional load”**

**- How to support to transfer predicted/current energy cost between NG-RAN nodes?**

**- Capture agreements and open issues, LS to SA5?**

**R3-231881 CB: # AIRAN4\_ES- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232028**.

**R3-232028 CB: # AIRAN4\_ES- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

(Replaces R3-231881)

**Decision:** The document was **noted**.

**Encoding of the Energy Cost metric is FFS.**

**WA: If the Energy Cost is encoded as an index (0, ..Max), representing energy consumption on a linear scale, it is agreed that the OAM configures rules to a NG-RAN node to determine how to normalize the values of the EC. The rules shall be the same at least for all neighboring NG-RAN nodes within the area where a request on EC reporting is triggered by a source NG-RAN node.**

Samsung, CMCC, CATT: We have not agreed to use the encoding as index.

HUAWEI: Have something in this meeting

**It is agreed that the following option will not be pursued:**

**- Inferred EC represents the delta increase of the EC value assuming that an additional load is served; Measured EC represents the actual node level EC value**

Lenovo: Do not agree

To be continued:

Which of the following two options to be selected for inferred and measured EC definition:

1) Inferred EC represents the node level EC value assuming that an additional load is served; Measured EC represents the actual node level EC value, e.g. after an additional load is transferred

2) Inferred EC represents the delta increase of the EC value assuming that an additional load is served; Measured EC represents the delta increase of the EC value after an additional load is transferred

**Agreements:**

**It is agreed that the Energy Cost is a node level parameter. Further EC granularities are out of scope of Rel18.**

The following information are supported for the definition of “Additional Load”:

- Number of RRC connections to be offloaded,

- Number of Active UEs to be offloaded

- PRB load to be offloaded (the definition needs to be discussed further)

- Average UL/DL PDCP SDU data volume to be offloaded

- Target Cell of the offloading action

Samsung: The third one is related to implementation. Not sure about the fourth one.

CATT: Many factors will impact the load, it’s impossible to list all of them

**The timing of triggering a request for an inferred energy cost related to an additional load is up to implementation.**

**WA: Use the already introduced AI/ML Information Reporting Initiation (Class 1 – AI/ML INFORMATION REQUEST/RESPONSE) procedure to signal to the target NG-RAN node a description of the “additional load”. Use the AI/ML Information Reporting (Class 2 – AI/ML INFORMATION UPDATE) procedure to allow the target NG-RAN node to report the estimation of the Energy Cost (name of the procedures to be further discussed)**

Whether to use a new Class 1 procedure where the source NG-RAN node requests to the target NG-RAN node an estimation of the Energy Cost for an additional load and where the target NG-RAN node responds with the requested estimation of the Energy Cost

**Agreements:**

**It is agreed to include the measured Energy Cost in the AI/ML Information Reporting Initiation and AI/ML Information Reporting procedures (name of the procedures to be further discussed)**

**Whether this EC can only be reported after HO needs to be further discussed.**

##### 12.2.2.4 Other interfaces

**R3-231438 (TP for TS37.480 TS38.470) Discussion on E1 F1 interface impact**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **not treated**.

**R3-231583 On the Support of AI/ML over F1 and E1 interface**

*Type: discussion For: (not specified)  
 Source: China Telecom*

**Decision:** The document was **not treated**.

### 12.3 Others

**R3-231208 Discussion on MDT enhancement for AI/ML for NG-RAN**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231261 Discussion on MDT enhancement for NG-RAN AI-ML**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231355 Further discussions on MDT enhancements**

*Type: discussion For: Decision  
 Source: Huawei*

**Abstract:**

Further discussion on the need of enhancements for Continuous MDT

**Decision:** The document was **noted**.

**R3-231439 Discussion on transferring visited cell list to old NG-RAN node**

*Type: discussion For: (not specified)  
 Source: Lenovo, ZTE, Samsung*

**Decision:** The document was **noted**.

**R3-231604 Continuous MDT tracing**

*Type: discussion For: (not specified)  
 Source: Ericsson, InterDigital, Deutsche Telekom*

**Decision:** The document was **noted**.

**R3-231605 (TP for AI/ML BLCR to TS38.413) Continuous MDT tracing**

*Type: other For: (not specified)  
 Source: Ericsson, InterDigital, Deutsche Telekom*

**Decision:** The document was **noted**.

**R3-231606 (TP for AI/ML BLCR to TS38.423) Continuous MDT tracing**

*Type: other For: (not specified)  
 Source: Ericsson, InterDigital, Deutsche Telekom*

**Decision:** The document was **noted**.

**R3-231607 LS on Continuous MDT**

*Type: LS out For: (not specified)  
 to SA5, cc RAN2  
 Source: Ericsson, InterDigital, Deutsche Telekom*

**Decision:** The document was **noted**.

**R3-231660 MDT Data Collection Continuity for NG-RAN AI/ML**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm*

**Decision:** The document was **noted**.

**R3-231676 Discussion on supporting of continues MDT**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231842 Discussion on MDT enhancement for continuous AI-ML related information**

*Type: discussion For: (not specified)  
 Source: ZTE, Lenovo, Samsung*

**Decision:** The document was **noted**.

**R3-231843 (TP to TS38.413) MDT Enhancements for continuous data collection**

*Type: other For: (not specified)  
 Source: ZTE, Lenovo, Samsung*

**Decision:** The document was **noted**.

**R3-231844 [DRAFT] LS on the MDT enhancement to support continuous AI-ML related information reporting from UE**

*Type: LS out For: (not specified)  
 to SA5, RAN2  
 Source: ZTE*

**Decision:** The document was **noted**.

**# AIRAN5\_MDT**

**- Analyze the solution, and identify potential spec impacts**

**- Capture agreements and open issues**

**- Provide the TP if agreeable**

**- LS to SA5/RAN2?**

**R3-231882 CB: # AIRAN5\_MDT- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Samsung - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232111**.

**R3-232111 CB: # AIRAN5\_MDT- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Samsung - moderator*

(Replaces R3-231882)

**Decision:** The document was **noted**.

**Agreements:**

**The existing MDT framework is used as baseline for data collection from the UE.**

**FFS on using s-based MDT, m-based MDT or both of them for data collection from the UE.**

**Agreements:**

**Continuous collection of MDT traces is beneficial only for AI/ML training in OAM. Continuous MDT collection is to enable the continuous collection of MDT data from the same UE across RRC state changes (RRC\_Connected, RRC\_Idle, RRC\_Inactive).**

**FFS on determining the need for continuous MDT support for the Rel.18 use cases.**

**FFS on the solutions to support continuous MDT collection:**

* **Solution 1: existing MDT mechanism without enhancement.**
* **Solution 2: Introduce an indication in the logged MDT measurement configuration to indicate UE whether to collect continuous location information (e.g., historical cell information, latitude, longitude, altitude, velocity, etc.) across various RRC states (connected, inactive, idle).**
* **Solution 3: introduce a “Continuous MDT” flag in the management based logged MDT measurement configuration, and enable the UE to report a “Continuous MDT” flag as soon as the UE establishes an RRC connection from Idle. Introduce a continuous MDT indication in the Handover Request message to enable the target NG-RAN to configure the UE with a management-based MDT configuration**
* **Solution 4: down-select the solution from option 1 to 3 to configure multiple signaling based MDTs (e.g., immediate MDT and log MDT) to a UE**
* **Option 1: add addition trace activation IE in Xn**
* **Option 2: add addition trace activation IE in both NG and Xn**

**Option 3: extending the CHOICE MDT Mode IE**

## 13 Mobile IAB for NR WI (RAN3-led)

### 13.1 General

**R3-231307 Workplan for Rel-18 mobile IAB**

*Type: Work Plan For: Approval  
 Source: Qualcomm Inc. (Rapporteur)*

**Decision:** The document was **noted**.

**R3-231308 Discusssion on issues related to SA2 VMR**

*Type: discussion For: Approval  
 Source: Qualcomm Inc.*

**Decision:** The document was **noted**.

**R3-231356 Discussion on SA2 issues and mobile IAB authorization**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231482 Discussion on UE positioning and additional ULI for VMR**

*Type: discussion For: Approval  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231522 Discussion on support of MBSR**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231523 Support of MBSR**

*Type: CR For: Agreement  
 38.473 v17.4.1 CR-1153 Cat: B (Rel-18)  
  
 Source: Xiaomi, Ericsson, Qualcomm, CATT*

**Decision:** The document was **noted**.

**R3-231532 Discussion of SA2 FS\_VMR Solutions**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231533 (draftCR TS 38.305) Introduction of MBSR**

*Type: draftCR For: Agreement  
 38.305 v17.4.0  
 Source: Ericsson, Xiaomi, Qualcomm Inc., CATT*

**Decision:** The document was **noted**.

**R3-231534 (CR TS 38.455) Support for MBSR Location Information**

*Type: CR For: Agreement  
 38.455 v17.4.0 CR-0101 Cat: B (Rel-18)  
  
 Source: Ericsson, Xiaomi, Qualcomm Inc., CATT*

**Decision:** The document was **noted**.

**# IAB1\_General**

**- Continue discussions and converge on NGAP Initial UE message to include an optional “mobile IAB-node indication”**

**- Discuss and converge on TAC update at the mIAB-DU**

**- Discuss and converge on SA2’s request for positioning of onboard UEs via NRPPs using TRPs of the mobile IAB-node**

**- Discuss and converge, if possible, on handling of the ULI for the UEs served by mIAB node (content, signaling and nodes involved)**

**- Discuss Mobile TRPs and what information is needed to be exchanged to support them**

**R3-231900 CB: # IAB1\_General - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Xiaomi - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232110**.

**R3-232110 CB: # IAB1\_General - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Xiaomi - moderator*

(Replaces R3-231900)

**Decision:** The document was **noted**.

Mobile IAB indication over NGAP:

**Agreements:**

**The IAB-donor-CU selects an AMF that supports mobile IAB-node based on the mobile IAB-node indication received via Msg5.**

**RAN3 to decide whether to support NGAP indication to AMF for mobile IAB-authorization based on progress in SA2.**

Mobile IAB-node involved positioning:

**Agreements:**

**LMF obtains an updated location and velocity information and location time stamp of the mobile TRP by performing either option 1 or option 2 during UE positioning. This statement remains valid unless stated otherwise by SA2.**

Ericsson: We should talk about mobile TRP and not Mobile IAB node

Nokia: why isn´t this an agreement and instead it is a WA

QUALCOMM: it is ok to have this as an agreement. Remove “SA2´s progress”. This is a reply to SA2´s LS and we do not have to wait for SA2´s progress.

Xiaomi: ok to remove references to SA2´s progress

Huawei: Concerns on Option 1 in case the IAB DU performs migration and IAB MT connects to a different donor CU. As a compromise keep the reference to Option 2.

Ericsson: SA2 has agreed on the agreement above.

**WA: if Network Assisted procedure is used (i.e. UL related positioning is performed), LMF may obtain an updated location and velocity information of the mobile TRP in UL measurement result related message(s) in NRPPa and F1AP. It needs to be further discussed on which message(s) is used and whether time stamp for the location of mobile TRP is needed, according to TS23.273 section 6.1.4.**

Nokia: this has been discussed and concluded by SA2, hence it should be a plain agreement

Ericsson: state mobile TRP and not Mobile IAB. Issue whether “timestamp” should be part of the working assumption or part of the FFS. Ericsson believes it should be part of the agreement and not the FFS. It was include timestamp in the RFFS, we should capture references to the spec defining it (23.273)

Qualcomm: change all mobile IAB with Mobile TRP. We should turn this into an agreement and not a WA.

ZTE: prefer to keep the WA because including this info in the measurement results is not explicitly mentioned by SA2 in their LS

Xiaomi: prefer to remove the WA, but ok to keep it.

**Agreements:**

**RAN3 agrees to introduce a new TRP type for mobile TRP in NRPPa/F1AP.**

**if option 1 is supported, the NRPPa/F1AP TRP information exchange procedure can be used to trigger MO-LR procedure of IAB-MT to obtain the location and velocity information of mobile TRP as well as the timestamp.**

**if GPSI is available, mobile IAB-MT’s UE ID (i.e. GPSI) can be included in NRPPa/F1AP TRP information response message so that LMF can perform MT-LR procedure to obtain mobile TRP’s location.**

**Checking the security issue of GPSI with SA3 is out of RAN3 scope.**

Huawei: we should not capture this agreement. Not sure if this is out of scope.

Xiaomi, Nokia, ZTE, QUALCOMM: Let´s keep the agreement to avoid same discussion at the next meeting

**Agreements:**

**The issue for the case that “LMF that performs the location estimation of the mobile TRP can be different than the LMF that performs the location estimation of the target UE” is not in RAN3 scope.**

Additional ULI:

**Agreements:**

**RAN3 agrees that the IAB-DU’s donor-CU includes at least the NCGI of the cell serving IAB-MT as an additional ULI together with UE ULI over NGAP.**

Ericsson, QUALCOMM: with the agreement does not include the TAI?

Xiaomi: some companies think the TAI of the mobile IAB can be reflected by the TAI of the MT

Ericsson: we agreed we would include the ULOI of the MT and today the ULI has a mandatory TAI

ZTE: TAI is not needed as TAI broadcast by mobile MT can reflect the TAI of the mobile IAB node.

**Agreements:**

**RAN3 to select between the following options for IAB-DU’s donor CU to obtain the IAB-MT’s serving cell ID in case IAB-MT and IAB-DU are connected to different IAB-donors**

**- Option A, the cell ID of IAB-MT’s serving cell is passed from the IAB-MT’s donor-CU to IAB-DU’s donor CU.**

**- Option B, the cell ID of IAB-MT’s serving cell is passed from IAB-DU to IAB-DU’s donor CU.**

**To be continued:**

**RAN3 to discuss whether to include the TAI and the time stamp of the location information of IAB-MT’s serving cell into the new IAB-MT User Location Information IE.**

### 13.2 Support IAB-node mobility

**R3-231275 Enhancements for mobility of IAB-node together with Ues**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231309 Topology adaptation for mobile IAB**

*Type: discussion For: Discussion  
 Source: Qualcomm Inc.*

**Decision:** The document was **noted**.

**R3-231329 Discussion on IAB-node DU migration**

*Type: discussion For: Decision  
 Source: Fujitsu*

**Decision:** The document was **noted**.

**R3-231330 Discussion on IAB-node consecutive partial migrations**

*Type: discussion For: Decision  
 Source: Fujitsu*

(Replaces R3-230386)

**Decision:** The document was **noted**.

**R3-231357 Discussion on inter-donor migration in mobile IAB scenario**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231440 Discussion on mobile IAB-node inter-donor topology adaptation**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231441 IAB-MT and IAB-DU migrate to different IAB-donors**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231470 Discussion on Support IAB-node mobility**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231471 Support for mobile IAB**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0904 rev 2 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-230171)

**Decision:** The document was **noted**.

**R3-231479 Discussion on MT and DU Migrations of Mobile IAB-node**

*Type: discussion For: Discussion  
 Source: CANON Research Centre France*

**Decision:** The document was **noted**.

**R3-231483 (TP for NR\_mobile\_IAB BL CR for TS 38.401/38.413/38.473): Support of mobility for mobile IAB**

*Type: other For: Approval  
 Source: Huawei*

**Discussion:**

- Remove discussion part

- Keep only the TP content for TS38.413 (TP content unchanged)

**Decision:** The document was **revised to R3-231955**.

**R3-231955 (TP for NR\_mobile\_IAB BL CR for TS 38.401/38.413/38.473): Support of mobility for mobile IAB**

*Type: other For: Approval  
 Source: Huawei*

(Replaces R3-231483)

**Decision:** The document was **agreed**.

**R3-231524 Discussion on IAB-node mobility**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231535 Migration Procedure for Mobile IAB-Nodes**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231717 Discussion on DU migration**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231718 Discussion on multiple partial migration**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**# IAB2\_IABmobility**

**- Discuss and agree on information of target logical mIAB-DU’s CU that the source logical mIAB-DU’s CU needs to send to the mIAB-node when triggering the F1 Setup procedure on the mIAB-node**

**- Discuss and agree on the information needed to inform the target logical mIAB-DU’s CU about the mIAB-MT’s CU ID and the mIAB-MT ID so that it can initiate the Xn TMM procedures towards mIAB-MT’s CU, in case the target logical mIAB-DU’s CU is different from the mIAB-MT’s CU**

**- For the case of consecutive partial migrations, discus and conclude on how the information about the target donor CU for the mIAB-MT HO is provided to the donor CU serving the mIAB-DU**

**- Discuss whether the following WA can be turned into an agreement:**

**- WA: The mIAB-MT and its co-located mIAB-DU can be handed over/migrated to different donor CUs. This WA is subject to validation that the impact involved is affordable.**

**- Discuss and converge on whether the mIAB-MT and its co-located mIAB-DU can connect to different donor CUs when joining the network.**

**- Discuss and converge on solutions for the use case where no Xn connectivity exists during mIAB-node mobility and whether procedures can be run via the NGAP**

**- Whether to capture the mIAB-MT HO and mIAB-DU migration separately in stage2**

**- Confirm RAN2 assumptions about BH transport?**

**R3-231901 CB: # IAB2\_IABmobility - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**Agreements:**

**Turn into an agreement the WA stating that: The mIAB-MT and its co-located mIAB-DU can be handed over/migrated to different donor CUs.**

**Capture the mIAB-MT HO and mIAB-DU migration as separate procedures in TS 38.401.**

**Introduce a new IAB-MT User Location Information IE into the existing User Location Information NGAP IE.**

Xiaomi: will further discussions take place in IAB CB1?

Ericsson: yes

Nokia: What should be the content of the new IE? Should it be defined here?

Ericsson: the content will be defined in IAB CB1. The purpose of the proposal is to define the IE structure, namely the new IE is contained in User Location Information NGAP IE

**Agreements:**

**When triggering the F1 setup from the mIAB node to the target CU for mIAB-DU migration, the source CU can indicate to the mIAB-DU:**

* **The gNB-ID of mIAB-DU’s target CU.**
* **Optionally, the IP address(es) of mIAB-DU’s target CU and SeGW.**

**The mIAB-node may obtain the IP address of target CU for mIAB-DU migration and the IP address of its SeGW from the OAM.**

Nokia: on the IP address, the source CU does not know the IP address of the target CU, as it may be not in the current network. There is anyhow the need of configuration because in presence of Security GWs the source CU needs to know the GW´s address

Qualcomm: We have already agreed that the source CU can select the target CU based on e.g. configuration. Hence the source CU can also be configured with the target CU´s IP address. Given this option SecGW´s IP addresses could also be configured

Ericsson: support both bullets, including signalling the target´s CU IP address

CATT: agree with Nokia. The IP address can be configured via OAM

Huawei: Support the full proposal, including signalling the target´s CU IP address.

Samsung: Support the proposal. The sentence on signalling of IP address says this is optional. If the IP address is not available it can be omitted

Lenovo: Support the full proposal. The IP address at source CU can be configured via OAM and then signalled to targed CU

Nokia: we should agree to the proposal below and have that option as the only one

Qualcomm: both a signalling option and an OAM option should be allowed

**Agreements:**

**Down select between the following two options for providing the gNB-ID of the mIAB-MT’s CU and the XnAP UE ID of the mIAB-MT at this CU to mIAB-DU’s target CU:**

* **Option A: XnAP signalling from the mIAB-DU’s source CU.**
* **Option B: F1AP signalling from the target logical mIAB-DU.**

**For Option B, discuss whether and how the mIAB-DU can obtain the gNB-ID of the mIAB-MT’s CU and the XnAP UE ID of the mIAB-MT at this CU.**

Qualcomm: agree with the proposals

Huawei: Spell out that the “ID” is the XnAP ID

**Agreements:**

**As a baseline: The target CU for mIAB-DU migration learns the traffic profile of the UE traffic from Handover Preparation procedures for individual UEs.**

**To be continued: Discuss whether enhancements are needed in addition to the baseline procedure.**

Qualcomm: Between the CUs of DUs there is context transfer, which includes traffic profile. Propose to have as “to be continued”

Ericsson: The proposal mainly states what can be already done today

Nokia: Propose rewording of the procedure

CATT, Huawei, Qualcomm: first sentence is the baseline and can be agreed, second sentence is to be continued

**Agreements:**

**The “Non-F1-Terminating IAB-donor UE XnAP ID” in the IAB TRANSPORT MIGRATION MANAGEMENT REQUEST message sent from mIAB-DU’s target CU to the mIAB-MT’s CU is generated by the mIAB-MT’s CU.**

Lenovo: Need to clarify which instance of the Xn interface we are referring to

Qualcomm: we do not need to spell out what instance of the Xn interface the UE XnAP ID refers to. We might remove flexibility in the future.

Samsung, Nokia, Huawei: Agree with Qualcomm

Lenovo: we should have an FFS on which UE XnAP ID we are referring to, i.e. for which Xn connection this is

Qualcomm: Struggle to understand the concern from Lenovo. Would removing the word “Target” Help?

Ericson: no, removing the word “target” leads to loss of content in the proposal

Nokia: do not understand the concern from Lenovo. The proposal is clear.

CATT: Understand Lenovo´s point, but the MT CU should only have one UE XnAP ID

Qualcomm: The issue from Lenovo seems to be in addition to the proposal for agreement and should be discussed separately

**To be continued:**

**Discuss whether the mIAB-DU’s CU is allowed to generate an XnAP UE ID for an mIAB-MT even if it has never terminated the RRC connection of the mIAB-MT.**

Qualcomm: We should mark this text as “to be continued”. The DU´s CU, despite it has never connected via RRC to the MT, still needs to be able to initiate UE-associated Xn signalling for this MT

Huawei: We may not need an FFS on the text above.

Qualcomm, Nokia: generation of XnAP UE ID for initiation of UE associated signalling seems more associated to the procedure the nodes need to run

ZTE: instead of “if it has never terminated the RRC connection of the mIAB-MT” it should say “if it has no context for the mIAB-MT”

Ericsson: the proposal from ZTE does not help clarifying. There are Rel17 use cases where UE IDs are generated also without MT´s context.

**Agreements:**

**For the upstream data handling at the BAP of mobile IAB MT, the F1AP BAP configuration for each logical DU should be configured/controlled by the DU’s respective donor-CU via the corresponding F1AP connection.**

**For the downstream data handling arriving at the mobile IAB-node, the upper layers (e.g., IP layer) can differentiate the data to different logical DUs based on upper-layer header information.**

ZTE: there is one missing issue, namely whether source or target IP address is used. If target IP address is used some issues need to be solved.

Ericsson: RAN2 did not ask us to discuss source and destination Ips. The problem from ZTE´s is an implementation problem. There is also a scenario that new IPs are allocated to the new logical DU

ZTE: how can MT know that the set of IP address is for the source or target DU

Huawei: Agree with Ericsson that RAN2 did not ask about traffic differentiation. Do we really need to inform RAN2 about RAN3´s assumptions? Sending an LS is not necessary and we could just agree to the text above

Qualcomm: RAN2 has not sent us an LS and no LS back is needed. In reply to ZTE, the issue is ITF related. The same IP address can be used to run multiple instances of an application communication. Hence two logical DUs could talk to the same CU using the same IP address.

Nokia: agree with Qualcomm

ZTE: If it is agreed that there is no issue to use different target IP address for communication from both DUs, then the text can be agreed

Proposal 7: Discuss whether to agree the CR for TS 38.413 in R3-231471 or whether to revise it by introducing the “No PDU session” indication into the HANDOVER REQUIRED message.

Proposal 11: For consecutive partial migrations, the mIAB-DU’s CU retains the UE XnAP IDs allocated for an mIAB-MT by itself and by the mIAB-MT’s CU until it is notified that the mIAB-MT has been handed over to another CU.

Huawei: Proposal not agreeable. DU/CU should retain the UE AP IDs for the MT

**Agreements:**

**For consecutive partial migration, after the mIAB-MT HO is completed, the mIAB-DU’s CU sends the IAB TRANSPORT MIGRATION MANAGEMENT REQUEST message to the mIAB-MT’s target CU, including the UE XnAP ID assigned to the mIAB-MT by the mIAB-MT’s target CU as the “Non-F1-Terminating IAB-donor UE XnAP ID”.**

To be continued:

FFS whether BH RLC and BAP routing configurations used in the non-F1 terminating topology for TMM with the mIAB-DU’s source CU need to be released after mIAB-DU migration.

### 13.3 Mobility Enhancements

**R3-231276 Other aspects for mobile IAB**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231310 Enhancements for mobility of IAB-node and its served UEs**

*Type: discussion For: Discussion  
 Source: Qualcomm Inc.*

**Decision:** The document was **noted**.

**R3-231358 Discussion on enhancements to IAB node migration in mobile IAB scenario**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231442 Mobility enhancements for mobile IAB-node and its served UE**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231472 Discussion on mobility enhancements**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231484 (TP for NR\_mobile\_IAB BL CR for TS 38.423): Mobility enhancement for mobile IAB**

*Type: other For: Approval  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231525 Discussion on mobility enhancement**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231536 IAB-Node Mobility Enhancements**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231719 Discussion on mobility enhancements**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**# IAB3\_MobEnh**

**- Discuss and converge on TAC/RANAC handling between mIAB-MT, its co-located mIAB-DU and its serving donor CU**

**- Any impact over RRC? Need to LS RAN2?**

**- Discuss and converge on OAM involvement and configuration of mobile IAB-DU during mIAB-DU migration and partial migration**

**- Discuss and converge on which information, if any, can be shared between two logical DUs in case of IAB-DU migration**

**- Converge on how Source donor CU of mobile IAB-MT informs the target donor CU of mobile IAB-MT that the migrating node is a mobile IAB-node, based on the agreement that this is carried out via explicit indication in XnAP HO Request message**

**R3-231902 CB: # IAB3\_MobEnh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232005**.

**R3-232005 CB: # IAB3\_MobEnh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm - moderator*

(Replaces R3-231902)

**Decision:** The document was **revised to R3-232138**.

**R3-232138 CB: # IAB3\_MobEnh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Qualcomm - moderator*

(Replaces R3-232005)

**Decision:** The document was **noted**.

**Agreements:**

**The BH RLC CH(s), BAP address and default BAP configuration configured on the mIAB-MT can be used for delivering the F1 traffic of both logical mIAB DUs. Non-F1 traffic to be further discussed.**

**For DU-migration, the target mIAB-DU-cell’s NCGI can be configured via OAM and optionally (re-)configured by the target mIAB-DU’s CU when NCGI confliction happens?**

Nokia: Disagree with any compromise. In the case of CU based solution, do you still request OAM to configure the DU?

QUALCOMM: PCI can be configured with OAM, while it can also be reconfigured by CU. The case is NCGI confliction.

ZTE: Agree with this proposal, considering OAM solution may not be able to work well in this case

QUALCOMM: OAM cannot meet dynamic requirements

ERICSSON: Send LS to SA5?

CATT: Disagree with this proposal, no difference with R16/17

**Agreements:**

**The IAB-DU’s TAC can have the same or a different value than the TAC of the mIAB-MT’s serving cell.**

ZTE: It’s sub-optimal to use same TAC

CATT: How to configure?

Nokia: Up to the deploymemt

MITRE: “Can” is also fine

**To be continued: RAN3 to discuss, whether any signaling optimizations in RAN3 scope are possible and needed if the target logical mIAB-DU uses the same CellGroupConfig asthe source logical mIAB-DU.**

**The baseline is the Rel-15 handover procedure.**

**To be continued: Whether explicit mIAB-node indication and/or explicit mIAB-node-authorized indication needs to be included in the HO request for the mIAB-MT, e.g., so that the target CU can perform admission control.**

### 13.4 Mitigation of interference

**R3-231359 Discussion on PCI collision avoidance for mobile IAB**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231443 PCI collision mitigation of mobile IAB-node mobility**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231473 Mobile IAB interference mitigation**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231485 PCI collision for mobile IAB**

*Type: discussion For: Discussion  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231526 Discussion on mitigation of interference**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231537 PCI Collision Avoidance for Mobile IAB-Nodes**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231720 Discussion on mitigation of interference**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**# IAB4\_MitInt**

**- Discuss and converge on the use case of PCI reconfiguration in case of IAB-donor and IAB-node with different OAMs**

**- Is the use case in scope of RAN3 work?**

**- Should the case of no Xn between F1-terminating donor and the MT’s target donor be considered?**

**- Should the cases of centralized and distributed PCI assignment be differentiated?**

**R3-231903 CB: # IAB4\_MitInt - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232116**.

**R3-232116 CB: # IAB4\_MitInt - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

(Replaces R3-231903)

**Decision:** The document was **noted**.

**Open issues identified to be continued:**

**How to avoid PCI collision in the scenario with Xn between IAB-DU’s donor and IAB-MT’s donor.**

**How to avoid PCI collision in the scenario without Xn between IAB-DU’s donor and IAB-MT’s donor if the scenario is supported.**

**Whether PCI collision between mobile IAB cells can be predicted based on existing UE measurement report.**

## 14 Further NR mobility enhancements WI

WID [NR\_Mob\_enh2]: [RP-223520](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223520.zip) (target: RAN #102) [TU: 1 (**1**, 1, 1, 1)]

### 14.1 General

**R3-231136 (BLCR) Additions for L1/L2 triggered mobility**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1037 rev 4 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell, Intel Corporation*

(Replaces R3-230067)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231137 (BLCR to 38.401) for L1L2Mob**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0260 rev 8 Cat: B (Rel-18)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-231048)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

### 14.2 Signaling Support for L1/L2 based Inter-Cell Mobility

**R3-231107 LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM**

*Type: LS in For: Discussion  
 Original outgoing LS: R1-2302194, to RAN1, RAN2, RAN3, cc -  
 Source: RAN1, Fujitsu, CATT*

**Decision:** The document was **noted**.

**R3-231327 Discussion on replying to the RAN1 LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM**

*Type: discussion For: Decision  
 Source: Fujitsu, CATT*

**Decision:** The document was **noted**.

**R3-231326 [Draft] Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Fujitsu, CATT*

**Decision:** The document was **revised to R3-232089**.

**R3-232089 [Draft] Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Fujitsu, CATT*

(Replaces R3-231326)

**Discussion:**

- Final LS format

- RAN 1->RAN1, RAN 3->RAN3

**Decision:** The document was **revised to R3-232139**.

**R3-232139 [Draft] Reply LS on L1 measurement RS configuration and PDCCH ordered RACH for LTM**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Fujitsu, CATT*

(Replaces R3-232089)

**Discussion:**

Remove the draft and change the source as RAN3

reword RAN1 and RAN3 in the LS

**Decision:** The document was **agreed**.

**# MobilityEnh1\_RAN1LS**

**- Check the feasibility and potential impact on specs of RAN 3 of two options, i.e. with RAR and without RAR,**

**- Working on drafting LS to RAN1, if needed.**

**R3-231883 CB: # MobilityEnh1\_RAN1LS- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: CATT - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231937**.

**R3-231937 CB: # MobilityEnh1\_RAN1LS- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: CATT - moderator*

(Replaces R3-231883)

**Decision:** The document was **noted**.

First round:

ERICSSON: Focus on RAN3 impact as the principle.

**Agreements:**

**The CU requests the candidate DU to provide RACH resource per candidate cell for TA acquisition in inter-DU case.**

QUALCOMM: whether source DU can trigger RACH resource.

CATT: CU requests the RACH resource first.

HUAWEI: source DU may also trigger RACH resource. Keep this option on the table.

ERICSSON: It is related with RAN2 discussion.

Nokia: TA is retrieved from CU.

ZTE: agree with ERICSSON, relate with RAN2. Rely with feasibility.

Fju: This is RAN3 issue. CU can control this procedure.

Samsung: It is no need to include this in LS. Add “per candidate cell”.

QUALCOMM: agree with Samsung.

Lenovo: agree with ZTE and Samsung.

ERICSSON: The contents of RACH resource is decided by other WG.

HUAWEI: Focus on the context of LS.

For the RACH solution, “with RAR” and the RAR is received from serving cell case, i.e., case (a), RAN3 needs to specify how the RAR is transmitted from the candidate DU to the source DU through the CU.

Lenovo: remove e.g. and change the wording.

Samsung: clarification on RAR is for candidate cell.

ERICSSON: need rewording.

RAN3 need to consider potential RAN3 spec impact for the following two cases:

(a) with RAR and the RAR is received from serving cell, and

(b) without RAR

ERICSSON: It is also rewording and further discussion for other cases.

CATT: Check Q1 online.

**Agreements:**

**No need to include the RACH resource for TA acquisition alignment in the reply LS.**

Q1: Discuss the impact about case(c) with RAR and the RAR is received from candidate DU in the reply LS

CATT: RAN2 assume option3 is not support in Rel-18.

Lenovo: RAN2 is WA, and not precluded option3.

HUAWEI: agree with Lenovo.

Q2: For case (b), discuss whether include the option 2 in the reply LS.

-Option 2: After LTM is triggered, the serving DU requests the target DU to transmit the latest TA value which is maintained by itself before sending LTM command, e.g., the target DU shall transmit the requested TA value to the serving DU by F1 interface through the CU.

For further study:

**FFS on the message for CU requesting “RACH resource”(UE Context Setup procedure or UE Context Modification procedure or both)**

**R3-231182 TP (BL CR TS 38.401) L1/2 Triggered Mobility (LTM) Procedures**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231183 Discussion on TA Acquisition for LTM**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231239 gNB-DU initiated target cell re-configuration for L1/L2 triggered mobility**

*Type: discussion For: Agreement  
 Source: Rakuten Symphony*

**Decision:** The document was **noted**.

**R3-231315 Signalling Support for LTM**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231381 co-existence between LTM and L3 mobility**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231382 (TP to TS 38.473 on LTM) co-existence between LTM and L3 mobility**

*Type: other For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231388 (TP for L1L2Mob BLCR for TS 38.401) Discussion on reference configuration in LTM**

*Type: other For: Agreement  
 Source: Google Inc.*

**Decision:** The document was **noted**.

**R3-231447 Discussion on L1L2 based inter-cell mobility**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231448 (TP to TS 38.401 & TS 38.470) Support of L1L2 based inter-cell mobility**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231458 Collision between L1/L2-triggered mobility and L3 mobility**

*Type: discussion For: Decision  
 Source: vivo*

**Decision:** The document was **noted**.

**R3-231459 Discussion on L1/L2-triggered Mobility**

*Type: discussion For: Decision  
 Source: vivo*

**Decision:** The document was **noted**.

**R3-231510 Discussion on remaining issues for LTM procedure**

*Type: discussion For: Decision  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231511 (TP to TS 38.473 BL CR) On support of LTM procedure**

*Type: other For: Agreement  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231573 (TP for LTM BL CR to TS 38.401) Solutions for LTM**

*Type: other For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231574 (TP for LTM BL CR to TS 38.473) F1AP impacts for LTM**

*Type: other For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **revised to R3-232115**.

**R3-232115 (TP for LTM BL CR to TS 38.473) F1AP impacts for LTM**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Ericsson, Huawei*

(Replaces R3-231574)

**Decision:** The document was **revised to R3-232145**.

**R3-232145 (TP for LTM BL CR to TS 38.473) F1AP impacts for LTM**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Ericsson, Huawei, Lenovo, Nokia, Nokia Shanghai Bell, ZTE, Samsung*

(Replaces R3-232115)

**Discussion:**

Correct zip file

**Decision:** The document was **revised to R3-232171**.

**R3-232171 (TP for LTM BL CR to TS 38.473) F1AP impacts for LTM**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Ericsson, Huawei, Lenovo, Nokia, Nokia Shanghai Bell, ZTE, Samsung*

(Replaces R3-232145)

**Decision:** The document was **agreed**.

**R3-231652 Discussion on LTM related issues**

*Type: discussion For: (not specified)  
 Source: LG Electronics Inc.*

**Decision:** The document was **noted**.

**R3-231653 (TP for NR\_Mob\_enh2 BL CR for TS 38.401) Discussion on LTM related issues**

*Type: other For: (not specified)  
 Source: LG Electronics Inc.*

**Decision:** The document was **noted**.

**R3-231654 (TP for NR\_Mob\_enh2 BL CR for TS 38.473) Discussion on LTM related issues**

*Type: other For: (not specified)  
 Source: LG Electronics Inc.*

**Decision:** The document was **noted**.

**R3-231678 Discussion on left issues for L1/L2 mobility**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231679 (TP for L1L2 Mob BLCR for TS 38.401) Support of L1L2 based**

**inter-cell mobility**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231745 (TP for L1L2Mob BLCR for TS 38.401): L1/L2 Mobility procedure on F1**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **revised to R3-232090**.

**R3-232090 (TP for L1L2Mob BLCR for TS 38.401): L1/L2 Mobility procedure on F1**

*Type: other For: Agreement  
 38.401 v17.4.0  
 Source: Huawei*

(Replaces R3-231745)

**Decision:** The document was **agreed**.

**R3-231746 (TP for L1L2Mob BLCR for TS 38.401): L1/L2 Mobility procedure on E1**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **revised to R3-232094**.

**R3-232094 (TP for L1L2Mob BLCR for TS 38.401): L1/L2 Mobility procedure on E1**

*Type: other For: Agreement  
 38.401 v17.4.0  
 Source: Huawei*

(Replaces R3-231746)

**Decision:** The document was **noted**.

**R3-231747 (TP to Mob\_enh2 BL CR TS38.401) Discussion on L1/L2 based Inter-cell Mobility**

*Type: discussion For: (not specified)  
 Source: Samsung Electronics France SA*

**Decision:** The document was **noted**.

**R3-231751 Considerations on parallel vs single (including TPs for TS 38.473)**

*Type: discussion For: Decision  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231807 Discussion on L1L2 based Inter-Cell Mobility**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231808 (TP to TS 38.401) L1L2 based Inter-Cell Mobility**

*Type: other For: Approval  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231813 Further discussion on LTM**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **noted**.

**R3-231848 (TP for LTM BL CR to TS 38.473) Discussion on L1/L2 triggered mobility**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231849 TP for LTM BL CR to TS 38.401**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**# MobilityEnh2\_L1L2Mobility**

**- Summary on pros and cons of candidate cell suggestion using one or multiple messages.**

**- Discuss on data transmission, i.e. introduce new message or reuse legacy message. how to define d new message, and identify which legacy message to be reused.**

**- How to avoid HO collision between the LTM and the L3 based inter-cell mobility.**

**- Discuss on subsequent LTM procedure, i.e. subsequent LTM with RACH or without RACH.**

**- Discuss on releasing of candidate cells, reference configuration, DDDS, releasing of candidate cells,** **TA Acquisition.**

**- E1 interface issue, i.e. intra-CU-UP LTM and inter-CU-UP LTM?**

**- Capture all the agreements for above issues and prepared for the draft CRs of TS 38.401(HW), TS 38.473(ERICSSON).**

**R3-231884 CB: # MobilityEnh2\_L1L2Mobility- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231938**.

**R3-231938 CB: # MobilityEnh2\_L1L2Mobility- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

(Replaces R3-231884)

**Decision:** The document was **noted**.

**1. DDDS:**

propose to agree on the following proposals:

Proposal 3.2-1: For intra-DU LTM, DDDS from gNB-DU to CU-UP is not needed for those DRBs RLC is not re-established.

Samsung: what is the condition for DDDS if not needed for first proposal. When the cell switch command? Missing the time point.

HUAWEI: How the DDDS is workable. This is for intra-DU LTM.

**Agreements:**

**For intra-DU LTM, the gNB-DU sends a DDDS frame about unsuccessfully transmitted downlink data to the gNB-CU after LTM cell switch if RLC reestablishment is configured.**

**For inter-DU LTM, the DDDS should be sent from source gNB-DU to CU-UP when the LTM cell switch command is sent. Then the CU-UP can start forwarding the unsuccessfully transmitted data to target gNB-DU.**

Samsung: there is no spec impact.

HUAWEI: for stage2 flow chart.

Proposal 3.2-4: For both intra-DU and intra-CU inter-DU LTM, target gNB-DU sends initial DDDS using the new UL TEID to CU-UP after target gNB-DU detects the UE access.

QUALCOMM: why need DDDS as we have initial access. Only one message sends from CU-UP.

HUAWEI: For legacy HO, the initial access is supported.

ZTE: Have different view with QUALCOMM. Two messages have different purposes.

Nokia: agree with HW.

NEC: Check if legacy is also workable for LTM.

Clarification from moderator for Proposal 3.2-5: There seems no need that the UL/DL GTP tunnel setup is subject to L2 configuration. Decoupling them will make implementation easier. And may have a unified handling on F1 in subsequent handover if the L2 configuration is changed.

Proposal 3.2-5: For intra-DU LTM, if RLC is not re-established, the gNB-DU shall continue sending UL PDCP PDUs to the gNB-CU using the previous UL GTP TEID until cell switch command, and after then start sending UL PDCP PDUs using the new UL GTP TEID.

Proposal 3.2-6: For intra-DU LTM, if PDCP data recovery is not configured, the gNB-CU shall continue sending DL PDCP PDUs to the gNB-DU using the previous DL GTP TEID until it receives the LTM signalling from DU, and after then start sending UL PDCP PDUs using the new DL GTP TEID.

Samsung: clarify on the intention for these two proposals. Whether to follow the legacy procedures. What is spec impacts?

HUAWEI: RLC is not re-established or PDCP data recovery is not configured is new use cases.

NEC: There is no need for allocating new TEID for intra-DU LTM.

ERICSSON: share concerns with NEC.

**2. Candidate cell modify and release:**

**Agreements:**

**The gNB-CU may modify or release L1/2 Triggered Mobility (LTM) candidate cells in the gNB-DU.**

**The (candidate) gNB-DU may cancel already configured L1/2 Triggered Mobility (LTM) candidate cells and notify to the CU.**

Lenovo: Suggest to add “and notify to the CU” in the end for second proposal.

ZTE: If DU cancel the configuration case, CU needs to be aware for this case.

ERICSSON: agree with Lenovo.

CMCC: agree with this clear version.

CATT: For the inter-DU and intra-DU case, identify the candidate DU?

ERICSSON: rewording.

ZTE, Nokia, QUALCOMM: agree with current version.

**Agreements:**

**The gNB-CU may use the UE Context Modification procedure to modify or release the prepared resources of candidate cells in the (candidate) gNB-DU and use the UE Context Release procedure to release the UE context in the (candidate) gNB-DU.**

QUALCOMM: add (candidate)

Nokia, ZTE: Agree with the revise.

Proposal 3.4-3a: the gNB-DU may use the UE Context Modificaiton Required message to release the candidate cells, and the gNB-CU shall not reject.

Proposal 3.4-4: The gNB-DU may use the UE Context Modification Required procedure to request to cancel the prepared resources of a subset of candidate cells in that gNB-DU and use the UE Context Release Request procedure to request to release all candidate cells in that gNB-DU.

Samsung: take 3.4-4 as discussion point.

HUAWEI: missing the CU rejection part in 3.4-4.

**3. Subsequent LTM:**

Proposal 3.5-1: Subsequent LTM is considered feasible once the candidate cell configuration during the initial LTM configuration is kept in the UE.

Lenovo: The proposal here is not clear. Suggest to reword: Subsequent LTM is considered feasible once the candidate cell configuration during the initial LTM configuration is kept in the UE.

ERICSSON: It is no need to discuss on feasible for subsequent LTM.

**4. Candidate cells configuration in one message or multiple message:**

Conclusion: no progress. To be continued.

Working on one single solution for candidate cells configuration.

**5. Data transmission:**

Two options are discussed:

* Option 1: New F1 message , class c1 or class 2, like “LTM CELL CHANGE NOTIFICATION”.
* Option 2: Legacy message, i.e., “UE Context Modification Required message”

No consensus. questions needs to be clarified:

* What is the purpose of this message?
  + Notify CU about the LTM initiation
  + Modify to the UE context
  + Negotiate other parameters with CU or target DU in inter-DU LTM?
  + Any else?

Conclusion: For intra-DU LTM, a new class 2 message is preferred. For inter-DU LTM, pending to the progress in RAN2 on how to support the RACH-less inter-DU LTM.

To be continued on above basis.

6. E1 Aspects:

Questions needs to be clarified online:

1. For intra-DU LTM and intra-UP (i.e. no change of CU-UP), there will be no need to create new TEID, actually no signalling will be exchange with CU-UP?
2. why the CU-UP would be changed, i.e., we wanted to understand the motivation for considering the inter-CU-UP LTM case in the first place, further considering that Rel-18 LTM is for intra-CU.

The following proposals are for agreement if above questions are clarified:

**Agreements:**

**For intra-CU-UP case, propose to turn the following WF to an agreement:**

**In case of CP UP separation, once CUCP receives LTM cell switch signling from (source)DU , CU CP initiates E1 bearer context modification to the CU UP including DL tunnel ID per DRB for target cell, for data transmission.**

**For inter-CU-UP LTM, once the CU-CP receives LTM cell switch signaling from (source) DU, the CU-CP initiates E1 bearer context modification to the target CU UP including DL tunnel ID per DRB for target cell for data transmission.**

Proposal 3.6-3a: Revisit the following proposals after the basic procedure is stable.

One option that can minimize the impact on CU-UP when performing LTM is that the steps 3 and 4 are executed together with steps 9 and 10.

One more option that can minimize the impact on CU-UP when performing LTM is that the CU-UP provides only one UL TNL address which will only be used by the target cell after successful execution of LTM cell switch.

**Agreements:**

**For inter-CU-UP LTM, the CU-CP initiates E1 bearer context modification to the source CU-UP for retrieving the latest PDCP status at the source CU-UP and exchanging the data forwarding information to target CU-UP.**

**In case of gNB-CU-UP change, the gNB-CU triggers the source gNB-CU-UP to start data forwarding after receiving LTM cells switch signalling from DU.**

**For inter-CU-UP LTM, Path switch procedure is performed towards the core network after detecting the UE has accessed to the target cell.**

**7. Handover collision avoidance between LTM and L3 handover:**

The following options are discussed:

* Option 1: OAM configured priority.
* Option 2: Network decides the priority based on scenario (intra-gNB-CU or inter-gNB-CU) and some assistance information (the measurement results, candidate target cells).
* Option 3: Flexible priority. The handover triggered first take the high priority.

For option 3, The detailed description would be:

* Case 1, L3 handover triggered earlier than LTM (the gNB-DU receives the L3 handover command before LTM is triggered), L3 handover has high priority.
* Case 2, LTM triggered earlier than L3 (the gNB-CU receives the LTM notify message from gNB-DU before L3 handover is triggered), LTM has high priority,
* Case 3, LTM and L3 handover are triggered almost simultaneously (cross signallings on F1). The (source) gNB-DU fails the L3 handover by responding with UE Context Modification Failure message with proper cause meaning LTM has high priority. This is to avoid to cancel the LTM command already sent to the UE which seems complex from moderator point of view.

No consensus. To be continued on above basis.

Second Round:

**DDDS：**

**Agreements:**

**For intra-DU LTM, DDDS from gNB-DU to CU-UP is not needed for those DRBs for which RLC is not re-established.**

FFS on whether or how to capture it in spec.

**Agreements:**

**For intra-CU inter-DU LTM, target gNB-DU sends initial DDDS using the new UL TEID to CU-UP after target gNB-DU detects the UE access (following legacy).** FFS on how to capture in spec.

QUALCOMM: change as “(target) CU-UP”.

ERICSSON: Is (target) CU-UP means the inter-CU-UP case?

QUALCOMM: Is it means not considered the inter-CU-UP case?

CMCC: clarification on UE RLC.

CATT: clarification on “The inter-CU-UP case is FFS”.

ERICSSON: inter-CU-UP case can be check later.

FFS: For intra-DU LTM, the gNB-DU sends initial DDDS using the new UL TEID if assigned by the CU to CU-UP after target gNB-DU detects the UE access.

**Candidate cell modify and release:**

**Agreements:**

**The (candidate) gNB-DU may use the UE Context Modification Required message to release the candidate cells, and the gNB-CU shall not reject.**

**The (candidate) gNB-DU may use the UE Context Modification Required procedure to request to cancel the prepared resources of a subset of candidate cells in it and use the UE Context Release Request procedure to request to release all candidate cells in it.**

**Candidate cells configuration in one message or multiple message:**

Option 1: One message

Option 2: multiple messages

Option 3: Both options are supported. In case that a list of candidate cells is included, the DU responds to the CU with the accepted candidate cells which have the same admitted result for DRBs.

Option 1: Ericsson, China Telecom, Huawei, NTT DOCOMO, Lenovo, ZTE, Charter Comm, QUALCOMM, CMCC

Option 2: Google, NEC, CATT, Nokia, Samsung, NTT DOCOMO, CMCC, Intel

Option 3: Samsung, NTT DOCOMO, China Telecom

**Proposal: To take option 1 as baseline and adding FFS in BLCR for the sake of progress.**

Samsung: It is not ready to take this as agreement.

NEC: This is related with BL CR for F1AP.

HUAWEI: turn proposal as WA?

Nokia: same comments as Samsung. analysis between option 1 and option 2.

ERICSSON: BL CR for F1AP is not include neither option 1 nor option 2.

ZTE: Leave this as FFS. Take TPs for option 1 and option 2 for next meeting?

QUALCOMM, ERICSSON: prefer to keep option 1 as WA.

Lenovo: F1AP BL CR is without change marks.

CMCC: Evaluation for option 1 and option 2 for next meeting. Prefer to keep option1 as WA.

ZTE: Prefer to keep option1 as WA.

CATT: Treat two options fair.

NEC: F1AP BL CR is not agreeable.

ERICSSON: Use one procedure for description.

1. analysis between option 1 and option 2: QUALCOMM

2. analysis among three options: Samsung

**Next meeting, focus on complexity, singling overhead analysis among option 1 option 2 and option3.**

**RAN3 have to make a decision for one solution next meeting.**

F1AP BL CR remove all the options.

**E1 Aspects:**

To be continued on [R3-232094](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232094.zip) basis.

**Reference configuration:**

Wait for more RAN2 progress.

### 14.3 Support CHO in NR-DC

**R3-231192 [TP to TS38423, CHO with NRDC] Avoiding unnecessary CHO replace & data forwarding in case of CHO with multiple SCGs**

*Type: other For: Endorsement  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-230126)

**Decision:** The document was **noted**.

**R3-231235 (TP for CHO with NR-DC to TS 37.340): Early data forwarding optimization for CHO with SCG procedure**

*Type: other For: (not specified)  
 Source: ZTE, Intel Corporation, Nokia, Nokia Shanghai Bell,Ericsson*

**Decision:** The document was **revised to R3-232113**.

**R3-232113 (TP for CHO with NR-DC to TS 37.340): Early data forwarding optimization for CHO with SCG procedure**

*Type: other For: Agreement  
 Source: ZTE, Intel Corporation, Nokia, Nokia Shanghai Bell, Ericsson, CATT, Samsung, Huawei*

(Replaces R3-231235)

**Discussion:**

- source node(s)

Huawei, Samsung: Prefer the original version

**Decision:** The document was **revised to R3-232172**.

**R3-232172 (TP for CHO with NR-DC to TS 37.340): Early data forwarding optimization for CHO with SCG procedure**

*Type: other For: Agreement  
 Source: ZTE, Intel Corporation, Nokia, Nokia Shanghai Bell, Ericsson, CATT, Samsung, Huawei*

(Replaces R3-232113)

**Decision:** The document was **agreed**.

**R3-231236 (TP for CHO with NR-DC to TS 38.423): Early data forwarding optimization for CHO with SCG procedure**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231305 Discussion on avoiding CHO modification signalling in CHO with SCG(s) due to source RRC reconfiguration (including TP for TS 38.423)**

*Type: other For: Approval  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231306 Discussion on the new problem of CHO with SCGs (including TP for TS 38.423)**

*Type: other For: Approval  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231317 CHO with multiple candidate SCGs**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231322 Discussion on CHO with SCG and multiple SCGs**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231399 (TPs to TS 37.340, 38.423 BL CRs) Consideration on CHO Related aspects**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231449 (TP to TS 37.340 & TS 38.423) CHO in NR-DC**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231575 CHO with candidate SCG(s)**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231577 Avoid unnecessary signaling due to SCG reconfigurations**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1008 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson, ZTE, Lenovo*

(Replaces R3-230758)

**Decision:** The document was **noted**.

**R3-231722 Considerations on CHO in NR-DC**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**# MobilityEnh3\_CHO**

**- Early data forwarding optimization for CHO with SCG for candidate solutions, i.e. option 4?**

**- Avoiding unnecessary signaling, i.e. SCG reconfigurations, CHO replace, data forwarding.**

**- Data forwarding, i.e. optimizing duplicated data forwarding, signalling enhancements.**

**- CHO associated with CPAC configurations, i.e. CHO + CPC or CHO + MR-DC is configured?**

**- Capture the agreements, open issues and update the draft CRs for TS 37.340(ZTE), 38.423(ERICSSON) if needed.**

**R3-231885 CB: # MobilityEnh3\_CHO- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231941**.

**R3-231941 CB: # MobilityEnh3\_CHO- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

(Replaces R3-231885)

**Decision:** The document was **noted**.

**1. Stage-2 updates for direct data forwarding:**

**Agreements:**

**Working on including a note in TS 37.340 regarding direct data forwarding for CHO with SCG(s).**

Propose 2: Continue to work on the phrasing in the second round.

Whether to describe the network implementation.

Commence with TP R3-231235 as the starting point of reference.

HUAWEI: Further work on wording the note.

**2. Further data forwarding optimizations:**

**Agreements:**

**Data forwarding optimizations should not impact legacy HO mechanism as the fundamental basis.**

Using this as the fundamental basis when considering any solution how to avoid multiple data forwarding path.

Work on the modification of 2nd sentence in 2nd round discussion.

ZTE: For optimization part, it should further discuss on how to avoid multiple data forwarding path.

QUALCOMM: Consider to provide direct data forwarding path availability as the other aspect.

HUAWEI: clarification for first sentence should not impact legacy HO mechanism.

ERICSSON: Solve the duplication of solutions with legacy HO.

Nokia: agree with ERICSSON. Provide the rewording.

Samsung: agree with not impact legacy HO mechanism. Agree with QUALCOMM suggestion.

ERICSSON: Concerns on and other possible optimizations.

3. Avoid unnecessary signaling exchange between S-SN and T-SN:

Propose 4: S-SN is aware that at least certain reconfiguration of SCGs would have an impact on the target SCG.

Propose 5: In order to avoid unnecessary signaling between S-SN and T-MN/T-SN, RAN3 will down-select a solution that solely relies on RAN3.

4. CHO with multiple SCGs:

Propose 6: RAN3 focuses on the following aspects for CHO with multiple SCGs.

1. T-MN provides the PDU session admission results of different T-SN(s) in the HO procedure considering the pair of candidate T-MN and T-SN(s).
2. A set of data forwarding addresses are provided from candidate T-MN to the source node.

5. Others:

Propose 7: RAN3 continue checking the potential impacts of CHO associated CPAC configurations, following progress made by RAN2 on execution conditions.

**Agreements:**

**Data forwarding optimizations focus on how to avoid multiple data forwarding paths.**

**RAN3 focuses on the following aspects for CHO with multiple SCGs.**

1. **T-MN provides the PDU session admission results of different T-SN(s) in the HO procedure considering the pair of candidate T-MN and T-SN(s).**
2. **A set of data forwarding addresses are provided from candidate T-MN to the source node.**

RAN3 continue checking the potential impacts of CHO associated CPAC configurations, following progress made by RAN2 on execution conditions.

Whether S-SN is aware that reconfiguration of SCGs would not have an impact on the target SCG. Additional enhancements may need to be considered if S-SN requires knowledge of all changes that affect the target SCG.

Regarding how to avoid unnecessary signaling between S-SN and T-MN/T-SN, RAN3 will down-select a solution that solely relies on RAN3 if needed.

### 14.4 Others

**R3-231193 [TP to TS 38.423 for Selective Activation] Data forwarding and RAN signalling for Selective Activation**

*Type: other For: Discussion  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-230127)

**Decision:** The document was **noted**.

**R3-231316 SCG Selective Activation in NR-DC**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231323 Discussion on NR-DC with selective activation of the cell groups**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231383 Selective Activation of the cell groups**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231384 (TP to TS 38.423 BL CR) Selective SCG Activation**

*Type: other For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231400 (TP to TS 38.423 BL CR) Consideration on selective activation of SCGs**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231450 (TP for TS 38.473) On SCG selective activation**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231460 Signaling Support for Selective Activation**

*Type: discussion For: Decision  
 Source: vivo*

**Decision:** The document was **noted**.

**R3-231512 Discussion on selective activation of cell groups**

*Type: discussion For: Decision  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231513 (TP to TS 38.423 BL CR) On support of selective activation**

*Type: other For: Agreement  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231576 NR-DC with Selective Activation**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231721 Considerations on selective activation of the cell groups**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231816 Discussion on selective activation**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **noted**.

**R3-231850 (TP to TS 38.423 and 38.473) Support of SCG selective activation**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **revised to R3-232063**.

**R3-232063 (TP to TS 38.423) Support of SCG selective activation**

*Type: other For: -  
 Source: ZTE, Huawei*

(Replaces R3-231850)

**Decision:** The document was **agreed**.

**# MobilityEnh4\_Others**

**- Whether source MN or the source SN can initiate the procedure for SCG selective activation? Align with RAN2 assumption on scenarios.**

**- Support of SCG selective activation indicator for F1, Xn, i.e. UE CONTEXT SETUP REQUEST/RESPONSE, UE CONTEXT MODIFICATION REQUEST/RESPONSE, UE CONTEXT MODIFICATION REQUEST/RESPONSE, S-NODE ADDITION REQUEST?**

**- Identify the Xn interface impact to support transfer reference configuration, updating of data forwarding.**

**- Support for source MN initiated inter-SN SCG selective activation, SN initiated SCG selective activation?**

**- Capture the agreements and open issues.**

**R3-231886 CB: # MobilityEnh4\_Others- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231944**.

**R3-231944 CB: # MobilityEnh4\_Others- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

(Replaces R3-231886)

**Decision:** The document was **noted**.

**Agreements:**

**RAN3 assumes that a UE can be configured to keep a conditional configuration for CPA after CPA execution. The kept CPA conditional configuration is used for subsequent CPC (but with different triggering conditions). This can be revisited based on RAN2 progress.**

**RAN3 should further analyze the impacts if RAN2 decides to support activation/deactivation of candidate PSCell evaluation after the first time SCG selective activation configuration.**

**WA: Add a new indication as a sub IE of the Conditional PSCell Addition Information Request IE in the S-NODE ADDITION REQUEST message to indicate that the request is for SCG Selective Activation.** It is FFS (up to RAN2 progress) what form the indication will have (an explicit IE or an RRC container).

**Note: This WA may be revisited based on RAN2 progress.**

**For inter-SN SCG selective activation, after CPC execution, the MN needs to notify the source SN and the selected SN of the cell change.** FFS how to notify the source SN and the selected SN.

**Reuse the following messages to update/modify/cancel the prepared candidate PSCells for SCG Selective Activation:**

**- SN Modification Request/ SN Modification Request Acknowledge**

**- SN Modification Required/ SN Modification Confirm**

**- Conditional PSCell Change Cancel**

**- SN Change Required/ SN Change Confirm**

**- SN Release Request / SN Release Request Acknowledge**

**RAN3 eliminates the option for UPF-based data forwarding thus assuming that the number of PSCell prepared for Selective Activation will be limited and the serving PSCell will not change too often.**

**Reuse the Xn-U Address Indication message and the Early Status Transfer message to support early data forwarding for SCG Selective Activation. FFS on enhancement and FFS when to use these two messages.**

1. **FFS how to indicate whether the associated SCG configuration is a delta with respect to the reference SCG configuration in the S-NODE ADDITION REQUEST ACKNOWLEDGE message.**
2. **FFS whether to introduce a new indicator in the S-NODE CHANGE REQUIRED message, S-NODE CHANGE CONFIRM message for SN initiated inter-SN selective activation,**
3. **FFS whether to introduce a new indicator in the S-NODE MODIFICATION REQUIRED message for intra-SN selective activation.**
4. **FFS whether to introduce a new indicator in the UE CONTEXT SETUP REQUEST message and the UE CONTEXT MODIFICATION REQUEST message to indicate that the request is for selective activation.**

**FFS whether to introduce a new indicator or reuse existing indicator in the UE CONTEXT SETUP RESPONSE message and in the UE CONTEXT MODIFICATION RESPONSE message to indicate whether the associated SCG configuration is a delta with respect to the reference SCG configuration.**

## 15 Enhancements of NR Multicast and Broadcast Services WI

WID [NR\_MBS\_enh]: [RP-213568](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_94e/Docs/RP-213568.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 15.1 General

**R3-231153 Introduction of NR MBS enhancements (BL CR to 38.401)**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0281 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

(Replaces R3-231046)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231154 (BLCR to 38.300) NR\_MBS-enh**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-231058)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

### 15.2 Support for MBS reception in RAN sharing scenarios

**R3-231187 Support of MBS in RAN sharing scenarios**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-230081)

**Decision:** The document was **noted**.

**R3-231197 Sharing processing for both unicast reception and broadcast reception**

*Type: discussion For: Discussion  
 Source: TD Tech, Chengdu TD Tech*

**Abstract:**

Sharing processing for both unicast reception and broadcast reception

**Decision:** The document was **noted**.

**R3-231252 Discussions and proposals concerning Rel-18 work on MBS reception in RAN sharing scenarios**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231283 (TP for TS 38.300) RAN Impacts of Rel-18 RAN Sharing Solutions**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231336 (TP for 38.473)Discussion on MBS RAN sharing**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231350 (TP for 38.413/38.473/38.401)Discussion on efficient MBS reception in RAN sharing scenario**

*Type: other For: (not specified)  
 Source: CATT,CBN,China Telecom*

**Decision:** The document was **noted**.

**R3-231397 (TPs to TS 38.401, 38.410, 38.413, 38.473 BL CRs) MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 Source: Huawei, CBN*

**Decision:** The document was **noted**.

**R3-231445 Remaining issue of supporting MBS reception in RAN Sharing**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231503 TP to TS 38.413 and 38.473 with discussion on network sharing of MBS**

*Type: discussion For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**# MBS1\_NetworkSharing**

**- Review of previous WA: Associated Session ID is per TMGI per Area Session ID (pending on SA2?)**

**- How to enable option 4 (i.e., optionally establishing NG-U tunnel, and gNB decides establishing tunnel in later phase)**

**- In case of MOCN, impacts to F1 interface (e.g., single or multiple F1AP, single or multiple F1-U)**

**- Whether and how the MRB configuration are aligned in case of RAN sharing with multiple Cell IDs (e.g., DU to arbitrates)?**

**- Capture agreements and open issues, provide TPs if agreeable**

**- LS to other WGs?**

**R3-231887 CB: # MBS1\_NetworkSharing- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

Support of location dependent services

**WA: In case of location dependent broadcast services, the gNB deduces identical broadcast content from the MBS Associated Session ID and the MBS Service Area information provided by the participating 5GCs. (to be checked against the actual SA2 agreements / agreed CR text.)**

QUALCOMM, Nokia, Huawei: Turn this WA to agreement.

NG functions

**WA: Introduce an explicit indication to 5GC in case that NG-U resources are not setup.** Details are FFS.

CATT: What’s the behavior in the MBS SMF side?

ERICSSON: This the difference compared with R17 function. It will be confused in the receiving node.

Huawei: Current IE is optional IE.

Samsung: The indication tells the receiving node that it’s because sharing not the other cases.

Nokia: Support ERICSSON’s view.

F1 functions

**Agreements:**

**Support, for MOCN, sharing of F1-U resources among multiple broadcast MBS sessions with the same associated session ID.**

To be continued: Whether, for MOCN, F1 supports establishment of a single Broadcast Context for multiple MBS sessions at the DU.

PDCP aspects for RAN sharing with multiple Cell ID broadcast

**WA: In case of RAN sharing with multiple Cell ID broadcast, the entity controlling the logical DUs decides which MRB-PDCP-ConfigBroadcast to provide on MCCH.** Details are FFS.

“OAM solution”

RAN3 recognizes the fact that, although the gNB is an NG-RAN node, by approving [CR0176r9](http://3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_155_Athens_2023-02/Docs/S2-2303897.zip) as attached to the LS [R3-230789](http://3gpp.org/ftp/tsg_ran/WG3_Iu/TSGR3_119/LSin/R3-230789.zip), SA2 has obviously assumed responsibility for “UTRAN, E-UTRAN, and NG-RAN O&M requirements” for MBS, in contrast to the Terms Of References of RAN3 agreed at RP#91-e in [RP-210771](http://3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_91e/Docs/RP-210771.zip).

Two possibilities

Either Option 1: TSG RAN and TSG SA are informed about the de-facto change of Terms of References and asked for guidance.

Or Option 2: TSG SA WG2 is requested to remove specification text outside their responsibility and TSG RAN and TSG SA are requested to ensure that ToRs are respected and that sufficient time is given to co-ordinate Work Items spanning across multiple TSGs.

No RAN3 specification work is needed following the approving CR0176r9 for TS 23.247 as attached to the LS R3-230789 from SA2.

QUALCOMM, Nokia: Cannot agree with those green texts

ERICSSON: It’s not acceptable that SA2 covers the topic belongs to RAN3

HUAWEI: Share the view as ERICSSON, but focus on RAN3 staff

Nokia: Do not see the conflict on CR proposed in RAN3

ZTE: Share the view as HW

**Identify RAN3 specification towards OAM requirement on network sharing if any.**

### 15.3 Support for RRC\_INACTIVE state

**R3-231188 Enhancements to support Multicast reception by UEs in RRC\_INACTIVE state**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-230083)

**Decision:** The document was **noted**.

**R3-231198 Multicast reception in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: TD Tech, Chengdu TD Tech*

**Abstract:**

Multicast reception in RRC\_INACTIVE state

**Decision:** The document was **noted**.

**R3-231253 Discussions and proposals concerning Rel-18 work on multicast reception in RRC\_INACTIVE**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231284 (TP for TS 38.413, TS 38.423 and TS 38.300) MBS Reception in RRC inactive state**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231335 Discussion on MBS reception by inactive state UE**

*Type: discussion For: (not specified)  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231379 MBS Inactive Reception**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231398 (TPs to TS 38.300, 401, 413, 423,470, 473 BL CRs) Multicast Reception for RRC\_INACTIVE state Ues**

*Type: other For: Agreement  
 Source: Huawei, CBN*

**Decision:** The document was **revised to R3-231981**.

**R3-231981 (TP to TS 38.423 BL CR) Multicast Reception for RRC\_INACTIVE state Ues**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source: Huawei, CBN*

(Replaces R3-231398)

**Decision:** The document was **noted**.

**R3-231444 Support of multicast reception in RRC\_INACTIVE**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231463 (TP for 38.401/38.413/38.423/38.473) Discussion on multicast over RRC INACTIVE**

*Type: discussion For: Decision  
 Source: CATT,CBN,China Telecom*

**Decision:** The document was **revised to R3-232029**.

**R3-232029 (TP for 38.413) Introduction of multicast over RRC INACTIVE**

*Type: discussion For: Decision  
 Source: CATT,CBN,China Telecom*

(Replaces R3-231463)

**Decision:** The document was **noted**.

**R3-231464 Proposal on how to proceed on assistant information from CN to NG-RAN node**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231504 Multicast reception in RRC\_INACTIVE**

*Type: discussion For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231809 Multicast Reception in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231199 Multicast reception in RRC\_INACTIVE state**

*Type: discussion For: Discussion  
 Source: TD Tech, Chengdu TD Tech*

**Abstract:**

Multicast reception in RRC\_INACTIVE state

**Discussion:**

No available, Withdrawn

**Decision:** The document was **withdrawn**.

**# MBS2\_RRCInactive**

**- Interpretation to the new assistance information IE from 5GC**

**- Network interface impacts from the new assistance information IE (e.g., NG, F1 and Xn, at least as part of UE contexts)**

**- F1AP impacts to support multicast reception in RRC\_INACTIVE (e.g., PTM config coordination, F1 tunnel and SIB/MCCH delivery)**

**- Particularly, CU and DU's role on enabling multicast reception in RRC\_INACTIVE (e.g., who to trigger, who to decide and what to configure)**

**- Enhancement of NG/F1/Xn Group Paging for session state change**

**- Enhancement of HO procedure when target cell is congested**

**- Network awareness of the distribution of UEs receiving multicast in RRC\_INACTIVE**

**- Capture agreements and open issues, provide TPs if agreeable**

**- LS to other WGs?**

**R3-231888 CB: # MBS2\_RRCInactive- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

(TP for TS 38.300) MBS Reception in RRC Inactive state in [R3-231975](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231975.zip) rev in [R3-232121](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232121.zip)

(TP to TS 38.470 BL CR) Multicast Reception for RRC\_INACTIVE state UEs in [R3-231982](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231982.zip) rev in [R3-232165](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232165.zip)

(TP for TS 38.401) Further text for support multicast reception in RRC\_INACTIVE in [R3-232057](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232057.zip)

**R3-231975 (TP for TS 38.300) MBS Reception in RRC Inactive state**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232121**.

**R3-232121 (TP for TS 38.300) MBS Reception in RRC Inactive state**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE*

(Replaces R3-231975)

**Decision:** The document was **agreed**.

**R3-231982 (TP to TS 38.470 BL CR) Multicast Reception for RRC\_INACTIVE state Ues**

*Type: other For: Agreement  
 38.470 v17.4.0  
 Source: Huawei, Lenovo, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-232165**.

**R3-232165 (TP to TS 38.470 BL CR) Multicast Reception for RRC\_INACTIVE state Ues**

*Type: other For: Agreement  
 38.470 v17.4.0  
 Source: Huawei, Lenovo, Nokia, Nokia Shanghai Bell*

(Replaces R3-231982)

**Decision:** The document was **agreed**.

**R3-232057 [TP for TS 38.401] Further text for support multicast reception in RRC\_INACTIVE**

*Type: other For: Agreement  
 38.401 v17.4.0  
 Source: Ericsson*

**Decision:** The document was **agreed**.

Introduce an MBS related assistance information in NGAP: MBS Session Setup Request List IE and MBS Session Setup or Modify Request List IE in the PDU Session related messages?

This MBS Assistance Information is purely assistance information which does not control on the RRC state of UE which is up to gNB implementation?

ERICSSON: Is this the assistance information or the controlling information?

QUALCOMM, Huawei, Nokia: It’s purely assistance information

CATT: The final decision is performed in NG-RAN node.

ZTE: Agree with some progress but leave the controversial part as FFS

Transfer MBS assistance information in Xn based handover procedure and Retrieve UE context procedure, irrespective the MBS session state?

**LS SA2 on RAN3 current discussion progress of the 5GC assistance information (e.g., clarification from SA2)**

**Agreements:**

**Additional protocol function for multicast MCCH configuration is expected to be included in F1 Multicast Context management procedures, based on RAN2 progress on MCCH matters.**

Samsung: What’s the meaning of protocol enhancements?

**Agreements:**

**RAN3 acknowledged the new SIB defined in RAN2 and how to introduce the new SIB over F1 needs to be further discussed.**

ERICSSON: Not mix F1 interface management function with MBS management

HUAWEI: It’s only related to new SIB introduced by MBS

ZTE, Nokia: In RAN2 discussion, SIB20 is designed for MBS

Lenovo: RAN2 has already agreed a new SIB for multicast MCCH.

**Agreements:**

**XnAP signalling for exchange of neighbour cells’ PTM configuration is not supported.**

**No enhancement to enable network to be aware of the distribution of UEs receiving multicast in RRC\_INACTIVE is agreed.**

Session activation indication is included in the NGAP: MULTICAST GROUP PAGING message, to enable the gNB to notify UEs about session activation and remain in RRC\_INACTIVE state for multicast reception?

ERICSSON: Why we should not keep the separation as R17, how to define the indication should be FFS

Samsung: Would like to keep this open

On how to support PTM config delivery via RRCRelease on F1AP, RAN3 wait for RAN2’s further progress.

Wait for RAN2 decision on whether to provide PTM configurations of neighbour cells in intra CU inter DU scenario.

Whether and how to enhance Xn/F1 Group paging are pending on RAN2's further progress.

Whether gNB-CU notifies gNB-DU of multicast session states change is pending on RAN2 progress.

RAN3 to confirm the following HO scenario and whether any enhancement is needed: an RRC\_CONNECTED UE only receiving the multicast session in the source cell, that is about to be HO'd to a congested target cell which has established the MBS session and RRC\_INACTIVE reception is enabled.

2nd Round:

Check TPs based on agreements

## 16 NR Sidelink Relay Enhancements WI

WID [NR\_SL\_relay\_enh]: [RP-223501](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223501.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 16.1 General

**R3-231149 (BLCR) Support for NR Sidelink Relay Enhancements**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0928 rev 2 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm, Ericsson, CMCC, ZTE, Samsung, LG Electronics, Huawei*

(Replaces R3-230896)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231150 (BLCR) Support NR Sidelink Relay Enhancements**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0967 rev 2 Cat: B (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, ZTE, Samsung, Huawei, CATT, LG Electronics, CMCC*

(Replaces R3-230897)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231151 (BLCR) Support for NR Sidelink Relay Enhancements**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1123 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, CMCC, LGE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces R3-230898)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231152 (BLCR to 38.401) Introduction of NR SL relay enhancements**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0285 rev 1 Cat: B (Rel-18)  
  
 Source: LG Electronics*

(Replaces R3-231056)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

### 16.2 Support Relay and Remote UE Authorization

### 16.3 Support Service Continuity Enhancements

**R3-231213 (TPs to TS 38.401 and TS 38.423) Remaining open issues on service continuity enhancement**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231256 Further discussion on service continuity for SL relay**

*Type: discussion For: Discussion  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231272 (TP for BLCR for 38.401 and 38.423): Inter-gNB mobility**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **revised to R3-231954**.

**R3-231954 (TP for BLCR for 38.423): Inter-gNB mobility**

*Type: other For: Approval  
 37.423 v17.4.0  
 Source: Huawei*

(Replaces R3-231272)

**Decision:** The document was **revised to R3-232155**.

**R3-232155 (TP for BLCR for 38.423): Inter-gNB mobility**

*Type: other For: Approval  
 37.423 v17.4.0  
 Source: Huawei*

(Replaces R3-231954)

**Decision:** The document was **agreed**.

**R3-231374 Discussion on remaining issue to support service continuity**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231446 Service continuity for U2N relay**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231474 Discussion on Support Service Continuity Enhancements**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231508 Inter-gNB mobility for L2 U2N relay**

*Type: discussion For: Agreement  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231558 Discussion on Service Continuity Enhancements for SL relay**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231571 Inter-gNB Service Continuity for L2 U2N Relay**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231693 Support of service continuity enhancement for U2N relay**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**R3-231793 Service continuity for U2N relay**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**# SLRelay1\_ServiceContinuity**

**- Support Remote UE L2 ID and the list of candidate Relay UE IDs as explicit IEs in HANDOVER REQUEST message over XnAP, and the maximum number of candidate relay UEs? the list of candidate Relay UE IDs is included in Source NG-RAN Node to Target NG-RAN Node Transparent Container IE, Target NG-RAN Node to Source NG-RAN Node Transparent Container IE?**

**- Working on the stage-2 baseline flowchart of inter-gNB i2d path switching, inter-gNB d2i path switching, inter-gNB i2d path switching, intra-gNB indirect-to-indirect path switching.**

**- Whether and how to restrict gNB behavior of relay UE selection?**

**- Capture the agreements and open issues.**

**R3-231889 CB: # SLRelay1\_ServiceContinuity- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231942**.

**R3-231942 CB: # SLRelay1\_ServiceContinuity- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

(Replaces R3-231889)

**Decision:** The document was **noted**.

(TP for SL relay BLCR for TS 38.401) Call flows for inter-gNB-CU switch from direct to indirect path in [R3-231956](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231956.zip)

TP to TS 38.413 for inter-gNB mobility of L2 U2N relay in [R3-231968](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231968.zip) rev in [R3-231976](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231976.zip)

**R3-231956 (TP for SL relay BLCR for TS 38.401) Call flows for inter-gNB-CU switch from direct to indirect path**

*Type: other For: Approval  
 38.401 v17.4.0  
 Source: LG Electronics*

**Decision:** The document was **agreed**.

**R3-231968 TP to TS 38.413 for inter-gNB mobility of L2 U2N relay, as guidance in CB: # SLRelay1\_ServiceContinuity**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: China Telecom*

**Decision:** The document was **revised to R3-231976**.

**R3-231976 (TP for BLCR for 38.413): Inter-gNB mobility**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: China Telecom*

(Replaces R3-231968)

**Decision:** The document was **agreed**.

**Agreements:**

**For XnAP HANDOVER REQUEST message:**

* **Add a new IE containing a list (up to 32) of candidate Relay UE IDs.**
* **No need to introduce new IE for remote UE ID.**
* **The *UE Context information* IE is needed for remote UE.**

**Common Understanding is source gNB can initiate parallel Xn handover preparation to multiple target gNBs, and the XnAP HANDOVER REQUEST message sent to a target gNB only include candidate Relay UEs of same cell of the target gNB. So no need to have any restriction on how source gNB select candidate target Relay UE.**

**RAN3 will not further discuss**

* **source gNB provides the Measurement results for a list of candidate relay UEs to target gNB**
* **target gNB page Relay UE to transition it to RRC CONNECTED.**
* **target gNB can select a candidate relay UE not included in the list provided by source gNB.**

CATT: rewording for “not further discuss”

Samsung: remove the 1st sub-bullet as agree before.

Proposal 1-4: continue discussion on

The list of candidate Relay UEs is an ordered list, e.g. based on the Remote UE’s measurement report on candidate Relay UEs.

Target gNB include the selected target Relay UE in the XnAP HANDOVER REQUEST ACKNOWLEDGE message

Proposal 1-5: RAN3 wait for RAN2 progress on Lossless path switch.

ZTE: This proposal is not needed.

**Agreements:**

**For NGAP, add a new IE containing a list (up to 32) of candidate Relay UE IDs in the *Source NG-RAN Node to Target NG-RAN Node Transparent Container* IE.**

**For TS38.401, add the call flow for inter-CU direct to indirect path switch (inter-CU D2I).**

### 16.4 Multi-path Support

**R3-231214 (TP to TS 38.401) Path addition and release for multipath for sidelink relay**

*Type: other For: Agreement  
 38.401 v17.4.0  
 Source: Samsung*

**Decision:** The document was **revised to R3-232088**.

**R3-232088 (TP to TS 38.401) Path addition for multipath for sidelink relay**

*Type: discussion For: Agreement  
 38.401 v17.4.0  
 Source: Samsung, LGE*

(Replaces R3-231214)

**Decision:** The document was **agreed**.

**R3-231257 Discussion on multi-path relay support**

*Type: discussion For: Discussion  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231273 (TP for BLCR for 38.473) Multi-path relay**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231375 Discussion on remaining issue of multi-path support**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231475 discussion on the support for multi-path**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231507 On multi-path change for sidelink relay**

*Type: discussion For: Approval  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231559 Discussion on Multi-path Support for SL relay**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231572 (TP for SL Relay BL CR to TS 38.401) Multi-path for Sidelink Relay**

*Type: other For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231694 (TP to TS 38.401) Further consideration on multi-path support**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**R3-231794 (TP to TS 38.401)Considerations on multi-path for SL relay**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**# SLRelay2\_Multipath**

**- How to release the configured paths at the gNB-DU, i.e. candidate solutions.**

**- Define the responsibility for gNB-CU and gNB-DU for Scenario 2.**

**- Check “remove part of UE measurements reporting from step 1 in the stage-2 signaling flows” for stage-2?**

**- Discuss on intra-DU direct path addition, indirect path addition signalling procedure.**

**- Capture the agreements and open issues.**

**R3-231890 CB: # SLRelay2\_Multipath- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: LG - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231943**.

**R3-231943 CB: # SLRelay2\_Multipath- Summary of email discussion**

*Type: discussion For: Discussion  
 Source: LG - moderator*

(Replaces R3-231890)

**Decision:** The document was **noted**.

**Agreements:**

**RAN3 further wait for RAN2 progress before removing two Editor’s notes in BL CR to TS 38.401.**

**For intra-DU case, the gNB-CU should inform the gNB-DU about the path to be added, released or modified.**

**The Relay UE L2 ID for indirect path addition and the PCell ID for direct path addition should be provided to the gNB-DU. Whether to inform the gNB-DU of other information needs to be further discussed.**

**The radio bearer type and channels mapping to be added can be provided to the gNB-DU by Rel-17 U2N relay signaling design.**

(WA) The explicit indication (i.e., release of direct path, release of indirect path, or release of both paths) should be provided to the gNB-DU to release the configured paths at the gNB-DU.

CATT: The WA is not needed. Further discuss on P2, and the addition, release, modification together.

**Agreements:**

**Add the intra-DU path addition procedure in the BL CR to TS 38.401.**

**Continue to review the intra-DU path addition procedure in R3-231214 in 2nd phase of this CB. Whether to add other procedures in TS 38.401 needs to be further discussed.**

**Agreements:**

**For Scenario 2, the responsibility for gNB-CU and gNB-DU are defined as follows:**

* **gNB-CU’s responsibility:**
  + **Remote UE and relay UE context maintenance**
  + **Remote UE bearer mapping**
  + **Relaying Uu RLC channel management**
* **gNB-DU’s responsibility:**
  + **Determine the RLC/MAC/PHY Configuration for the Uu Relay RLC channels of relay UE**
* **The responsibility for gNB-CU and gNB-DU can be further enhanced based on RAN2 progress.**

FFS: whether to explicitly or implicitly inform the gNB-CU that the old path should be kept depends on stage 3 design.

**Agreements:**

**WA: For the intra-DU case, the gNB-DU should take the responsibility of mode 1 resource scheduling for both U2N relay UE and U2N remote UE.**

## 17 NR NTN enhancements WI

WID [NR\_NTN\_enh]: [RP-230779](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230779.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 17.1 General

**R3-231139 XnAP BLCR on NTN Functionality**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0933 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei, Ericsson, Thales, ZTE, Omnispace, TTP, Nokia, Nokia Shanghai Bell, CATT, Hughes, EchoStar, CMCC*

(Replaces R3-230059)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231140 (BLCR) Stage 2 BL CR for NR NTN**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: Ericsson, CATT, Thales, Huawei, Samsung, ZTE, Nokia, Nokia Shanghai Bell, Qualcomm*

(Replaces R3-231060)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231364 R18 WI NR-NTN-enh work plan at RAN1, 2 and 3**

*Type: Work Plan For: Agreement  
 Source: THALES*

**Discussion:**

Move to 17.1

**Decision:** The document was **noted**.

### 17.2 Support Mobility and Service Continuity Enhancements

**R3-231215 Remaining open issues on service continuity enhancement for NTN**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231255 Cell ID over Xn for NTN**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated, CATT, Nokia, Nokia Shanghai Bell, NEC*

**Decision:** The document was **noted**.

**R3-231258 Discussion on NTN Service Continuity Enhancements**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231387 Discussion on Mobility and Service Continuity Enhancements for NTN**

*Type: discussion For: Discussion  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231417 NGAP Support for Time-Based HO in NTN**

*Type: other For: Discussion  
 38.300 v..  
 Source: Ericsson, Thales, Intelsat, Lockheed Martin, Hughes Network Systems, CATT, ESA*

(Replaces R3-230436)

**Decision:** The document was **revised to R3-232093**.

**R3-232093 NGAP Support for Time-Based HO in NTN**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Ericsson, Thales, Intelsat, Lockheed Martin, Hughes Network Systems, CATT, ESA*

(Replaces R3-231417)

**Abstract:**

TP to TS 38.300

**Decision:** The document was **revised to R3-232159**.

**R3-232159 NGAP Support for Time-Based HO in NTN**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Ericsson, Thales, Intelsat, Lockheed Martin, Hughes Network Systems, CATT, ESA*

(Replaces R3-232093)

**Abstract:**

TP

**Discussion:**

Qualcomm: Has concern on which section to capture this, need to discuss this further.

Verizon: Good to have call flow here

Huawei: Do not need to over-specify

CATT: Section is correct

**Decision:** The document was **noted**.

**R3-231418 Time-Based HO for NTN - NGAP Impacts**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0891 rev 4 Cat: B (Rel-18)  
  
 Source: Ericsson, Thales, ZTE, Omnispace, TTP, CATT, Hughes Network Systems, Huawei, Lockheed Martin, Intelsat, CATT, ESA*

(Replaces R3-230438)

**Decision:** The document was **noted**.

**R3-231419 Time Margin for CHO in NR NTN**

*Type: discussion For: Discussion  
 Source: Ericsson, Thales*

(Replaces R3-230441)

**Decision:** The document was **noted**.

**R3-231420 Time Margin for CHO in NR NTN - XnAP Impact**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson LM*

**Decision:** The document was **noted**.

**R3-231476 Discussion on the time-based trigger condition in NR NTN**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231477 Support time-based trigger condition in NG-HO**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0973 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231509 Remaining issues on NTN mobility enhancement**

*Type: discussion For: Discussion  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231669 Discussion Mobility and Service Continuity Enhancements for NTN**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231691 Further discussion on mobility issue for NR NTN**

*Type: discussion For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231697 (TP for NTN BL CR 38.300) Cell ID for non-UE associated Xn procedures**

*Type: other For: Approval  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231756 Further discussion on cell ID usage and TAC**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231757 Further discussion on NG HO**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231684 Discussion on Mobility and Service Continuity Enhancements**

*Type: discussion For: Discussion  
 Source: NEC Corporation*

**Decision:** The document was **withdrawn**.

**# NTN1\_ServiceContinuity**

**- Cell ID exchanged via Xn Setup and Configuration Update messages?**

**- Multiple TACs over Xn?**

**- Details of time-based HO info over NG, e.g., time-related info, data forwarding enhancement?**

**- Any other issues?**

**- Capture agreements and provide TPs if agreeable**

**R3-231892 CB: # NTN1\_ServiceContinuity - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Samsung - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

(TP for BL CR 38.300) data forwarding in HO with time-based trigger condition in [R3-232123](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232123.zip)

**R3-232123 (TP for BL CR 38.300) data forwarding in HO with time-based trigger condition**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Samsung*

**Decision:** The document was **noted**.

**WA: Uu Cell ID is used to be exchanged via Xn Setup and Configuration Update procedure.**

Do not exchange TAC(s) over Xn for NTN. Solution to be further discussed. To be continued...

QUALCOMM: The first of WA can be turned to agreement. Do not agree with p2.

HUAWEI: There is no issue to use mapped cell ID.

CATT: It reflects majority’s view, can be turned to agreement

Nokia: p1 is ok, p2 is not correct, if not exchanging multiple TACs in serving cell information, then it needs clarification which TAC is to be exchanged, this IE is mandatory

NEC: Prefer to turn them as agreements

ZTE: Turn p1 to agreement, p2 needs further discussion

Samsung: P1 can be turned to agreement, p2 also reflects majority’s view

**Agreements:**

**Confirm to add the handover window start and duration IEs to the NGAP Source NG-RAN Node to Target NG-RAN Node Transparent Container IE.**

**Confirm to enhance the early data forwarding with data discarding for NG HO. FFS on details, e.g. Introduce a DL discarding related IE in Early Status Transfer Transparent Container IE.**

Nokia: Clarification on the blue text.

HUAWEI: Better to work on this in next meeting.

To address the issue of time delay in CHO with time condition, the target gNB may wait for an additional time after the CHO time window has expired, according to implementation?

QUALCOMM: Prefer the original text.

CATT: There is no spec impact. Remove blue text.

Samsung: Still some company has not acked the issue

NEC: Most companies would like to rely on gNB implementation.

**No consensus on the exchanging of serving cell coverage stop time over Xn, unless clear advantage(s) of Xn signaling over OAM configuration is newly identified.**

QUALCOMM: Leave it to contribution driven

**RAN3 understands a source gNB can only prepare one potential target cell for NG HO as stated in TS38.413.**

HUAWEI: Not confident on single target cell for NG HO

Nokia: In TS38.413, it is already stated that source gNB can only initiate one HO preparation procedure with one target cell.

**Continue on working on stage2 TP and stage3 TPs based on agreements, to be continued...**

### 17.3 Network verified UE location

**R3-231328 Consideration on OAM requirements for UE location verification**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231421 Latency Impact of Network Verified UE Location for NTN**

*Type: discussion For: Agreement  
 Source: Ericsson, CATT, Huawei*

(Replaces R3-230444)

**Decision:** The document was **noted**.

**R3-231453 OAM Requirements for UE Location Verification**

*Type: draftCR For: Endorsement  
 38.305 v17.4.0  
 Source: Ericsson, CATT, Huawei*

**Decision:** The document was **noted**.

**R3-231670 [Draft]LS on OAM requirements for UE location verification**

*Type: LS out For: Approval  
 to SA5, cc RAN1, RAN2, SA2  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231758 (TP to 38.300) OAM Requirements for UE Location Verification**

*Type: other For: (not specified)  
 Source: Huawei, Ericsson, CATT*

**Decision:** The document was **noted**.

**R3-231759 Discussion on network verified UE location**

*Type: discussion For: (not specified)  
 Source: Huawei, Ericsson, CATT*

**Decision:** The document was **noted**.

**# NTN2\_LocationVerification**

**- Any RAN3 impact based on the updated WID?**

**- Reply LS on latency impact of network verified UE location?**

**- Capture agreements and provide TPs if agreeable**

**R3-231893 CB: # NTN2\_LocationVerification - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**Whether to send an LS to SA2 to clarify the understanding of RAN3, that is no services can be provided to the NTN UE until its location has been verified at initial network attach?**

In addition, many other services should also not be provided to the NTN UE until its location has been verified.

HUAWEI: LS to SA2 is needed. Mobility is also under the discussion.

Nokia: Both SA1 and SA2 said the UE location verification procedure can be performed during initial network attach. RAN3 has no knowledge about the service. After the UE is registered, the first AMF can do location verification and inform UE to re-register the proper AMF via NAS signaling.

QUALCOMM: Agree with Nokia. It’s under the scope of SA2, if there is any issue, it can be raised in SA2 directly

CATT: For cross country scenario, it is valid.

ERICSSON: Disagree with QUALCOMM and Nokia.

## 18 IoT NTN Enhancements WI

WID [IoT\_NTN\_enh]: [RP-223519](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223519.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 18.1 General

**R3-231138 (BLCR) X2AP CR on IoT NTN Functionality**

*Type: CR For: Endorsement  
 36.423 v17.4.0 CR-1734 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, CATT, Nokia, Nokia Shanghai Bell, Qualcomm, ZTE, CMCC, Ericsson, Samsung*

(Replaces R3-230938)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231141 (BLCR to 36.300) IoT NTN enhancements**

*Type: draftCR For: Endorsement  
 36.300 v17.4.0  
 Source: ZTE, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson*

(Replaces R3-231041)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231142 (BLCR) Support for IoT NTN enhancements**

*Type: CR For: Endorsement  
 36.413 v17.4.0 CR-1895 rev 6 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Thales, Ericsson, Huawei, ZTE*

(Replaces R3-230068)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

### 18.2 Support discontinuous coverage

**R3-231454 Time Margin for CHO in IoT NTN**

*Type: discussion For: Discussion  
 Source: Ericsson, Inmarsat, ESA*

(Replaces R3-230451)

**Decision:** The document was **noted**.

**R3-231455 Time-Based HO and IoT NTN**

*Type: other For: Agreement  
 36.300 v..  
 Source: Ericsson, CATT, ESA, Huawei*

(Replaces R3-230794)

**Decision:** The document was **noted**.

**R3-231456 Time-Based HO for IoT NTN - S1AP Impacts**

*Type: other For: Agreement  
 36.413 v..  
 Source: Ericsson, Huawei, CATT, ESA*

(Replaces R3-230795)

**Decision:** The document was **noted**.

**R3-231457 Which Core Network for Rel-18 IoT NTN?**

*Type: discussion For: Discussion  
 Source: Ericsson LM*

**Decision:** The document was **noted**.

**R3-231478 (TP for BL CR 36.300) on data forwarding in X2-CHO with time-based trigger condition**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231597 (TP for BL CR 36.413 & 38.413) Further discussion on UE context release issue**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231677 Discussion on supporting discontinuous coverage**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231692 Further discussion on discontinuous coverage issue for IoT NTN**

*Type: discussion For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231225 TP for BL CR 36.300 on NTN Handover Cell ID**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, ZTE, Deutsche Telekom, Verizon Wireless, NEC, Huawei, CATT*

**Decision:** The document was **agreed**.

**# IoTNTN\_Coverage**

**- Cell ID for X2/S1 handover signaling?**

**- Semantics description on User Location Information IE in UE CONTEXT RELEASE COMPLETE message?**

**- Clarification on the scope of discontinuous coverage issue, i.e., whether to consider the 5GC?**

**- Follow the progress for time-based HO/CHO in NR NTN.**

**- Capture agreements and provide TPs if agreeable**

**R3-231894 CB: # IoTNTN\_Coverage - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**Agreements:**

**The Uu cell ID is used as the target cell ID in both S1 and X2 handover signalling.**

**There is no need to consider the 5GC for discontinuous coverage issue in Rel-18 IoT NTN WI.**

**Regarding the duplicated issues, IoT NTN shall wait for the corresponding progress in NR NTN.**

**No consensus on addition of the semantics description on the ULI IE in UE CONTEXT RELEASE COMPLETE message.**

## 19 NR support for UAV WI

WID [NR\_UAV]: [RP-230782](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230782.zip) (target: RAN #102) [TU: 0]

### 19.1 General

**R3-231143 (BLCR) Draft CR to 38.300 on NR support for UAV**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, Intel Corporation, ZTE, Ericsson, Samsung, CATT, Qualcomm, Deutsche Telekom, NEC*

(Replaces R3-230063)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231144 (BLCR) Introduction of Aerial authorization information**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0618 rev 8 Cat: B (Rel-18)  
  
 Source: Ericsson, AT&T, NTT DOCOMO INC, Qualcomm Incorporated, Intel Corporation, Samsung, NEC, Nokia, Nokia Shanghai Bell, Huawei, ZTE, CATT*

(Replaces R3-230065)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231145 NR support for UAV over Xn**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0951 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei, China Unicom, China Telecom, CATT, Intel Corporation, ZTE, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-230066)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

No need to resubmit those BL CRs till RAN3#122

**Decision:** The document was **endorsed**.

### 19.2 Support Subscription-based Aerial-UE Identification

## 20 NR MT-SDT WI

WID [NR\_MT\_SDT]: [RP-213583](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_94e/Docs/RP-213583.zip) (target: RAN #101) [TU: 0.5 (**0.5**, 0.5, 0.5)]

### 20.1 General

**R3-231155 Introduction of MT-SDT**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-1010 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson, ZTE, Intel Corporation, Nokia, Nokia Shanghai Bell, China Telecom, Huawei*

(Replaces R3-231049)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231156 Introduction of MT-SDT**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1140 rev 1 Cat: B (Rel-18)  
  
 Source: Intel Corporation, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-231050)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231157 (BLCR to 37.483) for MT-SDT**

*Type: CR For: Endorsement  
 37.483 v17.4.0 CR-0054 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE, Ericsson, Intel Corporation, China Telecom, Huawei*

(Replaces R3-231051)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231158 Introduction of MT-SDT (BLCR to 38.401)**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0284 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Intel Corporation, China Telecom*

(Replaces R3-231052)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

### 20.2 Support for Paging-Triggered SDT

**R3-231186 Signaling enhancements to enable MT-SDT for RRC\_INACTIVE UEs.**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-230082)

**Decision:** The document was **noted**.

**R3-231233 Introduction of MT-SDT**

*Type: draftCR For: (not specified)  
 38.300 v17.4.0  
 Source: ZTE, China Mobile, China Telecom*

**Decision:** The document was **noted**.

**R3-231234 (TP to 38.423, 38.473, 37.483) Introduction of MT-SDT**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **revised to R3-231957**.

**R3-231957 (TP to 38.423, 38.473, 37.483) Introduction of MT-SDT**

*Type: other For: -  
 Source: ZTE*

(Replaces R3-231234)

**Decision:** The document was **revised to R3-232086**.

**R3-232086 (TP for BLCR to 37.483) Introduction on MT-SDT**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, Nokia, Nokia Shanghai Bell, Xiaomi, Ericsson, LG Electronics, Lenovo*

(Replaces R3-231957)

**Decision:** The document was **agreed**.

**R3-231285 (TP for TS 38.423) Discussion on MT-SDT Open Points**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Orange*

**Decision:** The document was **revised to R3-231958**.

**R3-231958 (TP for TS 38.423) Discussion on MT-SDT Open Points**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell, Orange*

(Replaces R3-231285)

**Decision:** The document was **revised to R3-232087**.

**R3-232087 (TP for TS 38.423) Discussion on MT-SDT Open Points**

*Type: other For: Agreement  
 37.423 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, Orange, ZTE, CATT, Lenovo, Ericsson*

(Replaces R3-231958)

**Decision:** The document was **agreed**.

**R3-231286 (TP for TS 37.483) Support of Paging Triggered MT-SDT**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Orange*

**Decision:** The document was **noted**.

**R3-231395 (TPs to TS 38.300, 38.423 BL CRs) Consideration on MT-SDT**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231396 (TPs to TS 38.401, 38.473 and 37.483 BL CRs) MT-SDT in disaggregated architecture**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **revised to R3-231994**.

**R3-231994 (TP to TS 38.401 BL CR) MT-SDT in disaggregated architecture**

*Type: other For: Agreement  
 Source: Huawei*

(Replaces R3-231396)

**Decision:** The document was **revised to R3-232124**.

**R3-232124 (TP to TS 38.401 BL CR) MT-SDT in disaggregated architecture**

*Type: other For: Agreement  
 Source: Huawei, ZTE, Nokia, Nokia Shanghai Bell, Google, LG Electronics, CATT, Lenovo, Ericsson*

(Replaces R3-231994)

**Decision:** The document was **agreed**.

**R3-231451 (TP to TS 38.420) Support for Paging-Triggered SDT**

*Type: other For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **revised to R3-231959**.

**R3-231959 (TP to TS 38.420) Support for Paging-Triggered SDT**

*Type: other For: Agreement  
 Source: Lenovo*

(Replaces R3-231451)

**Decision:** The document was **revised to R3-232114**.

**R3-232114 (TP to TS 38.420) Support for Paging-Triggered SDT**

*Type: other For: Agreement  
 38.420 v17.2.0  
 Source: Lenovo, CATT, ZTE*

(Replaces R3-231959)

**Decision:** The document was **agreed**.

**R3-231527 Discussion on leftover issues of MT-SDT**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231581 Support of MT-SDT in Split Architecture**

*Type: discussion For: (not specified)  
 Source: China Telecom*

**Decision:** The document was **noted**.

**R3-231582 Discussion on MT-SDT Procedure**

*Type: discussion For: (not specified)  
 Source: China Telecom*

**Decision:** The document was **noted**.

**R3-231639 Discussion on MT-SDT open issues**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231640 (TP to TS 38.473 BL CR for MT-SDT): Support of MT-SDT Paging**

*Type: other For: Agreement  
 Source: Ericsson*

**Decision:** The document was **revised to R3-231960**.

**R3-231960 (TP to TS 38.473 BL CR for MT-SDT): Support of MT-SDT Paging**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Ericsson, ZTE, Nokia, Nokia Shanghai Bell, LG Electronics, CATT, Lenovo, China Telecom*

(Replaces R3-231640)

**Decision:** The document was **agreed**.

**R3-231671 Further discussion on MT-SDT**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231672 (TP for MT-SDT BL CR to TS 38 300) Support of MT-SDT**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **revised to R3-231961**.

**R3-231961 (TP for MT-SDT BL CR to TS 38 300) Support of MT-SDT**

*Type: other For: Approval  
 Source: CATT*

(Replaces R3-231672)

**Decision:** The document was **revised to R3-232108**.

**R3-232108 (TP for MT-SDT BL CR to TS 38 300) Support of MT-SDT**

*Type: other For: Approval  
 Source: CATT, Ericsson, ZTE, China Mobile, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, China Telecom, Huawei, Google*

(Replaces R3-231961)

**Decision:** The document was **agreed**.

**R3-231695 (TP to TS 38.423, 38.473 and 37.483) Support of MT-SDT**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**R3-231696 (TP to TS 38.300 and 38.401) MT-SDT Support**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**R3-231785 (TP for MT-SDT BLCR to TS 38.401) UE reaction to the Paging**

*Type: other For: Agreement  
 Source: Google Inc.*

**Decision:** The document was **noted**.

**R3-231838 Discussion of remaining issues on MT-SDT**

*Type: discussion For: (not specified)  
 Source: Samsung*

**Decision:** The document was **noted**.

**# SDT\_MTSDT**

**- Continue to discuss the open issues from last meeting**

**- The issue on DL Non-SDT data arrival during MT-SDT procedure?**

**- Stage2/stage3 TPs if agreeable and check details, split work**

**- Capture agreements and open issues**

**R3-231895 CB: # SDT\_MTSDT - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: ZTE - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

**Using unique BLCR Title: (BLCR to 38/37.xxx) Introduction on MT-SDT**

**Agreements:**

**Agree to reusing existing IE (i.e., SDT Support Request) within the XnAP Retrieve Context Request message when the UE resumes for MT-SDT, and there is no RAN3 standard impact.**

**Include an MT-SDT Information Request IE as optional IE in the E1AP: BEARER CONTEXT SETUP REQUEST/ MODIFICATION message to request the report of MT-SDT Information for bearers configured as SDT bearers.**

QUALCOMM: Clarify it is per DRB level

ZTE, Huawei, Nokia: Based on RAN2 agreement, MT-SDT Information Request IE is per UE level.

**Agreements:**

**For the issue on DL non-SDT data arrives during the ongoing MT-SDT procedure, RAN3 waits for RAN2 on whether any signaling enhancements are needed.**

**RAN3 acknowledges the case that DL non-SDT data arrives at the last serving gNB following the MT-SDT paging procedure before receiving UE Context Retrieval Request message. It is FFS whether it is left to gNB implementation, or reusing existing IE(s), or introducing a new IE.**

**In XnAP: RAN Paging message includes the MT-SDT Data Size IE. FFS on the MT-SDT indicator IE and the presence of MT-SDT Data Size IE.**

QUALCOMM, Nokia: If the MT-SDT Data Size IE is mandatory, why the MT-SDT indicator IE is still needed?

CATT: Agree to have optional MT-SDT Data Size IE and mandatory MT-SDT indicator IE

**Agreements:**

**The encoding and the name of MT-SDT information IE in E1AP DL DATA NOTIFICATION message include MT-SDT Data Size IE (Mandatory, INTEGER (1…96000, …). FFS on whether MT-SDT indicator IE is needed.**

**The encoding and the name of MT-SDT information IE in F1AP: Paging message include MT-SDT indicator IE (Mandatory). FFS on MT-SDT Data Size IE.**

QUALCOMM: Comments on the presence on MT-SDT Data Size IE

HUAWEI: The above proposals are the compromised solution.

Lenovo, Nokia: Not sure about p3

## 21 NR Redcap Enhancement WI

WID [NR\_redcap\_enh]: [RP-223544](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223544.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 21.1 General

**R3-231641 WI work plan for Rel-18 RedCap**

*Type: Work Plan For: Information  
 Source: Ericsson (Rapporteur)*

**Decision:** The document was **noted**.

### 21.2 Support Enhanced eDRX in RRC\_INACTIVE

**R3-231103 LS on Paging Policy Information for Network Triggered Connection Resume**

*Type: LS in For: Discussion  
 Original outgoing LS: C4-230533, to SA2, cc RAN3  
 Source: CT4, Ericsson*

**Decision:** The document was **noted**.

**R3-231113 LS on INACTIVE eDRX above 10.24sec and SDT**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302082, to SA2, CT1, RAN3, cc -  
 Source: RAN2, Intel*

**Decision:** The document was **noted**.

**R3-231237 Introduction on NR Redcap enhancement**

*Type: CR For: (not specified)  
 38.473 v17.4.1 CR-1142 Cat: B (Rel-18)  
  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231238 (TP to 38.413, 38.423) Introduction on NR Redcap enhancement**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231262 Discussion on RRC Inactive with long eDRX Support for RedCap**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231287 Support of Extended eDRX in RRC Inactive**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231288 Support of Extended DRX in RRC\_INACTIVE**

*Type: CR For: (not specified)  
 38.410 v17.1.0 CR-0043 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231530 Discussion on RAN2 LS on INACTIVE eDRX above 10.24sec and SDT**

*Type: discussion For: Decision  
 38.413 v..  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231531 (TP to TS 38.413) Support of long eDRX above 10.24 sec and SDT together**

*Type: other For: Agreement  
 38.413 v..  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231562 Discussion on long eDRX for RRC\_INACTIVE base on SA2 progress**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231563 Discussion on long eDRX for RRC\_INACTIVE base on CT4 and RAN2 progress**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231642 Discussion on RAN3 enhancements to support CN MT communication handling for RRC\_INACTIVE eDRX beyond 10.24 sec and other topics**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231643 Draft BL CRs to TSes 38.413, 38.410, 38.300, 38.423, 38.473 for eRedCap support**

*Type: other For: Endorsement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231765 Discussion on long eDRX support for RRC\_INACTIVE**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231766 NGAP CR on RedCap enhancement**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0983 Cat: B (Rel-18)  
  
 Source: Huawei, CMCC, China Unicom*

**Decision:** The document was **noted**.

**R3-231767 Discussion on R18 RedCap capability**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231303 Discussions for RAN2 LS on INACTIVE eDRX > 10.24s and SDT, and its impacts on Rel-17/18 SDT framework in RAN3**

*Type: discussion For: Decision  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231304 [Draft] Reply LS on INACTIVE eDRX above 10.24sec and SDT**

*Type: LS out For: Agreement  
 to RAN2, SA2, CT1  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231263 Redcap**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

**# Redcap\_eDRX**

**- Further discussion on the spec impacts to support Enhanced eDRX in RRC\_INACTIVE (>10.24s) based on the previous progress**

**- Discuss how to support INACTIVE eDRX above 10.24sec and SDT based on the incoming LS**

**- Stage2/stage3 TPs if agreeable and check details, split work**

**- Reply LS if needed**

**R3-231896 CB: # Redcap\_eDRX - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231948**.

**R3-231948 CB: # Redcap\_eDRX - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Ericsson - moderator*

(Replaces R3-231896)

**Decision:** The document was **noted**.

TP for TS38.413 Introduction of MT Communication Handling Request and DL Data Notification in [R3-231949](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231949.zip)

TP for TS38.410 Introduction of MT Communication Handling Request and DL Data Notification in [R3-231950](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231950.zip) rev in [R3-232126](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232126.zip)

(TP to 38.423) Introduction on NR Redcap enhancement in [R3-231962](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231962.zip)

(TP to 38.473) Introduction on NR Redcap enhancement in [R3-231963](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231963.zip)

(TP to 38.300) Introduction on NR Redcap enhancement in [R3-231964](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231964.zip)

LS to SA2 on RAN3 progress on Rel-18 RedCap enhancements to address remaining ENs in TS 23.502 in [R3-231951](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231951.zip)

**R3-231949 introduction of MT Communication Handling Request and DL Data Notification**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Huawei, ZTE, Qualcomm Inc., CATT, LGE*

**Abstract:**

TP

**Decision:** The document was **agreed**.

**R3-231950 introduction of MT Communication Handling Request and DL Data Notification**

*Type: other For: Agreement  
 38.410 v17.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

TP

**Decision:** The document was **revised to R3-232126**.

**R3-232126 introduction of MT Communication Handling Request and DL Data Notification**

*Type: other For: Agreement  
 38.410 v17.1.0  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Qualcomm Incorporated*

(Replaces R3-231950)

**Decision:** The document was **agreed**.

**R3-231962 (TP to 38.423) Introduction on NR Redcap enhancement**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source: ZTE*

**Decision:** The document was **agreed**.

**R3-231963 (TP to 38.473) Introduction on NR Redcap enhancement**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Huawei*

**Decision:** The document was **agreed**.

**R3-231964 (TP to 38.300) Introduction on NR Redcap enhancement**

*Type: other For: Agreement  
 38.300 v17.4.0  
 Source: CATT*

**Decision:** The document was **agreed**.

**R3-231951 RAN3 progress on Rel-18 RedCap enhancements to address remaining ENs in TS 23.502**

*Type: LS out For: Agreement  
 to SA2, cc RAN2  
 Source: Ericsson*

**Decision:** The document was **agreed**.

NGAP agreements:

**Agreements:**

**Introduce a new *CN-based MT communication handling* IE ENUMERATED (Supported,…) in the *Core Network Assistance Information for RRC INACTIVE* IE in NGAP**

HUAWEI: SA2 has changed its spec in TS23.502

ERICSSON, ZTE: It was moved to TS23.501, if it is officially agreed in SA2, an incoming LS is needed

**Agreements:**

**Introduce a new class 1 MT Communication Handling procedure in NGAP for RAN requesting CN to perform data buffering and for notifying of UE RRC state transition. The procedure contains the following messages:**

* **MT COMMUNICATION HANDLING REQUEST**
* **MT COMMUNICATION HANDLING RESPONSE**
* **MT COMMUNICATION HANDLING FAILURE**

**The MT COMMUNICATION HANDLING REQUEST message contains:**

* ***AMF UE NGAP ID* (M)**
* ***RAN UE NGAP ID* (M)**
* ***FFS on RRC state (M) as defined in 9.3.1.92***
* ***NR Paging eDRX Cycle for RRC INACTIVE* (conditionally present if RRC state is set to ‘inactive’) encoded as ENUMERATED (hfquarter, hfhalf, hf1, hf2, hf4, hf8, hf16, hf32, hf64, hf128, hf256, hf512, hf1024, …).**
* **FFS on any other information (pending on RAN2/SA2 progress or SDT)**

**Introduce a new DL DATA NOTIFICATION class 2 message for AMF requesting RAN Paging**

Nokia: When to send new DL DATA NOTIFICATION class 2 message to AMF?

XnAP agreements:

**Extend the *NR Paging eDRX Information for RRC INACTIVE* IE XnAP 9.2.3.162:**

* **Add new codepoints in the *NR Paging eDRX Cycle Inactive* IE: ENUMERATED (hfquarter, hfhalf, hf1, …,hf2, hf4, hf8, hf16, hf32, hf64, hf128, hf256, hf512, hf1024)**
* **add the *NR Paging Time Window* IE ENUMERATED (s1, s2, s3, s4, s5, s6, s7, s8, s9, s10, s11, s12, s13, s14, s15, s16, s17, s18, s19, s20, s21, s22, s23, s24, s25, s26, s27, s28, s29, s30, s31,**
* **s32,…)**

F1AP agreements:

**Extend the *NR Paging eDRX Information for RRC INACTIVE* IE F1AP 9.3.1.259:**

* **add new codepoints in the *NR Paging eDRX Cycle Inactive* IE: ENUMERATED (hfquarter, hfhalf, hf1, …,hf2, hf4, hf8, hf16, hf32, hf64, hf128, hf256, hf512, hf1024)**
* **add the *NR Paging Time Window* IE ENUMERATED (s1, s2, s3, s4, s5, s6, s7, s8, s9, s10, s11, s12, s13, s14, s15, s16, s17, s18, s19, s20, s21, s22, s23, s24, s25, s26, s27, s28, s29, s30, s31, s32,…)**

Open issues:

**1) The addition of the PPI/ARP/5QI/PDU Session ID in the DL MT DATA NOTIFICATION message based on CT4 LS to be discussed next meeting after SA2 spec update.**

**2) The discussion on support of SDT and long eDRX>10.24 seconds is postponed to next meeting pending any updates from SA2 (e.g. inclusion of MT-SDT Data Size in NG message) and RAN3 progress on the signalling to support the CN Based MT Communication handling in RAN3 specifications.**

**3) PTW infor over NGAP?**

**4) FFS how to differentiate in the MT Communication Handling procedure whether the request message is sent to indicate connection resume or to apply MT communication handling. The presence of the *NR Paging eDRX Cycle for RRC INACTIVE* IE is FFS**

**5) ASN.1 in F1AP and XnAP: FFS if the *NRPaging-time-Window* defined in ASN.1 can be re-used instead of a new d NRPaging-Time-Window-Inactive**

**Agreements:**

**Endorse BL CR Rapporteur assignation as below:**

|  |  |
| --- | --- |
| **RAN3 specification** | **Assigned BL CR Rapporteur** |
| **TS 38.413** | **Huawei** |
| **TS 38.473** | **ZTE** |
| **TS 38.423** | **Ericsson** |
| **TS 38.300** | **Nokia, Nokia Shanghai Bell** |
| **TS 38.410** | **CATT** |
| **TS 38.470 (if needed)** | **Qualcomm Inc.** |

## 22 NR Network-Controlled Repeaters WI

WID [NR\_netcon\_repeater]: [RP-230175](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230175.zip) (target: RAN #102)

### 22.1 General

**R3-231146 (BLCR) 38300 BL CR for Network Controlled Repeater management**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: ZTE, China Telecom, Samsung,CATT, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-231061)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231147 (BLCR) Support of Network-Controlled Repeater**

*Type: CR For: Endorsement  
 38.401 v17.4.0 CR-0274 rev 4 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, CATT, Ericsson, Samsung, NEC, China Telecom, ZTE*

(Replaces R3-231035)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231148 (BLCR) Support of Network-Controlled Repeater**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1109 rev 4 Cat: B (Rel-18)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Samsung, China Telecom, ZTE, NEC*

(Replaces R3-231036)

**Abstract:**

Baseline CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231905 (BLCR) Network-Controlled Repeaters Authorization**

*Type: CR For: Endorsement  
 Source: Ericsson, CATT, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-231908**.

**R3-231908 (BLCR) Network-Controlled Repeaters Authorization**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0890 rev 6 Cat: B (Rel-18)  
  
 Source: Ericsson, CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-231905)

**Discussion:**

Endorsed as BL CR

No need to resubmit those BL CRs till RAN3#122

**Decision:** The document was **endorsed**.

### 22.2 Support Network-Controlled Repeater Management

## 23 NR Positioning WI

WID [NR\_pos\_enh2]: [RP-230328](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230328.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 23.1 General

**R3-231673 Work Plan for Rel-18 WI on Expanded and Improved NR Positioning**

*Type: discussion For: Decision  
 Source: CATT, Intel Corporation, Ericsson*

**Decision:** The document was **noted**.

### 23.2 Support Enhancements on NR Positioning

**R3-231106 LS Reply on PRU Procedures**

*Type: LS in For: Discussion  
 Original outgoing LS: R1-2302146, to SA2, cc RAN2, RAN3  
 Source: RAN1, Qualcomm*

**Decision:** The document was **noted**.

**R3-231116 LS on SRS configuration request**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302278, to RAN3, cc -  
 Source: RAN2, Huawei*

**Decision:** The document was **noted**.

**R3-231218 Initial discussion on SL positioning**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231219 Initial discussion on enhancements for enabling LPHAP**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231279 Enhancements for LPHAP**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231280 Integrity of NR Positioning Technologies**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231312 RAN3 impacts of Rel-18 accuracy enhancements**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231313 RAN3 impacts of Rel-18 sidelink positioning**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghi Bell*

**Decision:** The document was **noted**.

**R3-231528 Discussion on positioning enhancement**

*Type: discussion For: Decision  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231529 (TP to 38.413) support of sidelink positioning and ranging service authorizations**

*Type: other For: Agreement  
 Source: Xiaomi*

**Decision:** The document was **noted**.

**R3-231598 Discussion on LPHAP**

*Type: discussion For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231599 Draft Reply LS on SRS Configuration Request**

*Type: LS out For: Agreement  
 to RAN2, cc RAN1  
 Source: Huawei*

**Decision:** The document was **revised to R3-231952**.

**R3-231952 Draft Reply LS on SRS Configuration Request**

*Type: LS out For: Agreement  
 to RAN2, cc RAN1  
 Source: Huawei*

(Replaces R3-231599)

**Decision:** The document was **revised to R3-232036**.

**R3-232036 Draft Reply LS on SRS Configuration Request**

*Type: LS out For: Agreement  
 to RAN2, cc RAN1  
 Source: Huawei*

(Replaces R3-231952)

**Decision:** The document was **noted**.

**R3-231953 Positioning EnhancementOverall Open issues and Way Forward**

*Type: other For: discussion  
 Source: Huawei*

**Decision:** The document was **revised to R3-232037**.

**R3-232037 Positioning EnhancementOverall Open issues and Way Forward**

*Type: other For: discussion  
 Source: Huawei*

(Replaces R3-231953)

**Decision:** The document was **noted**.

**R3-231600 Discussion on Sidelink**

*Type: discussion For: Agreement  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231644 Discussion on RAN3 impacts to support Rel-18 positioning enhancements**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231645 Draft BL CRs to TSes 38.455, 38.473, 38.413, 38.423 for NR Positioning Enhancements support**

*Type: other For: Endorsement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231674 Considerations on Expanded and Improved NR Positioning**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231675 (TP for BLCRs) Consideration on Expanded and Improved NR Positioning**

*Type: other For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231810 Initial Consideration on NR SL Positioning**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**R3-231832 Discussion on solution of LPHAP**

*Type: discussion For: (not specified)  
 Source: vivo*

**Decision:** The document was **noted**.

**R3-231839 Discussion on sidelink positioning and intergrity**

*Type: other For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231840 Discussion on LPHAP impacts**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**# Positioning\_Enh**

**-Discuss the topics from the agreed WID within RAN3 scope and converge**

**- Which topic can be immediately handled in RAN3**

**- Which topic requires inputs/progress from other groups and/or that can be deprioritized for this meeting**

**- Which topic needs to be reconsidered given e.g. negative impacts on interfaces**

**- Discuss how to configure the SRS positioning validity area (and which node(s) are responsible for it)**

**- Discuss if/how to configure SRS configurations associated with a validity area**

**- Whether and how to coordinate SRS configurations within a validity area?**

**- Check LS from RAN2 and provide response if agreeable**

**- Discuss how to support Sidelink Positioning**

**- Discuss and converge on provisioning of information from AMF to NG-RAN, e.g. UE authorization status about Ranging/SL Positioning over PC5; PC5 QoS parameters related to Ranging/SL positioning over PC5 and impacted interfaces**

**- Are there any RAN3 impacts for supporting SL-PRS resource allocation?**

**- Discuss supporting SRS bandwidth aggregation in NRPPA/F1AP**

**- Any issue to be raised concerning the agreements in other groups so far?**

**- Discuss possible BLCR to be endorsed**

**R3-231904 CB: # Positioning\_Enh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-232119**.

**R3-232119 CB: # Positioning\_Enh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

(Replaces R3-231904)

**Decision:** The document was **noted**.

Reply LS to RAN2 on SRS Configuration Request in [R3-231952](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231952.zip) rev in [R3-232036](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232036.zip)

Positioning Enhancement Overall Open issues and Way Forward in [R3-231953](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231953.zip) rev in [R3-232037](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232037.zip)

(TP for the BL CR 38.413) SL Pos Authorization NGAP in [R3-232038](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232038.zip)

(TP for the BL CR 38.423) SL Pos Authorization Xn in [R3-232039](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232039.zip)

(TP for the BL CR 38.473) SL Pos Authorization F1AP in [R3-232040](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232040.zip)

[Draft] LS on NTN User Location Report at UE context Release in [R3-232041](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232041.zip)

**R3-232038 (TP for the BL CR 38.413) SL Pos Authorization NGAP**

*Type: other For: Agreement  
 38.413 v17.4.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-232039 (TP for the BL CR 38.423) SL Pos Authorization Xn**

*Type: other For: Agreement  
 38.423 v17.4.0  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-232040 (TP for the BL CR 38.473) SL Pos Authorization F1AP**

*Type: other For: Agreement  
 38.473 v17.4.1  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-232041 [Draft] LS on NTN User Location Report at UE context Release**

*Type: LS out For: Agreement  
 to SA2  
 Source: Huawei*

**Decision:** The document was **noted**.

MCC to minute the following text:

Ericsson and Huawei: With respect to the LS in R3-231106 would like to remind RAN1 that LPP/NRPPa are in RAN2/RAN3 scope; for this reason, we suggest that RAN3 be included in the appropriate liaisons and not as merely cc-ed, also to avoid e.g. potential RAN1 discussions on parameters which are already part of NRPPa, etc.

Work organization for SL-Pos:

About the SL authorization e.g. (allowed, or not allowed), the BL CR owners to coordinate and trigger offline email discussions on a first version of NG, Xn, F1 BL CR at RAN3#120 for endorsement for RAN3#120

To be continued at this meeting:

Draft and agree (if possible) BLCRs including SL authorisation solutions.

To be continued at next meeting:

Discuss the QoS parameters described by SA2 at the next meeting

CATT: Sidelink authorization information could be agreed at this meeting

Nokia: reword the text on BLCR.

ZTE: agree with CATT, SL authorisation can be agreed now. QoS parameters have not been discussed by SA2 so far.

CMCC: what will be discussed in the email discussions on authorization? Can we agree on this at this meeting?

LPHAP:

To be continued:

Within the validity area, how is the SRS configuration determined

How resource coordination among gNBs and serving gNB is achieved

Xiaomi: SRS resource should be allocated by the node serving the cell itself and not by a node not serving the cell. Other WGs are discussing this and it seems too early to have this agreement

ZTE: Some clarification is needed. SRS configuration needs also the involvement of the LMF.

Huawei: the discussion is only about the serving gNB and not other gNBs.

Xiaomi: we should clarify that the SRS configuration of the serving cell

Qualcomm: the SRS configuration is used in the whole validity area, hence it is valid in more than one gNB.

The RAN2 LS response is acceptable without detail on solution the Moderator propose and update of the LS out in R3-231952

**Agreements:**

**Endorse the BL CR assignment as below:**

**Pos Stage 2 (38.305) Nokia**

**NRPPa (38.455) CATT**

**F1 (38.473) Ericsson**

**Xn (38.423) Huawei**

**NG (38.413) ZTE**

**38.470 (if needed) Samsung**

**38.420 (if needed) Xiaomi**

Focus RAN3#120 on following topics:

- SL-Pos: authorizations

- SL-Pos QoS Parameters, if possible

- LPHAP: SRS Conf validity area

- LPHAP vs SDT Pos

- LMF-based Integrity

And also, for RAN3#120:

- SL-Pos SL-PRS LMF Assistance: Task the rapporteur to clarify with the Work plan on RAN1/RAN2 status

**Agreements:**

**SL Positioning/Ranging authorization is provided over in the NGAP, XnAP and F1AP, in the following messages:**

**NG:**

**- INITIAL CONTEXT SETUP REQUEST**

**- UE CONTEXT MODIFICATION REQUEST**

**- HANDOVER REQUEST**

**- PATH SWITCH REQUEST ACKNOWLEDGE**

**Xn:**

**- HANDOVER REQUEST**

**- RETRIEVE UE CONTEXT RESPONSE**

**F1:**

**- UE CONTEXT SETUP REQUEST**

**- UE CONTEXT MODIFICATION REQUEST**

To be continued at next meeting:

Discuss the Positioning/Ranging QoS parameters based on SA2 at the next meeting

LPHAP: no agreement discussion will continue at next meeting

**Reply LS to RAN2:**

Ls out to RAN2 in R3-232036

Nokia: this is the first meeting of the RAN3 WI. We need more time to provide a reply LS with more content.

Huawei: we should provide a reply to RAN2. There is no much more we can add later on in the WI

CATT: Considering the status of discussions and the lack of agreements, there seem to be no need to send an LS to SA2

## 24 NR Network Energy Savings WI

WID [Netw\_Energy\_NR-Core]: [RP-230566](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230566.zip) (target: RAN #102) [TU: 0.5 (**0.5**, 0.5, 0.5, 0.5)]

### 24.1 General

**R3-231122 LS on 3GPP work on Energy Efficiency**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-232903, to SA, RAN, CT, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, CT1, CT3, CT4, cc -  
 Source: SA5, Huawei*

**Decision:** The document was **noted**.

**R3-231415 WI Work plan for R18 network energy savings**

*Type: discussion For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

### 24.2 Support Network Energy Savings

**R3-231211 Discussion on network energy saving**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231212 CR to 38.473 for paging enhancements on NES**

*Type: CR For: Agreement  
 38.473 v17.4.0 CR-1141 Cat: F (Rel-18)  
  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231266 Introduction of Network Energy Saving**

*Type: CR For: (not specified)  
 38.473 v17.4.0 CR-1129 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-230520)

**Decision:** The document was **revised to R3-231983**.

**R3-231983 Introduction of Network Energy Saving**

*Type: CR For: Agreement  
 38.473 v17.4.0 CR-1129 rev 2 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-231266)

**Discussion:**

- Presented only if the listed SSBs are ~~requested to be~~ activated

- Other details

**Decision:** The document was **revised to R3-232082**.

**R3-232082 Introduction of Network Energy Saving**

*Type: CR For: Agreement  
 38.473 v17.4.0 CR-1129 rev 3 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Samsung, ZTE, CATT, Intel*

(Replaces R3-231983)

**Decision:** The document was **endorsed**.

**R3-231277 (TP for BLCR) Discussion on Inter-node Beam Activation**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231278 (TP for BLCR) Discussion on Paging Enhancement**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231297 (TP for NES WI for 38.473) Considerations on network energy savings**

*Type: other For: Approval  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231348 Paging enhancements and Inter-node beam activation**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231407 Introduction of Network Energy Saving**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231416 (TP to TS 38.473, 38.413 and 38.470) Network energy saving techniques**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231494 Network energy saving techniques**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1018 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **revised to R3-231984**.

**R3-231984 Network energy saving techniques**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1018 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces R3-231494)

**Decision:** The document was **revised to R3-232083**.

**R3-232083 Network energy saving techniques**

*Type: CR For: Agreement  
 38.423 v17.4.0 CR-1018 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, Samsung, Nokia, Nokia Shanghai Bell, ZTE, Ericsson, CATT, Intel*

(Replaces R3-231984)

**Decision:** The document was **endorsed**.

**R3-231540 Baseline CR to 38.423 on NES**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1020 Cat: B (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **noted**.

**R3-231595 Discussion on NES related issues**

*Type: discussion For: (not specified)  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-231630 Discussion on network energy saving techniques**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231631 Introduction of Network Energy Saving**

*Type: CR For: (not specified)  
 38.423 v17.4.0 CR-1027 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231781 (TP to BL CR of 38.473) Paging enhancement**

*Type: other For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231782 (TPs to BL CRs of 38.423\_38.473\_38.300) Inter-node beam activation**

*Type: other For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231298 Baseline CR to 38.423 on NES**

*Type: CR For: Approval  
 38.423 v17.4.0 CR-1013 Cat: B (Rel-18)  
  
 Source: Intel Corporation*

**Decision:** The document was **withdrawn**.

**# NetworkES\_Solutions**

**Paging enhancement:**

**- Apply in both IDLE paging and inactive paging scenarios?**

**- Support only for stationary UEs?**

**- Send LS to RAN2 for potential RAN2 impact of restricting paging?**

**Inter-node beam activation:**

**- Reuse cell activation procedure for XNAP, CU Configuration Update procedure for F1AP? Or introduce new beam activation procedure over XnAP/F1AP?**

**- Whether to support beam level deactivation?**

**- Whether failure procedure is needed?**

**- Add new "energy saving " cause value for the SSBs deactivation informed in legacy coverage information?**

**- DU may transfer the preferred activation decision to CU?**

**Cell DTX&DRX:**

**- Reuse NG-RAN node configuration Update procedure for exchanging information between nodes?**

**- Detail cell dtx/drx information pending to RAN2.**

**- Capture agreements and open issues**

**- Provide TPs if agreeable.**

**R3-231897 CB: # NetworkES\_Solutions - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Huawei - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **noted**.

Draft LS to RAN2, SA2 on the enhancements on restricting paging in a limited area in [R3-231985](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231985.zip) final in [R3-232084](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232084.zip)

BL CR of 38.300 on Network energy saving techniques in [R3-232052](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232052.zip) Rev in [R3-232085](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232085.zip)

**R3-231985 LS on the enhancements on restricting paging in a limited area**

*Type: LS out For: Approval  
 to RAN2, SA2  
 Source: Huawei*

**Discussion:**

ERICSSON: Remove PEI related text

Nokia: Would prefer to keep the first sentence of PEI

**Decision:** The document was **revised to R3-232084**.

**R3-232084 LS on the enhancements on restricting paging in a limited area**

*Type: LS out For: Approval  
 to RAN2, SA2  
 Source: Huawei*

(Replaces R3-231985)

**Decision:** The document was **agreed**.

**R3-232052 BL CR of 38.300 on Network energy saving techniques**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: ZTE*

**Decision:** The document was **revised to R3-232085**.

**R3-232085 (BL CR for TS38.300) Network energy saving techniques**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: ZTE*

(Replaces R3-232052)

**Decision:** The document was **noted**.

Inter-node beam activation:

**Agreements:**

**For inter-node beam activation, the XnAP CELL ACTIVATION procedure, and the F1AP GNB-CU CONFIGURATION UPDATE procedure are reused.**

* **Over Xn interface, the CELL ACTIVATION REQUEST message may include the SSB beam list that is requested to be activated, and the CELL ACTIVATION RESPONSE message may include SSB beam list that are activated. When the receiving NG-RAN node cannot activate any of the SSB beams, it should respond with the CELL ACTIVATION FAILURE message with an appropriate cause value.** 
  + FFS if a new cause is needed. The detailed IE name/encoding can be further refined.
* **Over F1 interface, the GNB-CU CONFIGURATION UPDATE message may include the SSB beam list that is requested to be activated, and the GNB-CU CONFIGURATION UPDATE ACKNOWLEDGE may include SSB beam list that are activated. In case the gNB-DU cannot activate any of the requested SSB beams, it should respond with the GNB-CU CONFIGURATION UPDATE FAILURE message with an appropriate cause value.** 
  + FFS if a new cause is needed. The detailed IE name/encoding can be further refined.

To be continued at the next meeting (by contribution driven):

* Whether the DU sends it preferred beam activation/decision of its own beams to the CU?
* Whether the new beams deactivation cause (‘energy saving’) is needed?
* The timer indicated how long the SSBs are activated?

Enhancements on restricting paging in a limited area:

**Agreements:**

**It’s up to gNB’s implementation to decide to which UEs should apply the paging enhancement technique.**

**The paging enhancement technique is applicable for UEs in RRC inactive state.**

**Introduce the recommended SSB beam list in the F1AP paging message.**

**Introduce a list of last few served SSB beam s/recommended SSB beam list as paging assistance information to the gNB-CU in UE CONTEXT RELEASE COMPLETE message over F1AP.**

**Send a LS to RAN2 asking feedback containing the agreements for RRC inactive UE, and to SA2 asking feedback for RRC idle UE. The above agreements can be revisited based on reply from RAN2.**

**Endorse the BLCR assignment:**

|  |  |
| --- | --- |
| **38.423** | **Huawei** |
| **38.473** | **Ericsson** |
| **38.413 if needed** | **Samsung** |
| **38.401 if needed** | **Nok** |
| **38.300 if needed** | **ZTE** |
| **38.470 if needed** | **Qualcomm** |
| **38.420 if needed** | **CATT** |
| **38.410 if needed** | **Lenovo** |
| **37.340 if needed** | **Intel** |

## 26 Basket for Late R18 Items

### 26.1 eNPN WI

WID [eNPN\_Ph2-NGRAN-Core]: [RP-230788](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230788.zip) (target: RAN #101)

**R3-231250 Introduction of equivalent SNPNs**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0978 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-230356)

**Decision:** The document was **revised to R3-231977**.

**R3-231977 Introduction of equivalent SNPNs**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-0978 rev 2 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-231250)

**Decision:** The document was **endorsed**.

**R3-231254 Introduction of Rel-18 eNPN work in RAN3 specifications**

*Type: other For: (not specified)  
 38.300 v..  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231289 Support of Further Enhancements of NPN for NG-RAN**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231290 Introduction of Further Enhancements of NPN for NG-RAN**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0965 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231338 Discussion on Enhanced support of NPN**

*Type: discussion For: (not specified)  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231349 Equivalent SNPNs and non-3GPP access for SNPN**

*Type: discussion For: Discussion  
 Source: Qualcomm Technologies Int*

**Decision:** The document was **noted**.

**R3-231385 introduction of eNPN**

*Type: discussion For: Decision  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231386 Support for non-3GPP access for SNPN (CR to 29.413)**

*Type: CR For: Endorsement  
 29.413 v17.3.0 CR-0016 Cat: B (Rel-18)  
  
 Source: NEC*

**Decision:** The document was **noted**.

**R3-231410 (TP to TS 38.423, 38.300 and 29.413) Support of the enhanced NPN phase 2**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231411 Support of the enhanced NPN phase 2**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0971 Cat: B (Rel-18)  
  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-231506 On introduction of R18 eNPN**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: China Telecom, Huawei, ZTE, CATT*

**Decision:** The document was **revised to R3-231978**.

**R3-231978 On introduction of R18 eNPN**

*Type: draftCR For: Endorsement  
 38.300 v17.4.0  
 Source: China Telecom, Huawei, ZTE, CATT, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, NEC, Ericsson*

(Replaces R3-231506)

**Decision:** The document was **endorsed**.

**R3-231516 Work Plan for eNPN\_Ph2-NGRAN WI**

*Type: Work Plan For: Discussion  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231517 Discussion on Xn/NG enhancement to support eNPN**

*Type: discussion For: Decision  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-231716 Addition for Rel-18 eNPN**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0982 Cat: B (Rel-18)  
  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231772 (TPs to BL CRs of 38.423\_38.413\_38.300) for eNPN phase 2**

*Type: other For: Approval  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231773 Discussion on RAN support for eNPN phase 2**

*Type: discussion For: Approval  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231814 Discussion on RAN impact for NPN enhancement in Rel-18**

*Type: discussion For: Approval  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231815 [TP to 38413 and 38423 to NPN] Discussion on RAN imapct for NPN enhancement in Rel-18**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231817 Consideration on RAN impact of eNPN Phase 2**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**# NPN\_RANenh**

**- Whether to add equivalent SNPN list in MRL for XnAP and NGAP?**

**- Whether to add the selected SNPN ID in Xn/NG handover messages?**

**- Discuss whether/how to support equivalent SNPN for NR-DC?**

**- Discuss how to support non-3GPP access SNPN?**

**- Capture agreements in stage2/3 CRs if agreeable**

**R3-231898 CB: # NPN\_RANenh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: China Telecom - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231967**.

**R3-231967 CB: # NPN\_RANenh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: China Telecom - moderator*

(Replaces R3-231898)

**Decision:** The document was **noted**.

(BL CR for TS38.413) Support of the enhanced NPN phase 2 in [R3-231979](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231979.zip)

(BL CR for TS29.413) Support of the enhanced NPN phase 2 in [R3-231980](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231980.zip)

**R3-231979 (BL CR) Support of the enhanced NPN phase 2**

*Type: CR For: Endorsement  
 38.413 v17.4.0 CR-0985 Cat: B (Rel-18)  
  
 Source: ZTE*

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-231980 (BL CR) Support of the enhanced NPN phase 2**

*Type: CR For: Endorsement  
 29.413 v17.3.0 CR-0017 Cat: B (Rel-18)  
  
 Source: Huawei*

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**Agreements:**

**The *equivalent SNPNs* IE is introduced *NPN Mobility Information* IE contained in the *Mobility Restriction List* IE over XnAP and NGAP.**

**To support the NG based mobility across SNPNs, the *Selected NID* IE is introduced in the current *Target ID* IE contained in the HANDOVER REQUIRED message.**

For online discussion: check whether the following WAs are agreeable.

**Agreements:**

**To support Xn-based HO across equivalent SNPNs, there is no need to add a new selected SNPN ID in the HANDOVER REQUEST message, because the MRL can indicate the selected SNPN.**

QUALCOMM: Why we have different way to transfer selected SNPN ID over NG and Xn？

Nok, Samsung, ZTE: Over Xn, we have direct interface which can send this infor directly via HO signaling. For NG HO required message, there is no MRL infor.

**Agreements:**

**To support non-3GPP access for SNPN services, a non-3GPP access specific selected NID should be added in the INITIAL UE MESSAGE over NG interface.**

**FFS on the details over NG with below options:**

**Option 1: Add the Selected NID in the top level of INITIAL UE MESSAGE.**

**Option 2: Add the Selected NID under NPN Access Information in INITIAL UE MESSAGE.**

HUAWEI: Option3 can be excluded.

NEC: It can be agreed.

**Agreements:**

**Endorse the BL CR assignment as below:**

* **TS38.300 (stage2) --> China Telecom**
* **TS38.423 (stage3, XnAP) --> Ericsson**
* **TS38.413 (stage3, NGAP) --> ZTE**
* **TS29.413 (stage3) --> Huawei**

For further study in next meeting:

**FFS on whether there is a need for MN to indicate the selected NID to SN during SN addition and SN modification procedure.**

**How to include the Selected NID in INITIAL UE MESSAGE:**

**Option 1: Add the Selected NID in the top level of INITIAL UE MESSAGE.**

**Option 2: Add the Selected NID under NPN Access Information in INITIAL UE MESSAGE.**

### 26.2 Timing Resiliency and URLLC WI

WID [TRS\_URLLC-NR-Core]: [RP-230754](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230754.zip) (target: RAN #102)

**R3-231115 Reply LS on Proposed method for Time Synchronization status reporting to UE(s)**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2302106, to SA2, CT1, cc RAN3  
 Source: RAN2, Nokia*

**Decision:** The document was **noted**.

**R3-231194 Work plan for Timing Resiliency and URLLC enhancements**

*Type: Work Plan For: (not specified)  
 Source: Nokia (rapporteur)*

**Decision:** The document was **noted**.

**R3-231195 (TP for TS 38.413 BL CR) 5GS network timing synchronization status and reporting**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231196 (TP for TS 38.413 BL CR) RAN feedback for low latency communication**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-231264 Discussion on Time Synchronisation Status and Reporting**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231265 Discussion on Adaptive UL and DL Scheduling**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-231274 Discussion on NR Timing Resiliency and URLLC enhancements**

*Type: discussion For: (not specified)  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231324 Discussion on Network timing synchronization status and reporting**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231325 Discussion on Adapting downstream and upstream scheduling**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-231409 Support NR Timing Resiliency and URLLC enhancements**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0970 Cat: B (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-231412 (TP to TS 38.423 and 38.473) Support of Timing Resiliency and URLLC**

*Type: other For: (not specified)  
 Source: Huawei, China Unicom*

**Decision:** The document was **noted**.

**R3-231413 Support of Timing Resiliency and URLLC**

*Type: CR For: (not specified)  
 38.413 v17.4.0 CR-0972 Cat: B (Rel-18)  
  
 Source: Huawei, China Unicom*

**Decision:** The document was **revised to R3-231998**.

**R3-231998 Support of Timing Resiliency and URLLC**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0972 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, China Unicom*

(Replaces R3-231413)

**Abstract:**

BL CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231661 Discussion on network timing synchronization status and reporting**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231662 Discussion on adapting downstream and upstream scheduling based on RAN feedback**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **noted**.

**R3-231783 Discussion on timing synchronization status and reporting**

*Type: other For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231784 Discussion on RAN feedback for downstream scheduling**

*Type: other For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-231811 Discussion on RAN3 Impact of Timing Resiliency and URLLC Enhancements**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **noted**.

**# URLLC\_RANenh**

**AMF provides Reporting control information to RAN for per UE:**

**- Introduce a new Clock Quality Reporting Control Information IE in the existing Time Synchronisation Assistance Information IE over NGAP? or AMF signals those control infor via new NGAP procedure?**

**- Introduce a new IE for Area scope of Time distribution?**

**- Encoding of Clock Quality Reporting Control Information?**

**RAN Reports TSS to AMF:**

**- Report TSS to AMF via NGAP based on gNB capability? or AMF acquires RAN TSS via OAM?**

**- How to report gNB capability of TSS reporting?**

**- Whether the TSS reporting configuration e.g, threshold is provided by AMF or pre-configured by OAM?**

**- Whether to use a new NGAP procedure or an existing procedure,e.g, NG SETUP REQUEST/RAN CONFIGURATION UPDATE to report timing synchronization status to AMF?**

**- Encoding of TSS Information?**

**Adapting traffic scheduling:**

**- Enhance existing NGAP TSC Assistance Information IE to include Burst Arrival Time Window, AMF Capability for adaptation, Periodicity Range, etc?**

**- Proactive RAN feedback to AMF via the response of PDU session resource setup/modify?**

**- Reactive RAN feedback to AMF via PDU session resource notify?**

**- What feedback information should be provided in the case of proactive or reactive feedback?**

**- Wait RAN2 progress of UL Scheduling adaptation**

**- Capture agreements and open issues**

**R3-231899 CB: # URLLC\_RANenh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

**Abstract:**

Summary of offline discussion

**Decision:** The document was **revised to R3-231971**.

**R3-231971 CB: # URLLC\_RANenh - Summary of email discussion**

*Type: discussion For: Discussion  
 Source: Nokia - moderator*

(Replaces R3-231899)

**Decision:** The document was **noted**.

(BL CR for TS38.423) Support NR Timing Resiliency and URLLC enhancements in [R3-232066](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232066.zip) rev in [R3-232152](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232152.zip)

(BL CR for TS38.473) to support 5G Timing Resiliency and URLLC enhancements in [R3-232109](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-232109.zip)

(TP for TS 38.413 BL CR) 5GS network timing synchronization status and reporting in [R3-231939](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231939.zip) Rev in [R3-231969](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231969.zip)

(TP for TS 38.413 BL CR) RAN feedback for low latency communication in [R3-231940](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231940.zip) Rev in [R3-231970](file:///C:\Users\shimsseo\RAN3\RAN3_119-bis-e_0417-0426\Post-Result\Inbox\R3-231970.zip)

**R3-232066 (BL CR) Support NR Timing Resiliency and URLLC enhancements**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-1049 Cat: B (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

BL CR

**Decision:** The document was **revised to R3-232152**.

**R3-232152 (BL CR for TS 38.423) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Endorsement  
 38.423 v17.4.0 CR-1049 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-232066)

**Abstract:**

BL CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-232109 (BL CR for TS 38.473) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Endorsement  
 38.473 v17.4.1 CR-1168 Cat: B (Rel-18)  
  
 Source: ZTE, Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung*

**Abstract:**

BL CR

**Discussion:**

Endorsed as BL CR

**Decision:** The document was **endorsed**.

**R3-231939 (TP for TS 38.413 BL CR) 5GS network timing synchronization status and reporting**

*Type: other For: Approval  
 38.413 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, CATT, Huawei*

**Discussion:**

ZTE, Samsung, Ericsson as Co-source

Choice structure for Clock Accuracy

**Decision:** The document was **revised to R3-231969**.

**R3-231969 (TP for TS 38.413 BL CR) 5GS network timing synchronization status and reporting**

*Type: other For: Approval  
 38.413 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, CATT, Huawei, ZTE, Samsung, Ericsson*

(Replaces R3-231939)

**Discussion:**

ZTE: Add as co-source, anyway needs further discussion

ERICSSON: Choice structure for Clock Accuracy

HUAWEI: Fine to have choice structure, only one IE for this choice structure so far, e.g., uncertainty in SIB9

**Decision:** The document was **agreed**.

**R3-231940 (TP for TS 38.413 BL CR) RAN feedback for low latency communication**

*Type: other For: Approval  
 38.413 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, CATT, Huawei*

**Discussion:**

Check the details, add FFSs, editor’s notes

**Decision:** The document was **revised to R3-231970**.

**R3-231970 (TP for TS 38.413 BL CR) RAN feedback for low latency communication**

*Type: other For: Approval  
 38.413 v17.4.0  
 Source: Nokia, Nokia Shanghai Bell, CATT, Huawei, Qualcomm Incorporated*

(Replaces R3-231940)

**Decision:** The document was **agreed**.

QUALCOMM: Why we have choice IE structure？

Nokia: The Burst Arrival Time Window and Capability for BAT Adaptation should not appear at the same time. DL has no issue.

ERICSSON: Too premature to agree this TP

ZTE: Have concern on choice IE structure, for mobility part, it’s too early to give conclusion

Samsung：No need to hurry

HUAWEI: Add editor’s notes for those FFS parts

**It’s the common understanding that RAN Timing Synchronization Status Information can be the same or different between “groups of cells within a single gNB” (e.g., cells served by different gNB-DUs).**

ERICSSON: What’s the purpose of this agreement? Related to event ID?

Nokia: It’s related to the level of RAN Timing Synchronization Status Information, gNB or cell level

Huawei, QUALCOMM, CATT: It was agreed in previous meeting, support this proposal

ZTE: It’s a common understanding

Open Issues

**When the Clock Quality Detail Level is set to “metrics”, is there any additional information included in the Clock Quality Reporting Control Information (e.g. clock quality metrics subscribed by the UE)? To be continued…**

**Impact of mobility on RAN feedback for low latency communication is FFS.**

**Whether to use new or existing procedures to support RAN TSS reporting over NG and F1 is FFS.**

**Agreements:**

**Endorse the BL CR assignment as below:**

**38.300 CATT**

**38.410 (if needed) Samsung**

**38.413 Huawei**

**38.423 Ericsson**

**38.470 (if needed) China Telecom**

**38.473 ZTE**

**37.480 (if needed) Qualcomm**

**37.483 (if needed) Nokia**

**R3-231989 Support of Timing Resiliency and URLLC**

*Type: CR For: Agreement  
 38.413 v17.4.0 CR-0986 Cat: B (Rel-18)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **withdrawn**.

### 26.3 RAN Slicing WI

WID [eNS\_Ph3-NR-Core]: [RP-230787](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230787.zip) (target: RAN #102)

## 31 Corrections and Enhancements to Rel-18

### 31.1 Corrections

### 31.2 Enhancements

## 32 Any other business

## 33 Closing of the meeting

Report prepared by: MCC