**3GPP TSG RAN3 meeting #122 R3-23xxxx**

**Chicago, USA, 13 - 17 November 2023**

Agenda Item: 3

Source: ETSI MCC

Title: (draft) Report of 3GPP TSG RAN3 meeting #122

Chicago, USA, 13/11/2023 - 17/11/2023

Document for: Approval



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## 1 Opening of the meeting

3GPP TSG RAN WG3 Chair Ms. Yin GAO (ZTE) opened the f2f meeting RAN WG3 #122 on Monday November 13th, 2023 at 9am.

## 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#122 Tdoc submission deadline: 7am UTC of the 3rd of Nov**

**RAN3#122 meeting registration deadline: 3pm UTC of the 6th of Nov (align with 3GU)**

## 3 Approval of the Agenda

**R3-237001 RAN3#122 Meeting Agenda**

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

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

Email# 2 R18 BLCR reviewing

- BL CR reviewing for all completed R18 WIs

- Remove “BL” in the title for each BL CR, and check the link of other CRs

- All the agreed BL CRs of completed R18 WIs will be submitted to RAN#102

Deadline 2023-11-24

(Angelo - moderator)

\*Tdoc numbers were allocated for the final versions after this review.(Tdoc list is attached)

## 4 Approval of the minutes from previous meetings

**R3-237002 RAN3#121-bis Meeting Report**

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

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

## 5 Documents for immediate consideration

**R3-237003 Guidelines for RAN3 Meetings**

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

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

## 6 Organizational topics

## 7 General, protocol principles and issues

**R3-237004 TR 30.531 v1.49.0 Work Plan and Working Procedures - RAN WG3**

*Type: draft TR For: Approval  
 30.531 v1.48.0  
 Source: ETSI-MCC*

**Abstract:**

This contribution is an updated version of TR 30.531.

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

**R3-237522 Discussion on general RAN3 principles on support of peer node capabilities between NG-RAN and CN**

*Type: discussion For: Decision  
 Source: Ericsson, LGE, Vodafone*

**Discussion:**

ZTE: No need for this new feature at the late stage of R18, either we discuss this in TEI18 or next release

Nokia: It’s not technical correct

QUALCOMM: It’s too late to discuss in R18

HUAWEI: The capability may be changed dynamically, try to figure out what kind of use cases need such kind of capability change

SAMSUNG: Can be discussed case by case in the future

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

## 8 Incoming LSs

### 8.1 New Incoming LSs

**R3-237137 LS on Rel-18 higher-layers parameter list**

*Type: LS in For: Discussion  
 Original outgoing LS: R1-2310694, to RAN2, RAN3, cc RAN4  
 Source: RAN1(Ericsson)*

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

**Report Period**

**R3-237135 LS Out Sub One Second Report Period for Deferred Location over SBI**

*Type: LS in For: Discussion  
 Original outgoing LS: C4-234472, to RAN2, RAN3, cc -  
 Source: CT4(Ericsson)*

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

**R3-237346 Discussion on the LS from CT4 on finer periodicity**

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

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

**R3-237347 Correction to NRPPa on missing finer periodicity**

*Type: CR For: (not specified)  
 38.455 v17.5.0 CR-0120 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**R3-237348 Correction to F1AP on missing finer periodicity**

*Type: CR For: (not specified)  
 38.473 v17.6.0 CR-1236 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**R3-237523 Support of Sub One Second Report Interval following CT4 LS**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**R3-237524 Addition of milliseconds value to UE reporting Interval**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0121 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

Impact on F1AP?

ERICSSON: No

ZTE: Do we need to remove the current UE reporting information over F1AP?

HUAWEI: We need confirmation from RAN2 first

SAMSUNG: F1AP CR is needed, add some semantic description rather than introducing a new IE

ERICSSON: Check status in RAN2 during the meeting and discuss further the details about stage3 changes

**CB # 1\_ReportPeriod**

**R3-237741 CB:1\_ReportPeriod**

*Type: discussion For: discussion  
 Source: Ericsson*

**Discussion:**

CB: # 1\_ReportPeriod

- Check RAN2 progress

- Provide the CRs if agreeable

Topic is postponed to next meeting.

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

**R3-237165 LS on NAS Cause Value - Unspecified**

*Type: LS in For: Discussion  
 Original outgoing LS: s3i230621, to RAN3, cc SA3  
 Source: SA3-LI(Trideaworks)*

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

**R3-237550 NAS Cause Value - Unspecified**

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

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

**R3-237732 Response to R3-237550**

*Type: response For: (not specified)  
 Source: ZTE Corporation*

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

**R3-237551 [draft] Reply to R3-237165/s3i230621 on NAS Cause Value - Unspecified**

*Type: LS out For: (not specified)  
 to SA3-LI, cc SA3  
 Source: Huawei*

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

**R3-237552 Correction of Cause Value - Unspecified**

*Type: CR For: (not specified)  
 38.413 v17.6.0 CR-1040 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**R3-237553 Correction of Cause Value - Unspecified**

*Type: CR For: (not specified)  
 38.473 v17.6.0 CR-1241 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**R3-237554 Correction of Cause Value - Unspecified**

*Type: CR For: (not specified)  
 37.483 v17.6.0 CR-0092 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**R3-237555 Correction of Cause Value - Unspecified**

*Type: CR For: (not specified)  
 38.423 v17.6.0 CR-1109 Cat: F (Rel-18)  
  
 Source: Huawei*

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

**R3-237517 Correction on Cause Meaning in NGAP**

*Type: CR For: (not specified)  
 38.413 v17.6.0 CR-1039 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**R3-237518 Draft LS on NAS Cause Value - Unspecified**

*Type: LS out For: (not specified)  
 to SA3-LI  
 Source: Ericsson*

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

**R3-237192 NGAP rapporteur corrections**

*Type: CR For: (not specified)  
 38.413 v17.6.0 CR-1033 Cat: D (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Related to LS in R3-237165

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

HUAWEI: SA3-LI finds this issue, we can change it over NGAP first

Sent when none of the specified cause values applies ...

Sent when none of the other cause values applies...

**CB# 2\_NASCauseValue**

No Reply LS is needed.

**R3-237742 CB:#2\_NASCauseVAlue**

*Type: discussion For: discussion  
 Source: Nokia*

**Discussion:**

CB: # 2\_NASCauseValue

- Get common understanding on the wording to “unspecified”

- Reply LS to SA3-LI to inform them that RAN3 will change it as Cat.D CR in next meeting

**Specification rapporteurs to rephrase the “Unspecified” cause value description as: “*Sent when none of the specified cause values applies but still the cause is {NAS | Transport Layer | Protocol | etc} related*” (in Rel-18 Cat-D CR).**

No Reply LS is needed.

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

**R3-237153 Reply LS on RedCap UE MBS Broadcast reception**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-2311706, to RAN3, RAN2, cc -  
 Source: SA2(ZTE)*

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

**R3-237169 Discussion on SA2 LS on RedCap UE MBS Broadcast reception**

*Type: discussion For: Agreement  
 Source: ZTE, Lenovo, CATT, Qualcomm, CBN*

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

**R3-237694 (CR to TS 38.473) Introduction of RedCap UE MBS Broadcast reception**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1245 Cat: B (Rel-18)  
  
 Source: ZTE*

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

**R3-237695 Draft Reply LS to SA2 on RedCap UE MBS Broadcast reception**

*Type: LS out For: Approval  
 to SA WG2, cc RAN WG2  
 Source: ZTE*

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

**R3-237701 (CR to TS 38.413) Introduction of RedCap UE MBS Broadcast reception**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1044 Cat: B (Rel-18)  
  
 Source: ZTE, Lenovo, CATT, Qualcomm, CBN*

**Decision:** The document was **revised to R3-237900**.

**R3-237900 Introduction of RedCap UE MBS Broadcast reception [RedcapMBS]**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1044 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE, Lenovo, CATT, Qualcomm, CBN, Huawei, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-237701)

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

**R3-237221 Discussion on the LS from SA2 on RedCap UE MBS Broadcast reception**

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

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

**R3-237222 [draft] Reply LS to R3-237153 (S2-2311706) on RedCap UE MBS Broadcast reception**

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

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

**R3-237223 Introduction of RedCap UE Information for MBS Broadcast reception [MBS Broadcast RedCap]**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1034 Cat: F (Rel-18)  
  
 Source: Huawei, CBN*

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

**R3-237224 Introduction of RedCap UE Information for MBS Broadcast reception [MBS Broadcast RedCap]**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1231 Cat: F (Rel-18)  
  
 Source: Huawei, CBN*

**Decision:** The document was **revised to R3-237901**.

**R3-237901 Introduction of RedCap UE MBS Broadcast reception [RedcapMBS]**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1231 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, CBN, Nokia, Nokia Shanghai Bell, ZTE, Ericsson*

(Replaces R3-237224)

**Discussion:**

- remove “NR\_MBS-Core,”

**Decision:** The document was **revised to R3-237955**.

**R3-237955 Introduction of RedCap UE MBS Broadcast reception [RedcapMBS]**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1231 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, CBN*

(Replaces R3-237901)

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

**R3-237265 Indication of MBS Broadcast Session for Redcap UEs**

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

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

**R3-237266 Response LS on RedCap UE MBS Broadcast Reception**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237267 Indication of Redcap delivery for Broadcast Sessions [Redcap]**

*Type: draftCR For: (not specified)  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-237811**.

**R3-237811 Indication of Redcap delivery for Broadcast Sessions [Redcap]**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237267)

**Discussion:**

- Update the WI code as TEI18

**Decision:** The document was **revised to R3-237956**.

**R3-237956 Indication of Redcap delivery for Broadcast Sessions [Redcap]**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237811)

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

**R3-237268 Indication of Redcap delivery for Broadcast Sessions [Redcap]**

*Type: CR For: (not specified)  
 38.413 v17.6.0 CR-1035 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237395 On the reply LS from SA2 for RedCap UE MBS Broadcast reception**

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

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

RAN3 discussed and agreed to support Scenario 2 (i.e., the MBS session is for both Redcap UE and non-Redcap UE) considering its benefits (e.g., consistency of network capability as in LTE, flexibility for the service layer).

Same QoS parameters are applicable for both Redcap UEs and non-Redcap UEs, if one MBS Broadcast session is for both RedCap UE and non-RedCap UE.

This is not always possible: the same QoS parameters may be applicable for both types of UEs if these QoS parameters require a CFR which is compatible for both types of UEs. Otherwise, separate QoS parameters and therefore separate paired QoS flows with different QoS parameters need to be sent.

QUALCOMM, SAMSUNG, CATT, Lenovo: For Q1, same understanding with other companies, for Q2, different view with Nok

Lenovo: It’s service level, therefore, QoS profile should be the same

CATT: It should be CN to trigger different session with different QoS profile if needed

**CB # 3\_RedcapMBS**

**R3-237743 CB:#3\_RedcapMBS**

*Type: discussion For: discussion  
 Source: ZTE*

**Discussion:**

CB: # 3\_RedcapMBS

- Check group understanding on Q2

- Provide reply LS to SA2

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

**R3-237902 Reply LS to SA2 on RedCap UE MBS Broadcast reception**

*Type: other For: discussion  
 Source: ZTE*

**Discussion:**

- RAN3 assumes it is beneficial for NG-RAN node to be aware that the MBS session is for Redcap only UE or both Redcap UE and non-Redcap UE.

- Remove 2nd para in answer to Q2

**Decision:** The document was **revised to R3-237959**.

**R3-237959 Reply LS to SA2 on RedCap UE MBS Broadcast reception**

*Type: LS out For: discussion  
 to SA2  
 Source: ZTE*

(Replaces R3-237902)

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

**R3-237155 LS on AI/ML Core Network enhancements**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-2311921, to TSG RAN, RAN1, RAN2, RAN3, cc TSG SA  
 Source: SA2(Qualcomm)*

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

**R3-237329 Discussion on AI/ML Core Network Enhancement**

*Type: discussion For: Approval  
 Source: Samsung*

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

**R3-237330 [Draft] Reply LS on AI/ML Core Network Enhancements**

*Type: LS out For: Approval  
 to SA2  
 Source: Samsung*

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

**R3-237344 Consideration on the LS from SA2 on AI/ML enhancement**

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

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

**R3-237345 [DRAFT] Reply to LS on AI/ML Core Network enhancements**

*Type: LS out For: (not specified)  
 to SA2, cc TSG RAN, RAN1, RAN2, TSG SA  
 Source: ZTE*

**Decision:** The document was **revised to R3-237745**.

**R3-237745 [DRAFT] Reply to LS on AI/ML Core Network enhancements**

*Type: LS out For: -  
 to SA2, cc TSG RAN, RAN1, RAN2, TSG SA  
 Source: ZTE*

(Replaces R3-237345)

**Discussion:**

**CB: # 4\_ReplyLSAIML**

**- Start with”RAN3 thanks SA2 for the LS in R3-237155 (S2-2311921) on AI/ML Core network enhancements for Rel-19.**

**RAN3 has not identified any requirements for SA2 to support AI/ML for NG-RAN in R18. “**

**- Check whether any status description for R19 needed or not**

(moderator - ZTE)

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

**R3-237376 Discussion on R3-237155 (S2-2311921) on LS on AI/ML Core Network enhancements**

*Type: discussion For: Decision  
 Source: Huawei*

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

**R3-237377 [Draft] Reply to R3-237155 (S2-2311921) on LS on AI/ML Core Network enhancements**

*Type: LS out For: Agreement  
 to SA2  
 Source: Huawei*

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

**R3-237393 Discussion on SA2 LS about SA impacts for R19 RAN AI/ML**

*Type: discussion For: Decision  
 Source: Xiaomi*

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

**R3-237574 Discussion related to the incoming LS from SA2 on the support of AI/ML for air interface and NG-RAN in RAN**

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

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

**R3-237575 [Draft] Response LS to SA2 LS on AI/ML Core Network enhancements**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237559 Discussion on reply LS on coordination between NWDAF and NG-RAN**

*Type: discussion For: Agreement  
 Source: CATT,Deutsche Telekom*

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

**R3-237489 Discussions about LS from SA2**

*Type: discussion For: Agreement  
 Source: Ericsson, AT&T, InterDigital*

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

**R3-237490 Reply LS on AI/ML Core Network enhancements**

*Type: LS out For: Agreement  
 to TSG RAN, RAN1, RAN2, SA2, cc TSG SA  
 Source: Ericsson, AT&T, InterDigital*

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

**R3-237693 (CR to TS 38.413) Introduction of RedCap UE MBS Broadcast reception**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1244 Cat: B (Rel-18)  
  
 Source: ZTE, Lenovo, CATT, Qualcomm, CBN*

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

### 8.2 LSin received during the meeting

**R3-237898 LS on Rel-18 higher-layers parameter list**

*Type: LS in For: discussion  
 Original outgoing LS: R1-2312538, to RAN2, RAN3, cc RAN4  
 Source: RAN1(Ericsson)*

**Decision:** The document was **not treated**.

### 8.3 Left over LSs / pending actions

**R3-237425 User Consent Principles**

*Type: discussion For: Decision  
 Source: InterDigital, Ericsson*

**Discussion:**

RAN3 is to reach the common understanding that it is RAN side to check m-based MDT and CN side to check s-based MDT

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

**R3-237731 Response to R3-237425**

*Type: response For: (not specified)  
 Source: Huawei Device Co., Ltd*

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

**R3-237477 Discussion on user consent for trace reporting**

*Type: discussion For: Agreement  
 Source: Ericsson, InterDigital*

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

**R3-237478 Correction of user consent for MDT**

*Type: draftCR For: Agreement  
 37.320 v17.5.0  
 Source: Ericsson, InterDigital*

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

**R3-237479 Correction to 38.401 on the user consent for trace reporting**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0315 Cat: F (Rel-18)  
  
 Source: Ericsson, InterDigital*

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

**R3-237480 [draft] Reply LS on the user consent for trace reporting**

*Type: LS out For: Agreement  
 to SA3, SA5, SA2, RAN2, cc SA1, RAN  
 Source: Ericsson*

**Decision:** The document was **revised to R3-237953**.

**R3-237953 [draft] Reply LS on the user consent for trace reporting**

*Type: LS out For: Agreement  
 to SA3, SA5, SA2, RAN2, cc SA1, RAN  
 Source: Ericsson*

(Replaces R3-237480)

**Discussion:**

- update to the final format

- update the attachments

-RAN3 would like to inform SA3, SA2 and SA5 that the requirements on user consent have been taken into account and the workflow for a user consent solution described by SA3 has been endorsed by RAN3.

- The technically endorsed CRs are attached.

**Decision:** The document was **revised to R3-237964**.

**R3-237964 [draft] Reply LS on the user consent for trace reporting**

*Type: LS out For: Agreement  
 to SA3, SA5, SA2, RAN2, cc SA1, RAN  
 Source: Ericsson*

(Replaces R3-237953)

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

**R3-237549 Correction of user consent for MDT**

*Type: draftCR For: (not specified)  
 37.320 v17.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237681 Discussion on user consent for trace reporting**

*Type: discussion For: Discussion  
 Source: CMCC*

**Discussion:**

focus on the logged MDT measurements for inter-PLMN scenraio where different PLMNs belong to the same operator

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

**R3-237724 Further discussions on the user consent for trace reporting**

*Type: discussion For: Decision  
 Source: Huawei*

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

**R3-237725 Correction to 38.401 on the user consent for trace reporting**

*Type: CR For: Approval  
 38.401 v17.6.0 CR-0310 rev 2 Cat: F (Rel-18)  
  
 Source: Huawei, CMCC*

(Replaces R3-235795)

**Decision:** The document was **revised to R3-237947**.

**R3-237947 Correction to 38.401 on the user consent for trace reporting**

*Type: CR For: Approval  
 38.401 v17.6.0 CR-0310 rev 3 Cat: F (Rel-18)  
  
 Source: Huawei, CMCC*

(Replaces R3-237725)

**Discussion:**

- update WI code: NR\_ENDC\_SON\_MDT\_enh-Core, TEI18

- Add Interdigtal, ZTE as co-source

- If none of the data type specified in MDT collection is subject to user consent, the gNB-CU-CP should not consider user consent when selecting UEs.

- The above wording shall apply to other sections as well.

**Decision:** The document was **revised to R3-237960**.

**R3-237960 Correction to 38.401 on the user consent for trace reporting**

*Type: CR For: Approval  
 38.401 v17.6.0 CR-0310 rev 4 Cat: F (Rel-18)  
  
 Source: Huawei, CMCC*

(Replaces R3-237947)

**Discussion:**

Technically endorsed unseen

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

**R3-237726 [draft] Reply LS to R3-234493 (S3-234267) on the user consent for trace reporting**

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

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

**R3-237727 Correction to 37.320 on the user consent for trace reporting**

*Type: draftCR For: Approval  
 37.320 v17.5.0  
 Source: Huawei, CMCC*

**Decision:** The document was **revised to R3-237948**.

**R3-237948 Correction to 37.320 on the user consent for trace reporting**

*Type: draftCR For: Approval  
 37.320 v17.5.0  
 Source: Huawei, CMCC*

(Replaces R3-237727)

**Discussion:**

- update the tile with correct spec number

- update WI code: NR\_ENDC\_SON\_MDT\_enh-Core, TEI18

- Add Interdigtal, ZTE, Nokia as co-source

-For MDT measurements that are not subject to user consent, the RAN may initiate MDT towards a particular UE independently of user consent.

-A UE is configured with an MDT PLMN List if user consent is valid for the RPLMN, or if none of the data types of the configured MDT measurements is subject to user consent.

**Decision:** The document was **revised to R3-237963**.

**R3-237963 Correction to 37.320 on the user consent for trace reporting**

*Type: draftCR For: Approval  
 37.320 v17.5.0  
 Source: Huawei, CMCC*

(Replaces R3-237948)

**Discussion:**

Technically Endorsed

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

**R3-237604 Discuss user consent for trace reporting**

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

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

**R3-237605 Correction of user consent for MDT**

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

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

For management-based MDT measurement:

It is RAN to perform the UE selection, according to user consent (MDT PLMN list) and the additional configurations by OAM?

ERICSSON: What happens if RAN does not receive the management based MDT PLMN list?

QUALCOMM: What’s the meaning of the additional configurations by OAM? It’s the list of MDT measurements that are not subject to user consent.

CMCC: For the case ERICSSON mentioned, the RAN to check the additional configurations by OAM and decide whether the corresponding MDT measurements need to be triggered or not.

Nokia: For the case ERICSSON mentioned, RAN needs to generate the MDT PLMN list sent to UE

HUAWEI: If no the management based MDT PLMN list received, it means there is no use consent and limitation on MDT configuration

CATT: How RAN generate the MDT configuration?

ZTE: RAN node receives the management based MDT PLMN list from AMF per UE, while it is different when RAN node receives it from OAM which is applied to all UEs

**For signalling based MDT measurement:**

**CN to check the OAM configuration, which may lead to an updated MDT PLMN list reflecting the local regulation?**

**The RAN node determines the logged MDT measurement reports route to TCE are subject to user consent by means of OAM configuration?**

**How does RAN node configure UE if there is no MDT PLMN list(use consent) received from AMF or OAM?**

**CB # 5\_UserConsent**

**R3-237746 CB:5\_UserConsent**

*Type: discussion For: discussion  
 Source: Huawei*

**Discussion:**

- Discuss the open issues above

- Capture agreements and provide reply LS

**[Agreement]**

**For signalling based MDT measurement, CN will perform the checking behavior, which means OAM also needs to configure AMF according to local regulations.**

**For management based MDT measurement, RAN node will perform the checking behavior. In case no MDT PLMN list(use consent) is received from AMF or OAM, RAN node should derive a list and configure to UE.**

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

## 9 Corrections to Rel-17 or earlier releases

### 9.1 LTE

**R3-237446 Restrict handover to NR NTN**

*Type: draftCR For: (not specified)  
 36.413 v17.5.0  
 Source: Vodafone GmbH*

**Discussion:**

ZTE: In R17, such HO case has not been discussed and the corresponding solution is not available

ERICSSON: It’s dual mode UE can act like this

Nokia: It has not been discussed in other WGs as well

CATT: Share view as other companies

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

**R3-237682 Discussion on QoE Area Scope IE**

*Type: discussion For: Approval  
 Source: ZTE, China Telecom, China Unicom*

**Discussion:**

Nokia: There is no requirement from SA5 which is defined from R15, keeping it as mandatory IE still works

ERICSSON: Fine wth this change, would like to have identical change as NR CR

HUAWEI: Nothing wrong in both LTE and NR, want to understand the issue

CB: # 6\_QoEAreaScope

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

**R3-237747 CB:#6\_QoEAreaScope**

*Type: other For: discussion  
 Source: ZTE*

**Discussion:**

- Check the issue

- Work on CRs if agreeable

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

**R3-237683 Correction on the QoE Area Scope IE in UE Application layer measurement configuration**

*Type: CR For: Approval  
 36.413 v15.11.0 CR-1920 Cat: F (Rel-15)  
  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237684 Correction on the QoE Area Scope IE in UE Application layer measurement configuration**

*Type: CR For: Approval  
 36.413 v16.13.0 CR-1921 Cat: A (Rel-16)  
  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237685 Correction on the QoE Area Scope IE in UE Application layer measurement configuration**

*Type: CR For: Approval  
 36.413 v17.5.0 CR-1922 Cat: A (Rel-17)  
  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237686 Correction on the QoE Area Scope IE in UE Application layer measurement configuration**

*Type: CR For: Approval  
 36.423 v15.14.0 CR-1761 Cat: F (Rel-15)  
  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237687 Correction on the QoE Area Scope IE in UE Application layer measurement configuration**

*Type: CR For: Approval  
 36.423 v16.12.0 CR-1762 Cat: A (Rel-16)  
  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237688 Correction on the QoE Area Scope IE in UE Application layer measurement configuration**

*Type: CR For: Approval  
 36.423 v17.6.0 CR-1763 Cat: A (Rel-17)  
  
 Source: ZTE, China Telecom, China Unicom*

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

### 9.2 NR

**Positioning**

**R3-237193 Correction of NR E-CID for OnDemand measurements**

*Type: CR For: (not specified)  
 38.455 v16.12.0 CR-0115 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Ericsson, Huawei, ZTE*

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

**R3-237194 Correction of NR E-CID for OnDemand measurements**

*Type: CR For: (not specified)  
 38.455 v17.5.0 CR-0116 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Ericsson, Huawei, ZTE*

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

**R3-237341 Correction to NRPPa for the misalignment on DL PRS**

*Type: CR For: (not specified)  
 38.455 v17.5.0 CR-0118 Cat: F (Rel-17)  
  
 Source: ZTE, Samsung, CATT, Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

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

**R3-237342 Correction to NRPPa for the misalignment on DL PRS**

*Type: CR For: (not specified)  
 38.455 v16.12.0 CR-0119 Cat: F (Rel-16)  
  
 Source: ZTE, Samsung, CATT, Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

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

**R3-237343 Correction to F1AP for the misalignment on DL PRS**

*Type: CR For: (not specified)  
 38.473 v16.15.0 CR-1235 Cat: F (Rel-16)  
  
 Source: ZTE, Samsung, CATT, Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

**Discussion:**

- Update the Tdoc number

**Decision:** The document was **revised to R3-237748**.

**R3-237748 Correction to F1AP for the misalignment on DL PRS**

*Type: CR For: -  
 38.473 v16.15.0 CR-1235 rev 1 Cat: F (Rel-16)  
  
 Source: ZTE, Samsung, CATT, Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

(Replaces R3-237343)

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

**R3-237354 Correction to F1AP for the misalignment on DL PRS**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1237 Cat: F (Rel-17)  
  
 Source: Samsung, ZTE, CATT, Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

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

**R3-237729 Correction on TRP Information Type Response Item IE of Positioning**

*Type: CR For: Approval  
 38.473 v17.6.0 CR-1246 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, ZTE, Ericsson, Nokia, Nokia Shanghai Bell*

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

**R3-237525 Correction on LCS reporting for UL-AoA**

*Type: CR For: Agreement  
 38.473 v16.15.0 CR-1239 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

CATT: Not sure about the issue

ZTE, Nokia, Samsung: The issue raised by ERICSSON will not happen, the gNB will always be provided with the LCS to GCS Translation information

HUAWEI: No need to introduce

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

**R3-237526 Correction on LCS reporting for UL-AoA**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1240 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**R3-237527 Correction on LCS reporting for UL-AoA**

*Type: CR For: Agreement  
 38.455 v16.12.0 CR-0122 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**R3-237528 Correction on LCS reporting for UL-AoA**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0123 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**IAB**

**R3-237204 Transferring of IAB authorization status via HO request message**

*Type: CR For: (not specified)  
 38.423 v17.6.0 CR-1103 Cat: F (Rel-17)  
  
 Source: ZTE, Lenovo, CATT, Nokia, Nokia Shanghai Bell*

**Discussion:**

QUALCOMM, HUAWEI: We agreed to have this authorization inform in path switch ack message

ZTE: There will be service interruption if we do not accept the CR

HUAWEI: The target NG-RAN node will allocate backhaul resource, it’s kind of minor optimization

Nokia: It will bring unnecessary resource allocation if we follow what Huawei said

ERICSSON: Backhaul resource can be used for other cases

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

**R3-237205 Clarification on gNB-DU Cell Resource Configuration for IAB**

*Type: CR For: (not specified)  
 38.473 v17.6.0 CR-1230 Cat: F (Rel-17)  
  
 Source: ZTE, Samsung, CATT, Nokia, Nokia Shanghai Bell, Huawei*

**Discussion:**

HUAWEI: Add the sentence after the change proposed in CR: only applicable if the gNB-DU is an IAB DU or an IAB donor DU.

- Add the sentence after the change proposed in CR: only applicable if the gNB-DU is an IAB DU or an IAB donor DU.

**Decision:** The document was **revised to R3-237749**.

**R3-237749 Clarification on gNB-DU Cell Resource Configuration for IAB**

*Type: CR For: -  
 38.473 v17.6.0 CR-1230 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE, Samsung, CATT, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-237205)

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

**R3-237361 Correction on IP address allocation for IAB via OAM**

*Type: CR For: (not specified)  
 38.401 v16.11.0 CR-0312 Cat: F (Rel-16)  
  
 Source: Huawei, Lenovo, Samsung, Xiaomi, Ericsson*

**Discussion:**

QUALCOMM, Nokia, ZTE: In case of OAM-based IP address allocation, we decided in R16 that CU, IAB node and donor DU should be connected to the same OAM. RRC related issue need to be discussed in RAN2.

HUAWEI: Not intend to introduce any RRC impact

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

**R3-237362 Correction on IP address allocation for IAB via OAM**

*Type: CR For: (not specified)  
 38.401 v17.6.0 CR-0313 Cat: A (Rel-17)  
  
 Source: Huawei, Lenovo, Samsung, Xiaomi, Ericsson*

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

**R3-237363 Correction on IAB authorization status transfer**

*Type: CR For: (not specified)  
 38.423 v17.6.0 CR-1106 Cat: F (Rel-17)  
  
 Source: Huawei, Lenovo, ZTE, Nokia, Nokia Shanghai Bell, Ericsson*

**Decision:** The document was **revised to R3-237887**.

**R3-237887 Correction on IAB authorization status transfer**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1106 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Lenovo, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, CATT*

(Replaces R3-237363)

**Discussion:**

QUALCOMM: What’s the exact behaviour in DU when it receives this infor?

Xiaomi: CR is kind of copy paste from R18, postpone it till we have stable conclusion in R18

CATT: Support this CR

CB: # 7\_IABAuthorization

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

**R3-237750 CB:#7\_IABAuthorization**

*Type: other For: discussion  
 Source: Huawei*

**Discussion:**

- Check the understanding on the issue together with R18 progress

**Agreement: In case the IAB-MT and IAB-DU connects to different IAB-donors after topology adaptation, and if the IAB node authorization status is changed from “non-authorized” to “authorized”, the phase 2 and phase 3 of the integration procedure for IAB-node in SA are executed, as defined in 8.12.1.**

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

**R3-237614 IAB-node authorization**

*Type: CR For: Approval  
 38.401 v17.6.0 CR-0316 Cat: F (Rel-17)  
  
 Source: CATT*

**Abstract:**

Late contribution

**Decision:** The document was **revised to R3-237888**.

**R3-237888 IAB-node authorization**

*Type: CR For: Approval  
 38.401 v17.6.0 CR-0316 rev 1 Cat: F (Rel-17)  
  
 Source: CATT*

(Replaces R3-237614)

**Decision:** The document was **not treated**.

**R3-237613 Transfer IAB authorization status to F1-terminating IAB-donor**

*Type: CR For: Approval  
 38.423 v17.6.0 CR-1110 Cat: F (Rel-17)  
  
 Source: CATT*

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

**R3-237560 Data forwarding handling of MRB without source progress**

*Type: discussion For: Agreement  
 Source: CATT, Nokia, Nokia Shanghai Bell, Orange, CMCC, Qualcomm Incorporated, ZTE*

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

**R3-237561 Correction to F1AP on Data forwarding handling of MRB**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1242 Cat: F (Rel-17)  
  
 Source: CATT,Nokia,Nokia Shanghai Bell,Orange,CMCC,Qualcomm Incorporated,Ericsson, ZTE*

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

**R3-237453 Correction of Data Forwarding Handling of MRB**

*Type: CR For: (not specified)  
 38.401 v17.6.0 CR-0314 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Ericsson, ZTE, Qualcomm Incorporated, Orange, CMCC*

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

**R3-237461 Correction of Data Forwarding Handling of MRB**

*Type: CR For: (not specified)  
 37.483 v17.6.0 CR-0090 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Ericsson, ZTE, Qualcomm Incorporated, Orange, CMCC*

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

**R3-237269 Correction of F1-U Context Reference for PTM**

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

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

**R3-237270 Correction of F1-U Context Reference for PTM**

*Type: CR For: (not specified)  
 38.473 v17.6.0 CR-1233 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Orange, Qualcomm Incorporated, Huawei*

**Decision:** The document was **revised to R3-237812**.

**R3-237812 Correction of F1-U Context Reference for PTM**

*Type: CR For: -  
 38.473 v17.6.0 CR-1233 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Orange, Qualcomm Incorporated, Huawei*

(Replaces R3-237270)

**Discussion:**

NBC CR

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

**R3-237562 Discussion on support of multiple F1-U tunnels per MRB**

*Type: discussion For: Discussion  
 Source: CATT, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm Incorporated, CMCC, Samsung, Lenovo,Huawei*

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

**R3-237563 Correction on multiple F1-U tunnels for MRB**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0093 Cat: F (Rel-17)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm, CMCC, CBN, Samsung, Lenovo, Huawei*

**Decision:** The document was **revised to R3-237853**.

**R3-237853 Correction on multiple F1-U tunnels for MRB**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0093 rev 1 Cat: F (Rel-17)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm, CMCC, CBN, Samsung, Lenovo, Huawei, Ericsson*

(Replaces R3-237563)

**Discussion:**

Remove the semantic description of Broadcast F1-U Context ReferenceE1 IE

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

**R3-237564 Correction on multiple F1-U tunnels for MRB**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1243 Cat: F (Rel-17)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell,ZTE,Qualcomm,CMCC, Lenovo,Huawei*

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

**R3-237565 ASN.1 and tabular alignment for Multicast related message**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0094 Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to R3-237854**.

**R3-237854 ASN.1 and tabular alignment for Multicast related message**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0094 rev 1 Cat: F (Rel-17)  
  
 Source: CATT*

(Replaces R3-237565)

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

To confirm that it is allowed not to provide the source MRB progress during handover procedure even if data forwarding is proposed, i.e. to keep the previous agreement and do not update the presence of “MRB Progress Information” IE in HANDOVER REQUEST message?

To discuss whether to assume that it is the source node’s duty to avoid the problem of waiting unnecessary forwarded data, or to assume that it is the target node’s duty to avoid so, or both, and to update TS 38.300 accordingly if needed. Note that if the source node does not wish to take any care of this problem, it can always include the MRB progress at source in the Handover Request message?

HUAWEI, SAMSUNG: The current solution works, we do not need to introduce such big change in R17

Lenovo: Different view with p1 and p2

Nokia: Follow the progress in last meeting

**CB # 8\_R17MBS**

**R3-237751 CB:#8\_R17MBS**

*Type: discussion For: discussion  
 Source: CATT*

**Discussion:**

- Do not introduce big change in R17

- Check the issues raised by companies

For the issue on MRB data forwarding:

If source MRB progress is not provided over Xn/NG during HO procedure in case of CU/DU split cases, MC data forwarding is not supported in Rel-17.

In Rel-18, to support MC data forwarding, there are two alternatives. One is source always provides source MRB progress over Xn/NG. Another alternative is to have the new solution in the target side(R3-237483).

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

**Others**

**R3-237219 Correction on small data transmission**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0311 Cat: F (Rel-17)  
  
 Source: Huawei, Qualcomm Incorporated, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, LG Electronics, CATT, Lenovo*

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

**R3-237584 Correction of CPAC to clarify optional late data forwarding**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: ZTE, LG Electronics, Ericsson, Huawei, Nokia, Nokia Shanghai Bell, NEC, Lenovo, Samsung*

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

**R3-237730 Correction on NR-Mode-Info IE of SON**

*Type: CR For: Approval  
 38.473 v17.6.0 CR-1247 Cat: F (Rel-17)  
  
 Source: CATT, ZTE, Huawei, Ericsson, Sumsang, Nokia, Nokia Shanghai Bell*

**Discussion:**

- Update WI code to NR\_ENDC\_SON\_MDT\_enh-Core

- Sumsang to Samsung

- Remove “}” in ASN.1

**Decision:** The document was **revised to R3-237752**.

**R3-237752 Correction on NR-Mode-Info IE of SON**

*Type: CR For: Approval  
 38.473 v17.6.0 CR-1247 rev 1 Cat: F (Rel-17)  
  
 Source: CATT, ZTE, Huawei, Ericsson, Samsung, Nokia, Nokia Shanghai Bell*

(Replaces R3-237730)

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

**R3-237709 Correction on the usage of SN Reconfiguration Complete**

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

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

**R3-237710 Correction on the usage of SN Reconfiguration Complete(37.340)**

*Type: draftCR For: (not specified)  
 37.340 v17.6.0  
 Source: ZTE, LG Electronics, Google, NEC, China Telecom*

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

**R3-237711 Correction on the usage of SN Reconfiguration Complete(38.423)**

*Type: CR For: (not specified)  
 38.423 v17.6.0 CR-1112 Cat: F (Rel-17)  
  
 Source: ZTE*

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

**R3-237699 Corrections on MN initiated SN Modification procedure**

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

**Discussion:**

Move to 9.2

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

**R3-237700 Corrections on MN initiated SN Modification procedure over Xn**

*Type: CR For: (not specified)  
 38.423 v17.6.0 CR-1111 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Move to 9.2

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

HUAWEI: For ZTE’s stage2, maybe good to have some description on failure case. For ERICSSON’s paper, SN does not need to wait for the S-NODE RECONFIGURATION COMPLETE message at all

ERICSSON: Do need to specify the case what ZTE’s proposed.

ZTE: Stage2 CR is proposed to align with stage3. For ERICSSON’s case, SN knows the situation when it triggers the modification procedure towards SN, no indication is needed

CATT: It’s common understanding on the issue raised by ZTE. For the cases proposed by ERICSSON, it’s clear whether the S-NODE RECONFIGURATION COMPLETE message will be sent or not.

Nokia: Would like to clarify the scenario rather than introducing the indication

Google: Support stage2 clarification. In the case there is no UE reconfiguration, whether SN still needs to start the timer.

QUALCOMM: Some clarification may be needed

LG: Support to have stage2 description on rejection case. Also support to have clear indication ERICSSON’s proposal

**CB # 9\_SNReconfigComplete**

**R3-237753 CB:#9\_SNReconfigComplete**

*Type: discussion For: discussion  
 Source: ZTE*

**Discussion:**

- Check all the cases that triggering S-NODE RECONFIGURATION COMPLETE message towards SN

- Provide stage2 CR if agreeable

**After receiving SN modification request ACK message from SN, if the MN decides to reject the configuration requested by the SN, it may send SN Reconfiguration Complete message to SN, then the UE is not involved and this procedure ends.**

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

**R3-237499 Solving Misalignment in UE Context Release procedure**

*Type: CR For: Agreement  
 38.413 v16.14.0 CR-1019 rev 2 Cat: F (Rel-16)  
  
 Source: Ericsson, China Telecom, ZTE, Verizon Wireless*

(Replaces R3-234499)

**Discussion:**

HUAWEI: It’s related to CIoT case. CR is not needed.

Nokia: Section 10.4, if the receiving node receives the message which is not expected, ERROR INDICATION will be triggered.

ZTE: Can further work on wording

SAMSUNG: Do not understand the deadlock issue

CATT: Ack the issue, it can be considered as TEI enhancements

Lenovo: Issue is acked, but similar like LTE, there is no change needed

**Decision:** The document was **revised to R3-237886**.

**R3-237886 Solving Misalignment in UE Context Release procedure**

*Type: CR For: Agreement  
 38.413 v16.14.0 CR-1019 rev 3 Cat: F (Rel-18)  
  
 Source: Ericsson, China Telecom, ZTE, Verizon Wireless, China Unicom, CATT, Nokia, Nokia Shanghai Bell, Lenovo*

(Replaces R3-237499)

**Discussion:**

- Remove: pending MT traffic or

**Decision:** The document was **revised to R3-237952**.

**R3-237952 Solving Misalignment in UE Context Release procedure**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1019 rev 4 Cat: F (Rel-18)  
  
 Source: Ericsson, China Telecom, ZTE, Verizon Wireless, China Unicom, CATT, Nokia, Nokia Shanghai Bell, Lenovo*

(Replaces R3-237886)

**Discussion:**

HUAWEI: It’s related to CIoT case. CR is not needed.

Nokia: Section 10.4, if the receiving node receives the message which is not expected, ERROR INDICATION will be triggered.

ZTE: Can further work on wording

SAMSUNG: Do not understand the deadlock issue

CATT: Ack the issue, it can be considered as TEI enhancements

Lenovo: Issue is acked, but similar like LTE, there is no change needed

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

**R3-237755 CB:#10\_UecontextRelease**

*Type: other For: discussion  
 Source: Ericsson*

**Discussion:**

- Check the issue and whether any specification updates needed?

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

**R3-237500 Solving Misalignment in UE Context Release procedure**

*Type: CR For: (not specified)  
 38.413 v17.6.0 CR-1020 rev 2 Cat: A (Rel-17)  
  
 Source: Ericsson, China Telecom, ZTE, Verizon Wireless*

(Replaces R3-234500)

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

**R3-237503 Correction of NGAP and XnAP QoE Measurement Status IE**

*Type: discussion For: Agreement  
 Source: Ericsson, Lenovo, CATT, Xiaomi, Samsung*

**Discussion:**

HUAWEI: Not sure whether it is needed, even with ERICSSON’s proposal, what the target node will do when this optional IE is absent

Nokia: It has been discussed in R17

Xiaomi, SAMSUNG, Lenovo: Support it to align with RAN2

ZTE: MDT alignment is an optional feature, can be further discussed in TEI18 if needed

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

**R3-237735 Response to R3-237503**

*Type: response For: Discussion  
 Source: ZTE*

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

**R3-237504 Correction of QoE Measurement Status IE**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1107 Cat: F (Rel-17)  
  
 Source: Ericsson, Lenovo, CATT, Xiaomi, Samsung*

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

**R3-237505 Correction of QoE Measurement Status IE**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1038 Cat: F (Rel-17)  
  
 Source: Ericsson, Lenovo, CATT, Xiaomi, Samsung*

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

**R3-237250 Correction on Resource Status Request**

*Type: CR For: Agreement  
 38.463 v16.15.0 CR-0726 Cat: F (Rel-16)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, ZTE, NEC*

**Discussion:**

ERICSSON: Fine with this CR, the CR has functional impact, if the reporting node does not support periodical report

- update the impact analysis: the CR has functional impact, if the reporting node does not support periodical report

**Decision:** The document was **revised to R3-237756**.

**R3-237756 Correction on Resource Status Request**

*Type: CR For: Agreement  
 38.463 v16.15.0 CR-0726 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, ZTE, NEC*

(Replaces R3-237250)

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

**R3-237251 Correction on Resource Status Request**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0089 Cat: A (Rel-17)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, ZTE, NEC*

**Discussion:**

- update the impact analysis: the CR has functional impact, if the reporting node does not support periodical report

**Decision:** The document was **revised to R3-237757**.

**R3-237757 Correction on Resource Status Request**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0089 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, ZTE, NEC*

(Replaces R3-237251)

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

**R3-237506 Correction for I-RNTI**

*Type: discussion For: Agreement  
 Source: Ericsson, Huawei, China Telecom*

**Discussion:**

ZTE, Nokia: It’s clear in stage2 spec that Annex C is for informative

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

**R3-237521 XnAP correction for I-RNTI**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1108 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson, Huawei, China Telecom*

(Replaces R3-237507)

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

**R3-237312 Clarification of the RAN UE ID usage in stage-2**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0295 rev 2 Cat: F (Rel-17)  
  
 Source: Ericsson, Orange, Deutsche Telekom, AT&T*

(Replaces R3-233894)

**Discussion:**

Nokia: It goes quite far, can not agree this

HUAWEI: Has comments on the wording, and no need to describe the usage of this information

ZTE: It’s not critical for R17, which has defined since R15

**Decision:** The document was **revised to R3-237758**.

**R3-237758 Clarification of the RAN UE ID usage in stage-2**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0295 rev 3 Cat: F (Rel-17)  
  
 Source: Ericsson, Orange, Deutsche Telekom, AT&T*

(Replaces R3-237312)

**Discussion:**

- remove the 2nd change

**Decision:** The document was **revised to R3-237945**.

**R3-237945 Clarification of the RAN UE ID usage in stage-2**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0295 rev 4 Cat: F (Rel-17)  
  
 Source: Ericsson, Orange, Deutsche Telekom, AT&T*

(Replaces R3-237758)

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

**R3-237217 Correction on Fast MCG Recovery via SRB3**

*Type: CR For: Agreement  
 38.423 v16.15.0 CR-1104 Cat: F (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, BT*

**Decision:** The document was **revised to R3-237779**.

**R3-237779 Correction on Fast MCG Recovery via SRB3**

*Type: CR For: Agreement  
 38.423 v16.15.0 CR-1104 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Deutsche Telekom, BT, Nokia, Nokia Shanghai Bell, Ericsson, ZTE*

(Replaces R3-237217)

**Discussion:**

Nokia: Keep both IEs

ERICSSON: The tabular is correct, clarify the scenario

ZTE: Share view with Nokia, agree with first change

**CB # 11\_MCGRecovery**

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

**R3-237760 CB:#11\_MCGRecovery**

*Type: other For: discussion  
 Source: Huawei*

**Discussion:**

- Check the scenarios and the necessity of the Ies

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

**R3-237218 Correction on Fast MCG Recovery via SRB3**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1105 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, BT*

**Decision:** The document was **revised to R3-237780**.

**R3-237780 Correction on Fast MCG Recovery via SRB3**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1105 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Deutsche Telekom, BT, Nokia, Nokia Shanghai Bell, Ericsson, ZTE*

(Replaces R3-237218)

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

**R3-237306 Inactive Time Signaling over F1 for Mobility**

*Type: CR For: (not specified)  
 38.473 v17.6.0 CR-1234 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

ZTE: Currently for F1, there already has activity status report per DRB rather than UE

CATT: There is no per UE level activity report over F1

HUAWEI: CU will know everything which can be used to derive the time costed, why CU can not know the time needs to be sent to target node in the case that CUCP separation does not deployed

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

**R3-237349 Correction on SHR for intra-NR mobility**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Lenovo*

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

**R3-237772 Correction on SHR for intra-NR mobility**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Lenovo*

**Discussion:**

LG: Object to have this stage2

HUAWEI: Maybe this text is not needed at all

ZTE: Not only stage2, but stage3 also needs to be updated

ERICSSON: Agree with Huawei

CATT: The sentence does not include source failure case

Lenovo: Support to have this

The numer of TS is wrong

CB: # 12\_SHR

- Check whether stage2 text is needed?

(moderator - Samsung)

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

**R3-237728 Correction on Bearer Context Status Change**

*Type: CR For: Approval  
 37.483 v17.6.0 CR-0096 Cat: F (Rel-18)  
  
 Source: Huawei, China Unicom, Vodafone*

**Decision:** The document was **revised to R3-237761**.

**R3-237761 Correction on Bearer Context Status Change**

*Type: CR For: Approval  
 37.483 v17.6.0 CR-0096 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, China Unicom, Vodafone*

(Replaces R3-237728)

**Discussion:**

for 3GU correction (from R18 to R17) with same CR number

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

**R3-237652 Correction on value range of the Extended Packet Delay Budget**

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

**Discussion:**

Nokia: Just align the tabular with ASN.1, there is no meaning to have “0”, option1 is enough

ERICSSON: There is no issue to leave it as it is

ZTE: Option1 is enough

**The NGAP/F1AP/E1AP rapporteurs to merge this change as updating the Tabular starting from “1”.**

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

**R3-237653 Correction on value range of the Extended Packet Delay Budget**

*Type: CR For: Agreement  
 38.413 v16.14.0 CR-1042 Cat: F (Rel-16)  
  
 Source: Huawei*

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

**R3-237654 Correction on value range of the Extended Packet Delay Budget**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1043 Cat: A (Rel-17)  
  
 Source: Huawei*

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

**R3-237520 Restrict handover to eUTRA NTN**

*Type: draftCR For: (not specified)  
 38.423 v17.6.0  
 Source: Vodafone GmbH*

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

**R3-237444 Restrict handover to eUTRA NTN**

*Type: draftCR For: Endorsement  
 38.413 v17.6.0  
 Source: Vodafone GmbH*

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

**R3-237271 Correction of Interaction with PDU Session Resource Indication**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1036 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

HUAWEI: Ack the issue similar in LTE, fine to reuse the LTE mechanism

ERICSSON: Agree something needs to be done, whether to follow LTE way or other wording

ZTE: Fine to follow LTE way

**Decision:** The document was **revised to R3-237762**.

**R3-237762 Correction of Interaction with PDU Session Resource Indication**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1036 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237271)

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

**R3-237547 Discussion on providing the PDCP version from the eNB-CP to the eNB-UP over the E1 interface**

*Type: discussion For: Agreement  
 Source: Samsung*

**Discussion:**

Nokia: The scenario will not happen, may be discussed in R18

ERICSSON: This is not critical

HUAWEI, ZTE: What’s the consequence if the PDCP configuration can not be understood in the same version

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

**R3-237548 PDCP version information over the E1 interface**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0091 Cat: F (Rel-17)  
  
 Source: Samsung*

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

**R3-237197 Correction on TRP Information Type Response Item IE of Positioning**

*Type: CR For: Approval  
 38.473 v17.6.0 CR-1228 Cat: B (Rel-17)  
  
 Source: CATT, Huawei, ZTE, Ericsson, Nokia, Nokia Shanghai Bell*

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

**R3-237198 Correction on NR-Mode-Info IE of SON**

*Type: CR For: Approval  
 38.473 v17.6.0 CR-1229 Cat: B (Rel-17)  
  
 Source: CATT, ZTE, Huawei, Ericsson, Sumsang, Nokia, Nokia Shanghai Bell*

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

**R3-237305 Correction on support of BDS B1C SSR broadcasting**

*Type: CR For: Approval  
 38.455 v17.5.0 CR-0117 Cat: F (Rel-17)  
  
 Source: CATT, CAICT, CMCC, China Telecom, China Unicom, Huawei, ZTE Corporation, MediaTek Inc., OPPO, xiaomi, vivo, Spreadtrum*

*R3*

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

**R3-237507 XnAP correction for I-RNTI**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1108 Cat: F (Rel-17)  
  
 Source: Ericsson, Huawei, China Telecom*

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

**R3-237712 Correction on the usage of SN Reconfiguration Complete(36.423)**

*Type: CR For: (not specified)  
 36.423 v17.6.0 CR-1764 Cat: F (Rel-17)  
  
 Source: ZTE*

**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-231157](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231157.zip) (target: RAN #102) [TU: 1 (**1**)]

**The R18 SONMDT WI is completed in RAN3.**

### 10.1 General

**R3-237005 (BLCR to 38.401) Addition of SON features enhancement**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0282 rev 5 Cat: B (Rel-18)  
  
 Source: ZTE*

(Replaces R3-235051)

**Abstract:**

BL CR

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

**R3-237006 (BLCR to 38.470) Addition of SON features enhancement**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0114 rev 4 Cat: B (Rel-18)  
  
 Source: CMCC*

(Replaces R3-235058)

**Abstract:**

BL CR

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

**R3-237007 (BL CR to 36.300) Addition of SON features enhancement**

*Type: draftCR For: Agreement  
 36.300 v17.5.0  
 Source: Lenovo*

(Replaces R3-235077)

**Abstract:**

BL CR

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

**R3-237008 (BL CR to 38.300) Addition of SON features enhancement**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: CMCC*

(Replaces R3-235080)

**Abstract:**

BL CR

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

**R3-237009 (BLCR to 38.413) for SON**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0964 rev 7 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-235081)

**Abstract:**

BL CR

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

**R3-237010 (BLCR to 38.423) for MDT**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1050 rev 5 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces R3-235082)

**Abstract:**

BL CR

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

**R3-237011 (BL CR to 38.420) SON Introduction of RACH Indication**

*Type: CR For: Agreement  
 38.420 v17.2.0 CR-0035 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces R3-235116)

**Abstract:**

BL CR

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

**R3-237012 (BL CR to 36.423) Addition of SON features enhancement**

*Type: CR For: Agreement  
 36.423 v17.6.0 CR-1747 rev 7 Cat: B (Rel-18)  
  
 Source: CATT*

(Replaces R3-235956)

**Abstract:**

BL CR

**Discussion:**

Check the spec text in 9.1.2.50

- Format: 8.3.16.3 Abnormal Conditions

**Decision:** The document was **revised to R3-237784**.

**R3-237784 (BL CR to 36.423) Addition of SON features enhancement**

*Type: CR For: Agreement  
 36.423 v17.6.0 CR-1747 rev 8 Cat: B (Rel-18)  
  
 Source: CATT*

(Replaces R3-237012)

**Abstract:**

BL CR

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

**R3-237013 (BL CR to 37.320) Introduction of MDT enhancements to support Non-Public Networks**

*Type: draftCR For: Agreement  
 37.320 v17.5.0  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Huawei*

(Replaces R3-235957)

**Abstract:**

BL CR

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

**R3-237014 (BLCR to 38.413) for MDT**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0990 rev 7 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-235958)

**Abstract:**

BL CR

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

**R3-237015 (BLCR to 38.423) Addition of SON features enhancement**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0934 rev 11 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-235959)

**Abstract:**

BL CR

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

**R3-237016 (BLCR to 38.473) Addition of SON features enhancement**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1105 rev 10 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces R3-235960)

**Abstract:**

BL CR

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

**R3-237017 (BL CR to 37.340) Addition of SON Rel.18 features**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-235961)

**Abstract:**

BL CR

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

**R3-237167 Reply LS on RACH enhancement**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311612, to RAN3, cc -  
 Source: RAN2(CMCC)*

**Discussion:**

**RAN3 follows RAN2’s decision and the corresponding standard work needs to be finalized in RAN2.**

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

**R3-237666 Update of work Plan for Enhancement of Data Collection for SON\_MDT in NR standalone and MR-DC WI**

*Type: Work Plan For: Information  
 Source: CMCC*

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

### 10.2 Support of SON/MDT Enhancements

#### 10.2.1 SHR and SPR

**R3-237146 Reply LS on SHR and SPR**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311593, to RAN3, cc -  
 Source: RAN2(Nokia)*

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

**R3-237350 (TP for SON BLCR for 38.423 and TS38.300) SON enhancement for SHR**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-237944**.

**R3-237944 (TP for SON BLCR for TS38.300) SON enhancement for SHR**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-237350)

**Discussion:**

(TP for SON BLCR for TS38.300) SON enhancement for SHR

- Remove the last para

**Decision:** The document was **revised to R3-237993**.

**R3-237993 (TP for SON BLCR for TS38.300) SON enhancement for SHR**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-237944)

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

**R3-237351 (TP for SON BLCR for 37.340 and 38.423) SON enhancement for SPR**

*Type: other For: Approval  
 Source: Samsung*

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

**R3-237545 [TP for SON BLCR for 37.340] Remaining issues on SPR**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237606 (TPs for SON BLCRs for TS 38.413 38.423)Inter-RAT SHR and SPR**

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

**Decision:** The document was **revised to R3-237930**.

**R3-237930 (TP for SON BLCRs for TS 38.413)Inter-RAT SHR and SPR**

*Type: other For: -  
 38.413 v..  
 Source: ZTE*

(Replaces R3-237606)

**Discussion:**

- TimeSinceFailure-r11 IE->TimeSinceFailure IE

- Remove comments mark from QUALCOMM

- Remove changes over changes

**Decision:** The document was **revised to R3-237990**.

**R3-237990 (TP for SON BLCRs for TS 38.413)Inter-RAT SHR and SPR**

*Type: other For: -  
 Source: ZTE*

(Replaces R3-237930)

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

**R3-237252 (TPs for SON BLCRs for TS 38.300, 38.413, 38.423, 38.473) SHR and SPR**

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

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

**R3-237401 Discussion on SON enhancements for inter-RAT SHR and SPR**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237511 (TP for SON BL CR for TS 37.340, TS 38.423) SPR for SON rel-18**

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

**Decision:** The document was **revised to R3-237931**.

**R3-237931 (TP for SON BL CR for TS 38.423) SPR for SON Rel-18**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-237511)

**Discussion:**

- If the SPR availability in UE IE is included in the S-NODE MODIFICATION REQUIRED message, the M-NG-RAN node may consider that the UE has generated an SPR for a PSCell change, and may retrieve the SPR from the UE.

-Indicates if an SPR is available in the UE.

**Decision:** The document was **revised to R3-237995**.

**R3-237995 (TP for SON BL CR for TS 38.423) SPR for SON Rel-18**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-237931)

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

**R3-237585 (TP for SON 37.340, 38.423 and 36.423) Discussion on SON enhancement for SHR and SPR**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237667 Discussion on SON enhancement for SPR**

*Type: discussion For: Discussion  
 Source: CMCC*

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

Inter-RAT SHR:

Correlation of SHR and RLF:

**[Agreement] Target C-RNTI should be included in the Xn HANDOVER REPORT.**

HUAWEI, ERICSSON: It should be included in container. Why do we need to duplicate outside the container?

ZTE: It’s important information.RAN3 agreed to support correlation in R18.

Nokia, CMCC: The receiving node may not derive the detail information in the container

CATT: Support this.

SAMSUNG: Two cases. For RRC reestablishment without RLF report, this C-RNTI is needed.

QUALCOMM: Can agree to this.

**Target C-RNTI should be included in the NG HANDOVER REPORT?**

HUAWEI: Does this case exist? There is long delay over NG.

ZTE: NG HANDOVER REPORT exists already.

Either include timeConnFailure and timeSinceFailure or time from handover command to RLF report retrieval in HO Report message?

HUAWEI, ERICSSON, Nokia: This is duplicated information in the RLF report, needs to be further discussed.

Lenovo: RAN2 did not agree to include this information in RLF

SAMSUNG: Further check RAN2 progress.

Solution where the target includes (optional) the C-RNTI used in the source cell when forwarding the SHR to the target?

ERICSSON: Support this proposal

Nokia: Move this discussion to R19

SAMSUNG: It does not work, the report will be sent to the source directly

HUAWEI: Would like to have some discussion on the solution to get some common understanding

ZTE: It’s R17 issue

SPR:

Whether or either the preferred T310/T312 SPR thresholds or T310/T312 timer values needs to be provided as assistance information from the source SN to the MN?

ERICSSON: Long discussion. Do not need to spend too much time on this.

Lenovo, CMCC: There is no issue, no need to transfer such information.

Close the discussion in R18.

**Whether the objective of T304 SPR trigger is also to optimize the mobility configurations in the source node?**

**Check whether there is any stage2 text is acceptable?**

CATT, ERICSSON, HUAWEI, Nokia: Support it.

Lenovo, SAMSUNG, ZTE: Can not agree with this, it will introduce too late HO

QUALCOMM: No strong view, ERICSSON’s proposal makes sense, maybe stage2 can be checked

SN informs the UE (e.g. with MN involvement) that PSCell Change is SN-initiated, when MN is not aware of SN SPR configuration?

Add a new IE in S-NODE MODIFICATION REQUIRED message to inform the MN that an SPR is available at the UE?

**CB # SONMDT1\_SHRSPR**

**R3-237785 CB:#SONMDT1\_SHRSPR**

*Type: discussion For: discussion  
 Source: Samsung*

**Discussion:**

- Further discuss the above open issue

-Provide TPs if agreeable

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

**R3-237962 (TP for SON BL CR for TS 38.423) Inter-RAT SHR for SON Rel-18**

*Type: other For: Agreement  
 Source: CATT*

**Discussion:**

- C-RNTI allocated at the target NG-RAN node.

- TimeSinceFailure-r11 IE->TimeSinceFailure IE

**Decision:** The document was **revised to R3-237992**.

**R3-237992 (TP for SON BL CR for TS 38.423) Inter-RAT SHR for SON Rel-18**

*Type: other For: Agreement  
 Source: CATT*

(Replaces R3-237962)

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

SHR:

**[Agreement]**

**Target C-RNTI should be included in the Xn HANDOVER REPORT.**

**Target C-RNTI should be included in the NG HANDOVER REPORT.**

**Include timeSinceFailure in HO Report message (Xn and NG).**

SPR:

**[Agreement] Add a new IE in S-NODE MODIFICATION REQUIRED message to inform the MN that an SPR is available at the UE.**

#### 10.2.2 MRO

**R3-237402 (TP to BLCR for TS37.340 and TS38.423) MRO for CPAC**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237403 (TP to BLCR for TS38.413) MRO for fast MCG recovery and inter-system handover for voice fallback**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237546 (TP for SON BLCR for 37.340) SON enhancements for CPAC**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated*

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

**R3-237352 (TP for SON BLCR for 38.423 and 37.340) SON enhancements for CPAC**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-237937**.

**R3-237937 (TP for SON BLCR for 37.340) SON enhancements for CPAC**

*Type: other For: Approval  
 37.340 v..  
 Source: Samsung*

(Replaces R3-237352)

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

**R3-237353 (TP for SON BLCR for 38.413) MRO for inter-system handover for voice fallback and the fast MCG recovery**

*Type: other For: Approval  
 Source: Samsung*

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

**R3-237245 Discussion on remaining issue of fast MCG recovery**

*Type: discussion For: Decision  
 Source: NEC*

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

**R3-237253 (TPs for SON BLCRs for TS 37.340, 38.300,36.300, 38.413, 38.423) MRO**

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

**Decision:** The document was **revised to R3-237896**.

**R3-237896 (TP for SON BLCR for TS36.300) MRO**

*Type: other For: Agreement  
 36.300 v..  
 Source: Huawei*

(Replaces R3-237253)

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

**R3-237336 (TPs for SON BL CR 37.340 and 38.423) MRO for CPAC**

*Type: other For: Agreement  
 Source: ZTE*

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

**R3-237512 (TP for SON BL CR for TS 38.413) SON enhancements for MRO**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Ericsson*

**Decision:** The document was **revised to R3-237907**.

**R3-237907 (TP for SON BL CR for TS 38.413) SON enhancements for MRO**

*Type: other For: -  
 38.413 v..  
 Source: Ericsson*

(Replaces R3-237512)

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

**R3-237586 (TP for SON 37.340 and 38.423) Discussion on MRO enhancement for CPAC**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237587 (TP for SON 38.413) Discussion on MRO enhancement for fast MCG recovery and voice fallback**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237668 Discussion on MRO for CPAC**

*Type: discussion For: Discussion  
 Source: CMCC*

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

**R3-237669 Discussion on MRO for fast MCG recovery**

*Type: discussion For: Discussion  
 Source: CMCC*

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

**R3-237703 (TP for SON BL CR 36.300) Stage 2 clean-up on MRO for inter-system handover for voice fallback**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237704 (TP for SON BL CR 38.300) Stage 2 clean-up on MRO for inter-system handover for voice fallback**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom*

**Decision:** The document was **revised to R3-237932**.

**R3-237932 (TP for SON BL CR 38.300) Stage 2 clean-up on MRO for inter-system handover for voice fallback**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom, Nokia, Nokia Shanghai Bell*

(Replaces R3-237704)

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

**R3-237705 (TP for SON BL CR 38.413) MRO for inter-system handover for voice fallback**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom*

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

**R3-237513 (TP for SON BL CR for TS 37.340) Clarification on CPAC failure definitions**

*Type: other For: (not specified)  
 37.340 v..  
 Source: Ericsson*

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

MRO for CPAC:

**Further cleanup on stage2 text**

**The suitable PSCell ID transmission from the initiating MN to target SN, and initiating SN to target SN?**

HUAWEI: It’s useful to have this from initiating MN/SN to target SN

ZTE: Have doubt on the direction from SN to MN

CATT: Support it but needs to consider the too late case

Lenovo, ERICSSON: Has doubt on the case uses, the current mechanism is there

QUALCOMM: Indicate suitable PSCell ID seems not proper

Include “Indication whether a candidate PSCell is selected by the candidate target” in SCG FAILURE INFORMATION REPORT from the MN to the candidate SN?

Fast MCG recovery:

**Whether to forward the RLF report for SCG failure from the last serving MN to SN? Stage2 only?**

HUAWEI: Discuss the message to support this

SAMSUNG, ZTE: RLF failure can be reused, no stage3 impact

CATT, CMCC: Needs to identify the benefits first

ERICSSON: It’s beneficial to let SN knows the failure happens

**CB # SONMDT2\_MRO**

**R3-237786 CB:#SONMDT2\_MRO**

*Type: discussion For: discussion  
 Source: Nokia*

**Discussion:**

- Discuss the open issues above

- Provide TPs if agreeable

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

#### 10.2.3 RACH Enhancements

**R3-237314 (TP for SON BLCR for TS 38.423): Clean-up for RACH Enhancement**

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

**Discussion:**

CATT: Support TP

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

**R3-237315 (TP for SON BLCR for TS 36.423): Clean-up for RACH Enhancement**

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

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

**R3-237455 RA Report enhancements for identifying RACH partitoning configuration**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R3-237514 RACH Optimization enhancement**

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

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

#### 10.2.4 SON/MDT Enhancements for Non-Public Networks

**R3-237143 Reply LS on potential override of logged MDT reports upon moving from SNPN to PLMN**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311526, to RAN3, cc -  
 Source: RAN2(CATT)*

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

**R3-237156 Reply LS on user consent of Non-public Network**

*Type: LS in For: Discussion  
 Original outgoing LS: S5-236928, to RAN3, cc RAN2, SA3  
 Source: SA5(Ericsson)*

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

**R3-237607 (TPs for MDT BLCRs for TS 38.423)MDT support in NPN**

*Type: other For: (not specified)  
 Source: ZTE, CMCC,China Unicom*

**Discussion:**

Nokia, HUAWEI: Semantic description is enough

CATT: Prefer to keep procedure text as abnormal case

- Keep abnormal description on the case that MDT area scope is absent while PNI-NPN area scope exists

**Decision:** The document was **revised to R3-237787**.

**R3-237787 (TPs for MDT BLCRs for TS 38.423)MDT support in NPN**

*Type: other For: -  
 Source: ZTE, CMCC,China Unicom*

(Replaces R3-237607)

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

**R3-237206 (TP for MDT BLCR for TS 38.423): Clean-up for MDT for NPN**

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

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

**R3-237450 (TP for TS 38.413) Updates of MDT area scope for NPN in NGAP and XnAP**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Use abnormal condition to exclude combinations of SNPN and PNI-NPN area scope

ERICSSON: Is this really an abnormal condition? RAN node can treat such case by implementation. This combination does not generate error.

ZTE: It’s not precluded that OAM has the intention to send both configuration to RAN

CATT: Similar view as ERICSSON and ZTE

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

**R3-237515 (TP for SON BLCR to TS 38.413 and TS 38.423) SON enhancements for Non-public networks**

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

**Discussion:**

**Remove the SNPN TAI Based MDT and SNPN Cell Based MDT from the Choice Area Scope of MDT in TS 38.413 and TS 38.423 agreed in this release.**

ZTE, Nokia: It has discussed before which helps RAN to check whether any mis-configuration from OAM

CATT, QUALCOMM: Agree with ERICSSON

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

**R3-237788 CB:#SONMDT3\_NPN**

*Type: other For: discussion  
 Source: ZTE*

**Discussion:**

- Work on R3-237787

- Discuss the open issue

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

**R3-237965 (TP for MDT BLCR for TS38.413) MDT support in NPN**

*Type: other For: Agreement  
 Source: Huawei*

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

No consensus on removing the SNPN TAI Based MDT and SNPN Cell Based MDT over NG/Xn AP.

#### 10.2.5 SON for NR-U

**R3-237207 (TP for SON BL CR for TS 38.300): SON for NR-U**

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

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

**R3-237509 (TP for SON to BLCR for TS 38.473, TS 38.423) NR-U enhancements for MLB and MRO**

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

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

**R3-237588 Discussion on SON enhancement for NR-U**

*Type: discussion For: Decision  
 Source: CATT*

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

**R3-237187 Conclusion of the discussion on SON for NR-U**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-235162)

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

**R3-237337 (TP for SON BL CR 38.300) Stage 2 clean-up on MRO for NR-U**

*Type: other For: Agreement  
 Source: ZTE*

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

**R3-237404 Discussion on MRO for NR-U**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237456 SON enhancements for NR-U**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

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

**R3-237508 (TP for SON to BLCR for TS 38.300) LBT failures in MRO**

*Type: other For: Agreement  
 38.300 v..  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm*

**Decision:** The document was **revised to R3-237802**.

**R3-237802 (TP for SON to BLCR for TS 38.300) LBT failures in MRO**

*Type: other For: Agreement  
 38.300 v17.6.0  
 Source: Ericsson, Samsung, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated*

(Replaces R3-237508)

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

**R3-237322 Discussion on SON for NR-U**

*Type: other For: Approval  
 Source: Samsung*

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

**Turn the WA into an agreement?**

WA: RAN3 agrees to enable reporting of number of DL LBT failures from the target node to the source node in case of failed HO attempt (assuming the UE can be identified).

CATT: No.

Nokia: In principle fine. Which exact scenario refers to. RLF failure after HO, and UE connects to anther cell.

Lenovo: Yes.

ERICSSON: Fine to have more discussion on the scenarios

QUALCOMM: Yes, HO failure case.

Add a new load metric per NR-U Channel (over F1 and Xn) to indicate the number of consistent uplink LBT failures detected for a certain NR-U channel in a reporting period?

ZTE, Lenovo, HUAWEI: Not needed, existing metric is enough.

SAMSUNG: How to collect the number of consistent uplink LBT failures?

ERICSSON: It’s feasible. UE will report it in MAC CE

Nokia: From which UE? ERICSSON: R18 UE

CATT: The CU is difficult to use it properly, the collection period will be different for different cell.

QUALCOMM: It’s too complicated. You need aggregate all the report from UEs.

**Stage2 and stage3 cleanup**

**CB # SONMDT4\_NR-U**

**R3-237789 CB:#SONMDT4\_NR-U**

*Type: other For: discussion  
 Source: Ericsson*

**Discussion:**

- Discuss the open issue above

- Provide TPs if agreeable

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

**R3-237803 Ericsson, Samsung, Nokia, Nokia Shanghai Bell, Lenovo,**

**Qualcomm Incorporated**

*Type: other For: Agreement  
 38.423 v17.6.0  
 Source: Ericsson*

**Discussion:**

- This IE indicates that information on DL LBT Failures occurring at the target gNB during handover execution that results in mobility failure is requested.

**Decision:** The document was **revised to R3-238002**.

**R3-238002 (TP for SON to BLCR for TS 38.423) LBT failures in MRO**

*Type: other For: Agreement  
 38.423 v17.6.0  
 Source: Ericsson*

(Replaces R3-237803)

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

**[Agreement]**

**In case of mobility failure, reporting of DL LBT failures at the target during handover execution is enabled when the UE reestablishes to the source node and the UE can be identified by the target node.**

**The number of DL LBT failures at the target during handover execution is provided if the source node requests for it.**

#### 10.2.6 MDT Enhancements

## 11 Enhancement on NR QoE WI (RAN3-led)

WID [NR\_QoE\_enh-Core]: [RP-223488](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223488.zip) (target: RAN #102) [TU: 1 (**1**)]

**The R18 QoE WI is completed in RAN3.**

### 11.1 General

**R3-237018 (BLCR to 38.470) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0120 rev 2 Cat: B (Rel-18)  
  
 Source: Lenovo, ZTE, Ericsson, Huawei, Samsung, Nokia, Nokia Shanghai Bell*

(Replaces R3-235899)

**Abstract:**

BL CR

**Discussion:**

- Add Nokia as co-source

**Decision:** The document was **revised to R3-237904**.

**R3-237904 (BLCR to 38.470) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0120 rev 3 Cat: B (Rel-18)  
  
 Source: Lenovo, ZTE, Ericsson, Huawei, Samsung, Nokia, Nokia Shanghai Bell*

(Replaces R3-237018)

**Abstract:**

BL CR

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

**R3-237019 (BL CR to 37.340) QMC enhancements for NR-DC**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell, ZTE, China Unicom, Orange, Ericsson*

(Replaces R3-235989)

**Abstract:**

BL CR

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

**R3-237020 (BL CR to 38.300) Introduction of R18 QoE measurement**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: China Unicom*

(Replaces R3-235990)

**Abstract:**

BL CR

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

**R3-237021 (BL CR to 38.401) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0267 rev 9 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-235991)

**Abstract:**

BL CR

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

**R3-237022 (BLCR to 38.413) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0984 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, China Unicom*

(Replaces R3-235992)

**Abstract:**

BL CR

**Discussion:**

- update the meeting information

**Decision:** The document was **revised to R3-237903**.

**R3-237903 (BLCR to 38.413) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0984 rev 7 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, China Unicom*

(Replaces R3-237022)

**Abstract:**

BL CR

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

**R3-237023 (BLCR to 38.423) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1069 rev 6 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-235993)

**Abstract:**

BL CR

**Discussion:**

- check page 212, using the latest spec text

**Decision:** The document was **revised to R3-237905**.

**R3-237905 (BLCR to 38.423) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1069 rev 7 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-237023)

**Abstract:**

BL CR

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

**R3-237024 (BLCR to 38.473) Introduction of R18 QoE measurement**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1070 rev 10 Cat: B (Rel-18)  
  
 Source: ZTE*

(Replaces R3-235994)

**Abstract:**

BL CR

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

**R3-237706 Update Workplan for Rel-18 NR QoE Enhancement**

*Type: Work Plan For: (not specified)  
 Source: China Unicom*

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

**R3-237707 (BLCR to 38.300) Introduction of R18 QoE measurement**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: China Unicom*

**Abstract:**

BL CR

**Decision:** The document was **revised to R3-237906**.

**R3-237906 (BLCR to 38.300) Introduction of R18 QoE measurement**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: China Unicom*

(Replaces R3-237707)

**Abstract:**

BL CR

**Discussion:**

**No comments received in RAN3.**

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

### 11.2 Support for New Service Type and RRC\_INACTIVE/RRC\_IDLE states

**R3-237142 Reply LS on area scope for QoE measurements**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311400, to SA4, SA5, cc RAN3  
 Source: RAN2(Qualcomm)*

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

**R3-237738 LS reply for LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS in For: Discussion  
 Original outgoing LS: S3-235102, to RAN3, cc RAN2, SA2, SA5  
 Source: SA3(Nokia)*

**Discussion:**

Lenovo, CU, ZTE, HUAWEI, SAMSUNG, CATT, Xiaomi, NEC: Do not see the issue. It’s legacy behaviour.

Nokia: This is not the case in R17, the configuration sent back to network may impact on the subsequent behaviour

QUALCOMM: So far, there is no configuration information stored in UE

HUAWEI: Like logged MDT case

Xiaomi: In this case, some parameters like TCE ID and Trace ID will be sent back to network

CU: Reduce the load to CN

ERICSSON: Try to conclude on the solution, prefer to CN based solution

NEC: Do not understand why UE will change the data

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

**R3-237718 Further discussions on QoE measurement for MBS service**

*Type: discussion For: Decision  
 Source: Huawei*

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

**R3-237457 QMC for applications carried over MBS broadcast and multicast**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

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

**R3-237689 Discussion on IDLE INACTIVE QoE with draft LS**

*Type: discussion For: Approval  
 Source: ZTE, China Telecom, CMCC*

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

**R3-237179 (TP for QoE BL CR for TS 38.413) QoE and RVQoE Measurement Support for MBS**

*Type: discussion For: Agreement  
 Source: Ericsson*

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

**R3-237447 (TP for TS 38.413) Storage/retrieval of QMC context**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm, Ericsson, Orange*

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

**R3-237242 Discussion on INACTIVE&IDLE QoE**

*Type: discussion For: Discussion  
 Source: NEC*

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

**R3-237383 (TP for TS 38.300) QMC support for RRC\_IDLE**

*Type: other For: Approval  
 Source: Xiaomi*

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

**R3-237405 (TPs for BLCR 38.423 and 38.420) Remaining issues on QoE measurement in RRC\_INACTIVE and RRC\_IDLE states**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237448 (TP for TS 38.413) Handling of failed MBS QMC activation**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237458 QoE enhancements for UEs in HSDN cells and high speed**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

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

**R3-237593 TP to BLCR for 38.413 on NR QoE in RRC\_INACTIVE/RRC\_IDLE states**

*Type: other For: (not specified)  
 38.413 v..  
 Source: CATT*

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

**R3-237594 [Draft] Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS out For: (not specified)  
 to RAN2,SA5  
 Source: CATT*

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

**R3-237637 Leftover issues on QMC for MBS and RRC state**

*Type: discussion For: Agreement  
 Source: Samsung*

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

**R3-237690 TP to 38423 and 38300 for INACTIVE IDLE QoE**

*Type: other For: Approval  
 Source: ZTE, China Telecom, China Unicom*

**Decision:** The document was **revised to R3-237996**.

**R3-237996 TP to 38423 BLCR for INACTIVE/IDLE QoE**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, CMCC*

(Replaces R3-237690)

**Discussion:**

remove changes over changes

**Decision:** The document was **revised to R3-238004**.

**R3-238004 TP to 38423 BLCR for INACTIVE/IDLE QoE**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, CMCC*

(Replaces R3-237996)

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

**R3-237708 Discussion on QoE measurement in RRC\_INACTIVE and RRC\_IDLE states**

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

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

**R3-237719 (TP to BL CR of 38.413) on support of QoE measurement continuity in unicast for MBS service**

*Type: other For: Approval  
 38.413 v..  
 Source: Huawei, China Telecom, China Unicom*

**Decision:** The document was **revised to R3-237971**.

**R3-237971 (TP to BL CR of 38.413) on support of QoE measurement continuity in unicast for MBS service**

*Type: other For: Agreement  
 38.413 v..  
 Source: Huawei, China Telecom, China Unicom*

(Replaces R3-237719)

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

**R3-237871 Summary of offline discussion on CB on QoE RRC\_IDLE/INACTIVE**

*Type: discussion For: discussion  
 Source: Lenovo*

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

**[Agreement] Turn the WA to agreement: WA: UE based solution for IDLE QoE configuration retrieve in Rel-18 IDLE/INACTIVE QoE.**

UE based solution: 8 companies

CN based solution: 3 companies

QUALCOMM: SA2 plans to send the LS back to RAN3.

ZTE: The draft LS is still under discussion in SA2. The QoE configuration of all UEs in CN will bring big burden to CN.

Xiaomi: Two major issues fro CN based solution, how AMF obtains the latest QoE configuration in UE; after UE enters RRC Connected state, AMF does not know whether UE released the UE configuration.

HUAWEI: There is no blocking point for both solutions

CU: Share view as ZTE and HUAWEI, make decision in RAN3

SAMSUNG: RAN2 has captured UE based solution as assumption

Nokia: There has concerns on UE based solution from RAN2

**[Agreement]**

**No need to add a codepoint for unicast in communication service mode IE in QoE configuration.**

**The QoE measurement should be continued when switching between multicast and unicast transmission mode for an ongoing session.**

**How to capture it in Stage2 is FFS.**

**There is no consensus on whether and how to provide MDT alignment information towards the reconnecting gNB in R18.**

**[Agreement] No need to specify separate Assistance Information IEs for the following two scenarios: Handling of QoE reports in case of full buffer at the UE and Pausing of QoE reporting during RAN overload.**

QUALCOMM: Whether we need to introduce different priority for these two cases over Uu?

ERICSSON: This proposal is for NG. These are two scenarios and different priorities should be applied.

HUAWEI, SAMSUNG, ZTE: gNB understands everything, it can be left to gNB implementation with flexibility

Nokia: Keep it simple

**[Agreement] RAN3 does not see the need to send the UE an indication of whether the UE should stop or continue ongoing QoE/RVQoE measurements in case the UE leaves the area scope while in RRC\_IDLE and RRC\_INACTIVE states.**

**CB # QoE1\_Inactive**

**R3-237910 CB:#QoE1\_Inactive**

*Type: other For: discussion  
 Source: Lenovo*

**Discussion:**

- Provide TPs to capture all agreements

- LS to other other groups? Including MCE ID support in SA5?

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

**R3-237972 (TP to BL CR of 38.300) on support of QoE measurement for MBS service**

*Type: other For: Agreement  
 Source: Huawei*

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

**R3-237983 [Draft] Support for MCE ID**

*Type: LS out For: Agreement  
 to SA5, RAN2  
 Source: Ericsson*

**Discussion:**

- the re-connecting gNB->the new gNB

-the RAN-> the gNB

- cc SA3

**Decision:** The document was **revised to R3-238003**.

**R3-238003 Support for MCE ID**

*Type: LS out For: Agreement  
 to SA5, RAN2, cc SA3  
 Source: RAN3(Ericsson)*

(Replaces R3-237983)

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

**R3-237997 LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS out For: discussion  
 to RAN2  
 Source: ZTE*

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

### 11.3 Support QoE for NR-DC

**R3-237655 Discussion on the remaining issues on QoE enhancement for NR-DC**

*Type: discussion For: Agreement  
 Source: ZTE, China Telecom*

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

**R3-237180 (TP for QoE BL CR for TS 38.423, TS 37.340, and 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 R3-237899**.

**R3-237899 (TP for QoE BL CR for TS 38.423): QoE support in NR-DC**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-237180)

**Discussion:**

- change BOOLEAN to ENUMERATED (true, ...)

**Decision:** The document was **revised to R3-238039**.

**R3-238039 (TP for QoE BL CR for TS 38.423): QoE support in NR-DC**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-237899)

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

**R3-237406 On remaining issues of QoE measurement in NR-DC**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237449 Discussion on QoE/RVQoE measurement report continuity during SCG/MCG failure**

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

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

**R3-237510 (draft CR to 38.420) QMC enhancements for NR-DC**

*Type: draftCR For: Agreement  
 38.420 v17.2.0  
 Source: Qualcomm Technologies Int*

**Decision:** The document was **revised to R3-237934**.

**R3-237934 (draft CR to 38.420) QMC enhancements for NR-DC**

*Type: draftCR For: Agreement  
 38.420 v17.2.0  
 Source: Qualcomm Technologies Int*

(Replaces R3-237510)

**Discussion:**

- rev in BL CR format, check CR number

**Decision:** The document was **revised to R3-238042**.

**R3-238042 (BL CR to 38.420) QMC enhancements for NR-DC**

*Type: CR For: Agreement  
 38.420 v17.2.0 CR-0038 Cat: B (Rel-18)  
  
 Source: Qualcomm Technologies Int*

(Replaces R3-237934)

**Abstract:**

BL CR

**Discussion:**

endorsed as BL CR

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

**R3-237595 Discussion on Support for QoE in NR-DC**

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

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

**R3-237638 Leftovers for QMC support of NR-DC**

*Type: discussion For: Agreement  
 Source: Samsung*

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

**R3-237651 Discussion on RAN overload in NR-DC**

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

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

**R3-237656 Stage 2 TPs to BL CR of 37.340 and 38.300 on QoE in NR-DC**

*Type: other For: Agreement  
 Source: ZTE, China Telecom*

**Decision:** The document was **revised to R3-237933**.

**R3-237933 (TP for BL CR for TS 37.340) on QoE in NR-DC**

*Type: other For: Agreement  
 37.340 v..  
 Source: ZTE, China Telecom*

(Replaces R3-237656)

**Discussion:**

- For ongoing sessions, QoE measurement continuity is ensured during mobility in NR-DC e.g., during inter-MN handover (with and without SN change) and SN change scenarios.

**Decision:** The document was **revised to R3-238041**.

**R3-238041 (TP for BL CR for TS 37.340) on QoE in NR-DC**

*Type: other For: Agreement  
 37.340 v..  
 Source: ZTE，China Telecom, Ericsson*

(Replaces R3-237933)

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

**R3-237657 (TP to BLCR of 38.423) QoE enhancement for NR-DC**

*Type: other For: Agreement  
 Source: ZTE, China Telecom*

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

**R3-237716 (TP to BL CR of 38.300 38.423 37.340) QoE in NR-DC**

*Type: other For: (not specified)  
 Source: China Unicom*

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

**R3-237720 Further discussions on QoE measurement for NR-DC**

*Type: discussion For: Decision  
 Source: Huawei*

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

**R3-237721 (TP to BL CR of 38.423) on QoE measurement enhancements in DC**

*Type: other For: Approval  
 38.423 v..  
 Source: Huawei, China Telecom, China Unicom*

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

**R3-237459 Support for QoE in NR-DC**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

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

**R3-237897 Summary of offline discussion on QoE in NR-DC**

*Type: discussion For: discussion  
 Source: ZTE*

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

**[Agreement]**

**The QoE configuration container should not be included in SN to MN QMC Coordination Request List, because the MN can only decide to configure the m-based QoE to UE by itself instead of SN when the MN has received the same QoE configuration.**

**Confirm the usage of RRC transfer message to forward RVQoE reports and/or QoE reports between MN and SN.**

Further check whether to use the QoE Reference or Measurement Configuration Application Layer ID in the RRC container for QoE/RVQoE reports.

**[Agreement]**

**Add MCE IP Address in the SN to MN QMC Coordination Request List of QMC Coordination Request IE.**

**Reuse the existing IE for QoE configuration, which is called e.g. ‘SN-related QMC configuration IE’, to allow the SN to provide the SN-received QoE configuration to the MN.**

**Include SN-related QMC configuration IE in the following messages:**

**- Handover Request**

**- SN Addition Request**

**- SN Change Required**

**- SN Modification Required**

**- SN Modification Request Acknowledge**

ZTE, ERICSSON, HUAWEI, Lenovo: The case is MN initiated SN change.

Nokia: The last one can be used for both MN initiated SN change and inter MN HO. Do we allow the co-existence of push and request-response mechanism?

ERICSSON: Support the mobility scenarios in a legacy way

SAMSUNG: It’s not two mechanisms, but different scenarios

**[Agreement]**

**Add a new IE for the current reporting path(i.e., SRB4, SRB5) in NR-DC into the UE Application Layer Measurement Configuration Information IE in Xn.**

**Capture stage 2 description on RAN overload in TS37.340.**

**The SN should inform the MN if the SN has released a QoE configuration, via the QMC coordination procedure.**

ERICSSON: The peer node needs to be informed that the other node has released the QMC configuration. MN should free the corresponding RRC ID.

Chair: Another direction from MN to SN?

HUAWEI: Fine to address this.

**Proposal 9: In NR-DC, after the NG-RAN node1 sends the RVQoE configuration preference to the NG-RAN node 2 (due to the determination of radio bearers), the NG-RAN node2 should send an indication of whether the preferred RVQoE configuration has been successfully sent to the UE.**

Chair: What’s the benefits to have this

Xiaomi, HUAWEI, SAMSUNG: Share similar view as chair

**CB # QoE2\_NRDC**

**R3-237911 CB:#QoE2\_NRDC**

*Type: other For: discussion  
 Source: ZTE*

**Discussion:**

- Provide TPs to capture above agreements

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

**R3-237935 (TP for BLCR for TS 38.300) on QoE in NR-DC**

*Type: other For: Agreement  
 38.300 v..  
 Source: Huawei*

**Discussion:**

- remove the first change and add the second change at the end of last para

**Decision:** The document was **revised to R3-238040**.

**R3-238040 (TP for BLCR for TS 38.300) on QoE in NR-DC**

*Type: other For: Agreement  
 38.300 v..  
 Source: Huawei*

(Replaces R3-237935)

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

### 11.4 Others

**R3-237181 (TPs for QoE BL CRs for TS 38.413 and TS 38.423) Enhancements of Rel-17 QoE and RVQoE Features**

*Type: other For: Agreement  
 Source: Ericsson*

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

**R3-237722 Further discussion on remaining open issues and leftovers**

*Type: discussion For: Decision  
 Source: Huawei*

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

**R3-237658 Further discussion on other issues**

*Type: discussion For: Agreement  
 Source: ZTE, China Telecom, China Unicom, CMCC*

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

**R3-237243 Discussion on intra-5GC Inter-RAT handover**

*Type: discussion For: Discussion  
 Source: NEC*

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

**R3-237659 (TPs for BL CR of TS38.401&38.473) Deactivation of RVQoE reporting over F1AP**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom*

**Decision:** The document was **revised to R3-237957**.

**R3-237957 (TP to BLCR of 38.473) Deactivation of RVQoE reporting over F1AP**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom*

(Replaces R3-237659)

**Discussion:**

- Add Transaction ID IE as M

- Add Yes, ignore for Deactivation Indication List

- Add Nokia, CATT, ERICSSON as co-source

**Decision:** The document was **revised to R3-238007**.

**R3-238007 (TP to BLCR of 38.473) Deactivation of RVQoE reporting over F1AP**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, China Unicom, Nokia, Nokia Shanghai Bell, CATT, Ericsson*

(Replaces R3-237957)

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

**R3-237717 (TP to BL CR of 38.413) Inter-RAT mobility for QoE measurement**

*Type: other For: Agreement  
 Source: China Unicom*

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

**R3-237723 (TP to BL CR of 38.300) on intra-system inter-RAT handover and CHO for QoE measurement**

*Type: other For: Approval  
 38.300 v..  
 Source: Huawei, China Telecom, China Unicom*

**Decision:** The document was **revised to R3-237970**.

**R3-237970 (TP to BL CR of 38.300) on intra-system inter-RAT handover and CHO for QoE measurement**

*Type: other For: Approval  
 38.300 v..  
 Source: Huawei, China Telecom, China Unicom*

(Replaces R3-237723)

**Discussion:**

- The source gNB decides which QoE measurement to keep and sends the information about this QoE measurement to the target ng-eNB.

**Decision:** The document was **revised to R3-238006**.

**R3-238006 (TP to BL CR of 38.300) on intra-system inter-RAT handover and CHO for QoE measurement**

*Type: other For: Approval  
 38.300 v..  
 Source: Huawei, China Telecom, China Unicom*

(Replaces R3-237970)

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

**R3-237889 summary of offline discussion on QoE others**

*Type: discussion For: discussion  
 Source: Huawei*

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

1. Take UE-based solution for QoE measurement status indication to target node during CHO process, i.e. reuse the existing mechanism that UE sends the session status to the new connected gNB.

QUALCOMM, ZTE: After HO execution, do not see the benefits

ERICSSON, SAMSUNG: Support the proposal, but leave the details to SA4 and RAN2 should work on

2. For inter-RAT HO:

1) **[Agreement] to clarify that CGI could indicate either NR CGI or E-UTRA CGI in 38.413;**

2) Reuse the legacy QoE configuration release procedure to release configured QoE measurement configurations during HO from NR to LTE, pending to RAN2 conclusion

(for 1), 6 companies support, 1 company is reluctant; for 2) 5 companies support to reuse existing mechanism, 2 companies prefer that the UE release all the NR QoE configurations when it receives MobilityFromNRCommand;)

ERICSSON: RAN2 concluded that reusing the legacy QoE configuration release procedure to release configured QoE measurement configurations

**CB # QoE3\_Others**

**R3-237912 CB:#QoE3\_Others**

*Type: other For: discussion  
 Source: Huawei*

**Discussion:**

- Provide TPs if agreeable

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

**R3-237976 (TP for 38.410) on Introduction of R18 QoE measurement**

*Type: other For: Agreement  
 Source: CATT*

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

## 12 AI/ML for NG-RAN WI (RAN3-led)

WID [NR\_AIML\_NGRAN-Core]: [RP-231159](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231159.zip) (target: RAN #102) [TU: 2 (**2**)]

**The R18 AI/ML for NG-RAN WI is completed in RAN3.**

### 12.1 General

**R3-237025 (BL CR to TS 38.401) for addition of AI/ML-RAN feature in the case of split architecture**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0265 rev 9 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Lenovo, Huawei, Samsung, Intel Corporation, CMCC*

(Replaces R3-235050)

**Abstract:**

BL CR

**Discussion:**

- update the meeting number

**Decision:** The document was **revised to R3-237790**.

**R3-237790 (BL CR to TS 38.401) for addition of AI/ML-RAN feature in the case of split architecture**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0265 rev 10 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Lenovo, Huawei, Samsung, Intel Corporation, CMCC*

(Replaces R3-237025)

**Abstract:**

BL CR

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

**R3-237026 (BL CR to 38.300) AI/ML for NG-RAN**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: CMCC, ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei, CATT, Samsung, Lenovo, Intel Corporation, China Unicom, InterDigital, Qualcomm Incorporated*

(Replaces R3-235953)

**Abstract:**

BL CR

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

**R3-237027 (BL CR to 38.420) Support of AIML for NG-RAN**

*Type: CR For: Agreement  
 38.420 v17.2.0 CR-0036 rev 1 Cat: B (Rel-18)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell*

(Replaces R3-235954)

**Abstract:**

BL CR

**Discussion:**

- update revision number to “1”

**Decision:** The document was **revised to R3-237791**.

**R3-237791 (BL CR to 38.420) Support of AIML for NG-RAN**

*Type: CR For: Agreement  
 38.420 v17.2.0 CR-0036 rev 2 Cat: B (Rel-18)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell*

(Replaces R3-237027)

**Abstract:**

BL CR

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

**R3-237028 (BLCR to 38.423) for AI/ML for NG-RAN**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0959 rev 11 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces R3-235955)

**Abstract:**

BL CR

**Discussion:**

- Add Nokia as co-source

**Decision:** The document was **revised to R3-237792**.

**R3-237792 (BLCR to 38.423) for AI/ML for NG-RAN**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0959 rev 12 Cat: B (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-237028)

**Abstract:**

BL CR

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

### 12.2 Data Collection Enhancements and Signaling Support

#### 12.2.1 Stage2 Related

**R3-237290 (TP to 38.300 BLCR) Stage2 description update for AIML RAN**

*Type: other For: (not specified)  
 Source: ZTE, Samsung, CMCC, China Telecom, China Unicom*

**Discussion:**

Nokia, HUAWEI, Lenovo, ERICSSON: No need to describe the legacy resource status reporting procedure

SAMSUNG: Would like to keep it in stage2

ERICSSON, Nokia, HUAWEI: EC description exists in stage3

- update the text based on online comments

- Add the first, second, third changes proposed in R3-237378

- Add the changes proposed in R3-237407 for TS38.300

Including :Support of AI/ML for NG-RAN, as a RAN internal function, is used to facilitate Artificial Intelligence (AI) and Machine Learning (ML) techniques in NG-RAN.

**Decision:** The document was **revised to R3-237793**.

**R3-237793 (TP to 38.300 BLCR) Stage2 description update for AIML RAN**

*Type: other For: -  
 Source: ZTE, Samsung, CMCC, China Telecom, China Unicom*

(Replaces R3-237290)

**Discussion:**

- Add interdigital as co-source

**Decision:** The document was **revised to R3-238008**.

**R3-238008 (TP to 38.300 BLCR) Stage2 description update for AIML RAN**

*Type: other For: Agreement  
 Source: ZTE, Samsung, CMCC, China Telecom, China Unicom, Interdigital*

(Replaces R3-237793)

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

**R3-237291 (TP for BLCR 38.401) Stage2 impact of E1&F1 interface for AIRAN**

*Type: other For: (not specified)  
 Source: ZTE, Samsung, CMCC, China Telecom, China Unicom*

**Decision:** The document was **not pursued**.

**R3-237378 (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: Discussion  
 Source: Huawei*

**Decision:** The document was **merged**.

**R3-237407 (TPs for BLCR to TS 38.300 and TS 38.420) Corrections on terminology**

*Type: other For: Approval  
 Source: Lenovo*

**Discussion:**

- Only keep the TP for TS38.420

**Decision:** The document was **revised to R3-237794**.

**R3-237794 (TPs for BLCR to TS 38.420) Corrections on terminology**

*Type: other For: Approval  
 Source: Lenovo*

(Replaces R3-237407)

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

**R3-237487 Discussions on stage 2 issues**

*Type: discussion For: Agreement  
 Source: Ericsson, AT&T, InterDigital*

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

**R3-237488 (TP for AI/ML BLCR to TS38.300) Characteristics of the procedures for exchanging AI/ML-related information**

*Type: other For: Agreement  
 Source: Ericsson, AT&T, InterDigital*

**Discussion:**

ZTE, CATT: It’s not necessary to capture this, which has not been discussed yet

CATT: We do not use negative description in our spec

DT, Nokia: To be careful to use word like “out of 3GPP scope”

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

**R3-237576 (TP to TS 38.300) Stage 2 Updates**

*Type: other For: (not specified)  
 38.300 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

ZTE, HUAWEI, CMCC, ERICSSON, CATT: Such description is stage3 related

ERICSSON: Receiver node behaviour needs to be discussed in stage3

SAMSUNG: Fine to discuss this further, conditionA and conditionB

NEC: Can discuss in stage2

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

**CB # AIML1\_Stage2**

**- Check** [R3-237793](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237793.zip) **and** [R3-237794](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237794.zip)

(moderator - CMCC)

#### 12.2.2 Stage3 Related

##### 12.2.2.1 LB and Xn procedures

**R3-237256 Discussion on remaining open issues in UE performance for NG-RAN AI/ML**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

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

**R3-237292 Futher discussion on remaining issues for Load Balancing**

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

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

**R3-237293 (TP to 38.423 BLCR) AIML based Load Balancing**

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

**Decision:** The document was **revised to R3-237939**.

**R3-237939 (TP for BL CR for TS 38.423) AIML based Load Balancing**

*Type: other For: Agreement  
 Source: ZTE*

(Replaces R3-237293)

**Discussion:**

(TP for BL CR for TS 38.423) AIML based Load Balancing

- Other bits are ignored by the NG-RAN node2.

- Add Interdigital as co-source

**Decision:** The document was **revised to R3-238009**.

**R3-238009 (TP for BL CR for TS 38.423) AIML based Load Balancing**

*Type: other For: Agreement  
 Source: ZTE, Interdigital*

(Replaces R3-237939)

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

**R3-237577 (TP to BL CR for TS 38.423) Cause Value Discussion and Other Open Issues**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237578 (TP to BL CR for TS 38.423) UE Performance Data Collection**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-237940**.

**R3-237940 (TP to BL CR for TS 38.423) UE Performance Data Collection**

*Type: other For: Agreement  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237578)

**Discussion:**

(TP for BL CR for TS 38.423) UE Performance Data Collection

- Rename the Average Packet Loss DL in the Data Collection Request message

**Decision:** The document was **revised to R3-238010**.

**R3-238010 (TP to BL CR for TS 38.423) UE Performance Data Collection**

*Type: other For: Agreement  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237940)

**Decision:** The document was **revised to R3-238061**.

**R3-238061 (TP to BL CR for TS 38.423) UE Performance Data Collection**

*Type: other For: Agreement  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-238010)

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

**R3-237172 Discussion on UE performance feedback**

*Type: discussion For: Decision  
 Source: CATT*

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

**R3-237173 TP to BLCR for 38.423 on AL/ML load balance and FFS clear up**

*Type: other For: Agreement  
 Source: CATT*

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

**R3-237238 RAN AI/ML on UE Performance Feedback**

*Type: discussion For: Decision  
 Source: NEC*

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

**R3-237239 (TP to TS 38.423 on RAN AI/ML) on UE Performance Feedback**

*Type: other For: Agreement  
 Source: NEC*

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

**R3-237579 Discussion on Predicted Radio Resource Status**

*Type: discussion For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell, BT, Orange*

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

**R3-237580 (TP to BL CR for TS 38.423) Predicted Radio Resource Status**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell, BT, Orange*

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

**R3-237323 (TP to TS 38.423 BLCR) Failed Report Characteristics of UE Performance Feedback and Measured UE Trajectory**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-237977**.

**R3-237977 (TP for BL CR for TS 38.423) Failed Report Characteristics of UE Performance Feedback and Measured UE Trajectory**

*Type: other For: Agreement  
 38.423 v..  
 Source: Samsung*

(Replaces R3-237323)

**Discussion:**

- Update as: Other bits are ignored by the NG-RAN node1.

**Decision:** The document was **revised to R3-238011**.

**R3-238011 (TP for BL CR for TS 38.423) Failed Report Characteristics of UE Performance Feedback and Measured UE Trajectory**

*Type: other For: Agreement  
 38.423 v..  
 Source: Samsung*

(Replaces R3-237977)

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

**R3-237324 (TP to TS 38.423 BLCR) Support of AI/ML for LB**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-237941**.

**R3-237941 (TP for BL CR for TS 38.423) Failed Report Characteristics of UE Performance Feedback and Measured UE Trajectory**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-237324)

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

**R3-237379 (TP for AI/ML BL CR for TS 38.423) Remaining open issues for the Load Balancing use case**

*Type: other For: Discussion  
 Source: Huawei*

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

**R3-237408 Left issues related to load balancing use case**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237409 (TP for TS38.423 BLCR) On UE related feedback collection**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237423 Discussion on the open issue for AI/ML load balancing**

*Type: discussion For: (not specified)  
 Source: LG Electronics Inc.*

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

**R3-237424 (TP for NR\_AIML\_NGRAN-Core BL CR for TS 38.423) Discussion on the open issue for AI/ML load balancing**

*Type: other For: (not specified)  
 Source: LG Electronics Inc.*

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

**R3-237481 Periodic UE Performance Feedback measurements collection and reporting**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, InterDigital*

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

**R3-237482 (TP for AIML BL CR for TS 38.423) Periodic UE Performance Feedback measurements collection and reporting**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, InterDigital*

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

**R3-237483 Cause values for Data Collection Reporting Initiation**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, InterDigital*

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

**R3-237484 (TP for AIML for BLCR to TS38.423) Cause values for Data Collection Reporting Initiation**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, InterDigital*

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

**R3-237485 Data Collection Reporting clean-up**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, InterDigital*

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

**R3-237486 (TP for AIML for BLCR to TS38423) Data Collection Reporting clean-up**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, InterDigital*

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

**R3-237673 Discussion on AIML remaining issues**

*Type: discussion For: Discussion  
 Source: CMCC*

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

**R3-237674 (TP for 38.423)Procedure for Load Balancing**

*Type: other For: Discussion  
 Source: CMCC*

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

**[Agreement] Measurement Collection periodicity does not need to be introduced in Rel-18, can be further discussed in R19.**

HUAWEI: It is useful.

SAMSUNG: The measurement window is up to implementation

CATT: It’s not needed

ZTE: The UE performance feedback is average information

QUALCOMM, CMCC: The granularity of reporting periodicity can be adjusted to fulfill more requirements

Nokia: The UE performance feedback is different with other reporting information, which needs to be monitored with more specific collection period per UE

ERICSSON: Support this

CMCC: It’s kind of enhancement

Lenovo: Agree with majority

**[Agreement] Not introducing a new indicator in Data Collection Update message to indicate the UE performance feedback reporting termination in R18.**

Nokia, QUALCOMM: Support to indicate the termination in the target node

Lenovo: Fine to introduce the termination indicator as compromised way

ZTE:It’s not useful for the source node, the source node just care about the performance of UE rather than when this reporting information will be stopped

CATT: Doubt on the usage, there is no issue for the source node to keep UE context for longer time

HUAWEI, ERICSSON, SAMSUNG: Either sending the last measurement the node have, it’s kind of optimization. The window after HO is quite short.

SAMSUNG: The request node as full picture how long the measurement will be performed in the target.

**Revised the common understanding as follows: “For one pair of measurement IDs, the frequency at which the data collection update messages that include UE performance feedback are signaled is determined by the current reporting periodicity IE”?**

**Introduce New Cause value?**

Option 1: Measurement not supported with requested prediction time

Option 2: Measurement not available with requested prediction time

Option 3: Measurement not supported with requested reporting periodicity

Option 4: Measurement not available with requested reporting periodicity

Option 5: Measurement not Supported For The Requested Timing Configuration

Option 6: Measurement Temporarily not Available For The Requested Timing Configuration

Option 7: Reporting Periodicity or Requested Prediction time not supported

**Introduce the new codepoint like “update”/ “modify” type in Registration Request IE, allowing the modification of the configuration of the requested information?**

**CB # AIML2\_LB**

**R3-237796 CB:#AIML2\_LB**

*Type: other For: discussion  
 Source: ZTE*

**Discussion:**

- Discuss the open issues above

- Provide TPs if agreeable

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

**No consensus on the cause value due to timing issues in R18.**

**[Agreement]**

**Define the Measurement Collection Duration as INTEGER (1..5000, ...) per millisecond.**

**Change the name “*Average Packet Loss*” IE to “*Average Packet Loss DL*” IE.**

**Introduce *Average Packet Delay UL* IE and *Average Packet Delay DL* IE within *Average Packet Delay* IE. These IE are defined as INTEGER (0..10000).**

***Predicted Resource Status* IE only includes the *SSB Area Radio Resource Status List* IE, excluding the *DL scheduling PDCCH CCE usage* IE and *UL scheduling PDCCH CCE usage* IE. And remove the FFS on the details of *Predicted Resource Status* IE.**

**Remove the FFS related to the actions of the NG-RAN node2 and the corresponding FFS in the tabular for the encoding of the *Registration Request* IE.**

***Cell To Report List* IE in the DATA COLLECTION REQUEST message is not used for requesting UE performance feedback.**

**Move the bits of UE trajectory and UE performance to *Node Measurement Initiation Result List* IE.**

##### 12.2.2.2 ME and Xn procedures

**R3-237174 Support of AI/ML based mobility optimization**

*Type: discussion For: Decision  
 Source: CATT*

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

**R3-237175 TP to BLCR for TS 38.423 on AI/ML based mobility optimization**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **revised to R3-237967**.

**R3-237967 TP to BLCR for TS 38.423 on AI/ML based mobility optimization**

*Type: other For: Agreement  
 Source: CATT*

(Replaces R3-237175)

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

**R3-237294 Futher discussion on remaining issues for Mobility Optimization**

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

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

**R3-237295 (TP to 38.423 BLCR) AIML based Mobility Optimization**

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

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

**R3-237257 Discussion on open issues in UE Trajectory Prediction and Feedback**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

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

**R3-237581 (TP to BL CR for TS 38.423) Measured UE Trajectory**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237240 AI/ML Configuration of Measured UE Trajectory information**

*Type: discussion For: Decision  
 Source: NEC*

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

**R3-237241 (TP to TS 38.423 on RAN AI/ML) Configuration of Measured UE Trajectory information**

*Type: other For: Agreement  
 Source: NEC*

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

**R3-237325 (TP to TS 38.423 BLCR) Support of AI/ML for ME**

*Type: other For: Approval  
 Source: Samsung*

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

**R3-237380 (TP for AI/ML BL CR for TS 38.423) Remaining open issues for the Mobility Enhancements use case**

*Type: other For: Discussion  
 Source: Huawei*

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

**R3-237410 Left issues related to mobility enhancement use case**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237493 Cell based UE trajectory prediction configuration**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, InterDigital*

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

**R3-237494 (TP for AIML BLCR for TS 38.423) Cell based UE trajectory prediction exchange**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, InterDigital*

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

**R3-237568 Discussion on remaining issues for UE trajectory**

*Type: discussion For: Decision  
 Source: China Telecommunication*

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

**R3-237569 (TP for BLCR of TS 38.423) On support of measured UE trajectory**

*Type: other For: Agreement  
 Source: China Telecommunication*

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

**R3-237670 Discussion on Measured UE Trajectory Collection**

*Type: other For: Discussion  
 Source: CMCC*

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

**[Agreement] No consensus to introduce an indication for signalling the requesting node about condition A/B/C/D in R18.**

ERICSSON, NEC, China Telecom, Lenovo, SAMSUNG, LGE:The source node can understand the situation happened in the target node. Helps the source node to understand whether there is wrong estimation or not.

CMCC: Support to have ConditionB, but can accept to not have this in R18

QUALCOMM: This information is part of feedback

CATT, HUAWEI, Nokia: Not needed. Even the source node understands the conditions, but it still reply on the ground truth.

ZTE: The source node predicts the UE history trajectory only in R18 rather than UE status. It may have benefits in R19 for other predicted information, like UE status.

HUAWEI, Nokia: Whether it can be achieved by implicit way.

**Stage3 impact?**

**[Agreement]**

**Define the Number of Visited Cells IE in target NR-RAN node within the scope of (1..16).**

**Define the new Time Duration IE as INTEGER (1..4096...)s.**

or encoded as an ENUMERATED type, that is extensible, and which takes values ENUMERATED( 5s, 10s, 20s, 30s,…)?

Nokia: It sounds too big to define it as 4096s

ZTE: The same as the time stay IE

**IE name issues, e.g., Additional UE trajectory Reporting Conditions IE to UE Trajectory Collection Configuration IE, Report Time Duration IE to Collection Time Duration IE, The Number of Handover IE to The Number of Visited Cells IE?**

**Requesting node should configure Time Duration IE for the collection of measured UE trajectory in the DATA COLLECTION REQUEST message. Encode Time Duration IE in Additional UE Trajectory Reporting Conditions (FFS on the IE name) as mandatory?**

**CB # AIML3\_ME**

**R3-237798 CB:#AIML3\_ME**

*Type: other For: discussion  
 Source: CATT*

**Discussion:**

- Discuss the open issues above

- Provide TPs if agreeable

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

##### 12.2.2.3 ES and Xn procedures

**R3-237296 (TP to 38.423 BLCR)Further discussion on remaining issues for Energy Saving**

*Type: other For: (not specified)  
 Source: ZTE, Lenovo, China Telecom, China Unicom*

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

**R3-237491 AI/ML Network Energy Saving**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, Orange*

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

**R3-237492 (TP for AI/ML BLCR to TS38.423) AI/ML Network Energy Saving**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, AT&T, Orange*

**Discussion:**

CATT: Not ok to remove “Energy Consumption is measured on a linear scale.”

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

**R3-237326 (TP to TS 38.423 BLCR) Support of AI/ML for ES**

*Type: other For: Approval  
 Source: Samsung*

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

**R3-237381 (TP for AI/ML BL CR for TS 38.423) Remaining open issues for the Energy Saving use case**

*Type: other For: Discussion  
 Source: Huawei*

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

**R3-237582 Energy Cost Reporting**

*Type: discussion For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell, Deutsche Telekom, BT, Orange*

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

**R3-237583 (TP to BL CR for TS 38.423) AI/ML Energy Saving**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell, Deutsche Telekom, BT, Orange*

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

##### 12.2.2.4 Other interfaces

### 12.3 Others

## 13 Mobile IAB for NR WI (RAN3-led)

WID [NR\_mobile\_IAB-Core]: [RP-232643](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232643.zip) (target: RAN #102) [TU: 1.5 ( **1.5**)]

**The R18 Mobile IAB WI is completed in RAN3.**

### 13.1 General

**R3-237029 (BL CR to 38.305) Introduction of Mobile TRP**

*Type: draftCR For: Agreement  
 38.305 v17.6.0  
 Source: Ericsson, Xiaomi, Qualcomm Inc., CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-235049)

**Abstract:**

BL CR

**Discussion:**

- Revise WI code

**Decision:** The document was **revised to R3-237833**.

**R3-237833 (BL CR to 38.305) Introduction of Mobile TRP**

*Type: draftCR For: Agreement  
 38.305 v17.6.0  
 Source: Ericsson, Xiaomi, Qualcomm Inc., CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-237029)

**Decision:** The document was **revised to R3-237885**.

**R3-237885 (BL CR to 38.305) Introduction of Mobile TRP**

*Type: draftCR For: Agreement  
 38.305 v17.6.0  
 Source: Ericsson, Xiaomi, Qualcomm Inc., CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-237833)

**Abstract:**

BL CR

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

**R3-237030 (BL CR to 38.413) Support for mobile IAB**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0988 rev 5 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-235093)

**Abstract:**

BL CR

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

**R3-237031 (BL CR to 38.401) Support for mobile IAB**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0308 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei*

(Replaces R3-235974)

**Abstract:**

BL CR

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

**R3-237032 (BL CR to 38.423) Support for mobile IAB**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1102 rev 1 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-235975)

**Abstract:**

BL CR

**Discussion:**

- Revise WI code

**Decision:** The document was **revised to R3-237834**.

**R3-237834 (BL CR to 38.423) Support for mobile IAB**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1102 rev 2 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-237032)

**Abstract:**

BL CR

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

**R3-237033 (BL CR to 38.455) Support for mobile TRP Location Information**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0101 rev 8 Cat: B (Rel-18)  
  
 Source: Xiaomi, Ericsson, Qualcomm Inc., CATT, Nokia, Nokia Shanghai Bell, ZTE, Huawei*

(Replaces R3-235976)

**Abstract:**

BL CR

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

**R3-237034 (BL CR to 38.473): Support for mobile IAB**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1176 rev 9 Cat: B (Rel-18)  
  
 Source: Ericsson, Xiaomi, Qualcomm, CATT, Nokia, Nokia Shanghai Bell, ZTE, Huawei*

(Replaces R3-235977)

**Abstract:**

BL CR

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

**R3-237035 (BL CR to 38.470) Support of mobile IAB**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0117 rev 3 Cat: B (Rel-18)  
  
 Source: ZTE*

(Replaces R3-235978)

**Abstract:**

BL CR

**Discussion:**

- update rev number

**Decision:** The document was **revised to R3-237835**.

**R3-237835 (BL CR to 38.470) Support of mobile IAB**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0117 rev 4 Cat: B (Rel-18)  
  
 Source: ZTE*

(Replaces R3-237035)

**Abstract:**

BL CR

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

**R3-237277 Updated workplan for Rel-18 mobile IAB**

*Type: Work Plan For: Information  
 Source: Qualcomm Inc. (Rapporteur)*

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

**R3-237801 Offline discussion for mobile IAB**

*Type: discussion For: discussion  
 Source: Qualcomm*

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

### 13.2 Support IAB-node mobility

**R3-237279 Open issues for mobile IAB topology adaptation and authorization**

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

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

**R3-237188 (TP for mIAB BL CR for TS 38.423 and TS 38.401): Remaining Issues Related to Mobile IAB-Node Authorization and Migration**

*Type: other For: Agreement  
 Source: Ericsson*

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

**R3-237430 (TP for Mobile IAB TS38.413 BL CR) Discussion on Support IAB-node mobility with no PDU session**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE*

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

**R3-237200 (TP for Mobile IAB BL CR for TS 38.413) Transfer of mobile IAB authorization state in NGAP DOWNLINK NAS TRANSPORT**

*Type: other For: (not specified)  
 Source: ZTE, Lenovo, Samsung, CATT, Nokia, Nokia Shanghai Bell, Fujitsu*

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

**R3-237183 Discussion on IAB-node mobility**

*Type: discussion For: Discussion  
 Source: CANON Research Centre France*

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

**R3-237199 (TP for Mobile IAB BL CR) Inter-donor migration in mobile IAB scenario**

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

**Decision:** The document was **revised to R3-237979**.

**R3-237979 (TP for mIAB BL CR to TS 38.413) Introduction of mobile IAB supported indication in NG SETUP RESPONSE message**

*Type: other For: Agreement  
 38.413 v..  
 Source: ZTE*

(Replaces R3-237199)

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

**R3-237211 Remaining issues on supporting IAB-node mobility**

*Type: discussion For: Decision  
 Source: Fujitsu*

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

**R3-237278 (TP to TS 38.401) BL ST2 procedures for mobile IAB**

*Type: other For: Approval  
 Source: Qualcomm Inc.*

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

**R3-237355 (TP for NR\_mobile\_IAB BL CRs for TS 38.401/ 38.423) Support of mobility for mobile IAB**

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

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

**R3-237384 (TPs to TS 38.423 and TS 38.401) Support of mobile IAB authorization**

*Type: other For: Approval  
 Source: Xiaomi*

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

**R3-237385 (TPs for TS 38.401, TS 38.423, TS 38.473) Support of mobile IAB-DU Migration**

*Type: other For: Approval  
 Source: Xiaomi*

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

**R3-237411 (TP to TS 38.420 BL CR) Discussion on mobile IAB-MT handover**

*Type: other For: Approval  
 Source: Lenovo*

**Decision:** The document was **revised**.

**R3-237836 BLCR to TS38.420**

*Type: CR For: Approval  
 38.420 v17.2.0 CR-0037 Cat: B (Rel-18)  
  
 Source: Lenovo*

**Abstract:**

BL CR

**Discussion:**

BL CR

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

**R3-237412 (TP to TS 38.473 BL CR) Discussion on mIAB-DU migration**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237431 (TP for Mobile IAB TS38.423 BL CR) Add Mobile IAB Authorized Status IE in the XnAP Retrieve UE Context procedure**

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

**Decision:** The document was **revised to R3-237975**.

**R3-237975 (TP for Mobile IAB TS38.423 BL CR) Add Mobile IAB Authorized Status IE in the XnAP Retrieve UE Context procedure**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237431)

**Decision:** The document was **revised to R3-238016**.

**R3-238016 (TP for Mobile IAB TS38.423 BL CR) Add Mobile IAB Authorized Status IE in the XnAP Retrieve UE Context procedure**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237975)

**Discussion:**

- Remove comments mark

**Decision:** The document was **revised to R3-238046**.

**R3-238046 (TP for Mobile IAB TS38.423 BL CR) Add Mobile IAB Authorized Status IE in the XnAP Retrieve UE Context procedure**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-238016)

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

**R3-237469 Discussion on concurrent MT and DU migrations of mIAB**

*Type: discussion For: Agreement  
 Source: MITRE Corporation*

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

**R3-237601 Discussion on IAB-node mobility**

*Type: discussion For: Agreement  
 Source: Samsung*

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

**R3-237612 (TP to NR\_mobile\_IAB BL CR of TS 38.473) Co-location discovery for mIAB-MT and mIAB-DU and mIAB-DU migration triggered by OAM**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **revised to R3-237987**.

**R3-237987 (TP to NR\_mobile\_IAB BL CR of TS 38.473) Mobile IAB-DU migration triggered by OAM**

*Type: other For: Agreement  
 Source: Huawei*

(Replaces R3-237612)

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

**R3-237615 (TP to mobile IAB BL CR for TS 38.401) Discussion on support of IAB-node mobility**

*Type: other For: Agreement  
 Source: CATT*

**Discussion:**

Late contribution

**Decision:** The document was **not treated**.

**R3-237616 (TP to mobile IAB BL CR for TS 38.423) Consideration on IAB-node authorization**

*Type: other For: Agreement  
 Source: CATT*

**Discussion:**

Late contribution

**Decision:** The document was **not treated**.

Issue 0: Missing Stage-2 procedure and terminology issue

**[Agreement]**

**Capture the mIAB-MT RLF Recovery procedure via RRC Reestablishment in 38.401 section 8.YY.**

**Update the following in all BL CRs, as needed:**

**The Rel-17 term “non-F1-terminating donor” is not applicable to mobile IAB.**

**The term “RRC-terminating donor” should be used instead.**

**The definition for “F1-terminating donor” should not only refer to the Rel-17 boundary node but also to the mIAB-DU’s CU.**

**For TP to 38.420, use R3-237411 as the baseline for corrections regarding the terminology.**

BLCR to TS38.420 in [R3-237836](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237836.zip) (Lenovo) **Endorsed as BL CR**

TP for BLCR to TS38.401 in [R3-237837](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237837.zip) (Huawei)

- Remove changes over changes

Rev in [R3-238044](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-238044.zip) **Agreed unseen**

Issue 1: Sequence of procedures for UE HO and IAB TMM in stage 2 of DU migration

**[Agreement] The sequence of procedures for UE HO and IAB TMM of DU migration is up to implementation. Remove corresponding Editor’s Note in 38.401.**

CATT: It is better to have a baseline sequence of procedures and not leave this to implementation

Qualcomm: Such a sequence is not available because this is up to how the target CU wants to aggregate UE traffic. The latter can be done in a number of legitimate ways.

CATT: how would the donor CU configure the UL

QUALCOMM: same as in Rel17

**[Agreement] Capture in BL CR to 38.401, section 8.YY.3 for DU migration that the source DU’s CU should requests release of traffic offloaded to the MT’s CU via TMM, while it is up to MT´s CU implementation whether to keep backhaul resources.**

Huawei: agree with the principle, but the request release should not be mandatory

ZTE: do not need the “may” because traffic should always be released, while resources do not need to be released.

CATT: the may is not needed

QUALCOMM: Du´s CU needs to tell the MT´s CU that resources are not needed anymore. Hence the may does not apply

MITRE: agree that may does not apply.

Huawei: in XnAP it is clear that the release is optional

Issue 2: WA that BAP address is used to indicate mIAB-node

**[Agreement]**

**Turn the following WA into agreement: “Use the BAP address as the identifier for the MT in the initial TMM message sent by the DU’s CU to the MT’s CU.”**

**Remove Editor’s Note in BL CR to TS 38.473 and TS 38.423 related to this WA.**

TP for BLCR to TS38.473 in [R3-237838](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237838.zip) rev in [R3-238017](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-238017.zip)

- Add Huawei as co-source

Rev in [R3-238045](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-238045.zip) **Agreed unseen**

TP for BLCR to TS38.423 in [R3-237839](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237839.zip) **Agreed**

Issue 3: BAP address in UL F1AP messages

In BL CR to 38473, the 9.3.1.X3 IE with BAP address and gNB-ID of MT’s CU to be included in the F1 Setup Request and to replace the explicit gNB-ID for the MT’s CU. The procedure text to be updated accordingly. The semantics description of the IE to capture that the 9.3.1.X3 IE is used in case the MT’s CU is different from DU’s CU.

ZTE: how to handle the case where BAP address and RRC terminating donor info are included in the F1 Setup request. Suggest to modify the semantics to handle this case.

QUALCOMM: in a proper implementation this should not happen

CATT: do not agree with the use case from ZTE

Huawei: We could simply add some procedure text and avoid adding IE 9.3.1.X3

QUALCOMM: Given that there is no convergence we could keep things as it is.

Nokia: The proposal can cause unnecessary abnormal conditions, so it is not beneficial to add it

ZTE: without agreeing to the proposal we cannot handle the topology discovery issue

**[Agreement] Clarify how to use the existing BAP address and the gNB-ID in the F1 Setup Request and remove editor´s note.**

Issue 4: “Authorized” indication by MT’s CU to DU’s CU

**[Agreement]**

**Agree TP to BL CR for TS 38.413 in** [**R3-237200**](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237200.zip)**: Transfer of mobile IAB authorization state in NGAP DOWNLINK NAS TRANSPORT.**

(\*2024-02-05 correction: This TP is marked as 'noted' to align with meeting report and Tdoc list. It is requested to re-submit a CR to RAN3#123)

**Add mIAB authorization status indicator in mIAB-MT’s Xn Context Retrieve Response message analogue to Xn HO Request message. It needs to be further discussed whether to include the indicator in the IAB Transport Management Response message.**

Nokia: It should be assumed that the mIAB node is authorized, hence there is no need to add the IE to the response message.

Ericsson: if the node is not authorized it cannot even send the F1 Setup Request.

**[Agreement]**

**Use the content of the TP to 38.423 in R3-237431 as a baseline for stage 3 for previous agreement.**

**Capture in BL CR to 38.401, section 8.9.x1 that, after receiving the ‘not authorized’ indication, the F1-terminating CU first sends the IAB TRANSPORT MIGRATION MODIFICATION RESPONSE message to the RRC-terminating CU to confirm the reception of the mIAB-node authorization status indication, and then performs the orderly F1 release.**

**Capture in BL CR to 38.401, section 8.9.X1, the following sequence: After the orderly release of F1, the DU’s CU initiates the IAB TRANSPORT MIGRATION MANAGEMENT Procedure toward the MT’s CU to indicate the release of all traffic. After traffic release, the MT’s CU removes the backhaul support.**

Ericsson: release of the backhaul is consequence of fulfilment of certain conditions.

Huawei, Lenovo: use the sentence without mentioning of F1 release

QUALCOMM: conditional release of the F1 is ok, but it is not essential to add it here.

**WA: MT’s CU sends an NGAP indication to AMF as part of an existing procedure, to indicate that the IAB MT can be deregistered. If possible, capture the WA in the TP to TS38.413.**

Ericsson:  agree to the sentence above

Nokia: No need to introduce a new NGAP procedure

Xiaomi: agree to the proposal. A timer is not a good approach.

CATT: what is the problem if the MT´s CU does not send an indication to the AMF

Ericsson: the problem is that the AMF would not know when to deregister the MT

Huawei: Do not see the need to introduce the indication. SA2 wants to use a timer.

Samsung: The indication is unnecessary as the AMF wil configure a timer.

ZTE: Support the proposal, the timer may work but explicit signalling is beneficial

MITRE: agree with the proposal and with Ericsson. At the same time it is up to the AMF whether to deregister the MT.

Ericsson: there is a long standing principle that F1 release needs to be done in an orderly manner

Lenovo: Agree with the proposal

**[Agreement] Capture in BL CR to 38.401, section 8.9.X1, the following behavior:**

* **In case the authorization status is changed back from “non-authorized” to “authorized”, mIAB-DU integration follows phase 2 and phase 3 of the mIAB node integration procedure, as defined in section 8.12.X for network integration.**

ZTE: Ok with the text. Some rewording needed

CATT: we should clarify what the MT´s CU should do instead of referring to phases.

Ericsson: we should keep the authorized code point in the indication in stage 3 but no need to describe the use case in stage 2

Issue 5: Support for dual connectivity

**[Agreement] With respect to RAN3 work, dual-connectivity for the mobile IAB-MT is not pursued in Rel18.**

AT&T: Does this imply that an IAB MT cannot report its capability for DC?

QUALCOMM: not because a Rel16 and Rel17 IAB MT supports DC it means that a Rel18 supports it. The reason why DC is not supported in Rel18 is that we would have up to 3 or 4 donors supporting the IAB MT, which was not discussed so far.

AT&T: what happens if the DC functionality for Rel16 or Rel17 is supported but not the one for Rel18?

QUALCOMM: this is a discussion for RAN2 and how they will define capabilities

Issue 8: MT migration

Agree to TP to BL CR for 38.413 in R3-237430

Issue 11: Retaining XnAP IDs

**[Agreement]**

**For consecutive partial migration, the F1-terminating donor-CU retains the UE XnAP IDs that it allocated to the mobile IAB-MT as long as the corresponding mobile IAB-DU connects to this CU, and retains the UE XnAP ID allocated for the mIAB-MT by the RRC-terminating CU until it is notified that the mIAB-MT has been handed over to another CU.**

**For consecutive partial migration, the source donor CU of IAB-MT should retain the UE XnAP IDs allocated for the mobile IAB-MT as long as the mobile IAB-MT is connected.**

Capture above two agreements in [R3-237837](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237837.zip), taking [R3-237355](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237355.zip) as baseline.

**R3-237837 TP for BLCR to TS38.401**

*Type: other For: discussion  
 38.401 v..  
 Source: Huawei*

**Decision:** The document was **revised to R3-238044**.

**R3-238044 TP for BLCR to TS38.401**

*Type: other For: discussion  
 38.401 v..  
 Source: Huawei*

(Replaces R3-237837)

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

**R3-237838 TP for BLCR to TS38.473**

*Type: other For: discussion  
 38.473 v..  
 Source: ZTE*

**Decision:** The document was **revised to R3-238017**.

**R3-238017 TP for BLCR to TS38.473**

*Type: other For: discussion  
 38.473 v..  
 Source: ZTE*

(Replaces R3-237838)

**Discussion:**

- Add Huawei as co-source

**Decision:** The document was **revised to R3-238045**.

**R3-238045 (TP for mIAB BL CR to TS 38.473) Usage of BAP address in F1 SETUP REQUEST message**

*Type: other For: discussion  
 38.473 v..  
 Source: ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-238017)

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

**R3-237839 TP for BLCR to TS38.423**

*Type: other For: discussion  
 38.423 v..  
 Source: Samsung*

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

**CB # mIAB1\_mobility**

**R3-237857 CB:SoD**

*Type: other For: discussion  
 Source: Qualcomm*

**Decision:** The document was **revised to R3-238030**.

**R3-238030 SoD CB: # IAB-node\_mobility**

*Type: other For: discussion  
 Source: Qualcomm*

(Replaces R3-237857)

**Decision:** The document was **revised to R3-238035**.

**R3-238035 SoD CB: # IAB-node\_mobility**

*Type: other For: discussion  
 Source: Qualcomm*

(Replaces R3-238030)

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

**R3-238021 (TP for mIAB BL CR for TS 38.413): IAB-node De-registration Handling**

*Type: other For: discussion  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

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

**R3-238031 (TP for NR\_mobile\_IAB BL CR for TS 38.401) Change for CB: # IAB-node\_mobility**

*Type: other For: Agreement  
 38.401 v..  
 Source: Huawei*

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

**[Agreement] *MT’s CU sends an NGAP indication to AMF in the NGAP UE CONTEXT RELEASE REQUEST to indicate that the IAB MT can be deregistered. The indication to be captured via a new cause value.”***

Huawei discovered a problem for OAM-triggered DU migration: The MIAB F1 SETUP OUTCOME NOTIFICATION message needs to include the gNB-ID of the target DU’s CU to that the source DU’s CU can perform UE handover to this target DU’s CU. This is captured in 7a.

**[Agreement] *The MIAB F1 SETUP OUTCOME NOTIFICATION message to include the gNB-ID of the target DU’s CU. Add to TP to BL CR for 38.401 in section on DU migration, step 4, the inclusion of the target F1-terminating CU’s gNB-ID.***

With 7a, the conflicting OAM- and CU-triggers for DU migration can be handled via Option 2 by only adding some stage-2 text, i.e., no new stage-3 needed.

Proposal 7b: Add to TP to BL CR of 38.401 in section on DU migration: “In case the mIAB-node receives a CU-based trigger for DU migration while an OAM-triggered DU migration is ongoing, the CU-based trigger is ignored. In case the mIAB-node receives an OAM-based trigger for DU migration while a CU-triggered DU migration is ongoing, the OAM-based trigger for DU migration is ignored, and the gNB-ID of the target F1-terminating IAB-donor-CU is forwarded to OAM.

**[Agreement] *Add to step 3 in Section 8.YY.1 in TP to BL CR for 38.401 on Migration of mobile IAB-MT via Xn: “In case the migration of the mobile IAB-MT occurs during DU migration, each logical mIAB-DU.***

### 13.3 Mobility Enhancements

**R3-237432 (TP for TS38.423 BL CR) Discussion on IAB configuration and Mobility Enhancements**

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

**Decision:** The document was **revised to R3-237982**.

**R3-237982 (TP for TS38.423 BL CR) Mobile IAB cell indication**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237432)

**Decision:** The document was **revised to R3-238015**.

**R3-238015 (TP for TS38.423 BL CR) Mobile IAB cell indication**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237982)

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

**R3-237189 TAC and RANAC Update for mIAB-nodes**

*Type: discussion For: Agreement  
 Source: Ericsson*

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

**R3-237201 (TP for Mobile IAB BL CR for TS 38.473) Enhancements to IAB node migration in mobile IAB scenario**

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

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

**R3-237356 (TP for NR\_mobile\_IAB BL CR for TS 38.401/38.473): Mobility enhancement for mobile IAB**

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

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

**R3-237413 Mobility enhancements for mobile IAB-node and its served UE**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237602 Discussion on mobility enhancements**

*Type: discussion For: Agreement  
 Source: Samsung*

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

**R3-237617 (TPs to mobile IAB BL CR for TS 38.401/38.473) Enhancements for mobile IAB**

*Type: other For: Agreement  
 Source: CATT*

**Discussion:**

Late contribution

**Decision:** The document was **not treated**.

**R3-237280 Configuration of NCGI and TAC for mIAB**

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

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

RAN3 to decide whether TAC/RANAC of the mIAB-DU’s cell can also be obtained via the following options:

1. Configured via DU’s CU
2. ~~Copied over from MT’s cell~~
3. Configured via MT’s CU (if different that MT’s cell)

Nokia: do not agree to support any of the options above as the current specifications and solution, based on oAM configuration, already works.

Canon: one issue could be that the configuration made by the options above may conflict with the configuration made by OAM

Ericsson: in RAN3-119bis we have agreed on option 2 above. The agreement from RAN3-119bis is however not captured in the current list of agreements.

Nokia: That agreement is not exactly mapping to option 2 above.

In favour of Option 1: CATT, Huawei

In favour of Option 3: ZTE

ZTE: The SA2´s specifications need to be updated because they say that the TAC can be configured via the donor

Nokia: RAN3 delegates can notify their SA2´s colleagues

**CB # mIAB2\_Enh**

* **Discuss whether an LS to SA2 is needed to notify them of RAN3´s agreements with an impact on SA2´s specs**

(moderator - ZTE)

**No CRs are needed for R16 and R17 on below statement:**

**The TAC/RANAC of the IAB-DU’s cell served by IAB-DU need not be same as the TAC/RANAC of the collocated IAB-MT’s serving cell.**

**R3-237908 (TP for NR\_mobile\_IAB BL CR for TS 38.401) TAC/RANAC configuration for mobile IAB**

*Type: other For: Agreement  
 38.401 v..  
 Source: Huawei*

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

**R3-237914 LS on RAN3 agreements on mobile IAB**

*Type: LS out For: Agreement  
 to -  
 Source: ZTE*

**Decision:** The document was **revised to R3-238029**.

**R3-238029 LS on RAN3 agreements on mobile IAB**

*Type: LS out For: Agreement  
 to -  
 Source: ZTE*

(Replaces R3-237914)

**Decision:** The document was **revised to R3-238043**.

**R3-238043 LS on RAN3 agreements on mobile IAB**

*Type: LS out For: Agreement  
 to -  
 Source: ZTE*

(Replaces R3-238029)

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

### 13.4 Mitigation of interference

**R3-237433 Mobile IAB interference mitigation**

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

**Decision:** The document was **not treated**.

**R3-237184 PCI Collision Avoidance with Mobile IAB**

*Type: discussion For: Discussion  
 Source: CANON Research Centre France*

**Decision:** The document was **not treated**.

**R3-237190 PCI Collision Mitigation for Mobile IAB-Nodes**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **not treated**.

**R3-237202 Discussion on PCI collision avoidance for mobile IAB**

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

**Decision:** The document was **not treated**.

**R3-237414 PCI collision mitigation of mobile IAB-node mobility**

*Type: discussion For: Approval  
 Source: Lenovo*

**Decision:** The document was **not treated**.

**R3-237603 Discussion on mitigation of interference**

*Type: discussion For: Agreement  
 Source: Samsung*

**Decision:** The document was **not treated**.

### 13.5 Others

**R3-237357 (TP for NR\_mobile\_IAB BL CR for TS 38.473): Support of RACH-less HO for mobile IAB**

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

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

**R3-237191 Remaining Issues Related to Mobile IAB-node-based Positioning**

*Type: other For: Agreement  
 Source: Ericsson*

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

**R3-237203 Discussion on LS on UE RACH-less handover for mIAB**

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

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

**R3-237281 Discussion on reply LS to RAN2 on RACHless HO for mIAB**

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

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

**R3-237358 [draft] Reply LS to R3-235036/R2-2306817 on UE RACH-less handover for mobile IAB**

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

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

**R3-237386 (Reply LS to RAN2) RACH-less HO in mobile DU migration**

*Type: discussion For: Approval  
 Source: Xiaomi*

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

Issue 13: RACH-less HO

**[Agreement]**

**Send Reply LS to RAN2 on support of RACH-less HO capturing the following as a baseline:**

**RAN3 identified the following issues:**

**(1) During DU migration, UE handovers may not only occur from the source logical DU’s cell but also from other cells to the target logical DU’s cell. RAN3 assumes that RACH-less handover can only be applied to those UEs that are handed over from the source logical DU’s cell. The target logical DU therefore needs to be able to derive from the information it receives during UE handover preparation, whether the UE is presently connected to the source logical DU.**

**(2) When the target logical DU configures the UE’s beam to be used in the target cell for RACH-less handover based on network-implementation-specific knowledge, it needs to identify the beam configuration this UE presently uses in the source logical DU’s cell. For this purpose, it needs to able to derive from the information it receives during UE handover preparation an identifier the UE uses in the source logical DU’s cell.**

**(3) When the target logical DU configures the UE’s beam to be used in the target cell for RACH-less handover based on legacy measurements, it needs to able to obtain the beam information the UE reported to the source logical DU’s CU in the measurement report.**

**RAN3 kindly asks RAN2 to verify that the above issues can be addressed based on the existing information contained in the RRC HandoverPreparationInformation that is passed during handover preparation to the target logical DU.**

The final text for the Reply LS may be subject to revisions.

**CB # mIAB3-Others**

* **Reply LS to RAN2 in** [**R3-237856**](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237856.zip) **(Qualcomm)**
* **Take the above agreed text as baseline**

(moderator - QUALCOMM)

**R3-237856 [Draft] Reply LS on UE RACH-less handover for mobile IAB**

*Type: LS out For: discussion  
 to RAN2  
 Source: Qualcomm*

**Discussion:**

- update: RAN3 asks RAN2 to take the above feedback into account, and to consider whether the existing RRC container (i.e., HandoverPreparationInformation) contains sufficient information to address the above issues and provide feedback if any.

- change to final LS format

**Decision:** The document was **revised to R3-238048**.

**R3-238048 Reply LS on UE RACH-less handover for mobile IAB**

*Type: LS out For: discussion  
 to RAN2  
 Source: RAN3(Qualcomm)*

(Replaces R3-237856)

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

## 14 Further NR mobility enhancements WI

WID [NR\_Mob\_enh2-Core]: [RP-231475](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231475.zip) (target: RAN #102) [TU: 1 (**1**)]

**The R18 NR Mobility enhancments WI is completed in RAN3.**

### 14.1 General

**R3-237036 (BL CR to 37.340) Introduction of CHO with SCG(s)**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: CATT*

(Replaces R3-235763)

**Abstract:**

BL CR

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

**R3-237037 (BLCR to 38.401) for L1L2Mob**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0260 rev 15 Cat: B (Rel-18)  
  
 Source: Huawei, Ericsson, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-235968)

**Abstract:**

BL CR

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

**R3-237038 (BL CR to 38.423) Introduction of CHO with SCG(s)**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1090 rev 3 Cat: B (Rel-18)  
  
 Source: Lenovo, Ericsson, Huawei, Nokia, Nokia Shanghai Bell*

(Replaces R3-235969)

**Abstract:**

BL CR

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

**R3-237039 (BL CR to TS 38.423) Introduction of Subsequent CPAC**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1051 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, ZTE*

(Replaces R3-235970)

**Abstract:**

BL CR

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

**R3-237040 (BLCR to 38.473) Additions for L1/L2 triggered mobility**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1037 rev 12 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell, Intel Corporation, ZTE*

(Replaces R3-235971)

**Abstract:**

BL CR

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

**R3-237041 (BL CR to 38.473) On Subsequent CPAC**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1227 rev 1 Cat: B (Rel-18)  
  
 Source: Lenovo*

(Replaces R3-235972)

**Abstract:**

BL CR

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

**R3-237042 (BL CR to 37.340) Introduction of subsequent CPAC**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: ZTE, China Telecom, Huawei, China Unicom, LG Electronics, Samsung, Ericsson*

(Replaces R3-235973)

**Abstract:**

BL CR

**Discussion:**

- update meeting infor

**Decision:** The document was **revised to R3-237813**.

**R3-237813 (BL CR to 37.340) Introduction of subsequent CPAC**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: ZTE, China Telecom, Huawei, China Unicom, LG Electronics, Samsung, Ericsson*

(Replaces R3-237042)

**Abstract:**

BL CR

**Discussion:**

- Add QUALCOMM as co-source

**Decision:** The document was **revised to R3-238001**.

**R3-238001 (BL CR to 37.340) Introduction of subsequent CPAC**

*Type: draftCR For: Agreement  
 37.340 v17.6.0  
 Source: ZTE, China Telecom, Huawei, China Unicom, LG Electronics, Samsung, Ericsson, Qualcomm*

(Replaces R3-237813)

**Abstract:**

BL CR

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

### 14.2 Signaling Support for L1/L2 based Inter-Cell Mobility

**R3-237140 LS on CSI resource configuration and on early RACH for LTM**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311332, to RAN3, cc -  
 Source: RAN2(Huawei)*

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

**R3-237147 Reply LS on beam application time for LTM**

*Type: LS in For: Discussion  
 Original outgoing LS: R4-2317331, to RAN1, RAN2, cc RAN3  
 Source: RAN4(Ericsson)*

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

**R3-237621 TP for LTM BL CR to TS 38.470**

*Type: other For: (not specified)  
 Source: ZTE, Huawei, CMCC, China Telecom, China Unicom, CATT*

**Decision:** The document was **revised to R3-237981**.

**R3-237981 TP for LTM BL CR to TS 38.470**

*Type: other For: -  
 Source: ZTE, Huawei, CMCC, China Telecom, China Unicom, CATT*

(Replaces R3-237621)

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

**R3-237163 TP (BL CR TS 38.401) LTM RS Configuration and Signaling**

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

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

**R3-237164 TP (BL CR TS 38.473) On remaining Stage 3 issues for L1/2 Triggered Mobility (LTM)**

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

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

**R3-237208 (TP for L1L2Mob BLCR for TS 38.401): Discussion on LTM procedures**

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

**Decision:** The document was **revised to R3-238018**.

**R3-238018 (TP for L1L2Mob BLCR for TS 38.401): LTM procedure update**

*Type: other For: -  
 Source: Huawei*

(Replaces R3-237208)

**Discussion:**

- Clean-up: UL CELL CHANGE NOTIFICATION message->DU-CU CELL SWITCH NOTIFICATION message, DL CELL CHANGE NOTIFICATION message->CU-DU CELL SWITCH NOTIFICATION message

- Clean-up:CSI configuration->CSI report configuration

**Decision:** The document was **revised to R3-238059**.

**R3-238059 (TP for L1L2Mob BLCR for TS 38.401): LTM procedure update**

*Type: other For: Agreement  
 Source: Huawei*

(Replaces R3-238018)

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

**R3-237316 (TP for LTM BL CR to TS 38.401) Solutions for LTM**

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

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

**R3-237620 (TP for LTM BL CR to TS 38.401/38.423/38.473) Discussion on L1L2 triggered mobility**

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

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

**R3-237415 Discussion on L1L2 based inter-cell mobility**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237182 (TP to Mob\_enh2 BL CR TS38.401&TS38.473) Discussion on L1/L2 based Inter-cell Mobility**

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

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

**R3-237286 Signalling Support for LTM**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated*

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

**R3-237170 (TP to BLCR for TS 38.423) Left issues remaining in LTM**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **revised to R3-238005**.

**R3-238005 (TP to BLCR for TS 38.423) Left issues remaining in LTM**

*Type: other For: Agreement  
 Source: CATT, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, CMCC, LG Electronics*

(Replaces R3-237170)

**Discussion:**

- update: The release is due to that LTM is triggered in M-NG-RAN node and cannot be rejected.

- Add NEC as co-source

- Change to BL CR format

**Decision:** The document was **revised to R3-238060**.

**R3-238060 (TP to BLCR for TS 38.423) Left issues remaining in LTM**

*Type: other For: Agreement  
 Source: CATT, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, CMCC, LG Electronics, Huawei, NEC*

(Replaces R3-238005)

**Abstract:**

BL CR

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

**R3-237171 TP to BLCR for TS 38.473 on LTM**

*Type: other For: Agreement  
 Source: CATT*

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

**R3-237234 (TP to TS38.473 on LTM) Rel-18 LTM Configuration ID, RS Configuration and other**

*Type: other For: Agreement  
 Source: NEC*

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

**R3-237645 Almost complete discussions on LTM (TPs for TS 38.473 and TS 38.401)**

*Type: discussion For: Decision  
 Source: LG Electronics Inc.*

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

**R3-237675 Discussion on L1L2 based Inter-Cell Mobility**

*Type: discussion For: Discussion  
 Source: CMCC*

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

**R3-237284 Further discussion on LTM**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC..*

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

**R3-237209 (TP for L1L2Mob BLCR for TS 38.473): LTM procedure design**

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

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

**R3-237212 Remaining issues on TA management for LTM**

*Type: discussion For: Decision  
 Source: Fujitsu*

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

**R3-237466 (TP for L1L2Mob BLCR for TS 38.473) Reference configuration and Target Configuration ID in LTM**

*Type: other For: Agreement  
 Source: Google Inc.*

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

**R3-237235 (TP to TS38.401 on LTM) Updating the serving gNB-DU of other candidate Cell(s) in other candidate gNB-DU(s)**

*Type: other For: Agreement  
 Source: NEC*

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

**R3-237236 One or two procedures, consider general Class 2 procedure for information transfer in F1AP**

*Type: discussion For: Decision  
 Source: NEC*

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

**R3-237317 (TP for LTM BL CR to TS 38.473) Solutions for LTM**

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

**Decision:** The document was **revised to R3-237980**.

**R3-237980 (TP for LTM BL CR to TS 38.473) Solutions for LTM**

*Type: other For: Agreement  
 Source: Ericsson*

(Replaces R3-237317)

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

**R3-237416 (TPs to BLCR for TS 38.401 & TS 38.470) Support of L1/L2 based inter-cell mobility**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237467 (TP for L1L2Mob BLCR for TS 38.401) Resolving FFS in LTM execution**

*Type: other For: Agreement  
 Source: Google Inc.*

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

**R3-237468 (TP for L1L2Mob BL CR for TS 38.473) UE Context identification after successful cell switch**

*Type: other For: Agreement  
 Source: Google Inc.*

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

**Add an additional UE Context Modification procedure to the intra-gNB-DU LTM mobility scenario to correctly depict the LTM procedure and signaling of RS Configuration, CSI resource configuration, and CSI report configuration.**

ERICSSON: UE Context Modification procedure

**[Agreement]**

**Update the signaling diagrams to capture signaling of the RRCReconfigurationComplete message when the UE has accessed the target cell in BL CR of TS 38.401.**

**Agree that the gNB-CU utilizes parallel messages to signal the LTM CSI Resource Configuration to the candidate NB-DU, and remove the FFS stating “FFS on step 7 and 8 on whether should be parallel or single.”**

**LTM Configuration ID**

**[Agreement] Introduce a LTM Configuration ID for mapping to cell ID of as part of the LTM preparation toward the Source gNB-DU in UE CONTEXT MODIFICATION REQUEST message.**

NEC: it is a list of mapping to one cell ID to one LTM Configuration ID.

**[Agreement] Introduce a LTM Configuration ID for mapping to cell ID of as part of the LTM preparation toward the candidate gNB-DU in UE CONTEXT SETUP/MODIFICATION REQUEST message.**

NEC: For the intra-DU case, one is a list or one cell.

CATT: For this case, both UE CONTEXT SETUP REQUEST and MODIFICATION REQUEST for update toward the candidate gNB-DU can be reused.

**To be continued...**

Lenovo: clarify mapping

ZTE: same view with Nokia. DU should know which cell to transfer.

CATT: subsequent LTM also need to C-DU with LTM Configuration ID.

Google: agree with above. For intra-DU LTM and early TA cases.

ERICSSON: how the DU knows association over F1. Concerns on subsequent LTM case.

NEC: support to LTM configuration ID.

Introduce two new class 2 procedures with different name (i.e. Option 1) to signal the selected beam. One from Source gNB-DU to gNB-CU (LTM CELL CHANGE NOTIFICATION message), and another from gNB-CU to Candidate gNB-DU (LTM BEAM INFO NOTIFICATION message)

**Selected beam transfer**

Option 1: Two new class 2 procedures with different name.

Option 2: same new class 2 procedure (LTM cell switch notification)

Option1: NEC, Nokia, Samsung, Google, CATT, CMCC (6)

Option2: ZTE, LGE, ERICSSON, HUAWEI, DCM, Lenovo, Qualcomm (7)

Both option1 and option2 can be feasible for selected beam transfer.

**[Agreement] Common name e.g. LTM cell switch notification with different directions of UL and DL. Details to be check offline.**

TA acquisition

1) one or two messages.

2) Dedicated message name for dedicated purpose or Generic message name

3) Whether and when the source DU forwards the valid TA values to target DU via CU for subsequent LTM

**[Agreement]**

**Common name e.g. TA information transfer btw CU and DU with different directions of UL and DL. Details to be check offline.**

**CU decides which SSB(s) to the candidate cell(s) in CSI Resource Configuration.**

**Step 7 and 8 are conditional (may be sent btw CU and candidate DU(s)).**

**New agreements: Use F1 Setup/gNB Configuration Update procedure to retrieve RS configuration before step 2.**

**No partial admission considering the procedure is triggered per cell.**

**CB # MobilityEnh1\_LTM**

**R3-237819 CB:#Mobility\_LTM**

*Type: other For: discussion  
 Source: Huawei*

**Discussion:**

- update stage 2 according to the agreements.

- check stage 3 details.

- focus on the basic functionalities, no need to discuss on optimization.

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

Selected beam transfer

**[Agreement] Message name: UL Cell Switch Notification/DL Cell Switch Notification**

TA acquisition

**[Agreement] Message name: DU-CU TA Information Transfer/CU-DU TA Information Transfer**

SCG release

**[Agreement] Add a new cause value “LTM Triggered” for S-NODE RELEASE REQUEST message, and SN cannot reject the release request in this case.**

### 14.3 Support CHO in NR-DC

**R3-237307 (TP for CHO with NR-DC to TS 38.423): Conditional configuration cancel**

*Type: other For: (not specified)  
 Source: ZTE, Nokia, Nokia Shanghai Bell, LG Electronics, Huawei, Ericsson, Lenovo*

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

**R3-237185 [TPs to TS38423, TS37483 and TS37340, CHO with MRDC] Completion of the discussions on enhancements for CHO with MR-DC**

*Type: other For: Endorsement  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237308 (TP for CHO with NR-DC to TS 38.423, TS37.340): Left issue on CHO with multiple SCG**

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

**Decision:** The document was **revised to R3-237978**.

**R3-237978 (TP for CHO with NR-DC to 37.340): Left issue on CHO with multiple SCG**

*Type: other For: Agreement  
 Source: ZTE*

(Replaces R3-237308)

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

**R3-237318 (TP to TS 38.423 BL CR) CHO with candidate SCG(s)**

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

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

**R3-237309 (TP for CHO with NR-DC to TS 38.423, TS 37.340): Avoid Multiple Data forwarding Path**

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

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

**R3-237642 (TP to BLCR TS38.423) Considerations on direct data forwarding**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-237946**.

**R3-237946 (TP to BLCR TS38.423) Considerations on direct data forwarding**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-237642)

**Decision:** The document was **revised to R3-238020**.

**R3-238020 (TP to BLCR TS38.423) Considerations on direct data forwarding**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-237946)

**Decision:** The document was **revised to R3-238047**.

**R3-238047 (TP to BLCR TS38.423) Considerations on direct data forwarding**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-238020)

**Discussion:**

- Indicates direct forwarding path is available between the T- NG-RAN node and source S-NG-RAN node for the PDU session. In 9.2.1.16

**Decision:** The document was **revised to R3-238049**.

**R3-238049 (TP to BLCR TS38.423) Considerations on direct data forwarding**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-238047)

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

**R3-237417 (TP to BLCR for TS 38.423) CHO in NR-DC**

*Type: other For: Approval  
 Source: Lenovo*

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

**R3-237213 (TPs to CHO with SCG BL CRs of TS 37.340 and TS 38.423) support of CHO with SCGs**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **revised to R3-237954**.

**R3-237954 (TP to CHO with SCG BL CR of TS 37.340) Direct Data Forwarding**

*Type: other For: Agreement  
 Source: Huawei*

(Replaces R3-237213)

**Discussion:**

- Add LGE as co-source

**Decision:** The document was **revised to R3-238050**.

**R3-238050 (TP to CHO with SCG BL CR of TS 37.340) Direct Data Forwarding**

*Type: other For: Agreement  
 Source: Huawei, LGE*

(Replaces R3-237954)

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

**R3-237287 CHO with multiple candidate SCGs**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated*

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

**R3-237647 Almost complete discussions on CHO with SCGs (TP for TS 38.423)**

*Type: discussion For: Decision  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to R3-237988**.

**R3-237988 (TP for BL CR for TS 38.423) CHO with SCGs**

*Type: discussion For: Decision  
 Source: LG Electronics, Huawei*

(Replaces R3-237647)

**Discussion:**

- Keep: in e.g.NR-DC to NR-DC conditional handover.

**Decision:** The document was **revised to R3-238051**.

**R3-238051 (TP for BL CR for TS 38.423) CHO with SCGs**

*Type: other For: Decision  
 Source: LG Electronics, Huawei, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Samsung, ZTE, Cybercore*

(Replaces R3-237988)

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

**R3-237596 TP to BLCR for 38.423 on CHO with multiple SCGs**

*Type: other For: (not specified)  
 38.423 v..  
 Source: CATT*

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

**R3-237643 (TP to BLCR TS38.423 and TS37.340) Considerations on CHO in NR-DC**

*Type: other For: Approval  
 Source: Samsung*

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

**R3-237646 Complete discussions for the avoidance of multiple data forwarding paths (TP for TS 38.423)**

*Type: discussion For: Decision  
 Source: LG Electronics Inc.*

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

The stage-2 description is amended to remove the unclear “if available”.

**[Agreement] The “FFS” is removed from the new flag indicating that the existing IEs are to be ignored.**

**Details to be checked offline.**

The flag is combined with the “Multiple Target S-NG-RAN Node List” IE (now mandatory) into a new optional block.

The usage of the new flag should be defined in the procedural text. Other descriptions may be edited for better readability.

Once RAN2 confirms the problem with the frequencies to configure for CHO with CPAC, RAN3 shall be ready to provide a solution.

**[Agreement] Data forwarding Path and direct forwarding path availability are designed for simple solution.**

For the one indicator case, it can not apply for all solutions.

**The information the source MN needs to know via Handover Request ACK: the direct path availability of S-SN<-> target node per PDU session level.**

1. **Per PDU session level vs. DRB level for direct Data forwarding Path**

ZTE: agree with proposal.

**Introduce a new IE within XnAP: Handover request message, to indicate each PDU session to be setup is original either MN terminated or SN terminated at source side.**

LG: concerns on Samsung’s proposal for PDU session.

**Enhance IE” Data Forwarding Info from target NG-RAN node”, to indicate the direct data forwarding is used for either DRB lever or PDU session lever.**

Two options to indicate the direct path availability between T-SN and S-MN in SN Addition Request ACK message.

- Option1: Introduce a new IE

- Option2: Introduce new codepoint for the current IE.

Change the agreement into “Introduce a new IE in SN Additional Request ACK to indicate to the target MN about the direct path availability between target SN and source MN.”

**Introduce new IE in XnAP: SN Additional Request ACK to inform T-MN about the direct path availability between S-MN and T-SN, remove the related FFS and Editor’s Note.**

**Update the “in e.g. NR-DC to NR-DC conditional handover” to “in e.g. NR-DC to NR-DC (conditional) handover” in Semantics description of the existing Source NG-RAN Node ID IE in the S-NODE ADDITION REQUEST message and the Direct Forwarding Path Availability IE in the S-NODE ADDITION REQUEST.**

**Introduce new IE in XnAP: Handover Request ACK to inform the S-MN about the direct path availability between S-SN and each T-SN.**

**In case the direct path between S-SN and T-SN is not available, the S-MN needs to know the “Direct Forwarding Path Availability between S-SN and T-MN” to determine whether to forward or assign data forwarding address.**

**in case the direct path between S-SN and T-SN is available but direct path between S-SN and T-MN is not available), the T-MN shall not change the source SN terminated bearer to target MN terminated bearer**

**The T-SN-CU-UP can make decision on the same tunnel assignment and therefore no need to invove the gNB-CU-UP multiple times.**

Identification of parallel CPAC procedure

Proposal 2: Support solution 1 (parallel SN addition requests are identified by the different XnAP UE ID pairs between T-MN and T-SN) and solution 2 (parallel SN addition requests are identified by the different candidate PCell ID with the same XnAP UE ID pair between T-MN and T-SN).

RRC Containers related to CHO wich candidate SCGs

**Define the Execution Condition Information IE to include sub IEs as as listed by RAN2 agreement.**

and add a magic text in the the semantics: "This IE may be refined", and remove the FFSs.

**CB # MobilityEnh2\_CHO**

**R3-237822 CB:#MobilityEnh2\_CHO**

*Type: other For: discussion  
 Source: Samsung*

**Discussion:**

- data forwarding Path and direct forwarding path availability are designed for simple solution.

- check other issue aligned with RAN2 agreement and other issues.

- update stage-2 and discuss on the stage-3 TPs.

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

### 14.4 Others

**R3-237139 LS on RAN2 progress on subsequent CPAC**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311331, to RAN3, cc -  
 Source: RAN2(ZTE)*

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

**R3-237168 Reply LS on security for selective SCG activation**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311618, to SA3, cc RAN3  
 Source: RAN2(Nokia)*

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

**R3-237736 Response to R3-237168 and solutions under discussion**

*Type: response For: Decision  
 Source: LG Electronics Inc.*

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

**R3-237737 Reply LS on Security Solution for Selective SCG**

*Type: LS in For: Discussion  
 Original outgoing LS: S3-235051, to RAN2, cc RAN3  
 Source: SA3(Nokia)*

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

**R3-237319 (TP to TS 38.423 BL CR) Support of Subsequent CPAC**

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

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

**R3-237622 (TP to TS 38.423 and 37.340) Discussion on support of subsequent CPAC**

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

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

**R3-237623 [DRAFT] Reply LS on subsequent CPAC**

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

**Decision:** The document was **revised to R3-237913**.

**R3-237913 Reply LS on subsequent CPAC**

*Type: LS out For: -  
 to RAN2  
 Source: RAN3(ZTE)*

(Replaces R3-237623)

**Discussion:**

- Regarding MN format and SN format, RAN3 also discussed the inter-node coordination to ensure that the S-CPAC configurations for all CPC candidate cells for one UE are provided in only one format, and concluded that it would be up to OAM configuration to ensure the appropriate format is used in Rel-18.

**Decision:** The document was **revised to R3-237949**.

**R3-237949 Reply LS on subsequent CPAC**

*Type: LS out For: -  
 to RAN2  
 Source: RAN3(ZTE)*

(Replaces R3-237913)

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

**R3-237288 Subsequent CPAC in NR-DC**

*Type: discussion For: Decision  
 Source: Qualcomm Incorporated*

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

**R3-237186 [TP to BL CR to TS 38.423, S-CPAC] Complete RAN3 part of the S-CPAC solution**

*Type: other For: Discussion  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-235161)

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

**R3-237214 (TP to S-CPAC TS 38.423 BL CR) support of subsequent CPAC**

*Type: other For: Agreement  
 Source: Huawei*

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

**R3-237418 Left issues on Subsequent CPAC**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237644 (TP to BLCR TS38.401 and TS38.423) Discussion on subsequent CPAC**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-238022**.

**R3-238022 (TP to BLCR TS38.401) Subsequent CPAC**

*Type: other For: Approval  
 Source: Samsung*

(Replaces R3-237644)

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

**R3-237648 Almost complete discussions on subsequent CPAC (TP for TS 38.423)**

*Type: discussion For: Decision  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to R3-237989**.

**R3-237989 (TP for BL CR for TS 38.423) S-CPAC**

*Type: discussion For: Decision  
 Source: LG Electronics, Lenovo, Nokia, Nokia Shanghai Bell*

(Replaces R3-237648)

**Discussion:**

-Move the semantic description on of the newly added IE: If included, the Candidate PSCell List IE is ignored. To Candidate PSCell List

- update: 0..1 as range of Candidate PSCell with Other Information List IE

- Modify the IE name as :Complete Configuration Indicator and cleanup the tabular

**Decision:** The document was **revised to R3-238053**.

**R3-238053 (TP for BL CR for TS 38.423) S-CPAC**

*Type: other For: Decision  
 Source: LG Electronics, Lenovo, Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Google, NEC, Huawei, Qualcomm Incorporated, Cybercore*

(Replaces R3-237989)

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

**R3-237285 Security issue on S-CPAC**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO INC..*

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

**R3-237237 (TP to TS 38.423 on S-CPAC) S-CPAC related handling of S-SN and Data Forwarding related**

*Type: other For: Agreement  
 Source: NEC*

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

**R3-237597 TP to BLCR for 37.483 on subsequent CPAC**

*Type: other For: (not specified)  
 37.483 v..  
 Source: CATT*

**Decision:** The document was **revised to R3-237984**.

**R3-237984 TP to BLCR for 37.483 on subsequent CPAC**

*Type: other For: -  
 37.483 v..  
 Source: CATT*

(Replaces R3-237597)

**Discussion:**

- Add Nokia, SAMSUNG, ZTE as co-source

**Decision:** The document was **revised to R3-238054**.

**R3-238054 TP to BLCR for 37.483 on subsequent CPAC**

*Type: other For: -  
 37.483 v..  
 Source: CATT, ZTE,Huawei, NEC, LG Electronics, Ericsson, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-237984)

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

**R3-237566 Discussion on subsequent CPAC procedures**

*Type: discussion For: Decision  
 Source: China Telecommunication*

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

**R3-237567 (TP to BL CR of TS 37.483) On support of subsequent CPAC**

*Type: other For: Agreement  
 Source: China Telecommunication*

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

**R3-237665 Discussion on remaining issues for subsequent CPAC**

*Type: discussion For: Discussion  
 Source: CMCC*

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

**1. SN format or MN format**

The coordination btw SN and MN and leave for RAN3 decision.

**[Agreement] Only use MN format for co-existence between intra-SN and inter-SN S-CPAC.**

**The coordination of the usage of MN format or SN format is based on OAM-configuration/signalling in case of the deployment of S-CPAC for intra-SN and inter-SN cases.**

**RAN3 agrees to support the coexistence of subsequent CPAC and legacy CPAC.**

CATT: How to handle the UE configuration to support the coexistence of subsequent CPAC and legacy CPAC.

Clarification on the coordination case.

**CB # MobilityEnh3\_Other**

**R3-237824 CB:#MobilityEnh3\_Other**

*Type: other For: discussion  
 Source: Lenovo*

**Discussion:**

- check all the offline agreements

- work on the stage-2 and stage-3 TPs for the whole solution.

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

**R3-237994 [TP to BL CR to TS 37.340, S-CPAC] Complete RAN3 part of the S-CPAC solution**

*Type: other For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Ericsson*

**Discussion:**

- Add SAMSUNG, ERICSSON as co-source

**Decision:** The document was **revised to R3-238052**.

**R3-238052 [TP to BL CR to TS 37.340, S-CPAC] Complete RAN3 part of the S-CPAC solution**

*Type: other For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Samsung, Ericsson*

(Replaces R3-237994)

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

## 15 Enhancements of NR Multicast and Broadcast Services WI

WID [NR\_MBS\_enh-Core]: [RP-231829](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-231829.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**The R18 NR MBS WI is completed in RAN3.**

### 15.1 General

**R3-237043 (BL CR to TS 38.423) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1068 rev 4 Cat: B (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm, Huawei, CATT, Samsung*

(Replaces R3-235061)

**Abstract:**

BL CR

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

**R3-237044 (BL CR to 38.410) Update of MBS RAN sharing solution**

*Type: CR For: Agreement  
 38.410 v17.1.0 CR-0045 rev 2 Cat: B (Rel-18)  
  
 Source: Qualcomm Inc, Nokia, Nokia Shanghai Bell, ZTE, Ericsson, CATT, Huawei*

(Replaces R3-235117)

**Abstract:**

BL CR

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

**R3-237045 (BL CR to 37.483) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0077 rev 3 Cat: B (Rel-18)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, Qualcomm Inc., CATT, Huawei, Ericsson, CMCC, Samsung*

(Replaces R3-235962)

**Abstract:**

BL CR

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

**R3-237046 (BL CR to TS 38.300) Introduction of NR MBS enhancements**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE, Ericsson, Lenovo, Qualcomm Incorporated, CATT, Samsung*

(Replaces R3-235963)

**Abstract:**

BL CR

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

**R3-237047 (BL CR to 38.401) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0281 rev 9 Cat: B (Rel-18)  
  
 Source: Huawei, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Ericsson, Lenovo, ZTE, CATT, Samsung*

(Replaces R3-235964)

**Abstract:**

BL CR

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

**R3-237048 (BL CR to TS 38.413) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1007 rev 6 Cat: B (Rel-18)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm, Huawei, Samsung, Ericsson, CMCC, CBN*

(Replaces R3-235965)

**Abstract:**

BL CR

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

**R3-237049 BLCR to 38.470) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0111 rev 6 Cat: B (Rel-18)  
  
 Source: Lenovo, Huawei, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-235966)

**Abstract:**

BL CR

**Discussion:**

- Use the correct CR template

**Decision:** The document was **revised to R3-237915**.

**R3-237915 BLCR to 38.470) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0111 rev 7 Cat: B (Rel-18)  
  
 Source: Lenovo, Huawei, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-237049)

**Abstract:**

BL CR

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

**R3-237050 (BL CR to TS 38.473) Introduction of NR MBS enhancements**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1189 rev 6 Cat: B (Rel-18)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm Incorporated, Huawei, CATT*

(Replaces R3-235967)

**Abstract:**

BL CR

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

**R3-237895 Summary of Rel-18 MBS offline discussion**

*Type: discussion For: discussion  
 Source: CATT*

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

### 15.2 Support for MBS reception in RAN sharing scenarios

**R3-237161 Leftover issues on network sharing for MBS Broadcast**

*Type: discussion For: Agreement  
 Source: ZTE*

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

**R3-237215 (TPs to MBS BL CRs of TS 38.401, 38.413, 38.470, 38.473, 37.483) MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 Source: Huawei, CBN*

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

**R3-237264 Support of MBS in RAN sharing scenarios**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-235278)

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

**R3-237272 (TP for TS 38.413, TS 38.473, TS 38.470) Resolution of RAN sharing open points**

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

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

**R3-237396 Finalising Support for MBS Reception in RAN Sharing Scenarios**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Ericsson*

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

**R3-237557 (TP for BLCRs)Discussion on efficient MBS reception in RAN sharing scenario**

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

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

**R3-237334 (TP to BL CR for 37.483, 38.473) Introducing MBS RAN sharing**

*Type: other For: Approval  
 Source: Samsung*

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

**[Agreement] For MOCN, CU-CP does not initiate Bearer Context Setup procedure towards CU-UP in case CU-CP decides to not establish NG-U tunnel for one MBS session. No stage3 impact is identified so far.**

ERICSSON: Discuss how to implement those agreements to spec, there is no stage3 impact on E1

ZTE: Stage2 text is needed

**[Agreement] For multiple Cell-ID, introduce a class 2 DU initiated Transport Resource establishment procedure in F1AP which triggers the class 1 Broadcast Context Modification procedure from CU to establish F1-U.**

ERICSSON: There is no stage3 impact on whether to limit the usage of this new introduced procedure

HUAWEI: There is CR in the draft folder

**[Agreement]**

***MBS service area* IE only applied to location dependent service in 37.483.**

**Remove FFS in 38.401 on whether there is one to one mapping between one set of F1-U tunnels and one NG-U tunnel with the understanding that the standard shall consider the general case where F1-U tunnels can only be setup with a corresponding NG-U tunnel being established for the same PLMN/5GC.**

**Define *Associated Session ID* IE as Octet String and refer to *Associated SessionId* IE in TS 29.571.**

ERICSSON: Comment on stage3 details

SAMSUNG: Whether we need the size for this IE? A: No size.

**[Agreement] Remove *Shared NG-U Not Established* IE in NGAP.**

**CB # MBS1\_NetworkSharing**

**- Work on TPs**

(moderator - CATT)

**R3-237861 (TP to MBS BL CRs for TS 38.300) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 38.300 v..  
 Source: Qualcomm*

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

**R3-237863 (TP to MBS BL CRs for TS 38.401) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 38.401 v..  
 Source: ZTE*

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

**R3-237864 (TP to MBS BL CRs for TS 38.413) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 38.413 v..  
 Source: Nokia*

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

**R3-237865 (TP to MBS BL CRs for TS 38.470) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 38.470 v..  
 Source: Lenovo*

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

**R3-237866 (TP to MBS BL CRs for TS 38.473) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 38.473 v..  
 Source: Huawei*

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

**R3-237867 (TP to MBS BL CRs for TS 37.483) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 37.483 v..  
 Source: Samsung*

**Discussion:**

- AssociatedSessionId IE-> AssociatedSessionId IE and use the same tyle for OCTET STRING

**Decision:** The document was **revised to R3-238014**.

**R3-238014 (TP to MBS BL CRs for TS 37.483) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 37.483 v..  
 Source: Samsung*

(Replaces R3-237867)

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

**R3-237870 (TP to MBS BL CRs for TS 38.423) Support of MBS reception in RAN sharing scenario**

*Type: other For: Agreement  
 38.423 v..  
 Source: CMCC*

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

**R3-237985 (TP to MBS BL CRs for TS 38.401) Introduction of general description on RAN sharing for MBS**

*Type: other For: Agreement  
 Source: CMCC*

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

### 15.3 Support for RRC\_INACTIVE state

**R3-237152 LS on Providing MBS assistance information from SMF towards NG-RAN node during Xn handover**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-2311680, to RAN3, cc -  
 Source: SA2(Nokia)*

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

**R3-237216 (TPs to MBS BL CRs of TS 38.300, 38.413, 38.473, 38.470) Multicast Reception for RRC\_INACTIVE state UEs**

*Type: other For: Agreement  
 Source: Huawei, CBN*

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

**R3-237558 (TP for BLCRs)Discussion on Multicast over Inactive**

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

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

**R3-237162 (TPs to BLCRs) Flowchart for multicast RRC\_INACTIVE reception**

*Type: other For: Agreement  
 Source: ZTE*

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

**R3-237263 Enhancements to support Multicast reception by UEs in RRC\_INACTIVE state**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-235279)

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

**R3-237273 (TP for TS 38.423, TS 38.300, TS 38.473) Resolution of open points for RRC Inactive mode reception**

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

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

**R3-237274 Reply LS on providing MBS assistance information from SMF towards NG-RAN node during Xn handover**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237335 (TP for BL CR for TS 38.473) Introducing MBS reception by inactive state UE**

*Type: other For: Approval  
 Source: Samsung*

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

**R3-237397 Finalising Support for RRC\_INACTIVE state**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Ericsson*

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

**R3-237419 Discussion on multicast reception in RRC\_INACTIVE**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**[Agreement]**

**To introduce SIBx in the gNB-DU System Information IE.**

**Introduce a new F1AP procedure to deliver IEs including *MBS-NeighbourCellList* IE , *thresholdMBS-List* IE, *RRC Multicast MTCH Neighbour Cell Information* IE and *ThresholdIndex* IE.**

**Explicit indication is introduced as per cell per session level to indicate the multicast RRC Inactive reception mode activation/deactivation.**

ERICSSON: This is for F1? Whether it is dependent of session start? The understanding is not.

Lenovo: Cell level or session level? CATT: Per cell per session, RRC Inactive reception action/deactivation

Nokia: Same understanding with ERICSSON

ZTE: There could be some combination

HUAWEI: It’s implementation on whether it is dependent of session start

CATT: Do not need to link two IEs together

**[Agreement]**

**Explicit indication is introduced to indicate stop of broadcasting *RRC Multicast MTCH Neighbour Cell Information* IE and *ThresholdIndex* IE.**

**Removal Editor’s note on *MBS Multicast Configuration Response Information* IE.**

**Replace the current Editor’s Note on *Indication for Multicast RRC\_INACTIVE Reception* IE with the semantic description “Corresponds to information contained the inactiveReceptionAllowed as specified in TS 38.331 [8].”**

Discuss online on the coding of MBS Multicast Session State IE i.e. 3 code point as (Active, Active but temporary no data, Inactive…) or 2 code point as (Monitoring start, Monitoring stop…)

HUAWEI: The handling on the case Active but temporary no data is the way as Inactive

ZTE: Do not think 3 code points are needed

ERICSSON: The difference with R17 is the case that no data. ZTE: In R17, we leave it to implementation, it’s CU’s decision.

CATT: 2 code points is enough for monitoring purpose

~~Option1: 2 code point as (G-RNTI monitoring start, G-RNTI monitoring stop…) in addition of existing session status IE: 2 companies~~

**[Agreement]**

**Option2: 2 code point as (G-RNTI monitoring start, G-RNTI monitoring stop…) in replacement of existing session status IE: 4 companies**

More code points can be discussed when the scenario and usage has been identified in future release.

Option3: 3 code point as (Active, Active but temporary no data, Inactive…) which is enhancement of existing session status IE: 2 companies

Nokia: If more code points are needed, it can be added based on Opt2

QUALCOMM: How to differentiate the cases that keeping the MRB and stop monitoring G-RNTI

HUAWEI: It can be achieved by MC context release. ZTE: Whether to keep MRB is up to DU’s implementation.

SAMSUNG: Fine with 2 code points, ffs on the name

ERICSSON: The updated code point seems too specified to refer to particular handling

Nokia: There is no justification on 3 code points, should follow RAN2 agreements

ERICSSON: It’s dependent of RAN2 decision

**CB # MBS2\_Inactive**

**- Work on the TPs**

(moderator - ZTE)

**R3-237868 (TP to MBS BL CRs for TS 38.473) Support of MBS reception in RRC\_Inactive state**

*Type: other For: Agreement  
 38.473 v..  
 Source: Ericsson*

**Discussion:**

- CHOICE MBS Multicast Neighbour Cell List Item should be level4

- Remove comments from other compaies

- Revert the deletion of two IEs in 9.3.1.x1

**Decision:** The document was **revised to R3-238013**.

**R3-238013 (TP to MBS BL CRs for TS 38.473) Support of MBS reception in RRC\_Inactive state**

*Type: other For: Agreement  
 38.473 v..  
 Source: Ericsson*

(Replaces R3-237868)

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

**R3-237869 (TP to MBS BL CRs for TS 38.470) Support of MBS reception in RRC\_Inactive state**

*Type: other For: Agreement  
 38.470 v..  
 Source: CATT*

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

## 16 NR Sidelink Relay Enhancements WI

WID [NR\_SL\_relay\_enh-Core]: [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**)]

**The R18 NR SL Relay WI is completed in RAN3.**

### 16.1 General

**R3-237051 (BL CR to 38.300) Support of SL relay enhancements**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: CMCC, CATT, Samsung, China Telecom, Nokia, Nokia Shanghai Bell, Ericsson, LG Electronics, ZTE, Huawei*

(Replaces R3-235107)

**Abstract:**

BL CR

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

**R3-237052 (BL CR to 38.413) Support for NR Sidelink Relay Enhancements**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0928 rev 8 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm, Ericsson, CMCC, ZTE, Samsung, LG Electronics, Huawei*

(Replaces R3-235108)

**Abstract:**

BL CR

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

**R3-237053 (BLCR to 38.423) Support NR Sidelink Relay Enhancements**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0967 rev 8 Cat: B (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, ZTE, Samsung, Huawei, CATT, LG Electronics, CMCC*

(Replaces R3-235109)

**Abstract:**

BL CR

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

**R3-237054 (BLCR to 38.470) Support of NR SL relay enhancements**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0118 rev 2 Cat: B (Rel-18)  
  
 Source: ZTE, CAICT, China Telecom, CATT, LG Electronics, Ericsson, Huawei*

(Replaces R3-235123)

**Abstract:**

BL CR

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

**R3-237055 (BLCR to 38.401) Introduction of NR SL relay enhancements**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0285 rev 8 Cat: B (Rel-18)  
  
 Source: LG Electronics, Huawei, Samsung, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-235998)

**Abstract:**

BL CR

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

**R3-237056 (BL CR to 37.483) Introduce new indication for proactive data forwarding**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0088 rev 1 Cat: B (Rel-18)  
  
 Source: Samsung, CATT, LG Electronics, Nokia, Nokia Shanghai Bell*

(Replaces R3-235999)

**Abstract:**

BL CR

**Discussion:**

- changed to “Support of NR SL relay enhancements”

**Decision:** The document was **revised to R3-237828**.

**R3-237828 (BL CR to 37.483) Support of NR SL relay enhancements**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0088 rev 2 Cat: B (Rel-18)  
  
 Source: Samsung, CATT, LG Electronics, Nokia, Nokia Shanghai Bell*

(Replaces R3-237056)

**Abstract:**

BL CR

**Discussion:**

title should be changed to ?

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

**R3-237057 (BLCR to 38.473) Support for NR Sidelink Relay Enhancements**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1123 rev 9 Cat: B (Rel-18)  
  
 Source: Huawei, CMCC, LGE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, Samsung, ZTE*

(Replaces R3-236000)

**Abstract:**

BL CR

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

**R3-237806 Summary of AI 16 on SL Relay Enhancement**

*Type: discussion For: Agreement  
 Source: LG Electronics*

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

### 16.2 Support Relay and Remote UE Authorization

### 16.3 Support Service Continuity Enhancements

**R3-237297 (TP to BL CR for 38.300) Corrections on BL CR to 38.300**

*Type: other For: (not specified)  
 Source: LG Electronics, Samsung, Nokia, Nokia Shanghai Bell, Ericsson, ZTE, NEC, CATT, CMCC, Huawei*

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

**R3-237434 (TP for TS37.483 BL CR) Discussion on Support Service Continuity Enhancements**

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

**Decision:** The document was **revised to R3-237951**.

**R3-237951 (TP for BL CR for TS37.483) Update on the Indirect Path Indication**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237434)

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

**R3-237572 Remaining issues on SL relay service continuity**

*Type: discussion For: Decision  
 Source: China Telecommunication*

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

**R3-237589 (TP for SL relay 38.401 and 37.483) Discussion on Support Service Continuity Enhancements**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237254 (TP for BLCR 38.413, 38.423, 38.401, 37.483) Inter-gNB mobility**

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

**Decision:** The document was **revised to R3-237820**.

**R3-237820 (TP for BLCR 38.423) Inter-gNB mobility**

*Type: other For: Agreement  
 38.423 v..  
 Source: Huawei*

(Replaces R3-237254)

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

**R3-237282 (TPs for SL relay to TS 37.483 and 38.401)Remaining issues on service continuity for SL relay**

*Type: other For: Discussion  
 Source: ZTE*

**Decision:** The document was **revised to R3-237909**.

**R3-237909 (TP for SL relay BLCR to TS 38.401) Support of service continuity enhancement**

*Type: other For: Agreement  
 38.401 v..  
 Source: ZTE, LG Electronics, Nokia, Nokia Shanghai Bell, Ericsson, Samsung*

(Replaces R3-237282)

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

**R3-237320 (TP for SL Relay BL CR to TS 37.483) Lossless DL data delivery**

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

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

**R3-237299 (TPs for 38.401, 37.483, 38.413, 38.423) Remaining open issues for service continuity enhancement**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **revised to R3-237807**.

**R3-237807 (TP for SL Relay BLCR to TS 38.413) Support of service continuity enhancement**

*Type: other For: Agreement  
 38.413 v17.6.0  
 Source: LG Electronics, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-237299)

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

**R3-237671 (TP to TS 38.300) SL relay service continuity**

*Type: other For: Approval  
 Source: CMCC*

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

### 16.4 Multi-path Support

**R3-237365 (TP for TS38.401 BL CR) Inter-DU direct path addition on top of indirect path**

*Type: other For: Approval  
 Source: ZTE, NEC, Samsung, Nokia, Nokia Shanghai Bell, Ericsson, LG Electronics, Huawei, CATT*

**Decision:** The document was **revised to R3-237814**.

**R3-237814 (TP for TS38.401 BL CR) Inter-DU direct path addition on top of indirect path**

*Type: other For: Approval  
 38.401 v..  
 Source: ZTE, NEC, Samsung, Nokia, Nokia Shanghai Bell, Ericsson, LG Electronics, Huawei, CATT*

(Replaces R3-237365)

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

**R3-237246 Discussion on remaining issue of multi-path relay**

*Type: discussion For: Decision  
 Source: NEC*

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

**R3-237634 Leftovers for SL relay multipath**

*Type: discussion For: Agreement  
 Source: Samsung*

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

**R3-237321 (TPs for SL Relay to TS 38.401 and TS 38.473) Multi-path for Sidelink Relay**

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

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

**R3-237298 (TPs for 38.401, 38.473, 38.470) Remaining open issues for multi-path support**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **revised to R3-237808**.

**R3-237808 (TP for SL Relay BLCR to TS 38.401) Support of multi-path relay**

*Type: other For: Agreement  
 38.401 v17.6.0  
 Source: LG Electronics, Ericsson, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-237298)

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

**R3-237283 (TPs for SL relay to TS 38.473 and 38.470)Remaining issues on multi-path relay**

*Type: other For: Discussion  
 Source: ZTE*

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

**R3-237435 (TP for TS38.474 BL CR) discussion on the support for multi-path**

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

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

**R3-237255 (TP for BLCR 38.473) Multi-path relay**

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

**Decision:** The document was **revised to R3-237821**.

**R3-237821 (TP for BLCR 38.473) Multi-path relay**

*Type: other For: Agreement  
 38.473 v..  
 Source: Huawei*

(Replaces R3-237255)

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

**R3-237590 (TP for SL relay 38.401) Discussion on Multi-path Support for SL relay**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237573 Discussion on multi-path for sidelink relay**

*Type: discussion For: Decision  
 Source: China Telecommunication*

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

**R3-237672 (TP to TS 38.401 and TS 38.473) Discussion on multi path relay**

*Type: other For: Approval  
 Source: CMCC*

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

**R3-237635 (TP to BL CR 38.473) SL relay multi-path**

*Type: other For: Agreement  
 Source: Samsung*

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

**[Agreement] Add the Path Addition Information IE in the UE CONTEXT SETUP REQUEST message.**

ZTE：support for the motivation.

HUAWEI, CATT, ERICSSON: share with the same view.

**Service Continuity Enhancement**

**[Agreement] The Indirect Path Indication IE is sent per F1-U tunnel level.**

**Work on Stage 2 TP (R3-23xxxx, ZTE) to capture the behaviour of the gNB-CU-UP upon reception of the *Indirect Path Indication* IE into TS 38.401. If Stage 2 TP is agreeable, the procedure text for this IE needs to be simplified in E1AP TP (R3-23xxxx, Nokia).**

**CB for Service Continuity Enhancement:**

1. Review the E1AP TP (R3-23xxxx, Nokia) to capture the agreement on the granularity of the *Indirect Path Indication IE* in E1AP.

2. Review the TP for 38.401 (R3-23xxxx, ZTE) to capture the behaviour of the gNB-CU-UP upon reception of the *Indirect Path Indication* IE into 38.401.

3. Review the TP for 38.423 (R3-23xxxx, Huawei) to remove the Editor’s notes and check the RRC reference for the *Candidate Relay UE ID* IE.

4. Review the TP for 38.413 (R3-237807, revision of R3-237299, LGE) to remove the Editor’s notes, check the RRC reference for the *Candidate Relay UE ID* IE, and capture the correction on NGAP BL CR.

**Multi-path Support**

**[Agreement]**

**New terminologies in the multi-path operation (i.e., MP Relay UE and MP Remote UE) are captured into the RAN3 specifications (e.g., 38.401, 38.470, 38.473).**

**For the direct path addition on top of indirect path in inter-DU case, the gNB-CU sends the direct path addition information to the gNB-DU of indirect path.**

**The gNB-DU UE F1AP ID IE of the Relay UE is used as the Target Relay UE ID IE in the N3C Indirect Path Addition IE.**

**The SRB/DRB mapping info IE is reused to configure the 1:1 bearer mapping for Scenario 2. No spec change is needed.**

**The *Additional Duplication Indication* IE is used to support more than one leg (i.e., CA configuration with 2 or 3 legs) on direct Uu path in multi-path based duplication.**

**The current agreement is reworded as “The DL RRC message is transmitted via the primary path for split SRB without duplication. The DL RRC message is transmitted via both paths for split SRB with duplication”.**

**The legacy mechanism (i.e., the first UP TNL Information IE of two UP TNL Information IEs) is reused to indicate the primary path for the split DRB in MP. If the first UP TNL Information IE is associated with the DRB Mapping Info IE, the primary path is indirect path. If the DRB Mapping Info IE is not present, the primary path is direct path.**

**CB for Multi-path Support:**

1. Review the TP for 38.473 (R3-23xxxx, Huawei) to capture the RAN3 agreements:

* New terminologies in the multi-path operation (i.e., MP Relay UE and MP Remote UE) are captured into the RAN3 specifications (e.g., 38.401, 38.470, 38.473).
* The *gNB-DU UE F1AP ID* IE of the Relay UE is used as the *Target Relay UE ID* IE in the *N3C Indirect Path Addition* IE.
* The F1AP text is enhanced to support the Uu Relay RLC channel configurations for the MP Relay UE using N3C as in R3-237298.
* The *Additional Duplication Indication* IE is used to support more than one leg (i.e., CA configuration with 2 or 3 legs) on direct Uu path in multi-path based duplication.
* Remove the FFS on whether to setup another RLC entity for the indirect path and update the procedure text as follows:
  + If the *UL UP TNL Information* IE with the *DRB Mapping Info* IE and the *UL UP TNL Information* IE without the *DRB Mapping Info* IE are both contained in the UE CONTEXT MODIFICATION REQUEST message for a DRB, the gNB-DU shall, if supported, include two *DL UP TNL Information* IEs in UE CONTEXT MODIFICATION RESPONSE message, setup one RLC entity for the *UL UP TNL Information* IE without the *DRB Mapping Info* IE, and map the downlink data received via the F1-U tunnel associated with the indirect path of the indicated DRB to the Uu Relay RLC channel based on the *DRB Mapping Info* IE.
* Capture ZTE’s TP (in R3-237283) for packet duplication activation of multi-path DRB.
* Double check the RRC reference of *Target Relay UE ID* IE in *Indirect Path Addition* IE.
* Capture and review LGE’s TP (in R3-237298) on procedure texts for the *Indirect Path Addition* IE and the *N3C Indirect Path Addition* IE.

2. Review the TP for 38.401 (R3-237808, revision of R3-237298, LGE) to capture the RAN3 agreements:

* New terminologies in the multi-path operation (i.e., MP Relay UE and MP Remote UE) are captured into the RAN3 specifications (e.g., 38.401, 38.470, 38.473).
* Capture Ericsson’s TP for 38.401 (in R3-237321).
* Capture LGE’s TP (in R3-237298) on how to trigger the relay UE in RRC\_IDLE/ INACTIVE state to enter RRC\_CONNECTED state.
* Capture LGE’s TP on transfer of the *RRCReconfigurationComplete* message (in R3-237298).
* In Step 1 of Figures 8.xx.2-1 and Figures 8.xx.4-1, the MP Remote UE using N3C reports one or multiple candidate MP Relay UE(s).
* Figures 8.xx.1-1 and Figure 8.xx.3-1 are only applicable to the MP Remote UE using PC5 link.

3. Review the TP for 38.470 (R3-23xxxx, Ericsson) to capture the agreements on the responsibility for gNB-CU and gNB-DU in Scenarios 1 and 2.

4. Further check whether the T420-like timer is included into the *Indirect Path Addition* IE or not.

**CB # SLRelay**

**R3-237829 CB:#SLRelay**

*Type: other For: discussion  
 Source: LGE*

**Discussion:**

- discuss on the above issues and merge all the agreements above.

- check stage-2 and stage-3 TPs.

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

**R3-237974 (TP for SL Relay to TS 38.470) Multi-path for Sidelink Relay**

*Type: other For: Agreement  
 38.470 v..  
 Source: Ericsson, LG Electronics, ZTE, Nokia, Nokia Shanghai Bell*

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

## 17 NR NTN enhancements WI

WID [NR\_NTN\_enh-Core]: [RP-231484](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231484.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**The R18 NR NTN WI is completed in RAN3.**

### 17.1 General

**R3-237058 (BL CR to 38.300) Stage 2 BL CR for NR NTN**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Ericsson, CATT, Thales, Huawei, Samsung, ZTE, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated*

(Replaces R3-235057)

**Abstract:**

BL CR

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

**R3-237060 (BLCR to 38.423) BL CR for NR NTN**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0933 rev 11 Cat: B (Rel-18)  
  
 Source: Huawei, Ericsson, Thales, ZTE, Omnispace, TTP, Nokia, Nokia Shanghai Bell, CATT, Hughes, EchoStar, CMCC*

(Replaces R3-235982)

**Abstract:**

BL CR

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

**R3-237697 (BLCR to 38.413) BL CR for NR NTN**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1008 rev 7 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Thales, ZTE, Omnispace, TTP, CATT, Hughes Network Systems, Huawei, Lockheed Martin, Intelsat, ESA, Samsung, Qualcomm Incorporated*

(Replaces R3-237059)

**Abstract:**

BL CR

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

**R3-237059 (BLCR to 38.413) BL CR for NR NTN**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1008 rev 6 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Thales, ZTE, Omnispace, TTP, CATT, Hughes Network Systems, Huawei, Lockheed Martin, Intelsat, ESA, Samsung, Qualcomm Incorporated*

(Replaces R3-235981)

**Abstract:**

BL CR

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

### 17.2 Support Mobility and Service Continuity Enhancements

### 17.3 Network verified UE location

**R3-237138 LS on NW verified UE location failure during cell change**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311324, to RAN3, cc -  
 Source: RAN2(Qualcomm)*

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

**R3-237300 Further discussion on OAM requirements for UE location verification**

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

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

**R3-237301 (TP to BL CR for TS 38.455) Positioning support for NR NTN UE location**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237443 Remaining Issues on UE Location Verification**

*Type: discussion For: Discussion  
 Source: Ericsson, Thales, Huawei*

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

**R3-237369 (TP to 38.305) Mapped cell Id usage for UE disambiguation in multi-RTT**

*Type: other For: Approval  
 Source: Huawei, Thales, Ericsson*

**Discussion:**

Merged to R3-238025

**Decision:** The document was **merged**.

**R3-237371 Discussion on Altitude for the NTN TRP**

*Type: discussion For: Approval  
 Source: Huawei, Thales, Ericsson*

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

**R3-237244 The discussion on location verification of NTN**

*Type: discussion For: Discussion  
 Source: NEC*

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

**R3-237260 Discussion on remaining issues in Network Verified UE Location**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

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

**R3-237338 Discussion on remaining issues for network verified UE location**

*Type: other For: Agreement  
 Source: ZTE*

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

**R3-237368 (TP BL 38.300) OAM Requirements for UE Location Verification**

*Type: other For: Approval  
 Source: Huawei, Ericsson, CATT*

**Decision:** The document was **revised to R3-238026**.

**R3-238026 (TP BL 38.300) OAM Requirements for UE Location Verification**

*Type: other For: Approval  
 Source: Huawei, Ericsson, CATT*

(Replaces R3-237368)

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

**R3-237370 Mapped Cell Id Introduction for E-CID and NR NTN**

*Type: CR For: Approval  
 38.455 v17.5.0 CR-0114 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, Thales, Ericsson*

(Replaces R3-235508)

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

**R3-237372 (TP BL 38.455) NTN Access Point Position**

*Type: other For: Approval  
 Source: Huawei, Thales, Ericsson*

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

**R3-237373 LS on Altitude for the Access Point**

*Type: LS out For: Approval  
 to SA2, cc CT1, CT4, SA5, RAN2, RAN1  
 Source: Huawei, Thales, Ericsson*

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

**R3-237375 Discussion on NW verified UE location failure during cell change and reply LS**

*Type: discussion For: Approval  
 Source: Huawei, Ericsson, Thales*

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

**R3-237420 On NTN NW verified UE location**

*Type: discussion For: Approval  
 Source: Lenovo*

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

**R3-237428 OAM Requirements for UE Location Verification**

*Type: draftCR For: Endorsement  
 38.305 v17.6.0  
 Source: Ericsson, CATT, Huawei*

(Replaces R3-235496)

**Decision:** The document was **revised to R3-238025**.

**R3-238025 OAM Requirements for UE Location Verification**

*Type: draftCR For: Endorsement  
 38.305 v17.6.0  
 Source: Ericsson, CATT, Huawei, ZTE*

(Replaces R3-237428)

**Discussion:**

- Remove: For NTN, the serving cell identity, provided from the AMF to the LMF, as described in TS 23.273 [35], is a Mapped Cell ID.

**Decision:** The document was **revised to R3-238055**.

**R3-238055 OAM Requirements for UE Location Verification**

*Type: draftCR For: Endorsement  
 38.305 v17.6.0  
 Source: Ericsson, CATT, Huawei, ZTE*

(Replaces R3-238025)

**Abstract:**

BL CR

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

**R3-237436 (TP for TS 38.455) Support UE location verification in NR NTN**

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

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

**R3-237445 UE Location Verification Failure During Cell Change**

*Type: discussion For: Discussion  
 Source: Ericsson, Huawei*

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

**R3-237454 Discussion on E-CID method for NTN**

*Type: discussion For: Agreement  
 Source: THALES, Huawei, Ericsson*

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

**R3-237571 On NTN network verified UE location**

*Type: discussion For: Decision  
 Source: China Telecommunication*

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

**R3-237636 Leftovers for UE location verification**

*Type: discussion For: Agreement  
 Source: Samsung*

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

OAM requirements:

**[Agreement]**

**For NTN UE location verification, we should assume a TRP is associated to a satellite.**

**Ephemeris info of the satellites should be configured to the LMF via OAM.**

**Association between the satellite and TRP ID should also be configured to LMF via OAM.**

TPs and LS need to be further checked

QUALCOMM, Lenovo: On the top of OAM based solution, the signalling based solution can be supported

Nokia, CATT, HUAWEI, ZTE: For the signalling based solution, configuration in LMF is still needed. OAM based solution is sufficient.

ERICSSON: We should not pursued the signalling based solution considering the multiple TRPs case

QUALCOMM: QUALCOMM has concern on OAM based solution and not considering the signalling based solution.

Mirror positions ambiguity:

Opt1: Reusing the existing NR-CGI IE to transfer the mapped Cell ID.

Opt2: Include mapped Cell ID in Measurement Quantities Value IE for E-CID MEASUREMENT INITIATION REQUEST NRRPa message and Define a new Mapped Cell ID IE in E-CID Measurement Result information element

Opt3: By implementation

Opt4: Provide additional indication from LMF to gNB on the top of the mapped Cell ID

Opt5: Provide the right or left of the satellite obit from gNB to LMF

**No consensus to have any ehancements to address Mirror positions ambiguity in R18.**

CATT, ZTE: No stage3 impact on E-CID solution, the current IE can be reused

QUALCOMM: None of the solutions above can solve the issue

Nokia, SAMSUNG: There is no additional enhancements needed, LMF already knows the mapped cell ID when it receives the location verification request from AMF

ERICSSON, HUAWEI: Clarify that cell ID in the E-CID Measurement Result IE is mapped cell ID

NEC: Prefer Opt2

**[Agreement] It is proposed to introduce the Common TA Information and capture it in TP for BLCR on 38.455.**

QUALCOMM: IE can be referred to RAN2 definition and the message to include this infor can be further discussed

**Work on stage3 details**

Reply LS to RAN2:

**[Agreement] Reply to RAN2 that all the proposed scenarios from RAN2 in the LS are supported by current NRPPa.**

QUALCOMM: Add new cause value to indicate the failure of change

HUAWEI, CATT, Nokia, ERICSSON, ZTE: Support the proposal, the LMF can understand the satellite/cell/NG-RAN node change by OAM configuration of current NRPPa procedures, no new cause value is needed

**Work on reply LS to RAN2**

CB # NRNTN\_UELocationVerification

**R3-238023 Summary of Offline Discussion – NR NTN UE Location Verification**

*Type: discussion For: discussion  
 Source: Ericsson*

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

**R3-238027 [Draft] LS on OAM requirements for UE location verification**

*Type: LS out For: discussion  
 to SA5, cc SA2, RAN1, RAN2  
 Source: CATT*

**Discussion:**

- change to final LS format

- update the attachments and the text

**Decision:** The document was **revised to R3-238056**.

**R3-238056 [Draft] LS on OAM requirements for UE location verification**

*Type: LS out For: discussion  
 to SA5, cc SA2, RAN1, RAN2  
 Source: CATT*

(Replaces R3-238027)

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

**R3-238028 Introduction of Common TA for NR NTN**

*Type: other For: discussion  
 38.455 v17.5.0 CR-0125 Cat: B (Rel-18)  
  
 Source: Qualcomm, Ericsson*

**Discussion:**

- ASN.1: { ID id-TRPBeamAntennaInformation CRITICALITY reject TYPE TRPBeamAntennaInformation PRESENCE mandatory }|

- TA-Info-r17->TA-Info, EpochTime-r17->EpochTime

- Change to BL CR format

**Decision:** The document was **revised to R3-238057**.

**R3-238057 Introduction of Common TA for NR NTN**

*Type: other For: discussion  
 38.455 v17.5.0 CR-0125 rev 1 Cat: B (Rel-18)  
  
 Source: Qualcomm, Ericsson*

(Replaces R3-238028)

**Abstract:**

BL CR

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

**R3-238024 Reply LS on NW verified UE location failure during cell change**

*Type: LS out For: Agreement  
 to RAN2  
 Source: Qualcomm*

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

## 18 IoT NTN Enhancements WI

WID [IoT\_NTN\_enh-Core]: [RP-231407](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231407.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**The R18 IoT NTN WI is completed in RAN3.**

### 18.1 General

**R3-237061 (BL CR to 36.300) IoT NTN enhancements**

*Type: draftCR For: Agreement  
 36.300 v17.5.0  
 Source: ZTE, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson*

(Replaces R3-235069)

**Abstract:**

BL CR

**Discussion:**

- Remove the UE location verification related text

**Decision:** The document was **revised to R3-237943**.

**R3-237943 (BL CR to 36.300) IoT NTN enhancements**

*Type: draftCR For: Agreement  
 36.300 v17.5.0  
 Source: ZTE, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson*

(Replaces R3-237061)

**Abstract:**

BL CR

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

**R3-237063 (BLCR to 36.423) IoT NTN enhancements**

*Type: CR For: Agreement  
 36.423 v17.6.0 CR-1734 rev 11 Cat: B (Rel-18)  
  
 Source: Huawei, CATT, Nokia, Nokia Shanghai Bell, Qualcomm, ZTE, CMCC, Ericsson, Samsung*

(Replaces R3-235950)

**Abstract:**

BL CR

**Discussion:**

- update TS 36.331 [16]->TS 36.331 [9]

**Decision:** The document was **revised to R3-237942**.

**R3-237942 (BLCR to 36.423) IoT NTN enhancements**

*Type: CR For: Agreement  
 36.423 v17.6.0 CR-1734 rev 12 Cat: B (Rel-18)  
  
 Source: Huawei, CATT, Nokia, Nokia Shanghai Bell, Qualcomm, ZTE, CMCC, Ericsson, Samsung*

(Replaces R3-237063)

**Abstract:**

BL CR

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

**R3-237702 (BLCR to 36.413) IoT NTN enhancements**

*Type: CR For: Agreement  
 36.413 v17.5.0 CR-1895 rev 15 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Thales, Ericsson, Huawei, ZTE*

(Replaces R3-237062)

**Abstract:**

BL CR

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

**R3-237062 (BLCR to 36.413) IoT NTN enhancements**

*Type: CR For: Agreement  
 36.413 v17.5.0 CR-1895 rev 14 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, CATT, Thales, Ericsson, Huawei, ZTE*

(Replaces R3-235949)

**Abstract:**

BL CR

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

### 18.2 Support discontinuous coverage

**R3-237166 LS on UE Location Information for NB-IoT NTN**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311326, to CT1, SA2, cc RAN3  
 Source: RAN2(Inmarsat)*

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

**R3-237429 UE Location Verification and IoT NTN**

*Type: discussion For: Discussion  
 Source: Ericsson LM*

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

**R3-237437 (TP for TS 36.413 BL CR) Discussion on remaining issues to support IoT NTN**

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

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

**R3-237176 (TP to BL CR for TS 36.455, 36.300, 36.305) supporting of E-CID**

*Type: other For: Agreement  
 Source: CATT*

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

**R3-237339 Discussion on remaining issue for IoT NTN**

*Type: other For: Agreement  
 Source: ZTE*

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

**R3-237374 E-CID for Network UE location Verification**

*Type: discussion For: Approval  
 Source: Huawei*

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

**R3-237426 Mapped Cell ID Introduction for E-CID and IoT NTN**

*Type: CR For: Agreement  
 36.455 v17.1.0 CR-0121 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Thales*

(Replaces R3-235493)

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

**R3-237427 (TP to BL CR for TS 36.455) NTN Access Point Position**

*Type: other For: Agreement  
 36.455 v..  
 Source: Ericsson, Huawei, Thales*

(Replaces R3-235494)

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

**[Agreement] RAN3 strictly adheres to the Rel-18 IoT NTN WID and stops discussion on this topic. The corresponding changes to the TS 36.300 BL CR need to be reverted.**

## 19 NR support for UAV WI

WID [NR\_UAV-Core]: [RP-230782](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230782.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**The R18 UAV WI is completed in RAN3.**

### 19.1 General

**R3-237064 Introduction of Aerial authorization information**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0618 rev 13 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 R3-233810)

**Abstract:**

BL CR

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

**R3-237065 (BLCR to 38.423) NR support for UAV over Xn**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0951 rev 7 Cat: B (Rel-18)  
  
 Source: Huawei, China Unicom, China Telecom, CATT, Intel Corporation, ZTE, Ericsson, Qualcomm, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-233811)

**Abstract:**

BL CR

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

**R3-237210 Draft CR to 38.300 on NR support for UAV**

*Type: draftCR For: Endorsement  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, Intel Corporation, ZTE, Ericsson, Samsung, CATT, Qualcomm, Deutsche Telekom, NEC*

**Abstract:**

BL CR

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

### 19.2 Support Subscription-based Aerial-UE Identification

**R3-237713 Discussion on UAV left issues**

*Type: discussion For: Approval  
 Source: ZTE, CMCC, China Telecom*

**Decision:** The document was **revised to R3-237999**.

**R3-237999 (TP to TS 38423 BLCR) on UAV A2X service supporting and flightpath info**

*Type: other For: Approval  
 Source: ZTE, CMCC, China Telecom*

(Replaces R3-237713)

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

**R3-237714 TP to TS 38.413 BLCR for A2X communication supporting and flightpath modification**

*Type: other For: Approval  
 Source: ZTE, CMCC, China Telecom*

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

**R3-237715 TP to TS 38.423 BLCR for A2X communication supporting and flightpath information modification**

*Type: other For: Approval  
 Source: ZTE, CMCC,CATT, China Telecom*

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

**R3-237178 TP (BL CR TS 38.300) Stage 2 corrections for NR support for UAV**

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

**Decision:** The document was **revised to R3-238012**.

**R3-238012 TP (BL CR TS 38.300) Stage 2 corrections for NR support for UAV**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237178)

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

**R3-237382 (TPs for UAV BL CRs for TS 38.423, TS 38.413 and TS 38.473) Remaining open issues for NR UAV**

*Type: other For: Discussion  
 Source: Huawei*

**Decision:** The document was **revised to R3-237991**.

**R3-237991 (TP for TS 38.473) A2X service support in F1AP**

*Type: other For: Discussion  
 Source: Huawei, Nokia, Nokia Shanghai Bell, ZTE, Ericsson*

(Replaces R3-237382)

**Discussion:**

**BL CR rapporteur to merge the TP into BL CR during post meeting BL CR reviewing**

**Rapporteur to update the WI to include F1AP in Dec RAN plenary meeting**

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

**R3-237519 Text Proposal to NGAP and XnAP Baseline CRs on NR support for UAV**

*Type: other For: Approval  
 Source: Ericsson*

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

**R3-237177 (TP to BL CR for TS 38.413)Support of A2X communication**

*Type: other For: Agreement  
 Source: CATT*

**Decision:** The document was **revised to R3-237998**.

**R3-237998 (TP to TS 38413 BLCR) on UAV A2X service supporting and flightpath info**

*Type: other For: Agreement  
 Source: CATT, Nokia, Nokia Shanghai Bell, Huawei, ZTE, Ericsson*

(Replaces R3-237177)

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

**R3-237958 Reply LS on flightpath information forwarding for UAV**

*Type: LS in For: discussion  
 Original outgoing LS: R2-2313869, to RAN3, cc -  
 Source: RAN2(ZTE)*

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

**Proposal 2: Introduce A2X Service Authorized IE, A2X UE PC5 Aggregate Maximum Bit Rate IE, and A2X PC5 QoS Parameters IE into the following NGAP messages:**

**- INITIAL CONTEXT SETUP REQUEST**

**- UE CONTEXT MODIFICATION REQUEST**

**- HANDOVER REQUEST**

**- PATH SWITCH REQUEST ACKNOWLEDGE**

**Proposal 3: Introduce A2X Service Authorized IE, A2X UE PC5 Aggregate Maximum Bit Rate IE, and A2X PC5 QoS Parameters IE into the following XnAP messages:**

**- HANDOVER REQUEST**

**- RETRIEVE UE CONTEXT RESPONSE**

HUAWEI, Nokia, ZTE, CATT: Prefer to have separate IE

HUAWEI: Whether this information should also include LTE case, F1AP should also be considered

ERICSSON: There is no need to introduce A2X Service Authorized IE. Need more time to check.

Nokia: F1 is not included in WI

HUAWEI: It is defined in SA2 as a separate service

**[Agreement] Based on the RAN2 further agreement on how to transmit the flightpath information, RAN3 may remove the existing flightpath info enhancement in NGAP and XnAP BLCRs.**

Nokia, HUAWEI: Agree with this

**CB # R18UAV**

**R3-237873 CB:#R18UAV**

*Type: other For: discussion  
 Source: ZTE*

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

For A2X service supporting:

**[Agreement]**

**It is proposed for RAN3 to introduce the following IEs in XnAP, NGAP for A2X service supporting:**

***NR A2X Services Authorized* IE**

***LTE A2X Services Authorized* IE**

***NR A2X UE PC5 Aggregate Maximum Bit Rate* IE**

***LTE A2X UE PC5 Aggregate Maximum Bit Rate* IE**

***A2X PC5 QoS Parameters* IE**

**For A2X service supporting, RAN3 agrees to introduce the 5 new IEs in the following NGAP messages:**

**- INITIAL CONTEXT SETUP REQUEST**

**- UE CONTEXT MODIFICATION REQUEST**

**- HANDOVER REQUEST**

**- PATH SWITCH REQUEST ACKNOWLEDGE**

**For A2X service supporting, RAN3 agrees to introduce the 5 new IEs in the following XnAP messages:**

**- HANDOVER REQUEST**

**- RETRIEVE UE CONTEXT RESPONSE**

**For A2X service supporting, RAN3 agrees to introduce the following new IEs in the F1AP UE CONTEXT SETUP REQUEST message and UE CONTEXT MODIFICATION REQUEST message:**

***NR A2X Services Authorized* IE**

***LTE A2X Services Authorized* IE**

***NR A2X UE PC5 Aggregate Maximum Bit Rate* IE**

***LTE A2X UE PC5 Aggregate Maximum Bit Rate* IE**

**R3-238000 LS to SA2 and RAN2 for RAN3 progress on NR UAV**

*Type: LS out For: discussion  
 to -  
 Source: Ericsson*

**Discussion:**

- change to final format

**Decision:** The document was **revised to R3-238019**.

**R3-238019 LS to SA2 and RAN2 for RAN3 progress on NR UAV**

*Type: LS out For: discussion  
 to -  
 Source: RAN3(Ericsson)*

(Replaces R3-238000)

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

## 20 NR MT-SDT WI

WID [NR\_MT\_SDT-Core]: [RP-213583](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_94e/Docs/RP-213583.zip) (target: RAN #101)

**The R18 NR MT-SDT WI is completed in RAN3.**

### 20.1 General

**R3-237066 (BLCR to 38.473) Introduction on MT-SDT**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1140 rev 7 Cat: B (Rel-18)  
  
 Source: China Telecom, Intel Corporation, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-233767)

**Abstract:**

BL CR #121

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237874**.

**R3-237874 (BLCR to 38.473) Introduction on MT-SDT**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1140 rev 8 Cat: B (Rel-18)  
  
 Source: China Telecom, Intel Corporation, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-237066)

**Discussion:**

- remove “BL” in the title

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

**R3-237067 (BLCR to 38.420) Introduction on MT-SDT**

*Type: CR For: Agreement  
 38.420 v17.2.0 CR-0034 rev 5 Cat: B (Rel-18)  
  
 Source: Lenovo, CATT, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-233796)

**Abstract:**

BL CR #121

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237875**.

**R3-237875 (BLCR to 38.420) Introduction on MT-SDT**

*Type: CR For: Agreement  
 38.420 v17.2.0 CR-0034 rev 6 Cat: B (Rel-18)  
  
 Source: Lenovo, CATT, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-237067)

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

**R3-237068 (BL CR to TS 37.483) Introduction of MT-SDT**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0054 rev 8 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE, Ericsson, Intel Corporation, China Telecom, Huawei, Lenovo, LG Electronics*

(Replaces R3-234805)

**Abstract:**

BL CR #121

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237876**.

**R3-237876 (BL CR to TS 37.483) Introduction of MT-SDT**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0054 rev 9 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE, Ericsson, Intel Corporation, China Telecom, Huawei, Lenovo, LG Electronics*

(Replaces R3-237068)

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

**R3-237069 (BL CR to 38.300) Introduction on MT-SDT**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, CATT, Ericsson, China Mobile, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, Huawei, Google, LG Electronics*

(Replaces R3-234806)

**Abstract:**

BL CR #121

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237877**.

**R3-237877 (BL CR to 38.300) Introduction on MT-SDT**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, CATT, Ericsson, China Mobile, China Telecom, Nokia, Nokia Shanghai Bell, Lenovo, Huawei, Google, LG Electronics*

(Replaces R3-237069)

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

**R3-237070 (BLCR to 38.401) Introduction on MT-SDT**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0284 rev 7 Cat: B (Rel-18)  
  
 Source: Huawei, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Intel Corporation, China Telecom, Lenovo, LG Electronics*

(Replaces R3-234807)

**Abstract:**

BL CR #121

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237878**.

**R3-237878 (BLCR to 38.401) Introduction on MT-SDT**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0284 rev 8 Cat: B (Rel-18)  
  
 Source: Huawei, ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Intel Corporation, China Telecom, Lenovo, LG Electronics*

(Replaces R3-237070)

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

**R3-237071 (BLCR to 37.480) Introduction on MT-SDT**

*Type: CR For: Agreement  
 37.480 v17.1.0 CR-0003 rev 4 Cat: B (Rel-18)  
  
 Source: LG Electronics, Nokia, Nokia Shanghai Bell*

(Replaces R3-234844)

**Abstract:**

BL CR #121

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237879**.

**R3-237879 (BLCR to 37.480) Introduction on MT-SDT**

*Type: CR For: Agreement  
 37.480 v17.1.0 CR-0003 rev 5 Cat: B (Rel-18)  
  
 Source: LG Electronics, Nokia, Nokia Shanghai Bell*

(Replaces R3-237071)

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

**R3-237072 (BLCR to 38.423) Introduction of MT-SDT**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1010 rev 7 Cat: B (Rel-18)  
  
 Source: Ericsson, ZTE, Intel Corporation, Nokia, Nokia Shanghai Bell, China Telecom, Huawei, Lenovo*

(Replaces R3-235979)

**Abstract:**

BL CR

**Discussion:**

- remove “BL” in the title

**Decision:** The document was **revised to R3-237880**.

**R3-237880 (BLCR to 38.423) Introduction of MT-SDT**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1010 rev 8 Cat: B (Rel-18)  
  
 Source: Ericsson, ZTE, Intel Corporation, Nokia, Nokia Shanghai Bell, China Telecom, Huawei, Lenovo*

(Replaces R3-237072)

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

## 21 NR Redcap Enhancement WI

WID [NR\_redcap\_enh-Core]:[RP-232683](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232683.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**The R18 NR eRedcap WI is completed in RAN3.**

### 21.1 General

**R3-237073 (BL CR to TS 38.300) Introduction of NR Redcap Enhancement**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell, CATT, Ericsson, ZTE*

(Replaces R3-235102)

**Abstract:**

BL CR

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

**R3-237074 (BL CR to 38.410) Introduction of NR Redcap Enhancement**

*Type: CR For: Agreement  
 38.410 v17.1.0 CR-0044 rev 5 Cat: B (Rel-18)  
  
 Source: CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-235103)

**Abstract:**

BL CR

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

**R3-237075 Introduction of RedCap enhancement**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1052 rev 5 Cat: B (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Huawei, ZTE*

(Replaces R3-235995)

**Abstract:**

BL CR

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

**R3-237076 (BL CR to 38.413) Introduction of NR Redcap Enhancement**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0989 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, ZTE, Ericsson*

(Replaces R3-235996)

**Abstract:**

BL CR

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

**R3-237077 (BLCR to 38.473) Introduction on NR Redcap Enhancement**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1169 rev 5 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-235997)

**Abstract:**

BL CR

**Discussion:**

- Remove the duplicate “, ...” in ASN.1

**Decision:** The document was **revised to R3-237771**.

**R3-237771 (BLCR to 38.473) Introduction on NR Redcap Enhancement**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1169 rev 6 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-237077)

**Abstract:**

BL CR

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

**R3-237529 WI work plan for Rel-18 RedCap**

*Type: Work Plan For: Information  
 Source: Rapporteur (Ericsson)*

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

### 21.2 Support Enhanced eDRX in RRC\_INACTIVE

**R3-237151 Reply LS on INACTIVE eDRX above 10.24sec and SDT**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-2311359, to RAN3, CT4, cc RAN2  
 Source: SA2(Intel)*

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

**R3-237530 Finalizing the Rel-18 eRedCap topics**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**R3-237228 (TP to BLCR for TS 38.413) Further discussion on long eDRX support for RRC\_INACTIVE UE**

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

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

**R3-237275 (TP for TS 38.300) Finalization of eDRX for RRC\_INACTIVE**

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

**Decision:** The document was **revised to R3-237817**.

**R3-237817 (TP for TS 38.300) Fix of stage 2 issues**

*Type: other For: -  
 38.300 v..  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-237275)

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

**R3-237311 Discussion on NR Redcap enhancement with MT-SDT**

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

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

**R3-237229 (TP to BLCR for TS 38.300) Further discussion on long eDRX support for RRC\_INACTIVE UE**

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

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

**R3-237230 (TP to BLCR for TS 38.473) Remaining issues on eRedCap UE access**

*Type: other For: (not specified)  
 Source: Huawei, China Unicom, China Telecommunication*

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

**R3-237258 Discussion on MT-SDT for RedCap**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

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

**R3-237276 (TP for TS 38.413) Finalization of eDRX for RRC\_INACTIVE for NGAP**

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

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

**R3-237289 (TP to BLCR for TS 38.470) Remaining issues on eRedCap UE access**

*Type: other For: (not specified)  
 Source: Huawei, China Unicom, China Telecommunication*

**Decision:** The document was **revised to R3-237818**.

**R3-237818 (TP to BLCR for TS 38.470) Remaining issues on eRedCap UE access**

*Type: other For: -  
 38.470 v..  
 Source: Huawei, Ericsson*

(Replaces R3-237289)

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

**R3-237310 (TP to 38.423, 38.300) Left issues on NR Redcap enhancement**

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

**Decision:** The document was **revised to R3-237816**.

**R3-237816 (TP to F1AP BL CR): Fix of stage 3 issues to F1AP**

*Type: other For: -  
 38.473 v..  
 Source: ZTE, Ericsson*

(Replaces R3-237310)

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

**R3-237531 (TP to TS 38.413 BL CR): Addition of data size information options for MT-SDT paging with long enhanced eDRX**

*Type: other For: Agreement  
 Source: Ericsson, Xiaomi, Qualcomm Inc.*

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

**R3-237532 (TP to TS 38.300 BL CR): Addition of partial anchor relocation limitation for NG-RAN node when selecting eDRX longer than 10.24 seconds and activating HLCOM**

*Type: other For: Agreement  
 Source: Ericsson, Xiaomi, Qualcomm Inc.*

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

**R3-237533 (TP to NGAP BL CR): Fix of stage 3 issues to NGAP**

*Type: other For: Agreement  
 Source: Ericsson, Qualcomm Inc., ZTE, CATT*

**Decision:** The document was **revised to R3-237815**.

**R3-237815 (TP to NGAP BL CR): Fix of stage 3 issues to NGAP**

*Type: other For: Agreement  
 38.413 v..  
 Source: Ericsson, Qualcomm Inc., ZTE, CATT, Nokia, Nokia Shanghai Bell, CTC*

(Replaces R3-237533)

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

**R3-237534 (TP to F1AP BL CR): Fix of stage 3 issues to F1AP**

*Type: other For: Agreement  
 Source: Ericsson, ZTE, CATT*

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

**R3-237535 LS on Rel-18 eRedcap WI completion**

*Type: LS out For: Agreement  
 to RAN1, RAN2, SA2, CT4, cc RAN  
 Source: Ericsson*

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

**R3-237754 Proposed summary of proposals for eRedCap online session**

*Type: other For: Information  
 Source: Ericsson*

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

**R3-237797 Reply LS on INACTIVE eDRX above 10.24sec and SDT**

*Type: LS in For: discussion  
 Original outgoing LS: C4-235535, to SA2, RAN3, cc RAN2  
 Source: CT4(Ericsson)*

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

Topic #1 Provision of Data size over NGAP for MT-SDT Paging

**Wait for SA2 and CT4 reply LSes on feasibility concerns before discussing any RAN3 NGAP enhancement. If both replies not received at this meeting, the solution can be discussed in R18 maintenance phase/TEI. R18 eRedCap WI completion is not impacted.**

HUAWEI: Fine with proposal

QUALCOMM: CT4 will reply to us soon

**[Agreement] In the RAN Paging Request message, remove the FFS.**

Topic #2 Stage 3 fixes

**For F1AP, to support of eRedCap indication during F1 paging:**

**Option a: reuse the R17 RedCap Indication IE in the UE Paging Capability IE in the PAGING message and add dedicated procedure texts for eRedCap UE. (Huawei)**

**Option b: define a new eRedCap Indication in the UE Paging Capability IE (Ericsson, CATT, ZTE)**

**Why does DU need to differentiate R17 RedCap and R18 eRedCap UEs?**

QUALCOMM, HUAWEI: There is no limitation on current RedCap indication, prefer Opta

ERICSSON: There is a need for DU to differentiate R17 RedCap or R18 eRedCap, even for Opta, codepoints need to be updated as well.

CATT: Prefer Optb which is more clear

Intel: RAN2 agreed to separate the UE capability of Redcap

Nokia: In the case if ony R18 UEs to be paged, how to achieve this?

**[Agreement] Add procedural text in NGAP on how NG-RAN node should use the CN MT Communication Handling IE when it is included in the Core Network Assistance Information for RRC INACTIVE IE during the INITIAL CONTEXT SETUP REQUEST, UE CONTEXT MODIFICATION REQUEST, HANDOVER REQUEST and PATH SWITCH REQUEST ACKNOWLEDGE messages.**

**CB # eRedCap**

**R3-237773 CB:# eRedcap**

*Type: other For: discussion  
 Source: Ericsson*

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

## 22 NR Network-Controlled Repeaters WI

WID [NR\_netcon\_repeater-Core]: [RP-230175](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230175.zip) (target: RAN #102)

**The R18 NR NCR WI is completed in RAN3.**

### 22.1 General

**R3-237078 (BLCR) Support of Network-Controlled Repeater**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0274 rev 6 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, CATT, Ericsson, Samsung, NEC, China Telecom, ZTE*

(Replaces R3-231147)

**Abstract:**

BL CR #119bis

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237881**.

**R3-237881 (BLCR) Support of Network-Controlled Repeater**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0274 rev 7 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, CATT, Ericsson, Samsung, NEC, China Telecom, ZTE*

(Replaces R3-237078)

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

**R3-237079 (BLCR) Support of Network-Controlled Repeater**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1109 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Samsung, China Telecom, ZTE, NEC*

(Replaces R3-231148)

**Abstract:**

BL CR #119bis

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237882**.

**R3-237882 (BLCR) Support of Network-Controlled Repeater**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1109 rev 7 Cat: B (Rel-18)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Samsung, China Telecom, ZTE, NEC*

(Replaces R3-237079)

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

**R3-237080 (BLCR) Network-Controlled Repeaters Authorization**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0890 rev 7 Cat: B (Rel-18)  
  
 Source: Ericsson, CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-231908)

**Abstract:**

BL CR #119bis

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237883**.

**R3-237883 Network-Controlled Repeaters Authorization**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0890 rev 8 Cat: B (Rel-18)  
  
 Source: Ericsson, CATT, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-237080)

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

**R3-237081 (BL CR to 38.300) BL CR for Network Controlled Repeater management**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, China Telecom, Samsung,CATT, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-235980)

**Abstract:**

BL CR

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237884**.

**R3-237884 (BL CR to 38.300) BL CR for Network Controlled Repeater management**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, China Telecom, Samsung,CATT, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-237081)

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

## 23 NR Positioning WI

WID [NR\_pos\_enh2-Core]: [RP-232670](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232670.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**Email# 1 R18Positioning**

**- Either removing the FFS in BL CRs or removing the corresponding function, no further technical discussion**

**- If all FFS can be solved in the post-meeting email discussion, the this WI can be announced as completed in R18, else it needs extension**

**Deadline 2023-11-22 7:00am UTC**

**(moderator - CATT)**

### 23.1 General

**R3-237082 (BL CR to TS 38.305) Support of NR Positioning Enhancements**

*Type: draftCR For: Agreement  
 38.305 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell, CATT, Huawei, Ericsson, Xiaomi, ZTE, Samsung*

(Replaces R3-235983)

**Abstract:**

BL CR

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

**R3-237083 (BL CR to 38.413) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0991 rev 6 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Huawei, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-235984)

**Abstract:**

BL CR

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

**R3-237084 (BL CR to 38.423) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1061 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, CATT, ZTE, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-235985)

**Abstract:**

BL CR

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

**R3-237085 (BL CR to 38.455) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0113 rev 3 Cat: B (Rel-18)  
  
 Source: CATT, Huawei, Ericsson, Nokia, Nokia Shanghai Bell, ZTE, Xiaomi, Samsung*

(Replaces R3-235986)

**Abstract:**

BL CR

**Discussion:**

- Correct tabular in 9.2.7.4

- Correct ASN.1

- Add China Telecom as cosource

**Decision:** The document was **revised to R3-237858**.

**R3-237858 (BL CR to 38.455) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0113 rev 4 Cat: B (Rel-18)  
  
 Source: CATT, Huawei, Ericsson, Nokia, Nokia Shanghai Bell, ZTE, Xiaomi, Samsung*

(Replaces R3-237085)

**Abstract:**

BL CR

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

**R3-237086 (BL CR to TS 38.470) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0122 rev 1 Cat: B (Rel-18)  
  
 Source: Samsung, Huawei, CATT, Ericsson, Nokia, Nokia Shanghai Bell, ZTE, Xiaomi*

(Replaces R3-235987)

**Abstract:**

BL CR

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

**R3-237087 (BL CR to TS 38.473) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1180 rev 7 Cat: B (Rel-18)  
  
 Source: Ericsson, CATT, Huawei, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-235988)

**Abstract:**

BL CR

**Discussion:**

- Check header numbering

- Check 9.2.12.B1 numbering and position

- Check indentation of in 9.3.1.248

- Rebase on latest specification

**Decision:** The document was **revised to R3-237859**.

**R3-237859 (BL CR to TS 38.473) Support of NR Positioning Enhancements**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1180 rev 8 Cat: B (Rel-18)  
  
 Source: Ericsson, CATT, Huawei, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-237087)

**Abstract:**

BL CR

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

**R3-237302 Work Plan for Rel-18 WI on Expanded and Improved NR Positioning**

*Type: Work Plan For: Decision  
 Source: CATT*

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

**R3-237823 SoD on Positioning R18**

*Type: discussion For: discussion  
 Source: CATT*

**Decision:** The document was **revised to R3-237916**.

**R3-237916 SoD on Positioning R18**

*Type: discussion For: discussion  
 Source: CATT*

(Replaces R3-237823)

**Decision:** The document was **not treated**.

**R3-237830 Reply LS on CPP**

*Type: LS in For: discussion  
 Original outgoing LS: R1-2312393, to RAN2, cc RAN4, RAN3, SA2  
 Source: RAN1*

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

**R3-237831 Reply LS on SRS and PRS bandwidth aggregation for positioning**

*Type: LS in For: discussion  
 Original outgoing LS: R1-2312395, to RAN4, cc RAN2, RAN3  
 Source: RAN1*

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

**R3-237832 Reply LS on request for clarifications on RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning**

*Type: LS in For: discussion  
 Original outgoing LS: R1-2312434, to RAN2, cc RAN3, RAN4  
 Source: RAN1*

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

### 23.2 Support Enhancements on NR Positioning

#### 23.2.1 Sidelink Positioning

**R3-237150 LS on SL positioning and carrier phase positioning measurements**

*Type: LS in For: Discussion  
 Original outgoing LS: R4-2317391, to RAN1, RAN2, RAN3, cc -  
 Source: RAN4(CATT)*

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

**R3-237387 (TP to TS 38.413) Clarification on Ranging and Sidelink Positioning Service Information**

*Type: other For: Approval  
 Source: Xiaomi, Ericsson, Samsung*

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

**R3-237388 (draft LS to RAN2) Support of SL positioning**

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

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

**R3-237536 (TP to TS 38.423) Clarification on Ranging and Sidelink Positioning Service Information**

*Type: other For: Agreement  
 Source: Ericsson, Xiaomi, Samsung*

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

**R3-237537 Discussion on SL positioning in network coverage mode and NRPPa impacts + LS to RAN2**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**R3-237639 (TP to TS 38.473) Clarification on Ranging and Sidelink Positioning Service Information**

*Type: other For: Agreement  
 Source: Samsung, Xiaomi, Ericsson*

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

**[Agreement]** Add semantics description for *Ranging and Sidelink Positioning Service Information* IE, indicating it’s only applied when the UE is authorized for NR V2X services and/or 5G ProSe services.

**Discuss whether to send the LS to RAN2, to check the overall procedure on SL-PRS resource allocation.**

Nokia: we have not so far reached out to other groups. We can simply look at other groups´ progress and derive if we are affected. For that no need for an LS

Xiaomi: AN LS is needed as RAN3 has a different understanding internally on the LMF involvement. `

ZTE: Ok to send the LS but not sure if RAN2 will have time for this

QUALCOMM: SL-PRS resource allocation is the same mechanism as for sidelink. Therefore there is nothing ambiguous about this well known mechanisms

Ericsson: Do not agree with Qualcomm. The WID implicitly states that the mechanism for resource allocation for SL-PRS is different from sidelink. Support the LS to RAN2 to find out how RAN2 thinks about this aspect.

Huawei: Open to send an LS

CATT: Ok to send an LS to RAN2.

**[Agreement]**

Turn WA into an agreement:

＂The last serving gNB notifies LMF when the UE moves out of the validity area by sending the Positioning Information Update message with a new NR CGI where the UE request for SRS configuration.＂

There is no need for a new cause value or indicator for XnAP UE Context Retrieval Request message.

**No need to introduce SRS validity Timer when reserving the SRS configuration. When to release the reserved SRS configuration is up to implementation.**

**Not reopen the discussion on whether and how LMF obtains the available SRS configuration from the gNBs.**

**CB # Pos1\_Sidelink**

**- If possible, agree to an LS to RAN2 on SL-PRS resource allocation**

**- LS to RAN2 in** [**R3-237860**](file:///D:\会议硬盘\TSGR3_122\Inbox\R3-237860.zip) **Agreed**

**- Discuss and, if possible, agree on remaining proposals**

(moderator - CATT)

**R3-237860 LS on LMF involvement in SL-PRS resource allocation**

*Type: LS out For: discussion  
 to RAN2, cc RAN1, SA2  
 Source: RAN3(Xiaomi)*

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

#### 23.2.2 LPHAP

**R3-237136 LS on PRS bandwidth aggregation**

*Type: LS in For: Discussion  
 Original outgoing LS: R1-2310478, to RAN4, cc RAN2, RAN3  
 Source: RAN1(ZTE)*

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

**R3-237148 Reply LS to RAN1 on SRS and PRS bandwidth aggregation for positioning**

*Type: LS in For: Discussion  
 Original outgoing LS: R4-2317389, to RAN1, cc RAN2, RAN3  
 Source: RAN4(ZTE)*

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

**R3-237149 LS on report mapping for positioning measurements with PRS\_SRS bandwidth aggregation**

*Type: LS in For: Discussion  
 Original outgoing LS: R4-2317390, to RAN2, RAN3, cc RAN1  
 Source: RAN4(Ericsson)*

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

**R3-237303 (TP for BL CR to TS 38.455, 38.423, 38.305) on support of LPHAP**

*Type: other For: Decision  
 Source: CATT*

**Decision:** The document was **revised to R3-237917**.

**R3-237917 (TP for BL CR to TS 38.305) on support of LPHAP**

*Type: other For: Agreement  
 38.305 v..  
 Source: CATT*

(Replaces R3-237303)

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

**R3-237366 (TP BL 38.xxx) Remaining Issues on LPHAP**

*Type: other For: Approval  
 Source: Huawei*

**Decision:** The document was **revised to R3-237919**.

**R3-237919 (TP for BL CR to TS 38.473) on support of LPHAP**

*Type: other For: Agreement  
 38.473 v..  
 Source: Huawei*

(Replaces R3-237366)

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

**R3-237389 (TP for TS 38.455) Support of LPHAP**

*Type: other For: Approval  
 Source: Xiaomi*

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

**R3-237399 (TP for TS 38.455 BL CR) Further details for LPHAP**

*Type: other For: (not specified)  
 38.455 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-237918**.

**R3-237918 (TP for BL CR to TS 38.455) on support of LPHAP**

*Type: other For: Agreement  
 38.455 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237399)

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

**R3-237696 Further discussion on LPHAP impacts**

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

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

**CB # Pos2\_LPHAP**

**- Discuss and, if possible, agree on remaining proposals**

(moderator - CATT)

#### 23.2.3 Others

**R3-237141 LS on request for clarifications on RedCap positioning, carrier phase positioning, and bandwidth aggregation for positioning**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311391, to RAN1, cc RAN3, RAN4  
 Source: RAN2(Nokia)*

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

**R3-237144 Reply LS on R1-2308644 for CPP**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311565, to RAN1, cc RAN4, RAN3, SA2  
 Source: RAN2(CATT)*

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

**R3-237304 (TP for BL CR to TS 38.455) More details on support of BW aggregation**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237367 (TP BL 38.xxx) Discussion on CPP, Bandwidth Aggregation and Redcap Postioning**

*Type: other For: Approval  
 Source: Huawei*

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

**R3-237400 (TP for TS 38.455 BL CR) Resolution of open issues for accuracy enhancements**

*Type: other For: (not specified)  
 38.455 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237538 Discussion on SRS BW aggregation and RedCap positioning**

*Type: other For: Discussion  
 Source: Ericsson*

**Decision:** The document was **revised to R3-237920**.

**R3-237920 (TP for BL CR to TS 38.455) on support of BW aggregation and CPP**

*Type: other For: Agreement  
 38.455 v..  
 Source: Ericsson*

(Replaces R3-237538)

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

**R3-237640 Remaining issues on positioning others**

*Type: discussion For: Agreement  
 Source: Samsung*

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

**R3-237698 (TP for 38.455 & 38.473 BLCR) Discussion on PRS&SRS Band Aggregation**

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

**Decision:** The document was **revised to R3-237921**.

**R3-237921 (TP for BL CR to TS 38.473) on support of BW aggregation and CPP**

*Type: other For: Agreement  
 38.473 v..  
 Source: ZTE*

(Replaces R3-237698)

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

**CB # Pos3\_Others**

**- Discuss and, if possible, agree on remaining proposals**

(moderator - CATT)

## 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**)]

**The R18 network ES WI is completed in RAN3.**

### 24.1 General

**R3-237088 (BLCR to 38.473) Introduction of Network Energy Saving**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1129 rev 9 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Samsung, ZTE, CATT, Intel*

(Replaces R3-235074)

**Abstract:**

BL CR

**Discussion:**

- Use the latest spec text in 9.4.5

**Decision:** The document was **revised to R3-237862**.

**R3-237862 (BLCR to 38.473) Introduction of Network Energy Saving**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1129 rev 10 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Samsung, ZTE, CATT, Intel*

(Replaces R3-237088)

**Abstract:**

BL CR

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

**R3-237089 (BL CR to 38.300) Introduction of Network Energy Saving**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, Ericsson*

(Replaces R3-235115)

**Abstract:**

BL CR

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

**R3-237090 (BLCR to 38.423) Network energy saving techniques**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1018 rev 8 Cat: B (Rel-18)  
  
 Source: Huawei, Samsung, Nokia, Nokia Shanghai Bell, ZTE, Ericsson, CATT, Intel*

(Replaces R3-235951)

**Abstract:**

BL CR

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

**R3-237091 (BL CR to 38.470) Network energy saving techniques**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0121 rev 1 Cat: B (Rel-18)  
  
 Source: Qualcomm*

(Replaces R3-235952)

**Abstract:**

BL CR

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

**R3-237225 WI Work plan for R18 network energy savings**

*Type: Work Plan For: (not specified)  
 Source: Huawei*

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

### 24.2 Support Network Energy Savings

**R3-237145 Reply LS on paging**

*Type: LS in For: Discussion  
 Original outgoing LS: R2-2311591, to RAN3, cc SA2  
 Source: RAN2(Huawei)*

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

**R3-237226 (TP to BLCR for TS 38.473, 38.401, 38.470 and 38.300) Finalizing network energy saving techniques**

*Type: other For: (not specified)  
 Source: Huawei, Deutsche Telekom*

**Decision:** The document was **revised to R3-237890**.

**R3-237890 (TP to BLCR for TS 38.470) Finalizing network energy saving techniques**

*Type: other For: Agreement  
 38.470 v..  
 Source: Huawei, Deutsche Telekom*

(Replaces R3-237226)

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

**R3-237733 "Response to R3-237226" F1AP enhancements for NES CHO**

*Type: response For: Agreement  
 Source: Qualcomm Technologies Int*

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

**R3-237227 (TP to BLCR for TS 38.423) Finalizing network energy saving techniques**

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

**Decision:** The document was **revised to R3-237891**.

**R3-237891 (TP to BLCR for TS 38.423) Finalizing network energy saving techniques**

*Type: other For: Agreement  
 38.423 v..  
 Source: Huawei*

(Replaces R3-237227)

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

**R3-237327 Discussion on network energy saving**

*Type: discussion For: Approval  
 Source: Samsung*

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

**R3-237328 Introduction of Network Energy Saving for Paging IDLE UE**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1037 Cat: B (Rel-18)  
  
 Source: Samsung*

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

**R3-237398 (TP to BL CR for TS 38.423) Cell DTRX in Network Energy Saving**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-235573)

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

**R3-237451 (TP to TS 38.423) Discussion on Paging in Subset of Beams and Inter-node Cell DTX/DRX Configuration**

*Type: other For: (not specified)  
 38.423 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237452 (TP to TS 38.473) Beam deactivation decision and signalling for energy saving**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**R3-237460 Open issues on NES techniques**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

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

**R3-237516 Introduction of Network Energy Saving**

*Type: other For: Approval  
 Source: Ericsson*

(Replaces R3-235572)

**Decision:** The document was **revised to R3-237894**.

**R3-237894 (TP to BLCR for TS 38.473) Finalizing network energy saving techniques**

*Type: other For: Agreement  
 38.473 v..  
 Source: Ericsson*

(Replaces R3-237516)

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

**R3-237660 Discussion on network energy saving**

*Type: discussion For: Agreement  
 Source: ZTE*

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

**R3-237661 TP to BL CR of XnAP for Cell DTX-DRX**

*Type: other For: Agreement  
 Source: ZTE*

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

**R3-237662 TP to BLCR of 38.300 for network energy saving**

*Type: other For: Agreement  
 Source: ZTE, Samsung, Ericsson, Qualcomm Incorporated*

**Decision:** The document was **revised to R3-237892**.

**R3-237892 (TP to BLCR for TS 38.300) Finalizing network energy saving techniques**

*Type: other For: Agreement  
 38.300 v..  
 Source: ZTE, Samsung, Ericsson, Qualcomm Incorporated, Huawei*

(Replaces R3-237662)

**Discussion:**

- update: It is up to the gNB’s implementation to select the UEs in RRC\_INACTIVE for which paging in limited set of beams applies.

**Decision:** The document was **revised to R3-238058**.

**R3-238058 (TP to BLCR for TS 38.300) Finalizing network energy saving techniques**

*Type: other For: Agreement  
 38.300 v..  
 Source: ZTE, Samsung, Ericsson, Qualcomm Incorporated, Huawei, Nokia, Nokia Shanghai Bell, CATT*

(Replaces R3-237892)

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

**R3-237795 Proposed summary for Network Energy saving online session**

*Type: discussion For: discussion  
 Source: Huawei*

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

**R3-237618 (TP to NES BL CR for TS38.423) Discussion on inter-node beam activation and cell DTXDRX for NES**

*Type: other For: Agreement  
 Source: CATT*

**Discussion:**

Late contribution

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

**R3-237619 TP to NES BLCR for TS 38.420**

*Type: other For: Agreement  
 Source: CATT*

**Discussion:**

Late contribution

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

**R3-237893 (TP to BLCR for TS 38.420) Finalizing network energy saving techniques**

*Type: other For: Agreement  
 38.420 v..  
 Source: CATT*

(Replaces R3-237619)

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

Paging enhancements

**[Agreement] Confirm the support of the paging enhancement (including subset of beam list) for RRC inactive UE for RAN paging within the gNB.**

Work on stage 2 TP considers to add texts on paging fallback case.

**[Agreement]**

**No support the paging enhancement for RRC idle UE at this release.**

**No reply LS is needed to SA2.**

**No support for the XnAP RAN paging support for RRC inactive UE at this release**

**For TP for TS38.470, highlight the paging enhancement for RRC inactive UE, and delete the editor’s note**

Cell DTX/DRX

**[Agreement] Cell DTX/DRX configuration exchange over Xn is not supported in R18.**

Inter-node beam activation

Proposal 1: For network energy saving cause for SSB deactivation

* Over XnAP, the network saving cause is included in the Coverage Modification Cause IE
* Over F1AP, the network saving cause is included in the Coverage Notification Indication IE in the gNB-DU Configuration update response message, and the CCO Assistance Information IE in the gNB-CU configuration update request message
* The Beam level cause value is signalled from the DU to the CU, and the CU to DU, and Xn.

Nokia: Need more time to check the direction from CU to DU

**[Agreement] Change the presence of SSBs Activated List in the Tabular to be “0..1” in the CELL ACTIVATION RESPONSE message for XnAP.**

For TS 38.300, move the inter-node beam activation section into intra-system energy saving section

To have TP for TS 38.420.

Two options for the SSB deactivation for the CU/DU case:

* Option 1: The gNB-CU controls deactivating SSBs due to Network Energy Optimization and sends request to the DU, then the DU makes final decision.
* Option 2: The DU itself determines deactivating SSBs without assistance information from the CU.

ZTE: Prefer Opt2, not ready to accept that CU to control the SSB level configuration

SAMSUNG, ERICSSON, Nokia: Prefer Opt1, CU has full picture, CU just send the cell list towards DU

HUAWEI, CATT: Both options have pros and cons

**[Agreement] CU sends the allowed cell list towards DU as assistance information to help DU make the final decision on deactivating SSBs. The assistance information is optional.**

**CB # R18ES**

**R3-237872 CB:#R18ES**

*Type: other For: discussion  
 Source: Huawei*

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

Inter-node beam activation

**[Agreement]**

**For network energy saving cause for SSB deactivation, the cell level cause value is signalled from the DU to the CU, and the CU to DU, and Xn. Specifically,**

**- Over XnAP, the network saving cause is included in the Coverage Modification Cause IE.**

**- Over F1AP, the network saving cause is included in the Coverage Notification Indication IE in the gNB-DU Configuration update response message, and the CCO Assistance Information IE in the gNB-CU configuration update request message.**

**The SSB level deactivation discussion can be continued by contribution driven in R18.**

## 25 XR Enhancements for NR

WID [NR\_XR\_enh-Core]: [RP-230786](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_99/Docs/R3-230786.zip) (target: RAN #102) [TU: 0.5 (**0.5**)]

**The R18 NR XR WI is completed in RAN3.**

**The rapporteur to update the WI to include all impacted RAN3 specs in RAN#102.**

### 25.1 General

**R3-237092 (BL CR to 38.300) for XR Enhancements**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Samsung*

(Replaces R3-236001)

**Abstract:**

BL CR

**Discussion:**

- update the BL CR with one author

**Decision:** The document was **revised to R3-237777**.

**R3-237777 (BL CR to 38.300) for XR Enhancements**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Samsung*

(Replaces R3-237092)

**Abstract:**

BL CR

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

**R3-237093 (BL CR to 38.413) Support for NR XR**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1025 rev 3 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, China Telecom, ZTE*

(Replaces R3-236002)

**Abstract:**

BL CR

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

**R3-237094 (XR BL CR to TS 38.423) Introduction of XR enhancement**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1091 rev 4 Cat: B (Rel-18)  
  
 Source: Ericsson, ZTE, Qualcomm Inc., Nokia, Nokia Shanghai Bell*

(Replaces R3-236003)

**Abstract:**

BL CR

**Discussion:**

- update the reference number of ECN marking for L4S or Congestion Monitoring Request IE

**Decision:** The document was **revised to R3-237774**.

**R3-237774 (XR BL CR to TS 38.423) Introduction of XR enhancement**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1091 rev 5 Cat: B (Rel-18)  
  
 Source: Ericsson, ZTE, Qualcomm Inc., Nokia, Nokia Shanghai Bell*

(Replaces R3-237094)

**Abstract:**

BL CR

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

**R3-237095 (BL CR to 38.473) Support for NR XR**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1219 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei, Qualcomm Inc, Ericsson, China Telecom, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-236004)

**Abstract:**

BL CR

**Discussion:**

- update ASN.1: PDUSetQoSParameters-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

...

}

**Decision:** The document was **revised to R3-237775**.

**R3-237775 (BL CR to 38.473) Support for NR XR**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1219 rev 4 Cat: B (Rel-18)  
  
 Source: Huawei, Qualcomm Inc, Ericsson, China Telecom, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-237095)

**Abstract:**

BL CR

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

**R3-237096 (BLCR to 37.483) Introducing enhancement for NR XR**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0078 rev 3 Cat: B (Rel-18)  
  
 Source: Samsung, Ericsson, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-236005)

**Abstract:**

BL CR

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

**R3-237097 (XR BL CR to TS 38.415) Introduction of XR enhancements**

*Type: CR For: Agreement  
 38.415 v17.0.0 CR-0037 rev 3 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Inc*

(Replaces R3-236006)

**Abstract:**

BL CR

**Discussion:**

- update the meeting number

**Decision:** The document was **revised to R3-237776**.

**R3-237776 (XR BL CR to TS 38.415) Introduction of XR enhancements**

*Type: CR For: Agreement  
 38.415 v17.0.0 CR-0037 rev 4 Cat: B (Rel-18)  
  
 Source: ZTE, Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Inc*

(Replaces R3-237097)

**Abstract:**

BL CR

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

**R3-237340 (BL CR to 38.425) Support for NR XR**

*Type: CR For: Agreement  
 38.425 v17.3.0 CR-0148 rev 4 Cat: B (Rel-18)  
  
 Source: CMCC, Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Qualcomm Inc*

(Replaces R3-237098)

**Abstract:**

BL CR

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

**R3-237098 (BL CR to 38.425) Support for NR XR**

*Type: CR For: Agreement  
 38.425 v17.3.0 CR-0148 rev 3 Cat: B (Rel-18)  
  
 Source: CMCC, Nokia, Nokia Shanghai Bell, Ericsson, ZTE, Qualcomm Inc*

(Replaces R3-236007)

**Abstract:**

BL CR

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

### 25.2 Support Enhancements on NR XR

#### 25.2.1 PDU Set Handling

**R3-237359 (TP for NR\_XR\_enh BL CRs for TS38.413/38.423/38.473/38.415):PDU set handling for support NR XR**

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

**Decision:** The document was **revised to R3-237840**.

**R3-237840 (TP for TS 38.423 BL CR) support for PDU Set based QoS handling**

*Type: other For: Agreement  
 38.423 v..  
 Source: Huawei*

(Replaces R3-237359)

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

**R3-237438 (TP for TS 38.413 BL CR) Discussion on support for PDU Set based QoS handling**

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

**Decision:** The document was **revised to R3-237841**.

**R3-237841 (TP for TS 38.413 BL CR) support for PDU Set based QoS handling**

*Type: other For: Agreement  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-237438)

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

**R3-237261 XR Enhancements for PDU Set Handling**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-235280)

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

**R3-237331 (TP to BL CR for 38.413, 37.483, 38.423) Discussion on the support of PDU Set handling**

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

**Decision:** The document was **revised to R3-237842**.

**R3-237842 (TP for TS 37.483 BL CR) support for PDU Set based QoS handling**

*Type: other For: Agreement  
 37.483 v..  
 Source: Samsung*

(Replaces R3-237331)

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

**R3-237332 (TP to BL CR for TS 37.483) Addition of UL PDU Set QoS parameters**

*Type: other For: Approval  
 Source: Samsung, Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Inc., Xiaomi, China Telecom*

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

**R3-237390 (TP for TS 38.423) Introduction of Direction Information for PDU Set QoS Parameters**

*Type: other For: Approval  
 Source: Xiaomi, Ericsson, Qualcomm Inc., Nokia, Nokia Shanghai Bell, Samsung, China Telecom*

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

**R3-237391 (TP for TS 38.300) Non-homogenous support of PDU set based QoS handling in NG-RAN**

*Type: other For: Approval  
 Source: Xiaomi, Nokia, Nokia Shanghai Bell, ZTE*

**Decision:** The document was **revised to R3-237843**.

**R3-237843 (TP for TS 38.300 BL) Support for NR XR**

*Type: other For: Agreement  
 38.300 v..  
 Source: Xiaomi, Nokia, Nokia Shanghai Bell, ZTE, Huawei, Ericsson, Qualcomm Inc.*

(Replaces R3-237391)

**Discussion:**

- Remove “During a handover from a NG-RAN node not supporting PDU Set based handling to a NG-RAN node supporting PDU Set based handling, the target NG-RAN node may receive PDU(s) without PDU set information forwarded from the source NG-RAN node and PDU(s) with PDU set information from UPF, how the target NG-RAN node handles the PDUs with and without PDU set information for the same QoS flow is up to implementation.”

**Decision:** The document was **revised to R3-238032**.

**R3-238032 (TP for TS 38.300 BL) Support for NR XR**

*Type: other For: Agreement  
 38.300 v..  
 Source: Xiaomi, Nokia, Nokia Shanghai Bell, ZTE, Huawei, Ericsson, Qualcomm Inc.*

(Replaces R3-237843)

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

**R3-237392 (TPs for 38.473, 37.483 and 38.413) PDU set based QoS handling for XR**

*Type: other For: Approval  
 Source: Xiaomi*

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

**R3-237421 (TP to BLCR for TS 38.415) User Plane Protocol for PDU Set Information**

*Type: other For: Approval  
 Source: Lenovo, Ericsson*

**Decision:** The document was **revised to R3-237844**.

**R3-237844 (TP to BLCR for TS 38.415) User Plane Protocol for PDU Set Information**

*Type: other For: Agreement  
 38.415 v..  
 Source: Lenovo, Ericsson*

(Replaces R3-237421)

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

**R3-237539 (TP to F1-AP BL CR): introduction of UL UE XR Traffic assistance Information**

*Type: other For: Discussion  
 Source: Ericsson*

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

**R3-237540 (TP to NG-AP BL CR): introduction of Direction Information for PDU Set QoS Parameters**

*Type: other For: Discussion  
 Source: Ericsson, Qualcomm Inc., Nokia, Nokia Shanghai Bell, Samsung, Xiaomi, China Telecom*

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

**R3-237541 LS on defining new GTP-U Extension Header for PDU Set Information**

*Type: LS out For: Agreement  
 to CT4, cc SA2  
 Source: Ericsson, lenovo*

**Decision:** The document was **revised to R3-237845**.

**R3-237845 LS on defining new GTP-U Extension Header for PDU Set Information**

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

(Replaces R3-237541)

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

**R3-237591 (TP for XR 38.415 and 38.425) Discussion on PDU set handling for XR**

*Type: other For: Decision  
 Source: CATT*

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

**R3-237624 Discussion on support of PDU Set Handling**

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

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

**R3-237625 (TP to BL CR TS 38.415) Support for XR UP design using existing frame**

*Type: other For: (not specified)  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, China Unicom, CMCC*

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

**R3-237626 (TP to BL CR TS 38.415) Support for XR UP design using new container**

*Type: other For: (not specified)  
 Source: ZTE, Ericsson, China Unicom, China Telecom*

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

**R3-237627 (TP to BL CR TS 38.410) Support for XR UP design using new container**

*Type: other For: (not specified)  
 Source: ZTE, Ericsson, China Unicom, China Telecom*

**Decision:** The document was **revised to R3-237846**.

**R3-237846 (TP to BL CR TS 38.410) Support for XR UP design using new container**

*Type: other For: Agreement  
 38.410 v..  
 Source: ZTE, Ericsson, China Unicom, China Telecom*

(Replaces R3-237627)

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

**R3-237628 (TP to BL CR TS 38.420) Support for XR UP design using new container**

*Type: other For: (not specified)  
 Source: ZTE, Ericsson, China Unicom, China Telecom*

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

**R3-237629 (TP to BL CR TS 38.470) Support for XR UP design using new container**

*Type: other For: (not specified)  
 Source: ZTE, Ericsson, China Unicom, China Telecom*

**Decision:** The document was **revised to R3-237847**.

**R3-237847 (TP to BL CR TS 38.470) Support for XR UP design using new container**

*Type: other For: Agreement  
 38.470 v..  
 Source: ZTE, Ericsson, China Unicom, China Telecom*

(Replaces R3-237629)

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

**R3-237633 Discussion on XR Enhancement in Split Architecture**

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

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

**R3-237677 (TP for TS38.425) Support for XR PDU Set Handling**

*Type: other For: Approval  
 Source: CMCC, Nokia, Nokia Shanghai Bell, Huawei, ZTE*

**Decision:** The document was **revised to R3-237848**.

**R3-237848 (TP for TS38.425) Support for XR PDU Set Handling**

*Type: other For: Agreement  
 38.425 v..  
 Source: CMCC, Nokia, Nokia Shanghai Bell, Huawei, ZTE*

(Replaces R3-237677)

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

**R3-237678 Discussion on PDU Set handling**

*Type: discussion For: Discussion  
 Source: CMCC*

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

**[Agreement] Turn the following WA into agreement on the capability indication of PDU set handling: Taking Opt1 (Explicit PDU Set handling Support indicator) for XR in R18.**

UP design:

Option1: define PSI and EoDB into the existing Frames (e.g frame with PDU Type =0) of NG-U/F1-U: 9 companies

Option3: Define a new GTP-U extension PDU Set container for PSI and EoDB: 3 companies

Nokia: Prefer Op1, also fine with Opt3 if majority companies would like to go

ERICSSON: There is issue in Opt1, how it works if the non-supporting node receives such PDUSet information in the legacy container?

**How it works if the non-supporting node receives such PDUSet information in the legacy container?**

**UL jitter:**

**Opt1: Define N6 jitter with the range of [-7, +7] ms and the granularity of 0.5 ms**

**Opt2: Define N6 jitter with reference to TS29.244**

**Opt3: ENUMERATED (ms1, ms2, ms3,...)**

**CB # R18XR1\_PDUSet**

**R3-237778 CB:#18R18XR1\_PDUSet**

*Type: other For: discussion  
 Source: Nokia*

**Discussion:**

**Assign following BL CRs:**

**38.420 BL CR -> Lenovo**

**38.410 BL CR -> China Unicom**

**38.470 BL CR -> China Telecom**

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

**R3-237849 (TP to BL CR TS 38.420) Support for XR UP design using new container**

*Type: other For: Agreement  
 38.420 v..  
 Source: CMCC*

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

**R3-237850 (TP to BL CR TS 38.473) Support for UL jitter**

*Type: other For: Agreement  
 38.473 v..  
 Source: Xiaomi*

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

**R3-237851 (TP to BL CR TS 38.473) Support for N6 jitter**

*Type: other For: Agreement  
 38.473 v..  
 Source: Huawei*

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

#### 25.2.2 ECN Marking and others

**R3-237439 Discussion on ECN marking and PDU Set Discard for NR XR**

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

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

**R3-237360 (TP for NR\_XR\_enh BL CRs forTS 38.413/38.423/37.483/38.473/ 38.415/38.425): Discussion on open issues for support NR XR**

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

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

**R3-237262 RAN Signaling Enhancements for Congestion Management**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

(Replaces R3-235281)

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

**R3-237333 (TP to BL CR for 38.413, 38.423, 37.483) Introducing enhancement for NR XR ECN and discarding**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to R3-237936**.

**R3-237936 (TP to BL CR for 37.483) Support for ECN Marking**

*Type: other For: Approval  
 37.483 v..  
 Source: Samsung, Nokia, Nokia Shanghai Bell, ZTE, Ericsson*

(Replaces R3-237333)

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

**R3-237394 Discussion on open issues for ECN marking and others**

*Type: discussion For: (not specified)  
 Source: LG Electronics Inc.*

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

**R3-237422 On ECN Marking, PDCP Discard and Data Forwarding**

*Type: other For: Approval  
 Source: Lenovo*

**Decision:** The document was **noted**.

**R3-237440 TP for TS38.413 BL CR**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, CMCC, ZTE*

**Decision:** The document was **revised to R3-237969**.

**R3-237969 (TP for TS38.413 BL CR) Support for ECN marking**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell, CMCC, ZTE*

(Replaces R3-237440)

**Decision:** The document was **agreed**.

**R3-237441 TP for TS38.423 BL CR**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, CMCC, ZTE*

**Decision:** The document was **noted**.

**R3-237442 TP for TS38.473 BL CR**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, CMCC, ZTE*

**Decision:** The document was **noted**.

**R3-237470 Support for L4S in NG-RAN**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **noted**.

**R3-237471 (TP for NR\_XR\_enh BL CR for TS37.483) Support for ECN Marking**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **noted**.

**R3-237472 (TP for NR\_XR\_enh BL CR for TS38.413) Support for ECN Marking**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **noted**.

**R3-237473 (TP for NR\_XR\_enh BL CR for TS38.415) Support for ECN Marking**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **noted**.

**R3-237474 (TP for NR\_XR\_enh BL CR for TS38.423) Support for ECN Marking**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **revised to R3-237938**.

**R3-237938 (TP for NR\_XR\_enh BL CR for TS38.423) Support for ECN Marking**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

(Replaces R3-237474)

**Decision:** The document was **agreed**.

**R3-237475 (TP for NR\_XR\_enh BL CR for TS38.425) Support for ECN Marking**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **noted**.

**R3-237476 (TP for NR\_XR\_enh BL CR for TS38.473) Support for ECN Marking**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, BT, T-Mobile USA, Charter, Vodafone, Apple, Orange, Verizon Wireless, Telstra, Qualcomm*

**Decision:** The document was **noted**.

**R3-237592 Discussion on ECN Marking and others for XR**

*Type: discussion For: Decision  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-237630 Discussion on ECN marking and PDU Set discard**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-237631 (TP to BL CR TS 38.415) support for ECN Marking**

*Type: other For: (not specified)  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, China Unicom, CMCC*

**Decision:** The document was **revised to R3-237922**.

**R3-237922 (TP to BL CR TS 38.415) support for ECN Marking**

*Type: other For: Agreement  
 Source: ZTE, Nokia, Nokia Shanghai Bell, China Telecom, China Unicom, CMCC*

(Replaces R3-237631)

**Decision:** The document was **agreed**.

**R3-237632 Enhancement for PDU Set Discard Operation**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **noted**.

**R3-237679 (TP for TS38.425) Support for ECN marking**

*Type: other For: Approval  
 Source: CMCC, Nokia, Nokia Shanghai Bell, ZTE*

**Decision:** The document was **noted**.

**R3-237680 Discussion on ECN marking and congestion exposure**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **noted**.

**[Agreement] No need to define separate feedback IE for uplink and downlink.**

Information to be reported over the user plane

Option 1: the report is the percentage of IP packets that should be ECN marked, i.e. the report is related to ECN marking.

Option 2: the report is percentage of congestion level, i.e. the congestion report is not related to percentage of packets to be ECN marked.

Adopt Option 1 that NG-RAN node reports the congestion information, as a percentage of IP packets that should be ECN marked?

HUAWEI: Can not agree with this

**CB # R18XR2\_ECNMarking**

**R3-237781 CB:#R18XR2\_ECNMarking**

*Type: other For: discussion  
 Source: Ericsson*

**Discussion:**

- Continue to discuss the options on the table and do the down-selection

- Provide TPs if agreeable

**Decision:** The document was **noted**.

**R3-237966 (TP for NR\_XR\_enh BL CR for TS38.473) ECN marking for L4S and congestion monitoring**

*Type: other For: Agreement  
 Source: Huawei*

**Decision:** The document was **agreed**.

**R3-237973 (TP for TS38.425) Support for ECN marking**

*Type: other For: Agreement  
 Source: CMCC, Nokia, Nokia Shanghai Bell, ZTE*

**Decision:** The document was **agreed**.

## 26 Basket for Late R18 Items

### 26.1 eNPN WI

WID [eNPN\_Ph2-NGRAN-Core]: [RP-231185](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231185.zip) (target: RAN #102)

**The R18 NR eNPN WI is completed in RAN3.**

**R3-237099 (BLCR to 29.413) Support of the enhanced NPN phase 2**

*Type: CR For: Agreement  
 29.413 v17.3.0 CR-0017 rev 5 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, Nokia, Nokia Shanghai Bell, NEC, LG Electronics, ZTE, Samsung, Ericsson*

(Replaces R3-233739)

**Abstract:**

BL CR #121

**Discussion:**

- update the title: (CR to 29.413) Support of the enhanced NPN phase 2

**Decision:** The document was **revised to R3-237825**.

**R3-237825 Support of the enhanced NPN phase 2**

*Type: CR For: Agreement  
 29.413 v17.3.0 CR-0017 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, Nokia, Nokia Shanghai Bell, NEC, LG Electronics, ZTE, Samsung, Ericsson*

(Replaces R3-237099)

**Decision:** The document was **agreed**.

**R3-237100 (BLCR to 38.300) On introduction of R18 eNPN**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: China Telecom, Huawei, ZTE, CATT, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, NEC, Ericsson*

(Replaces R3-233779)

**Abstract:**

BL CR #121

**Decision:** The document was **revised to R3-237759**.

**R3-237759 (BLCR to 38.300) On introduction of R18 eNPN**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: China Telecom, Huawei, ZTE, CATT, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, NEC, Ericsson*

(Replaces R3-237100)

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237826**.

**R3-237826 On introduction of R18 eNPN**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: China Telecom, Huawei, ZTE, CATT, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, NEC, Ericsson*

(Replaces R3-237759)

**Decision:** The document was **endorsed**.

**R3-237101 (BL CR to 38.413) Support of the enhanced NPN phase 2**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0985 rev 8 Cat: B (Rel-18)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, Huawei, NEC, LG Electronics, Samsung*

(Replaces R3-234776)

**Abstract:**

BL CR #121

**Discussion:**

- Remove changes over changes in 9.2.5.1

**Decision:** The document was **revised to R3-237799**.

**R3-237799 (BL CR to 38.413) Support of the enhanced NPN phase 2**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0985 rev 9 Cat: B (Rel-18)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, Huawei, NEC, LG Electronics, Samsung*

(Replaces R3-237101)

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237852**.

**R3-237852 (CR to 38.413) Support of the enhanced NPN phase 2**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0985 rev 10 Cat: B (Rel-18)  
  
 Source: ZTE, Nokia, Nokia Shanghai Bell, Huawei, NEC, LG Electronics, Samsung*

(Replaces R3-237799)

**Decision:** The document was **agreed**.

**R3-237465 (BL CR to 38.423) Introduction of equivalent SNPNs**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0978 rev 10 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, ZTE, NEC*

(Replaces R3-237102)

**Abstract:**

BL CR #122

**Discussion:**

- Remove “BL” in the title

**Decision:** The document was **revised to R3-237827**.

**R3-237827 Introduction of equivalent SNPNs**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0978 rev 11 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, ZTE, NEC*

(Replaces R3-237465)

**Decision:** The document was **agreed**.

**R3-237102 (BL CR to 38.423) Introduction of equivalent SNPNs**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-0978 rev 9 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell, LG Electronics, Samsung, ZTE, NEC*

(Replaces R3-234777)

**Abstract:**

BL CR #121

**Decision:** The document was **withdrawn**.

### 26.2 Timing Resiliency and URLLC WI

WID [TRS\_URLLC-NR-Core]: [RP-231106](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231106.zip) (target: RAN #102)

**The R18 URLLC WI is completed in RAN3.**

**R3-237103 (BL CR for 38.401) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0309 rev 2 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Samsung, Qualcomm, CATT, Ericsson, Huawei, ZTE*

(Replaces R3-235131)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237104 (BL CR to 38.410) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.410 v17.1.0 CR-0046 rev 1 Cat: B (Rel-18)  
  
 Source: Samsung*

(Replaces R3-235373)

**Abstract:**

BL CR

**Discussion:**

- Add Nokia as co-source company

**Decision:** The document was **revised to R3-237800**.

**R3-237800 (BL CR to 38.410) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.410 v17.1.0 CR-0046 rev 2 Cat: B (Rel-18)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell*

(Replaces R3-237104)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237105 (BL CR to 38.470) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.470 v17.6.0 CR-0119 rev 2 Cat: B (Rel-18)  
  
 Source: China Telecom, ZTE, Huawei, Nokia, Nokia Shanghai Bell*

(Replaces R3-235749)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237106 (BLCR to 38.413) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0972 rev 8 Cat: B (Rel-18)  
  
 Source: Huawei, China Unicom, Nokia, Nokia Shanghai Bell, Samsung, Ericsson, ZTE, CATT*

(Replaces R3-236009)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237107 (BL CR to TS 38.423) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1049 rev 9 Cat: B (Rel-18)  
  
 Source: Ericsson, Huawei, Nokia, Nokia Shanghai Bell, Samsung, ZTE, CATT*

(Replaces R3-236010)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237108 (BLCR to 38.473) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1168 rev 7 Cat: B (Rel-18)  
  
 Source: ZTE, Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-236011)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237154 Reply LS Support of Time Sensitive Networking (TSN) enabled Transport Network (TN)**

*Type: LS in For: Discussion  
 Original outgoing LS: S2-2311886, to CT4, cc RAN3  
 Source: SA2(Nokia)*

**Decision:** The document was **noted**.

**R3-237195 (TP for TS 38.413 BL CR) Resolution of open issues for TRS and URLLC**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-237196 (TP for TS 38.473 BL CR) RAN TSS reporting over F1**

*Type: other For: (not specified)  
 38.473 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-237249 (TP for TS 38.413 BL CR) Interworking with TSN network**

*Type: other For: (not specified)  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell, Huawei, CATT, ZTE, Ericsson*

**Decision:** The document was **revised to R3-237926**.

**R3-237926 (TP for TS 38.413 BL CR) Interworking with TSN network**

*Type: other For: Agreement  
 38.413 v..  
 Source: Nokia, Nokia Shanghai Bell, Huawei, CATT, ZTE, Ericsson, China Telecom*

(Replaces R3-237249)

**Decision:** The document was **agreed**.

**R3-237231 (TP to BLCR for TS 38.413, 38.423, 38.473 and 38.401) Support of 5G Timing Resiliency enhancements**

*Type: other For: (not specified)  
 Source: Huawei, China Unicom*

**Decision:** The document was **revised to R3-237923**.

**R3-237923 (TP for TS 38.413 BL CR) Resolution of TRS\_URLLC open issues**

*Type: other For: Agreement  
 38.413 v..  
 Source: Huawei*

(Replaces R3-237231)

**Decision:** The document was **agreed**.

**R3-237232 (TP to BLCR for TS 38.413) Support of RAN feedback enhancements**

*Type: other For: (not specified)  
 Source: Huawei, China Unicom*

**Decision:** The document was **noted**.

**R3-237233 (TP to BLCR for TS 38.413) Support of TSN enabled transport network**

*Type: other For: (not specified)  
 Source: Huawei, China Unicom, Ericsson, China Telecommunication*

**Decision:** The document was **noted**.

**R3-237259 Discussion on remaining open issues in TSS**

*Type: discussion For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**R3-237501 Text Proposal to [BL CR for TS 38.423]: Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: other For: Approval  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-235574)

**Decision:** The document was **revised to R3-237924**.

**R3-237924 (TP for TS 38.423 BL CR) Resolution of TRS\_URLLC open issues**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-237501)

**Discussion:**

- update the zip file name

**Decision:** The document was **revised to R3-238033**.

**R3-238033 (TP for TS 38.423 BL CR) Resolution of TRS\_URLLC open issues**

*Type: other For: Agreement  
 38.423 v..  
 Source: Ericsson*

(Replaces R3-237924)

**Decision:** The document was **agreed**.

**R3-237502 Further discussion on Support NR Timing Resiliency and URLLC enhancements**

*Type: other For: Approval  
 Source: Ericsson, CATT*

(Replaces R3-235575)

**Decision:** The document was **noted**.

**R3-237598 TP for 38.300 on Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: other For: (not specified)  
 38.300 v..  
 Source: CATT, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to R3-237927**.

**R3-237927 (TP for TS 38.300) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: other For: Agreement  
 38.300 v..  
 Source: CATT, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

(Replaces R3-237598)

**Discussion:**

- Remove: Editor’s Note: place holde, the details will be captured after the stg3 is lockdown.

**Decision:** The document was **revised to R3-238036**.

**R3-238036 (TP for TS 38.300) Introduction of 5G Timing Resiliency and URLLC enhancements**

*Type: other For: Agreement  
 38.300 v..  
 Source: CATT, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

(Replaces R3-237927)

**Decision:** The document was **agreed**.

**R3-237599 Discussion on Adapting downstream and upstream scheduling**

*Type: discussion For: (not specified)  
 Source: CATT*

**Decision:** The document was **noted**.

**R3-237663 Discussion on remaining issues of NR Timing Resiliency and uRLLC**

*Type: discussion For: Agreement  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-237664 TPs to BLCR of 38.473 and 38.413 on NR Timing Resiliency and uRLLC**

*Type: other For: Agreement  
 Source: ZTE*

**Discussion:**

Merged to R3-237923

**Decision:** The document was **merged**.

**R3-237925 (TP for TS 38.473 BL CR) Resolution of TRS\_URLLC open issues**

*Type: other For: Agreement  
 38.473 v..  
 Source: ZTE*

(Replaces R3-237664)

**Decision:** The document was **withdrawn**.

RAN TSS reporting:

**RAN3 agrees to work on how the DU triggers TSS reporting in stage2 as shown in R3-237196 as the starting point.**

ERICSSON: Stage3 signaling is not needed. Would prefer to have note rather than normal text

HUAWEI: It’s controversial on 7b), also prefer to have note

ZTE: Prefer to have normal text

The last serving gNB determines, upon the knowledge that UE had obtained Clock Quality information and the new gNB supports the TSS, on how to relocate the UE context to the new gNB?

ZTE: Wait for RAN2 agreement

QUALCOMM: The enhancement proposed by ERICSSON is dependant with RAN2

HUAWEI, SAMSUNG: This is gNB implementation issue, do not see the need for stage3

Nokia: The solution really does not solve the problem

RAN feedback:

**Turn WA to agreement:**

***WA: TSC Traffic Characteristics Feedback is not provided during handover (i.e., not included in HANDOVER REQUEST ACKNOWLEDGE or PATH SWITCH REQUEST).***

HUAWEI, CATT: Fine, ask whether SA2 will do further enhancements.

Nokia: SA2 never discusses this HO scenario, prefer not to send the LS to SA2, but fine to send LS to SA2 on agreements achieved in RAN3 for information.

**LS to SA2?**

TSN Interworking:

**[Agreement]**

**At PDU session level, add a new Downlink TL Container IE and Uplink TL Container IE in the PDU Session Resource Setup Request Transfer IE and PDU Session Resource Setup Response Transfer IE respectively.**

**At QoS flow level, add a new Downlink TL Container IE and Uplink TL Container IE in the PDU Session Resource Modify Request Transfer IE and PDU Session Resource Modify Response Transfer IE respectively.**

**At QoS flow level, add a new Downlink TL Container IE and Uplink TL Container IE in the PDU Session Resource Release Command Transfer IE and PDU Session Resource Release Response Transfer IE respectively.**

**The TL Container IEs are encoded as OCTET STRING with semantics description “Containing the <message name> message specified in TS 29.585 [x]”.**

**Further check on R3-237249**

**[Agreement]**

**A new UL NG-U UP TNL information can be added to the QoS flow Add or Modify Request Item in the PDU Session Resource Modify Request Transfer IE, which is used to instruct the RAN node to assign a distinct N3 tunnel end point for the QoS flow.**

**A new DL NG-U UP TNL Information can be added to the QoS Flow Add or Modify Response List in the PDU Session Resource Modify Response Transfer IE.**

A new AN Packet Delay Budget Uplink is added to the PDU SESSION RESOURCE SETUP RESPONSE, PDU SESSION RESOURCE MODIFY RESPONSE, and INITIAL CONTEXT SETUP RESPONSE messages.

**Remove the FFS on the 25ns granularity for the Clock Accuracy Value IE within the RAN Timing Synchronisation Status Information (NGAP, F1AP), and for the Clock Accuracy IE within the Clock Quality Acceptance Criteria (NGAP).**

ERICSSON: Remove FFS, but to specify 1ns instead of 25ns

HUAWEI, ZTE: Support 25ns

**CB # R18URLLC**

**R3-237804 CB:#R18URLLC**

*Type: other For: discussion  
 Source: Nokia*

**Discussion:**

- Discuss open issues left

- Provide TPs if agreeable

**Decision:** The document was **noted**.

**R3-237928 (TP for TS 38.401 BL CR) RAN TSS reporting over F1**

*Type: other For: Agreement  
 38.401 v..  
 Source:  Nokia, Nokia Shanghai Bell, China Telecom, Qualcomm Incorporated*

**Discussion:**

- Remove comments mark

- Step4: refer to step7 in previous change

- Add ERICSSON, ZTE as co-source

**Decision:** The document was **revised to R3-238037**.

**R3-238037 (TP for TS 38.401 BL CR) RAN TSS reporting over F1**

*Type: other For: Agreement  
 38.401 v..  
 Source:  Nokia, Nokia Shanghai Bell, China Telecom, Qualcomm Incorporated, Ericsson, ZTE*

(Replaces R3-237928)

**Decision:** The document was **agreed**.

QUALCOMM, ZTE, HUAWEI: The wording on “event a) occurred and b) has not yet been reached, the gNB-DU performs periodic reporting or a previously reported RAN TSS attribute value can no longer be met.” needs to be futher reviewed in next meeting.

**R3-237929 [draft] RAN feedback during handover (to SA2)**

*Type: LS out For: Agreement  
 to SA2  
 Source: Huawei*

**Discussion:**

- Keep one contact person

**Decision:** The document was **revised to R3-238038**.

**R3-238038 [draft] RAN feedback during handover (to SA2)**

*Type: LS out For: Agreement  
 to SA2  
 Source: Huawei*

(Replaces R3-237929)

**Decision:** The document was **agreed**.

**R3-237986 (TP to BLCR for TS 38.473) Support of 5G Timing Resiliency and URLLC enhancements**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, Huawei, Nokia, Nokia Shanghai Bell*

**Discussion:**

- remove comments mark

**Decision:** The document was **revised to R3-238034**.

**R3-238034 (TP to BLCR for TS 38.473) Support of 5G Timing Resiliency and URLLC enhancements**

*Type: other For: Agreement  
 Source: ZTE, China Telecom, Huawei, Nokia, Nokia Shanghai Bell*

(Replaces R3-237986)

**Decision:** The document was **agreed**.

### 26.3 RAN Slicing WI

WID [eNS\_Ph3-NR-Core]: [RP-231396](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_100/Docs/RP-231396.zip) (target: RAN #102)

**The R18 RAN Slicing WI is completed in RAN3.**

**R3-237109 (BL CR to 38.423) Signalling cells configured with zero resources for a slice**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1098 rev 3 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, ZTE, Samsung, Qualcomm Incorporated, CATT, Orange, China Unicom, Deutsche Telekom, CMCC, Ericsson*

(Replaces R3-235893)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237110 (BL CR to 38.300) Enhancement of RAN Slicing for NR**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, China Telecom, Nokia, Nokia Shanghai Bell, Huawei, Ericsson*

(Replaces R3-235946)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237111 (BL CR to 38.413) Introduction of Enhancement of RAN Slicing for NR**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1006 rev 5 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-235947)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237112 (BL CR to 38.473) RAN impact on supporting Network Slice Service continuity scenario**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1226 rev 1 Cat: B (Rel-18)  
  
 Source: CATT, ZTE*

(Replaces R3-235948)

**Abstract:**

BL CR

**Decision:** The document was **endorsed**.

**R3-237609 Support for Network Slices with Area of Service not matching TAs**

*Type: discussion For: (not specified)  
 Source: ZTE,China Telecom,CATT*

**Decision:** The document was **noted**.

**R3-237247 (TP to BLCR for TS 38.300) Finalizing the enhanced network slicing phase 3**

*Type: other For: (not specified)  
 Source: Huawei*

**Decision:** The document was **noted**.

**R3-237463 (TP for TS 38.300 and TS 38.413) Finalization of Partially Allowed NSSAI**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Orange*

**Discussion:**

ERICSSON: The spirit of change is good. Send LS to SA2?

HUAWEI: Not necessary to send LS to SA2. Whether the text added by ERICSSON is needed?

SAMSUNG: Check with SA2

- Add: A slice is supported within a TA if it is included in the slice support list for the TA signaled from the NG-RAN to AMF.

**Decision:** The document was **revised to R3-237809**.

**R3-237809 (TP for TS 38.300) Finalization of Partially Allowed NSSAI**

*Type: other For: -  
 Source: Nokia, Nokia Shanghai Bell, Orange*

(Replaces R3-237463)

**Discussion:**

as TP for TS38.300, New cause value over NGAP?

ZTE: It’s not needed. AMF aware it.

ERICSSON: The SMF is informed about whether UE is in or out the area by AMF

**Decision:** The document was **agreed**.

**R3-237608 Leftover issues for eNS**

*Type: discussion For: (not specified)  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-237462 (TP for TS 38.413 and TS 38.423) Finalization of Network Slice Service Continuity**

*Type: other For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, Orange, CMCC, CATT, Samsung*

**Decision:** The document was **noted**.

**R3-237495 Enhancements to Target NSSAI**

*Type: discussion For: Agreement  
 Source: Ericsson, Deutsche Telekom, Bell Mobility*

**Decision:** The document was **noted**.

**R3-237496 (TP for eNS\_Ph3-NR-Core for BLCR TS38.413) Target NSSAI Enhancements**

*Type: other For: Agreement  
 Source: Ericsson, Deutsche Telekom, Bell Mobility*

**Decision:** The document was **noted**.

**R3-237497 LS on the use of Target NSSAI for optimised slice based mobility**

*Type: LS out For: Agreement  
 to RAN3, cc SA2  
 Source: Ericsson, Deutsche Telekom, Bell Mobility*

**Decision:** The document was **noted**.

**R3-237498 Clarifications and Way Forward on Network Slice Service Continuity**

*Type: discussion For: Agreement  
 Source: Ericsson*

**Decision:** The document was **noted**.

**R3-237570 Discussion on remaining issues for RAN slicing enhancement**

*Type: discussion For: Decision  
 Source: China Telecommunication*

**Decision:** The document was **noted**.

**R3-237600 TP for 38.423 for supporting alternative S-NSSAI**

*Type: other For: (not specified)  
 38.423 v..  
 Source: CATT, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-237610 (TP for BL CR to 38.300) Support Slice Area of Service not mapping to existing TA**

*Type: other For: (not specified)  
 Source: ZTE,CATT,China Telecom*

**Discussion:**

ERICSSON: Would like to avoid duplication stage2 description. Focus more on stage3

HUAWEI: Can have something in stage2

Nokia: Text is good from ZTE. The stage2 TPs from Nokia and Huawei addresses another issue that the definition of the slice availability in the RA

ZTE: There is no duplication with SA2.

SAMSUNG: It’s beneficial to capture this

- Add “may” in the first sentence

- Work on the wording “Using exchang with neighbour NG-RAN nodes, awareness of the slices configured with zero resources in the cells of its neighbour may be beneficial for NG-RAN for mobility decision.”

**Decision:** The document was **revised to R3-237805**.

**R3-237805 (TP for BL CR to 38.300) Support Slice Area of Service not mapping to existing TA**

*Type: other For: Agreement  
 Source: ZTE,CATT,China Telecom, CMCC, Nokia, Nokia Shanghai Bell, Ericsson, Huawei*

(Replaces R3-237610)

**Decision:** The document was **agreed**.

**R3-237611 (TP for BL CR to 38.423) Support Slice Area of Service not mapping to existing TA**

*Type: other For: (not specified)  
 Source: ZTE,CATT,China Telecom, Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia: Support this, add Nokia as co-source

- Add Nokia as co-source

**Decision:** The document was **agreed**.

**R3-237641 Leftover issues on the enhancement of RAN slicing**

*Type: discussion For: Agreement  
 Source: Samsung, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**R3-237649 Discussion on remaining open issue for RAN slicing**

*Type: discussion For: Decision  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**R3-237650 (TP to TS 38.413 and 38.423) TP for RAN slicing enhancement**

*Type: other For: (not specified)  
 Source: LG Electronics*

**Decision:** The document was **noted**.

**R3-237676 Discussion on network slice service continuity**

*Type: discussion For: Discussion  
 Source: CMCC, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**LS to SA2 on the agreements in RAN3?**

**CB # R18Slice**

**R3-237810 CB:#R18Slice**

*Type: other For: discussion  
 Source: ZTE*

**Discussion:**

- Discuss the open issues

- Provide TPs if agreeable

- LS to SA2 to inform RAN3 agreements?

**Decision:** The document was **noted**.

## 31 Corrections and Enhancements to Rel-18

### 31.1 Corrections

**R3-237248 Introduction of early capability restriction for Multi-SIM**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1232 Cat: B (Rel-18)  
  
 Source: Huawei, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, ZTE, Samsung, Ericsson*

**Discussion:**

- update to introduce the “musim-CapabilityRestrictionIndication” IE in the CU to DU RRC Information in the UE context setup request message.

**Decision:** The document was **revised to R3-237770**.

**R3-237770 Introduction of early capability restriction for Multi-SIM**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1232 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, ZTE, Samsung, Ericsson*

(Replaces R3-237248)

**Discussion:**

**Ask to include the corresponding RAN3 spec in WI in Dec RAN plenary meeting.**

**Decision:** The document was **agreed**.

**R3-237542 Discussion on addition of UE Rx Tx Time difference in NR UL E-CID**

*Type: discussion For: Discussion  
 Source: Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel*

**Discussion:**

NEC: WI code

HUAWEI, ZTE: It’s an enhancement, there is no need to introduce such kind of enhancement

ZTE: Discuss whether we need to enhance E-CID mechanism for higher accuracy first

Nokia: It was introduced in LTE in R16

CB: # 13\_NRULECID

**Decision:** The document was **noted**.

**R3-237769 CB:#13\_NRULECID**

*Type: other For: discussion  
 Source: nn*

**Discussion:**

- Check whether such enhancement is needed? What’s the benefits?

**To be continued...**

**Decision:** The document was **noted**.

**R3-237543 Introduction of NR UE Rx-Tx time difference measurement in NR UL E-CID [UERxTxTD]**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0124 Cat: F (Rel-18)  
  
 Source: Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel*

**Decision:** The document was **revised to R3-237739**.

**R3-237739 Introduction of NR UE Rx-Tx time difference measurement in NR UL E-CID [UERxTxTD]**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0124 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel, Nokia, Nokia Shanghai Bell*

(Replaces R3-237543)

**Decision:** The document was **not treated**.

**R3-237544 Introduction of NR UE Rx-Tx time difference measurement in NR UL E-CID [UERxTxTD]**

*Type: draftCR For: Agreement  
 38.305 v17.6.0  
 Source: Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel*

**Decision:** The document was **revised to R3-237740**.

**R3-237740 Introduction of NR UE Rx-Tx time difference measurement in NR UL E-CID [UERxTxTD]**

*Type: draftCR For: Agreement  
 38.305 v17.6.0  
 Source: Ericsson, Polaris Wireless, China Telecom, NTT Docomo, AT&T, FirstNet, Intel, Nokia, Nokia Shanghai Bell*

(Replaces R3-237544)

**Decision:** The document was **not treated**.

**R3-237556 Correction of user location information for wireline access**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1041 Cat: F (Rel-18)  
  
 Source: Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell, Orange*

**Discussion:**

ZTE: Understand the intention of this CR, it should be triggered by SA2

Nokia: It has already been implemented in SA2 spec

- Cat. B CR with SA2 WI code

**Decision:** The document was **revised to R3-237782**.

**R3-237782 Correction of user location information for wireline access**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1041 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom, Nokia, Nokia Shanghai Bell, Orange*

(Replaces R3-237556)

**Decision:** The document was **agreed**.

**R3-237691 Discussion on avoiding unnecessary setup of DRB(s) in indirect data forwarding**

*Type: discussion For: Agreement  
 Source: Samsung,ZTE,CATT*

**Discussion:**

Nokia: It’s not allowed indirect data forwarding in CP-UP split with MN, need more time to check how to support

ZTE:Need more time to check offline

ERICSSON: Prefer Opt1, but also ok with Opt2. In Opt2, if we do not introduce new IE, whether the current mechanism still works

CB: # 17\_IndirectDataForwarding

**Decision:** The document was **noted**.

**R3-237783 CB:#17\_IndirectDataForwarding**

*Type: other For: discussion  
 Source: Samsung*

**Discussion:**

- Check the solutions proposed

**Decision:** The document was **withdrawn**.

**R3-237692 Avoiding unnecessary setup of DRB(s) in indirect data forwarding [Indirect Data forwarding]**

*Type: CR For: Approval  
 37.483 v17.6.0 CR-0095 Cat: B (Rel-18)  
  
 Source: Samsung, ZTE, CATT*

**Decision:** The document was **revised to R3-237744**.

**R3-237744 Avoiding unnecessary setup of DRB(s) in indirect data forwarding [Indirect Data forwarding]**

*Type: CR For: Approval  
 37.483 v17.6.0 CR-0095 rev 1 Cat: B (Rel-18)  
  
 Source: Samsung, ZTE, CATT, LGE*

(Replaces R3-237692)

**Decision:** The document was **revised to R3-237961**.

**R3-237961 Avoiding unnecessary setup of DRB(s) in indirect data forwarding [Indirect Data forwarding]**

*Type: CR For: Approval  
 37.483 v17.6.0 CR-0095 rev 2 Cat: B (Rel-18)  
  
 Source: Samsung, ZTE, CATT, LGE*

(Replaces R3-237744)

**Discussion:**

- Add LGE, ZTE, CATT, Nokia, ERICSSON

- updates made online

**Decision:** The document was **revised to R3-237968**.

**R3-237968 Avoiding unnecessary setup of DRB(s) in indirect data forwarding [Indirect Data forwarding]**

*Type: CR For: Approval  
 37.483 v17.6.0 CR-0095 rev 3 Cat: B (Rel-18)  
  
 Source: Samsung, ZTE, CATT, LG Electronics, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-237961)

**Decision:** The document was **agreed**.

**R3-237313 Discussion on sidelink CA over F1 interface**

*Type: discussion For: Decision  
 Source: ZTE Corporation, Sanechips*

**Discussion:**

HUAWEI: SL or SL relay? Need more time to check the solution

ERICSSON: Is it belongs to R18 WI? ZTE: Yes

**CB# 18\_SLCA**

**- Check the details of the solution**

**- If it is agreeable, it should be R18 Cat.B CR with R18 SL WI code, and the WID needs to be updated to include RAN3 spec in Dec RAN plenary meeting**

(moderator - ZTE)

**Decision:** The document was **noted**.

**R3-237855 Introduction of SL CA over F1 interface**

*Type: CR For: discussion  
 38.473 v17.6.0 CR-1248 Cat: B (Rel-18)  
  
 Source: ZTE Corporation, Ericsson, Nokia, Nokia Shanghai Bell, Samsung Electronics Co., Ltd, Philips International B.V., CATT, LG Electronics Inc.,China Telecom, Intel Corporation, Qualcomm Inc., Sanechips*

**Decision:** The document was **revised to R3-237950**.

**R3-237950 Introduction of SL CA over F1 interface**

*Type: CR For: discussion  
 38.473 v17.6.0 CR-1248 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE Corporation, Nokia, Nokia Shanghai Bell, Samsung Electronics Co., Ltd, Philips International B.V., CATT, LG Electronics Inc.,China Telecom, Intel Corporation, Qualcomm Inc., Sanechips*

(Replaces R3-237855)

**Discussion:**

NEC: Has concern on the solution, stage2 only

**Decision:** The document was **agreed**.

**R3-237364 F1AP enhancement to handle HO involving DRB Release and Add**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1238 Cat: C (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

HUAWEI: This issue needs to be discussed. Just use the reestablish indication towards RLC, DU will know it is HO and will perform RLC reestablishment

Nokia: Not only for HO, but also for DRB release and add case

ZTE: Do not see the issue

CATT: Is it only for HO case?

**Decision:** The document was **noted**.

**R3-237220 (TPs to NCR BL CRs of TS 38.413 and TS 38.300) Correction on NCR authorization**

*Type: other For: Agreement  
 Source: Huawei*

**Discussion:**

CATT: In the previous meeting, NCT MT should only be allowed in the allowed NCR cell list, no further action is needed

QUALCOMM: AMF knows the HO by Path Switch Request procedure, then AMF can trigger to sent the NCR Authorization by UE Context Modification procedure

ERICSSON: NCR does not move, agree with ZTE, CATT, Qualcomm

ZTE: Not critical

Nokia: There is no issue, there is no agreement to introduce over Xn

**Decision:** The document was **noted**.

**R3-237734 Response to R3-237220**

*Type: response For: Discussion  
 Source: ZTE*

**Decision:** The document was **noted**.

**R3-237464 Correction of Erroneous Mobility Classification**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

ZTE: It’s kind of enhancements rather than correction

HUAWEI: Same comment as ZTE. It’s used for stationary UE, we already had some IE like expected UE behaviour to indicate whether UE is stationary or not

ERICSSON:We discussed this also in R18 ES WI

QUALCOMM: We do not want support this in R18 ES WI, which is the same mechanism

Nokia: This is does not touch paging at all

**Decision:** The document was **noted**.

### 31.2 Enhancements

### 31.3 Endorsed Rel-18 TEI CRs Review

**R3-237113 Location Reporting Enhancements [LRC-Enh]**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0911 rev 4 Cat: B (Rel-18)  
  
 Source: Ericsson, China Telecom, Huawei, CATT, China Unicom, Nokia, Nokia Shanghai Bell, ZTE*

(Replaces R3-234685)

**Abstract:**

Technically endorsed #121

**Decision:** The document was **agreed**.

**R3-237114 Support of oversize UL SDT Data Arrival [Large SDT Uplink Data]**

*Type: CR For: Agreement  
 38.401 v17.6.0 CR-0302 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, ZTE, LG Electronics,China Telecom, Samsung, Ericsson*

(Replaces R3-234737)

**Abstract:**

Technically endorsed #121

**Decision:** The document was **agreed**.

**R3-237115 Switching from SDT to RRC Connected State [Large SDT Uplink Data]**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1213 rev 3 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, Qualcomm Incorporated, ZTE, LG Electronics,China Telecom, Samsung, Ericsson*

(Replaces R3-234738)

**Abstract:**

Technically endorsed #121

**Decision:** The document was **agreed**.

**R3-237116 Correction on Location reporting control [LRC-Enh]**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-0877 rev 5 Cat: B (Rel-18)  
  
 Source: ZTE, Huawei, CATT, China Telecom, China Unicom, Qualcomm, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces R3-234774)

**Abstract:**

Technically endorsed #121

**Decision:** The document was **agreed**.

**R3-237117 Introduction of measurements without gap with interruption**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1194 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom, BT*

(Replaces R3-235180)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237118 Support of multiple Trace activations**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1028 rev 1 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Samsung, ZTE, CMCC*

(Replaces R3-235408)

**Abstract:**

Endorsed CR #121bis

**Discussion:**

- Update the editorial mistakes in the cover page

- Add Nokia as co-source

**Decision:** The document was **revised to R3-237765**.

**R3-237765 Support of multiple Trace activations**

*Type: CR For: Agreement  
 38.413 v17.6.0 CR-1028 rev 2 Cat: F (Rel-17)  
  
 Source: CATT, Huawei, Samsung, ZTE, CMCC, Nokia, Nokia Shanghai Bell*

(Replaces R3-237118)

**Decision:** The document was **agreed**.

**R3-237119 Correction of NG-U**

*Type: CR For: Agreement  
 38.415 v17.0.0 CR-0038 rev 2 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces R3-235705)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237120 Correction of Transport Addresses**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0086 rev 2 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei*

(Replaces R3-235711)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237121 Positioning inactive mode for SDT without anchor relocation [POS\_SDT]**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1085 rev 3 Cat: B (Rel-18)  
  
 Source: Huawei, CATT, Samsung, CMCC, ZTE, Ericsson, LG Electronics, Xiaomi, China Telecom, Nokia, Nokia Shanghai Bell*

(Replaces R3-235713)

**Abstract:**

Endorsed CR #121bis

**Discussion:**

- Update the Semantics description of SRS Configuration as “includes ...”

**Decision:** The document was **revised to R3-237766**.

**R3-237766 Positioning inactive mode for SDT without anchor relocation [POS\_SDT]**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1085 rev 4 Cat: B (Rel-18)  
  
 Source: Huawei, CATT, Samsung, CMCC, ZTE, Ericsson, LG Electronics, Xiaomi, China Telecom, Nokia, Nokia Shanghai Bell*

(Replaces R3-237121)

**Decision:** The document was **agreed**.

**R3-237122 Support of Inactive Positioning in SDT without UE context relocation case [POS\_SDT]**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0109 rev 3 Cat: B (Rel-18)  
  
 Source: CATT, Huawei, Ericsson, Samsung, CMCC, ZTE, Xiaomi, LG Electronics, China Telecom, Nokia, Nokia Shanghai Bell*

(Replaces R3-235714)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237123 Introduction of 3 MHz channel bandwidth**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1094 rev 2 Cat: B (Rel-18)  
  
 Source: Ericsson, China Telecom, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-235716)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237124 Introduction of 3 MHz channel bandwidth**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1221 rev 2 Cat: B (Rel-18)  
  
 Source: ZTE,China Telecom, Ericsson,Nokia,Nokia Shanghai Bell*

(Replaces R3-235717)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237125 Support of oversize UL SDT Data Arrival [Large SDT Uplink Data]**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1093 rev 2 Cat: B (Rel-18)  
  
 Source: Huawei, China Telecom, Ericsson, Qualcomm Incorporated, China Unicom, ZTE, LG Electronics, CATT, Nokia, Nokia Shanghai Bell, Samsung*

(Replaces R3-235720)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237126 Correction on multicast data forwarding in case of UE context retrieval**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1092 rev 2 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Nokia, Nokia Shanghai Bell, Samsung, Ericsson, Lenovo, Qualcomm Incorporated, CATT, ZTE*

(Replaces R3-235740)

**Abstract:**

Endorsed CR #121bis

**Discussion:**

- update the ASN.1 based on the latest version of spec

**Decision:** The document was **revised to R3-237767**.

**R3-237767 Correction on multicast data forwarding in case of UE context retrieval**

*Type: CR For: Agreement  
 38.423 v17.6.0 CR-1092 rev 3 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Nokia, Nokia Shanghai Bell, Samsung, Ericsson, Lenovo, Qualcomm Incorporated, CATT, ZTE*

(Replaces R3-237126)

**Decision:** The document was **agreed**.

**R3-237127 Correction on Temp no data and DL data arrival for Activate Multicast Session**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0079 rev 2 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Samsung, CMCC, Ericsson, Lenovo, ZTE, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

(Replaces R3-235741)

**Abstract:**

Endorsed CR #121bis

**Discussion:**

- Update the Figure 8.6.1.4.2-1->Figure 8.6.2.X.2-1

**Decision:** The document was **revised to R3-237768**.

**R3-237768 Correction on Temp no data and DL data arrival for Activate Multicast Session**

*Type: CR For: Agreement  
 37.483 v17.6.0 CR-0079 rev 3 Cat: F (Rel-17)  
  
 Source: Huawei, CBN, Samsung, CMCC, Ericsson, Lenovo, ZTE, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell*

(Replaces R3-237127)

**Decision:** The document was **agreed**.

**R3-237128 Correction on Temp no data and DL data arrival for Activate Multicast Session**

*Type: CR For: Agreement  
 37.480 v17.1.0 CR-0005 rev 2 Cat: F (Rel-17)  
  
 Source: Lenovo, Huawei, ZTE, Nokia, Nokia Shanghai Bell*

(Replaces R3-235742)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237129 Correction of Paging with PEI**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Nokia, Nokia Shanghai Bell, ZTE, Huawei, Ericsson*

(Replaces R3-235779)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **endorsed**.

**R3-237130 Correction on SI delivery to RedCap UE**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1220 rev 2 Cat: F (Rel-17)  
  
 Source: ZTE, Huawei, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-235864)

**Abstract:**

Endorsed CR #121bis

**Discussion:**

- id\_DedicatedSIDeliveryIndication->id-DedicatedSIDeliveryIndication

- Update WI code: NR\_redcap-Core

**Decision:** The document was **revised to R3-237763**.

**R3-237763 Correction on SI delivery to RedCap UE**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1220 rev 3 Cat: F (Rel-17)  
  
 Source: ZTE, Huawei, Ericsson, Nokia, Nokia Shanghai Bell*

(Replaces R3-237130)

**Decision:** The document was **agreed**.

**R3-237131 Correction for HARQ Related Assistance Information in NR User Plane**

*Type: CR For: Agreement  
 38.425 v17.3.0 CR-0149 rev 2 Cat: F (Rel-18)  
  
 Source: Samsung, ZTE, China Telecom, CMCC, Lenovo, Qualcomm*

(Replaces R3-235877)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **agreed**.

**R3-237133 Support of preconfigured Measurement GAP**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1223 rev 3 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Inc., Nokia, Nokia Shanghai Bell, CATT, Huawei, ZTE*

(Replaces R3-235895)

**Abstract:**

Endorsed CR #121bis

**Discussion:**

- ASN.1 update: BWP-Location-and-bandwidth->bWP-Location-and-bandwidth, id-BWP-Id->ID id-BWP-Id

- bWP-Id BWP-Id,

**Decision:** The document was **revised to R3-237764**.

**R3-237764 Support of preconfigured Measurement GAP**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1223 rev 4 Cat: F (Rel-17)  
  
 Source: Ericsson, Qualcomm Inc., Nokia, Nokia Shanghai Bell, CATT, Huawei, ZTE*

(Replaces R3-237133)

**Decision:** The document was **agreed**.

**R3-237134 Support of oversize UL SDT Data Arrival [Large SDT Uplink Data]**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: ZTE, Nokia, Nokia Shanghai Bell, Huawei, Qualcomm Incorporated, CATT, LG Electronics, China Telecom, Samsung, Ericsson*

(Replaces R3-236008)

**Abstract:**

Technically endorsed #121

**Decision:** The document was **endorsed**.

**R3-237157 Introducing Report Amount for M4, M5, M6, M7 measurements for E-UTRAN [ReportAmount\_MDT\_E-UTRAN]**

*Type: CR For: Agreement  
 36.413 v17.5.0 CR-1876 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom, Orange, Ericsson*

(Replaces R3-231005)

**Abstract:**

Endorsed CR #119

**Decision:** The document was **agreed**.

**R3-237158 Introducing Report Amount for M4, M5, M6, M7 measurements for E-UTRAN [ReportAmount\_MDT\_E-UTRAN]**

*Type: CR For: Agreement  
 36.423 v17.6.0 CR-1688 rev 6 Cat: B (Rel-18)  
  
 Source: Huawei, Deutsche Telekom, Orange, Ericsson*

(Replaces R3-231006)

**Abstract:**

Endorsed CR #119

**Decision:** The document was **agreed**.

**R3-237159 Support 1-symbol PRS [1symbol\_PRS]**

*Type: CR For: Agreement  
 38.455 v17.5.0 CR-0102 rev 3 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, CMCC, Samsung, Huawei*

(Replaces R3-232669)

**Abstract:**

To be resubmitted when R18 spec is created. Endorsed CR #120

**Decision:** The document was **agreed**.

**R3-237160 Support 1-symbol PRS [1symbol\_PRS]**

*Type: CR For: Agreement  
 38.473 v17.6.0 CR-1167 rev 3 Cat: B (Rel-18)  
  
 Source: ZTE, CATT, Ericsson, Nokia, Nokia Shanghai Bell, CMCC, Samsung, Huawei*

(Replaces R3-232670)

**Abstract:**

To be resubmitted when R18 spec is created. Endorsed CR #120

**Decision:** The document was **agreed**.

**R3-237132 Introduction of new attributes “Resource Coordination Only” in ANR**

*Type: draftCR For: Agreement  
 38.300 v17.6.0  
 Source: Ericsson, ZTE, China Telecom, CATT, Huawei*

(Replaces R3-235884)

**Abstract:**

Endorsed CR #121bis

**Decision:** The document was **endorsed**.

## 32 Any other business

**Tdocs were marked as noted after checking the objection to note all contributions in case of all the ideas have been reflected to the online discussion.**

## 33 Closing of the meeting

3GPP TSG RAN WG3 Chair Ms. Yin GAO (ZTE) closed the f2f meeting RAN WG3 #122 on Friday November 17th, 2023 at 15:00 thanking the participants for the contributing to this meeting and the host ATIS and AF for organizing the meeting.