3GPP TSG-RAN WG2 Meeting #110-e [R2-2005731](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005731.zip)

**Electronic, 1 – 12 June 2020**

**Agenda Item: 8.1**

**Source: Vice Chairman (Nokia)**

**Title: Report on** **LTE legacy, LTE TEI16 and NR/LTE Rel-16 Mobility topics**

General

RAN2 110 electronic has full decision power, i.e. full decision power to make agreements and approvals according to RAN WG2 terms of reference, without any need to ratify decisions at a later RAN2 or other meeting.

Scope

R17 will not be handled. R16 and earlier will be handled, all tdoc types, see also instructions for each agenda item.

The specific objectives of this meeting includes to finish all open Rel-16 Work Items, to finish the Rel-16 ASN.1 review, and conclude the Rel-16 UE capabilities work.

Specific methodology

R2 110e is expected to be conducted by email and by web conferences by GoToWebinar, in three parallel sessions. To facilitate easy treatment, some AIs may be summarized in summary tdoc.

Tdoc Limitation for some R16 items

Tdoc Limitation applies as indicated for an Agenda Item for all types of documents. As usual Rapporteur input (email discussion, WI rapporteur, TS rapporteur, assigned CR editor, assigned summary rapporteur etc) do not count. Corrections acknowledged but not addressed/resolved in email discussion, or acknowledged by TS rapporteur also do not count. For RRC, for accepted RIL issues, the proponent company may provide a discussion doc with annex TP (if needed) that do not count towards the tdoc limitation. Note that Contributions should be reserved for more complicated issued and minor issues are expected to be resolved in RRC email discussions or by CR rapporteur without any tdoc.

Endorsed or in-principle agreed CRs

CRs that were endorsed or in-principle agreed at previous bis-meeting, need to be provided for final agreement at this meeting

Rel-16 CRs

CRs for ongoing Rel-16 WIs, that were started last meeting, possibly endorsed, are expected to be updated to include agreements from R2-110-e, before final approval.

Note: Time Budget Comments remain in this document only for reference. They are not applicable for R2 110e.

**List of offline email discussions:**

**NOTE: the email discussion deadlines are meant to allow at least all regions to have one day to comment (other than weekend) and also give rapporteurs time to update their proposals before the meeting)**

**Organizational**

* [AT110-e][200] Organizational Tero – LTE legacy, LTE Rel-16 and LTE/NR mobility

Scope:

* + - Share plans for the meetings and list of ongoing email discussions for the sessions
		- Share meetings notes and agreements for review and endorsement
		- Flag LSs for presentation

 Intended outcome (for LS discussion):

* + - General information sharing about the sessions

 Deadline for providing comments to LSs:

* + - Deadline: Friday 2020-06-12 1000 UTC

**LTE Legacy**

* [AT110-e#201][LTE] LTE Rel-15 TDD/FDD capability differentiation (Huawei)

Scope:

* + - Discuss the matter of Rel-15 TDD/FDD capability differentiation as per CRs in [R2-2005083](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005083.zip) and [R2-2005084](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005084.zip) (late Tdoc [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003841.zip)3 also submitted to further explain the details)
		- Determine what needs to be done and whether there are also earlier release capabilities for which differentiation is not clear.
		- Inform RAN1/4/P (exact groups TBD during discussion) about conclusions made on these.

 Intended outcome:

* + - Discussion summary in [R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip) (by email rapporteur)
		- If agreeable, LS to RANx (exact groups TBD) informing on the outcome of RAN2 in [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2005742.zip)2
		- Revised CRs (if agreeable, exact contents and release TBD during discussion)

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session
* [AT110-e][202][LTE15] LTE non-contiguous CA capabilities (Nokia)

Scope:

* + - Determine what can be agreed based on the Nokia CRs in [R2-2005186](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005186.zip), [R2-2005187](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005187.zip), [R2-2005188](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005188.zip), [R2-2005189](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005189.zip) and [R2-2005190](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005190.zip) and Huawei CRs in [R2-2005481](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005481.zip), [R2-2005482](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005482.zip), [R2-2005483](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005483.zip), [R2-2005484](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005484.zip), [R2-2005485](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005485.zip), [R2-2005486](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005486.zip) and [R2-2005487](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005487.zip)
		- Determine from which release onwards a correction should be provided

 Intended outcome:

* + - Discussion summary in [R2-2005744](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005744.zip) (by email rapporteur)
		- Agreeable CRs

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005744](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005744.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

* [AT110-e][203][LTE15] LTE legacy CRs (RAN2 VC)

Scope:

* + - Discuss which CRs under 4.5.1 (that are not handled in [201] or [202]) are agreeable and whether modifications are needed..

 Intended outcome:

* + - Discussion summary in [R2-2005747](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005747.zip) (by email rapporteur).
		- Agreeable CRs (by each CR proponent)

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005747](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005747.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

**LTE Rel-16**

* [AT110-e#204][LTE] Handling of SA5 LS replies on QoE Measurement Collection (Ericsson)

Scope:

* + - Discuss the LS replies received from SA5 in [R2-2004381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004381.zip) and [R2-2004382](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004382.zip)
		- Discuss the input documents in [R2-2004623](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004623.zip) and [R2-2005385](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005385.zip) to determine what RAN2 needs to do
		- Discuss whether to send reply LS to SA5 (CC: TBD) and, if agreeable, provide updated LS according to discussion in

 Intended outcome:

* + - Discussion summary in [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2005741.zip)8 (by email rapporteur)
		- If agreeable, LS to RANx (exact groups TBD) informing on the outcome of RAN2 in [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2005742.zip)9

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session
* [AT110-e#205][LTE] LTE contributions in AIs 7.6, 7.8 and 7.9 (RAN2 VC)

Scope:

* + - Handle the contributions in AIs 7.6.0, 7.8 and 7.9

 Intended outcome:

* + - Discussion summary in [R2-2005750](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005750.zip) (by email rapporteur)

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline for companies' feedback: Thursday 2020-06-04 10:00 UTC
		- Initial deadline for rapporteur's summary in [R2-2005750](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005750.zip): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

**LTE/NR ASN.1 review**

* [AT110-e][206][LTE ASN1] LTE general ASN.1 discussion (Samsung)

Scope:

* + - Flag issues to be discussed online (including specifics of each issue)

 Intended outcome:

* + - Discussion summary (including list of flagged topics and proposed resolutions) in [R2-2005752](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005752.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Wednesday 2020-06-03 11:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005752](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005752.zip)): Thursday 2020-06-04 11:00 UTC
		- Whether to continue the discussion after this TBD during Thursday 2020-06-04 online session

**NR Mobility**

* [AT110-e][207][NR MOB] ASN.1 review for NR mobility (Intel)

Scope:

* + - Flag issues with proposed resolution to ASN.1 review issues as per [R2-2004661](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004661.zip) in and [R2-2004672](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004672.zip) for online discussion.

 Intended outcome:

* + - Discussion summary in [R2-2005751](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005751.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - Deadline for flagging: Tuesday 2020-06-02 08:00 UTC
		- Deadline for rapporteur's summary of flagging (in [R2-2005751](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005751.zip)): Tuesday 2020-06-02 13:00 UTC

**LTE/NR Mobility**

* [AT110-e][208][LTE/NR MOB] User plane issues for DAPS (NN)

Scope:

* + - Discuss issues remaining after DAPS UP session (TBD if needed)

 Intended outcome:

* + - Discussion summary in [R2-2005753](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005753.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - TBD
* [AT110-e][209][MOB] CHO and CPC issues (NN)

Scope:

* + - Discuss the contributions [R2-2005344](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005344.zip), [R2-2005682](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005682.zip), [R2-2005681](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005681.zip), [R2-2005380](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005380.zip), [R2-2005456](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005456.zip) in AI 6.9.2 and the contributions [R2-2005345](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005345.zip), [R2-2005381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005381.zip), [R2-2005279](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005279.zip) in AI 6.9.3
		- Determine what (if anything) can be agreed based on the handled contributions

 Intended outcome:

* + - Discussion summary in [R2-2005754](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005754.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Friday 2020-06-05 10:00 UTC
		- Deadline for rapporteur's summary (in [R2-2005754](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005754.zip)): Monday 2020-06-08 16:00 UTC

**CR finalization**

* [AT110-e][210][NR MOB] NR RRC CR (Intel)

Scope:

* + - NR RRC CR capturing NR DAPS, NR CHO and CPC changes agreed in this meeting

Intended outcome:

* + - Agreed 38.331 CR in [R2-2005755](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005755.zip)

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC
* [AT110-e][211][LTE MOB] RRC CR (Ericsson)

Scope:

* + - LTE RRC CR capturing LTE DAPS, LTE CHO and NR CPC changes agreed in this meeting

Intended outcome:

* + - Agreed 36.331 CR for LTE and NR mobility in [R2-2005757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005757.zip)

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC
* [AT110-e][212][MOB] PDCP CRs for LTE and NR (Huawei)

Scope:

* + - PDCP CRs for LTE and NR DAPS corrections agreed in this meeting

Intended outcome:

* + - Agreed CR to 38.323 CR in [R2-2005758](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005758.zip) for NR PDCP changes agreed in this meeting
		- Agreed CR to 36.323 in [R2-2005759](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005759.zip) for LTE PDCP changes agreed in this meeting

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC
* [AT110-e][213][MOB] MAC CRs for LTE and NR (vivo)

Scope:

* + - MAC CRs for LTE and NR DAPS corrections agreed in this meeting

Intended outcome:

* + - Agreed CR to 38.321 CR in [R2-2005760](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005760.zip) for NR MAC changes agreed in this meeting
		- Agreed CR to 36.321 in [R2-2005761](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005761.zip) for LTE MAC changes agreed in this meeting

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC
* [AT110-e][214][MOB] UE capability CRs for NR mobility (Intel)

Scope:

* + - 38.306 and 38.331 CRs for LTE capabilities based on agreements in this meeting

Intended outcome:

* + - Agreed CR to 38.331 CR in [R2-2005762](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005762.zip) for NR UE capability signalling
		- Agreed CR to 38.306 in [R2-2005763](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005763.zip) for NR capability descriptions

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC
* [AT110-e][215][MOB] UE capability CRs for LTE mobility (China Telecom)

Scope:

* + - 36.306 and 36.331 CRs for LTE capabilities based on agreements in this meeting

Intended outcome:

* + - Agreed CR to 38.331 CR in [R2-200576](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip)4 for LTE UE capability signalling
		- Agreed CR to 36.306 in [R2-200576](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip)5 for LTE capability descriptions

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC
* [AT110-e][216][LTE] LTE Stage-2 updates (China Telecom)

Scope:

* + - Correct Stage-2 text to be according to agreements. Improvements over parts discussed online should also be considered.

Intended outcome:

* + - Agreed CR to 36.300 CR in [R2-2005756](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip) for LTE UE capability signalling

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

**Post-meeting email discussions**

* [Post110-e][LTE/NR] XXX CR (Company)

 Intended outcome: Outcome

 Deadline: 1-week

* [Post110-e][LTE/NR] Title (Company)

 Intended outcome: Outcome

 Deadline: 1-week/Short/Long

**Web conference schedule**

Sessions handled by this document highlighted

|  |  |  |  |
| --- | --- | --- | --- |
| **Time ZoneUTC** | **Web Conference R2 NR RRC** | **Web Conference R2 NR Other** | **Web Conference R2 BO2** |
| **Tuesday 2** |  |  |  |
| 13:30 – 15:00 | [6.9.5] NR & LTE mobility enhancements NR RRC (Tero)*- LTE/NR mobility organizational [6.9.1, 7.3.1]**- LTE/NR UE capability input from RAN1/4 [6.9.4, 7.3.3]**- LTE/NR mobility ASN.1 review [ 7.3.4, 6.9.5]* | Power saving [6.11.1] General, [6.11.2] UP and [6.11.4] RRM (Diana) | [6.4] NR V2X (Kyeongin) (can treat RRC as well) |
| **Wednesd 3** |  |  |   |
| 13:30 – 15:00 | [6.2.3] NR-U CP RRC aspects (Diana)[6.11.3] PowSav CP RRC aspects (Diana)[6.13.3] 2-step CP RRC aspects (Diana) | TBD: [5] NR corrections (Johan) or [6.0.2] NR UE capabilities (Johan) | [6.9][7.3] NR & LTE mobility enhancements non-RRC (Tero)*- DAPS UP [6.9.6, 7.3.2]**- LTE mobility other [7.3.5]* |
| **Thursday 4** |  |  |  |
| 13:30 – 15:00 | [6.8.2.2] NR Pos RRC corrections, [6.21] On demand SI in connected (Nathan) | TBD: [6.1] IAB non-RRC (Johan) or [6.0.2] NR UE capabilities | [7.0.1] LTE ASN.1 review (Tero)*[7.0.2] LTE UE features (if needed)* |
| **Friday 5** |  |  |  |
| 03:30-05:00 | [6.7.2.2] IIOT RRC [6.22.2] URLLC RRC (Johan) | [4.4][5.4][6.8][7.7][6.20] Positioning (Nathan) | [4.5][7] EUTRA misc (Tero)*- LTE legacy and Rel-16 [4.5.1, 7.5.1, 7.6.1, 7.8, 7.9]* |
| **Tuesday 9** |  |  |  |
| 13:00 – 14:30 | [6.15.2][6.16.2][6.18.2] RRC aspects (Sergio)  | [6.20] TEI16 (Johan), [6.19] other (Johan) if needed | [7.0.1] LTE ASN.1 review (Tero) |
| 14:30 – 16:00 | [6.9.5] NR & LTE mobility enhancements NR RRC (Tero) *- UE capabilities for LTE/NR mobility [6.9.4, 7.3.3]**- Any remaining ASN.1 review topics [7.3.4, 6.9.5]* | TBD (Johan) | TBD [6.4] NR V2X |

# 4 EUTRA corrections Rel-15 and earlier

See Appendix A for reference to Work items, work item codes and WIDs.

Only essential corrections. No documents should be submitted to 4. Please submit to 4.x

## 4.5 Other LTE corrections Rel-15 and earlier

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

### 4.5.0 In-principle agreed CRs

### 4.5.1 Other

By Email

Rel-15: TDD/FDD capabilty differentiation:

[R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003841.zip)3 [AT110-e#201][LTE] LTE Rel-15 TDD/FDD capability differentiation [Pre-meeting] Huawei, HiSilicon discussion Rel-15 TEI15 Late

R2-2005083 Correction to the LTE Rel-15 TDD/FDD capability differentiation Huawei, HiSilicon CR Rel-15 36.331 15.9.0 4304 - F TEI15

[R2-2005084](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005084.zip) Correction to the LTE Rel-15 TDD/FDD capability differentiation Huawei, HiSilicon CR Rel-16 36.331 16.0.0 4305 - A TEI15

* All of above handled in offline email discussion [202]

Offline email discussion [201] scope:

* [AT110-e#201][LTE] LTE Rel-15 TDD/FDD capability differentiation (Huawei)

Scope:

* + - Discuss the matter of Rel-15 TDD/FDD capability differentiation as per CRs in [R2-2005083](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005083.zip) and [R2-2005084](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005084.zip) (late Tdoc [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003841.zip)3 also submitted to further explain the details)
		- Determine what needs to be done and whether there are also earlier release capabilities for which differentiation is not clear.
		- Inform RAN1/4/P (exact groups TBD during discussion) about conclusions made on these.

 Intended outcome:

* + - Discussion summary in [R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip) (by email rapporteur)
		- If agreeable, LS to RANx (exact groups TBD) informing on the outcome of RAN2 in [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2005742.zip)2
		- Revised CRs (if agreeable, exact contents and release TBD during discussion)

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

By Web Conf (Friday June 5th)

[R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip) Summary of discussion [201] on missing TDD/FDD differentiation in LTE (Huawei) Huawei discussion TEI15 Late

[R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2004625.zip)2 Draft LS on missing TDD/FDD differentiation in LTE Huawei LS out Rel-15 TEI15 To:RAN1, RAN4, RAN Late

By Email

Rel-10/12: Non-contiguous Intra-band CA capabilities:

R2-2005186 Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-12 36.331 12.18.0 4247 1 F LTE\_CA-Core, TEI12 [R2-2003147](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003147.zip)

[R2-2005187](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005187.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-13 36.331 13.15.0 4248 1 A LTE\_CA-Core, TEI12 [R2-2003148](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003148.zip)

[R2-2005188](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005188.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-14 36.331 14.14.0 4249 1 A LTE\_CA-Core, TEI12 [R2-2003149](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003149.zip)

[R2-2005189](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005189.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 36.331 15.9.0 4250 1 A LTE\_CA-Core, TEI12 [R2-2003150](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003150.zip)

[R2-2005190](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005190.zip) Clarification to UE capabilities for non-contiguous intra-band CA Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-16 36.331 16.0.0 4251 1 A LTE\_CA-Core, TEI12 [R2-2003151](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003151.zip)

[R2-2005481](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005481.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-10 36.331 10.22.0 4327 - F LTE\_CA-Core

[R2-2005482](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005482.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-11 36.331 11.19.0 4328 - A LTE\_CA-Core

[R2-2005483](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005483.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-12 36.331 12.18.0 4329 - F LTE\_CA-Core

[R2-2005484](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005484.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-13 36.331 13.15.0 4330 - F LTE\_CA-Core

[R2-2005485](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005485.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-14 36.331 14.14.0 4331 - A LTE\_CA-Core

[R2-2005486](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005486.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-15 36.331 15.9.0 4332 - A LTE\_CA-Core

[R2-2005487](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005487.zip) Clarification on UE capability for intra-band non-continuous CA Huawei, Hisilicon CR Rel-16 36.331 16.0.0 4333 - A LTE\_CA-Core

* All of above handled in offline email discussion [202]

Offline email discussion [202] scope:

* [AT110-e][202][LTE15] LTE non-contiguous CA capabilities (Nokia)

Scope:

* + - Determine what can be agreed based on the Nokia CRs in [R2-2005186](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005186.zip), [R2-2005187](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005187.zip), [R2-2005188](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005188.zip), [R2-2005189](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005189.zip) and [R2-2005190](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005190.zip) and Huawei CRs in [R2-2005481](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005481.zip), [R2-2005482](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005482.zip), [R2-2005483](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005483.zip), [R2-2005484](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005484.zip), [R2-2005485](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005485.zip), [R2-2005486](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005486.zip) and [R2-2005487](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005487.zip)
		- Determine from which release onwards a correction should be provided

 Intended outcome:

* + - Discussion summary in [R2-2005744](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005744.zip) (by email rapporteur)
		- Agreeable CRs

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005744](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005744.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

By Web Conf (Friday June 5th)

[R2-2005744](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005744.zip) Summary of discussion [202] on non-contigous CA capabilities (Nokia) Nokia discussion LTE\_CA-Core Late

By Email

Rel-12: Correction to T312:

[R2-2005351](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005351.zip) Correction on t312 timer information ZTE Corporation, Sanechips CR Rel-12 36.331 12.18.0 4316 - F HetNet\_eMOB\_LTE-Core

[R2-2005352](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005352.zip) Correction on t312 timer information ZTE Corporation, Sanechips CR Rel-13 36.331 13.15.0 4317 - A HetNet\_eMOB\_LTE-Core

[R2-2005353](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005353.zip) Correction on t312 timer information ZTE Corporation, Sanechips CR Rel-14 36.331 14.14.0 4318 - A HetNet\_eMOB\_LTE-Core

[R2-2005354](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005354.zip) Correction on t312 timer information ZTE Corporation, Sanechips CR Rel-15 36.331 15.9.0 4319 - A HetNet\_eMOB\_LTE-Core

[R2-2005355](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005355.zip) Correction on t312 timer information ZTE Corporation, Sanechips CR Rel-16 36.331 16.0.0 4320 - A HetNet\_eMOB\_LTE-Core

* Handled in offline email discussion [203]

Rel-13: HARQ-ACK codebook capabilities for more than 5CCs:

[R2-2005191](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005191.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-13 36.306 13.12.0 1747 1 F LTE\_CA\_enh\_b5C-Core [R2-2003152](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003152.zip)

[R2-2005192](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005192.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-14 36.306 14.11.0 1748 1 A LTE\_CA\_enh\_b5C-Core [R2-2003153](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003153.zip)

[R2-2005193](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005193.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-15 36.306 15.8.0 1749 1 A LTE\_CA\_enh\_b5C-Core [R2-2003154](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003154.zip)

[R2-2005194](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005194.zip) Clarification on codebook-HARQ-ACK-r13 capability for CA with more than 5CCs Nokia, Nokia Shanghai Bell, Qualcomm Incorporated CR Rel-16 36.306 16.0.0 1750 2 A LTE\_CA\_enh\_b5C-Core [R2-2003859](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003859.zip)

* Handled in offline email discussion [203]

Rel-14: PDU generation for latency reduction:

[R2-2005551](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005551.zip) PDU generation for UL spatial multiplexing ASUSTeK discussion Rel-15 LTE\_LATRED\_L2-Core, TEI14

[R2-2005552](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005552.zip) Correction on PDU generation for UL spatial multiplexing ASUSTeK CR Rel-14 36.321 14.12.0 1480 - F LTE\_LATRED\_L2-Core, TEI14

[R2-2005553](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005553.zip) Correction on PDU generation for UL spatial multiplexing ASUSTeK CR Rel-15 36.321 15.8.0 1481 - A LTE\_LATRED\_L2-Core, TEI14

[R2-2005554](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005554.zip) Correction on PDU generation for UL spatial multiplexing ASUSTeK CR Rel-16 36.321 16.0.0 1482 - A LTE\_LATRED\_L2-Core, TEI14

* Handled in offline email discussion [203]

Rel-15: SRB duplication:

[R2-2004407](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004407.zip) Correction on SRB duplication OPPO, LG Electronics CR Rel-15 36.323 15.5.0 0280 1 F LTE\_HRLLC [R2-2002619](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2002619.zip)

[R2-2004408](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004408.zip) Correction on SRB duplication OPPO, LG Electronics CR Rel-16 36.323 16.0.0 0281 1 A LTE\_HRLLC [R2-2002620](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2002620.zip)

* Handled in offline email discussion [203]

Rel-15: Correction to AUL HARQ processes:

[R2-2005678](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005678.zip) Correction of AUL HARQ process ASUSTeK CR Rel-15 36.331 15.9.0 4340 - F LTE\_unlic-Core

* Handled in offline email discussion [203]

Rel-16 shadow of above (if needed, according to conclusion of [203])

[R2-2005745](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005745.zip) Correction of AUL HARQ process ASUSTeK CR Rel-16 36.331 16.0.0 XXXX - F LTE\_unlic-Core

Rel-15: Minor RRC corrections:

[R2-2005283](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005283.zip) Minor changes collected by Rapporteur Samsung Telecommunications CR Rel-15 36.331 15.9.0 4314 - F MBMS\_LTE\_enh2-Core, TEI15 [R2-2003233](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003233.zip) Late

*(moved from 4.5)*

=> Revised in [R2-2005995](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005995.zip)

[R2-2005995](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005995.zip) Minor changes collected by Rapporteur Samsung Telecommunications CR Rel-15 36.331 15.9.0 4314 1 F MBMS\_LTE\_enh2-Core, TEI15 Late

*(moved from 4.5)*

* Handled in offline email discussion [203]

Rel-16 shadow of above (if needed, according to conclusion of [203])

[R2-2005746](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005746.zip) Minor changes collected by Rapporteur Samsung Telecommunications CR Rel-15 36.331 16.0.0 XXXX - A MBMS\_LTE\_enh2-Core, TEI15 [R2-2003233](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003233.zip) Late

Offline email discussion [203] scope:

* [AT110-e][203][LTE15] LTE legacy CRs (RAN2 VC)

Scope:

* + - Discuss which CRs under 4.5.1 (that are not handled in [201] or [202]) are agreeable and whether modifications are needed..

 Intended outcome:

* + - Discussion summary in [R2-2005747](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005747.zip) (by email rapporteur).
		- Agreeable CRs (by each CR proponent)

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005747](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005747.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

By Web Conf (Friday June 5th)

[R2-2005747](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005747.zip) Summary of discussion [203] on LTE contributions in AI 4.5 Nokia (RAN2 VC) discussion HetNet\_eMOB\_LTE-Core, LTE\_CA\_enh\_b5C-Core, LTE\_LATRED\_L2-Core, TEI14, LTE\_HRLLC, LTE\_unlic-Core, MBMS\_LTE\_enh2-Core, TEI15 Late

# 6 Rel-16 NR Work Items

## 6.9 NR mobility enhancements

(NR\_Mob\_enh-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 20; WID: RP-192277). Documents in this agenda item will be handled in a break out session

No documents should be submitted to 6.9. Documents under 6.9 will be treated together with documents in 7.3.

A web conference may be used for handling some of the discussions in this WI, and summary document may be provided for some agenda items under 6.9.

### 6.9.1 Organisational

Including incoming LSs, running CRs, rapporteur inputs, etc.

Including outcome of [Post109bis-e][927][NR MOB] Stage-2 CR (Intel).

By Web Conf (Tuesday June 2nd)

[R2-2004355](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004355.zip) LS on Simultaneous reception of DL signals in intra-frequency DAPS HO (R1-2003058; contact: Intel) RAN1 LS in Rel-16 NR\_Mob\_enh-Core To:RAN4 Cc:RAN2

=> Noted

[R2-2004662](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004662.zip) Corrections on NR mobility enhancements (109b-927) Intel Corporation CR Rel-16 38.300 16.1.0 0230 - F NR\_Mob\_enh-Core

* Email discussion [927] outcome
* Agreed

Additional Stage-2 corrections:

[R2-2004518](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004518.zip) Corrections to Mobility Enhancements Nokia, Intel Corporation (Rapporteurs) CR Rel-16 38.300 16.1.0 0211 2 F NR\_Mob\_enh-Core [R2-2003857](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003857.zip)

* Nokia clarifies this is the IPA CR but with some additional clean-up – no functional changes.
* Agreed

Updated version of IPA RRC from RAN2#109bis-e:

[R2-2004670](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004670.zip) Corrections on NR mobility enhancements Intel Corporation CR Rel-16 38.331 16.0.0 1591 1 F NR\_Mob\_enh-Core [R2-2003850](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003850.zip)

- Intel explains there are only some editorials compared to previous version.

Not treated

Text enhancements:

[R2-2004914](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004914.zip) Correction on CHO failure handling OPPO CR Rel-16 38.300 16.1.0 0234 - F NR\_Mob\_enh-Core

*(moved from 6.9.2)*

By Email

Offline email discussion [210] scope:

* [AT110-e][210][NR MOB] NR RRC CR (Intel)

Scope:

* + - NR RRC CR capturing NR DAPS, NR CHO and CPC changes agreed in this meeting

Intended outcome:

* + - Agreed 38.331 CR in [R2-2005755](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005755.zip)

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

[R2-2005755](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005755.zip) Corrections to Rel-16 NR mobility enhancement Intel Corporation CR Rel-16 38.331 16.0.0 XXXX F NR\_Mob\_enh-Core

### 6.9.2 Conditional handover

This AI jointly addresses corrections to NR and LTE CHO.

All RRC-related corrections to CHO should be submitted to ASN.1 review agenda items in 6.9.5 (NR RRC) and 7.3.4 (LTE RRC).

Tdoc Limitation per company: 1 tdoc.

By Email

Stage-2 corrections, including CHO evaluation condition stopping during legacy HO:

R2-2005344 On stopping evaluating execution condition once triggering the legacy HO ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005682](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005682.zip) CHO Evaluating Handling during Legacy HO LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core

*(moved from 6.9.6)*

[R2-2005681](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005681.zip) Stage 2 CR for CHO Evaluating Handling during Legacy HO LG Electronics Inc. CR Rel-16 38.300 16.1.0 0242 - F NR\_Mob\_enh-Core

* Handled in email discussion [209]

Other topics:

[R2-2005380](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005380.zip) Discussion on leftovers for CHO Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core, NR\_Mob\_enh-Core [R2-2003577](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003577.zip)

[R2-2005456](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005456.zip) Further consideration on CHO in MR-DC operation CMCC discussion Rel-16 NR\_Mob\_enh-Core

* Handled in email discussion [209]

Offline email discussion [209] scope:

* [AT110-e][209][LTE/NR MOB] CHO and CPC issues (Nokia)

Scope:

* + - Discuss the contributions [R2-2005344](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005344.zip), [R2-2005682](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005682.zip), [R2-2005681](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005681.zip), [R2-2005380](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005380.zip), [R2-2005456](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005456.zip) in AI 6.9.2 and the contributions [R2-2005345](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005345.zip), [R2-2005381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005381.zip), [R2-2005279](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005279.zip) in AI 6.9.3
		- Determine what (if anything) can be agreed based on the handled contributions

 Intended outcome:

* + - Discussion summary in [R2-2005754](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005754.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Friday 2020-06-05 10:00 UTC
		- Deadline for rapporteur's summary (in [R2-2005754](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005754.zip)): Monday 2020-06-08 16:00 UTC

By Web Conf (Tuesday June 9th)

[R2-2005754](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005754.zip) Summary of discussion [209] on CHO/CPC Nokia discussion Late

### 6.9.3 Conditional PSCell change for intra-SN

Including corrections for CPC.

Including outcome of [Post109bis-e][929][NR MOB] Stage-2 CR for CPC (CATT)

Tdoc Limitation per company: 1 tdoc

By Web Conf (Tuesday June 9th)

Outcome of [Post109bis-e][929][NR MOB] Stage-2 CR for CPC (CATT)

[R2-2005071](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005071.zip) Introduction of Conditional PSCell Change for intra-SN without MN involvement CATT draftCR Rel-16 37.340 16.1.0 F NR\_Mob\_enh-Core Late

* Email discussion [929] outcome

By Email

Miscellaneous issues for CPC:

R2-2005345 Remaining issues for CPC ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

* Handled in email discussion [209]

Optimizations requiring reversal or change in previous agreements:

[R2-2005381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005381.zip) Discussion on leftovers for CPC Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core, NR\_Mob\_enh-Core

[R2-2005279](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005279.zip) Corrections on procedure for CPC complete Futurewei discussion Rel-16 NR\_Mob\_enh-Core

* Handled in email discussion [209]

### 6.9.4 UE capabilities for conditional handover, fast handover failure recovery and conditional PSCell change

This AI jointly addresses UE capabilities for features in the NR mobility WI (i.e. DAPS, CHO, CPC, T312). Any input on UE capabilities from RAN1/4 will be handled in this agenda item.

Including outcome of [Post109bis-e][930][NR MOB] UE capabilities for NR mobility (Intel).

Tdoc Limitation per company: 1 tdoc

By Email

Offline email discussion [214] scope:

* [AT110-e][214][MOB] UE capability CRs for NR mobility (Intel)

Scope:

* + - 38.306 and 38.331 CRs for LTE capabilities based on agreements in this meeting

Intended outcome:

* + - Agreed CR to 38.331 CR in [R2-2005762](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005762.zip) for NR UE capability signalling
		- Agreed CR to 38.306 in [R2-2005763](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005763.zip) for NR capability descriptions

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

[R2-2005762](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005762.zip) UE Capability for Rel-16 NR mobility enhancement Intel Corporation CR Rel-16 38.331 16.0.0 XXXX B NR\_Mob\_enh-Core

[R2-2005763](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005763.zip) UE Capability for Rel-16 NR mobility enhancement Intel Corporation CR Rel-16 38.306 16.0.0 XXXX B NR\_Mob\_enh-Core

By Web Conf (Wednesday June 3rd or Tuesday June 9th)

Outcome of [Post109bis-e][930][NR MOB] UE capabilities for NR mobility (Intel):

[R2-2004663](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004663.zip) [109b#930] UE capabilities for NR mobility Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core

DAPS-related proposals in the general UE capability discussion [963]:

[R2-2005311](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005311.zip) Report of email discussion [Post109bis-e][963][NR16] UE capabilities Intel Corporation, NTT DoCoMo discussion Rel-16 NR\_UE\_pow\_sav, NR\_IAB-Core, NR\_eMIMO-Core, NR\_IIOT-Core, NR\_2step\_RACH-Core, 5G\_V2X\_NRSL-Core, NR\_Mob\_enh-Core, NR\_pos-Core, NR\_unlic-Core, LTE\_NR\_DC\_CA\_enh-Core, NR\_SON\_MDT-Core, NR\_CLI\_RIM, NG\_RAN\_PRN-Core, TEI16, NR\_L1enh\_URLLC-Core Late

- Intel clarifies these are mainly due to RAN1/4 decisions.

- Intel also now thinks P12 is not correct for number of TAGs – since we only have source/targe PCell, no need for additional TAGs. UE needs to support source and target TAGs (=2 TAGs) but not more. If UE supports only one TAG, it only supports collocated case.

- Qualcomm thinks the TAG has to be mandatory for all UEs supporting DAPS. This was not clear in LTE CA, which caused problems.

- MediaTek thinks we don’t need single- and multi-UL capabilities. Intel clarifies RAN2 allowed single UL earlier, this intends to allow multiple UL in addition. LGE wonders if the same applies for sync and async DAPS – is sync the baseline and async optional?

- Huawei agrees single UL and sync can be the default UE capabilities.

- Ericsson thinks we could just reuse legacy TAG capability.

- Intel clarifies we agreed TAG support is mandatory, but RAN4 wants different capabilities for intra- and inter-frequency DAPS.

- OPPO wonders if we ever discussed collocated case for intra-frequency DAPS? Thinks UE would always support two TAGs for intra-frequency case. Intel clarifies TAG=1 means TA value is the same for source and target. This comes from RAN4. OPPO thinks typical mobility scenario is between two nodes. Intel thinks 2 TAGs is mandatory with IOT bit.

- vivo wonders why the intra-frequency is per band, per BC, could be per band. Intel clarifies per BC is needed since different combinations use different BW classes. It’s also more future-proof.

**Agreements (NR)**

12a introduce separate capabilities for intraFreq and interFreq as below:

 Per Band/per BC (for intraFreq capabilities), I.e. put under BandParameters-v16xy:

 intraFreqDiffSCS-DAPS-r16;

 intraFreqAsyncDAPS-r16

 intraFreqMultiUL-TransmissionDAPS-r16

Per BC (for interFreq capabilities), i.e. put under CA-ParametersNR-v16xy:

 interFreqDiffSCS-DAPS-r16

 interFreqAsyncDAPS-r16

 interFreqMultiUL-TransmissionDAPS-r16.

12b All UEs supporting DAPS support these capabilities (can discuss signalling details and naming):

 SyncDAPS-r16

 SingleUL-TransmissionDAPS-r16

 intraFreqTwoTAGs-DAPS-r16 (with 2 TAGs)

 (for interFreq since RAN2 agreed to “Reuse CA capability “supportedNumberTAG” for DAPS handover.)

8a Remove UplinkPowerSharingDAPS-HO

8b Add separate capabilities for 21-2, 21-2a, 21-2b as semiStaticPowerSharingDAPS-Mode1, semiStaticPowerSharingDAPS-Mode2 and dynamicPowersharingDAPS.

8c RAN2 thinks that these apply only for multiple UL supporting UEs,

10 Remove pdcch-BlindDetectionSource and pdcch-BlindDetectionTarget from RAN2 agreed capabilities.

11 Add syncDAPS and simultaneous UL transmission based on RAN4 latest capability table.

13 Introduce separate capabilities for intraFreq and interFreq for power sharing capabilities.

* Wait for RAN1 conclusion on ul-TransCancellationDAPS.

[R2-2004664](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004664.zip) UE Capability for Rel-16 NR mobility enhancement Intel Corporation draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

[R2-2004665](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004665.zip) UE Capability for Rel-16 NR mobility enhancement Intel Corporation draftCR Rel-16 38.306 16.0.0 F NR\_Mob\_enh-Core

NR DAPS capabilities:

[R2-2005061](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005061.zip) Discussion on UE capabilities for NR DAPS Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

*Proposal 1: remove singleUL-TransmissionDAPS-r16 in baseline TP.*

*Proposal 2: specify separate UE capabilities for all three power sharing modes.*

*Proposal 3: remove pdcch-BlindDetectionDAPS-r16 in baseline TP.*

*Proposal 4: Add separate supportedNumberTAG UE capability for intra-frequency DAPS handover.*

Additional input on CHO and CPC capabilities:

[R2-2005160](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005160.zip) UE capabilities for Mobility Enhancements WI Nokia, Nokia Shanghai Bell discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005457](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005457.zip) Discussion on the maxinum CPC candidates CMCC discussion Rel-16 NR\_Mob\_enh-Core

*(moved from 6.9.3)*

[R2-2004917](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004917.zip) Discussion on UE capability for CHO and CPC OPPO discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005684](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005684.zip) Consideration on Conditional mobility capability LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core [R2-2002902](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2002902.zip)

### 6.9.5 ASN.1 review of mobility WIs for NR RRC

This agenda item focuses on NR RRC aspects of NR mobility W – LTE RRC aspects of both LTE and NR mobility WIs should be submitted to 7.3.4. Do not submit contributions on WI-specific open issues that are not captured in the current NR RRC to this agenda item.

All ASN.1 issues should be raised in RILs first – contributions where no RIL issue exists may not be treated.

Including contributions/TPs on RRC corrections based on review issues. For these, no individual company CRs should be submitted: please consult with the rapporteur of NR RRC CR first (yi.guo@intel.com).

By Email

Offline email discussion [207] scope:

* [AT110-e][207][NR MOB] ASN.1 review for NR mobility (Intel)

Scope:

* + - Flag issues with proposed resolution to ASN.1 review issues as per [R2-2004661](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004661.zip) in and [R2-2004672](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004672.zip) for online discussion.

 Intended outcome:

* + - Discussion summary in [R2-2005751](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005751.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - Deadline for flagging: Tuesday 2020-06-02 08:00 UTC
		- Deadline for rapporteur's summary of flagging (in [R2-2005751](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005751.zip)): Tuesday 2020-06-02 13:00 UTC

By Web Conf (Tuesday June 2nd)

[R2-2005751](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005751.zip) Summary of discussion [207] on NR mobility ASN.1 review Intel discussion Late

***3.1 Proposal on Phase 1 class 2 RIL issues:***

***To approve:***

**Bulk agreement**

I103: Agree I103 to add “2> release source PCell configuration;”in 5.3.5.3.

I107: Agree I107, to combine the conditions “If any DAPS bearer is configured:” and “2> for each SRB:” together in 5.3.5.6.3:

I109: Agree I109, to remove “the S-KgNB key, the S-KeNB key,” from 5.3.5.8.3:

I111: Agree I111 to add the field description for configRestrictInfoDAPS: “Includes fields for which souce cell explictly indicates the restriction to be observed by target cell during DAPS handover.”

***Online discussion:***

**I101:**

- LGE would like to leave the existing text as it is. Intel clarifies that procedural text already captures this. Nokia agrees.Huawei thinks it’s not clear that UE performs CHO failure handling if all entries have been removed.

I105:

- CATT thinks the text clarified that this applies to PCell only, not CPC. Intel thinks network only configures the attemptCondReconfig is CHO is configured, so there’s no ambiguity. LGE agres wuith CATT. OPPO thinks the sentence could be reworded.

**Agreements**

I101: Agree I101 to remove the note “This step is performed so the UE only performs conditional reconfiguration execution while timer T311 is running once for a given failure detection .” from 5.3.5.3.

I105: Agree I105, to move the NOTE3 together with Note 1, 2 in 5.3.5.5.2:

I100: Change to ConcReject.

Rest are discussed later on

**????**

*Proposal on I104: to discuss whether to clarify same configuration is the configuration from the same DRB in 5.3.5.5.2:*

*3> establish an RLC entity or entities for the target, with the same configurations of the same DRB as for the source;*

*3> establish the logical channel for the target PCell, with the same configurations of the same DRB as for the source;*

*Proposal on S303: Agree S303:Use Cond PCell for field attemptCondReconfig-r16 with*

*Alt 1 “The field is optional present, need N, if conditionalReconfiguration is added for CHO. Otherwise the field is not present.” Or*

*Al2 “The field is optional present in Reconfiguration message embedded in condRRCReconfig that concerns PCell, need N. Otherwise the field is not present.”*

***3.2 Proposal on Phase 2 class 2/3 RIL issues:***

**Bulk Agreement**

Proposal on Z274: PropAgree2. To capture the changes based on Z274.

Proposal on E231: PropAgree2.

Proposal on M201: follow RRC Rapporteur’s view, i.e. PropAgree2.

Proposal on Z275: PropAgree2. To capture the changes based on Z275.

Proposal on H458: PropReject2.

Proposal on Z276: PropAgree2. But double check the proposed changes.

Proposal on G103: PropReject2.

Proposal on J031: PropReject2.

Proposal on B105: PropReject2.

Proposal on E038: PropReject2.

Proposal on B107: Not related to MOB WI.

Proposal on H455: PropReject2.

Proposal on Z278: CPC cannot be configure in PSCell change command.

Proposal on C210: leave the discussion to SON/MDT WI.

Proposal on S309: PropAgree2.

Proposal on S305: PropReject2.

Proposal on E234: PropAgree2.

Proposal on O201: PropReject2.

Proposal on H462: PropAgree2.

Proposal on X007: PropReject2.

Proposal on S308: PropReject2.

***Online discussion:***

*Proposal on J030: PropReject2.* [*R2-2005430*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005430.zip)

*Proposal on G104: PropReject2.* [*R2-2005529*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005529.zip)

*Proposal on I113: Remove the below EN, and keep current CR as it is.*

 *Editor's note: It is FFS if the whole handling on release of spcellConfig, MCG SCells, etc shall be moved to under 1> else: in 5.3.7.3, i.e. release when reestablishment is triggered.*

*Proposal on S304: DiscMeet2.* [*R2-2005668*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005668.zip)

*Proposal on Z277: PropAgree2.* [*R2-2005347*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005347.zip)

*Proposal on I112: When resume SRB upon DAPS HO failure, the RLC entities of RRC bearers are re-established.*

*Proposal on Z273: partially PropAgree2. Do not introduce the definition of Non-DAPS bearer, and change the definition of DAPS bearer as*

 *“DAPS bearer: a bearer whose radio protocols are located in both the source SpCell gNB and the target SpCell gNB during DAPS handover to use both source SpCell gNB and target SpCell gNB resources”* [*R2-2005997*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005997.zip) *(LTE CR)?*

*Proposal on E232: DiscMeet2.*

*Proposal on J033: DiscMeet2.*

*Proposal on I114: DiscMeet2.*

***No document:***

*Proposal on J032: PropReject2.*

*Proposal on S307: PropAgree2.*

*Proposal on X004: PropReject2.*

*Proposal on X005: PropReject2.*

*Proposal on H460: PropReject2.*

*Proposal on S306: PropReject2.*

By Web Conf (Tuesday June 2nd)

Phase 1 issue resolution:

[R2-2004661](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004661.zip) Phase 1 class 2 issues on MOB WI (I101, I103, I104, I105, I107, I109, I100, S303, I111) Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core

*Proposal on I101: Agree I101 to remove the note “This step is performed so the UE only performs conditional reconfiguration execution while timer T311 is running once for a given failure detection .” from 5.3.5.3.*

*Proposal on I103: Agree I103 to add “2> release source PCell configuration;”in 5.3.5.3.*

*Proposal on I104: to discuss whether to clarify same configuration is the configuration from the same DRB in 5.3.5.5.2:*

*3> establish an RLC entity or entities for the target, with the same configurations of the same DRB as for the source;*

*3> establish the logical channel for the target PCell, with the same configurations of the same DRB as for the source;*

*Proposal on I105: Agree I105, to move the NOTE3 together with Note 1, 2 in 5.3.5.5.2:*

*Proposal on I107: Agree I107, to combine the conditions “If any DAPS bearer is configured:” and “2> for each SRB:” together in 5.3.5.6.3:*

*Proposal on I109: Agree I109, to remove “the S-KgNB key, the S-KeNB key,” from 5.3.5.8.3:*

*Proposal on I100: Agree I100, to remove “which the reconfigurationWithSync is included in the masterCellGroup” from 5.3.7.3:*

*Proposal on S303: Agree S303:Use Cond PCell for field* *attemptCondReconfig-r16 with “The field is optional present, need N, if conditionalReconfiguration is added for CHO. Otherwise the field is not present.”*

*Proposal on I111: Agree I111 to add the field description for configRestrictInfoDAPS: “Includes fields for which souce cell explictly indicates the restriction to be observed by target cell during DAPS handover.”*

Phase 2 issue resolution

[R2-2004672](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004672.zip) Phase 2 MOB RIL issues Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core Late

**Proposed for bulk agreement:**

*Agreements???*

*Proposal on Z273: partially PropAgree2. Do not introduce the definition of Non-DAPS bearer, and change the definition of DAPS bearer as*

 *“DAPS bearer: a bearer whose radio protocols are located in both the source SpCell gNB and the target SpCell gNB during DAPS handover to use both source SpCell gNB and target SpCell gNB resources”*

*Proposal on Z274: PropAgree2. To capture the changes based on Z274.*

*Proposal on S306: PropReject2.*

*Proposal on J032: PropReject2.*

*Proposal on E231: PropAgree2.*

*Proposal on M201: DiscMail2.*

 ***Proposal on M201: follow RRC Rapporteur’s view, i.e. PropAgree2.***

*Proposal on G104: PropReject2.*

*Proposal on Z275: PropAgree2. To capture the changes based on Z275.*

*Proposal on I112: When resume SRB upon DAPS HO failure, the RLC entities of RRC bearers are re-established.*

*Proposal on H458: PropReject2.*

*Proposal on I113: Remove the below EN, and keep current CR as it is.*

 *Editor's note: It is FFS if the whole handling on release of spcellConfig, MCG SCells, etc shall be moved to under 1> else: in 5.3.7.3, i.e. release when reestablishment is triggered.*

*Proposal on Z276: PropAgree2. But double check the proposed changes.*

*Proposal on G103: PropReject2.*

*Proposal on J031: PropReject2.*

*Proposal on B105: PropReject2.*

*Proposal on X004: PropReject2.*

*Proposal on J030: PropReject2.*

*Proposal on E038: PropReject2.*

*Proposal on X005: PropReject2.*

*Proposal on B107: Not related to MOB WI.*

*Proposal on H455: PropReject2.*

*Proposal on Z277: PropAgree2.*

*Proposal on Z278: CPC cannot be configure in PSCell change command.*

*Proposal on C210: leave the discussion to SON/MDT WI.*

*Proposal on S309: PropAgree2.*

*Proposal on H460: PropReject2.*

*Proposal on S307: PropAgree2.*

*Proposal on S305: PropReject2.*

*Proposal on E234: PropAgree2.*

*Proposal on O201: PropReject2.*

*Proposal on H462: PropAgree2.*

*Proposal on X007: PropReject2.*

*Proposal on S308: DiscMail2.*

*Proposal on E232: DiscMeet2.*

*Proposal on J033: DiscMeet2.*

*Proposal on S304: DiscMeet2.*

*Proposal on I114: DiscMeet2.*

[J033] RoHC handling without key changes:

[R2-2005512](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005512.zip) [J033] RoHC handling with and without key change at the UE SHARP Corporation discussion Rel-16 LTE\_feMob-Core [R2-2003665](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003665.zip)

[H223] TAG configuration:

[R2-2004427](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004427.zip) Clarification on tag-Config for DAPS (subject to [H223]) Samsung discussion Rel-16 NR\_Mob\_enh-Core

S350: Reconfiguration procedure in DAPS and I112: RLC re-establishment upon fallback:

[R2-2004666](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004666.zip) Phase 1 open issue on DAPS CP (S350, I112) Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005064](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005064.zip) [I112] discussion on RLC re-establishment upon fallback Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005708](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005708.zip) [S350] Discussion on radio bearer handling during DAPS Samsung Electronics discussion NR\_Mob\_enh-Core

[R2-2005062](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005062.zip) [S350] Discussion on reconfiguration procedure in DAPS Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

Z255: Handling of stored CPC configuration:

[R2-2004668](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004668.zip) Phase 1 Open issue on CPC (Z255) Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005348](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005348.zip) [Z255] Further discussion on the handling of stored CPC configuration ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2004620](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004620.zip) Remaining issues for conditional PSCell change Ericsson discussion NR\_Mob\_enh-Core

*(moved from 6.9.3)*

I113: Field release during re-establishment procedure:

[R2-2004667](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004667.zip) Phase 1 open issue on CHO (I113) Intel Corporation discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005065](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005065.zip) [I113] Discussion on handling CHO candidate cells upon RRC re-establishment Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[R2-2004619](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004619.zip) Re-establishment initiation and CHO Ericsson discussion NR\_Mob\_enh-Core

*(moved from 6.9.2)*

[O201]: Restricting DAPS + CHO and DAPS + CPC:

[R2-2004915](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004915.zip) [O201] Correction on dapsConfig OPPO discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005349](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005349.zip) Clarification on not supporting CHO+DAPS ZTE Corporation, Sanechips discussion Rel-16 LTE\_feMob-Core

*(moved from 7.3.2)*

[E232, Z258] Generic RRC text enhancements for DAPS procedure:

[R2-2004693](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004693.zip) [E232] Source and target entities at DAPS HO Ericsson discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005997](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005997.zip) TP on DAPS terminology related ASN.1 review issues (ao Z258) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 TEI16

[S304]: Identification of cell according to PCI or SSB?

[R2-2005668](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005668.zip) [S304] Clarification on applicable cell in CHO Samsung R&D Institute UK discussion

C003: Aligning T310 and T312 descriptions:

[R2-2005382](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005382.zip) [C003] T312 discussion Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[XXXX]: Release of CPC when SCG is released:

[R2-2005683](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005683.zip) Draft CR for Clarification to release CPC when SCG Release LG Electronics Inc. draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

*(moved from 6.9.3)*

[XXXX] Disabling IioT duplication of >2 legs:

[R2-2004649](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004649.zip) Disabling multi-leg RB for DAPS vivo discussion Rel-16 LTE\_feMob-Core

*(moved from 7.3.2)*

Not treated (unless flagged)

[J030, J031, G103, G104, B105, H458]: PropReject in [R2-2004672](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004672.zip):

[R2-2005430](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005430.zip) [J030, J031] UE DAPS configuration release upon RLF SHARP discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005529](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005529.zip) [G104] Clarification on DAPS handover failure while the T310 is running Google Inc. discussion 38.331 NR\_Mob\_enh-Core

[R2-2005134](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005134.zip) [B105] TP for DAPS handover with fast MCG link recovery Lenovo, Motorola Mobility discussion Rel-16

[R2-2005383](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005383.zip) [H458] Triggering quantity discussion Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005511](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005511.zip) [G103] Clarification on CHO handling during RRC connection re-establishment procedure Google Inc. draftCR Rel-16 38.331 16.0.0 F NR\_Mob\_enh-Core

[Z276, Z277]: PropAgree in [R2-2004672](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004672.zip):

[R2-2005346](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005346.zip) [Z276] Discussion on UE configuration release in RRC re-establishment ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005347](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005347.zip) [Z277] Discussion on stopping conditional reconfiguration evaluation during fast MCG recovery ZTE Corporation, Sanechips discussion Rel-16 NR\_Mob\_enh-Core

### 6.9.6 Other

Only corrections not fitting other agenda items.

Including DAPS aspects that are NR-specific without equivalent LTE impacts: Do not use this AI for any DAPS topics that can be discussed jointly for LTE and NR - Contributions on DAPS that apply for both LTE and NR are treated jointly in under 7.3.2.

Tdoc Limitation per company: 1 tdoc.

By Web Conf (Wed, June 3rd)

Correction to MAC on random access procedure:

[R2-2005612](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005612.zip) Draft CR on 38.321 for NR mobility enhancement LG Electronics draftCR Rel-16 38.321 16.0.0 F NR\_Mob\_enh-Core

*(moved from 7.3.5)*

# 7 Rel-16 LTE Work Items

Documents in these agenda items will be handled in break out sessions

## 7.0 LTE Rel-16 General

### 7.0.1 ASN.1 review

Including documents related to LTE ASN.1 review.

Including outcome of [Post109bis-e][932][LTE/NR/ASN.1] Resolution to review issues S003, S005, B002, S046 (Samsung/Ericsson)

A web conference may be used for handling some of the discussions in this agenda item.

By Email

Offline email discussion [206] scope:

* [AT110-e][206][LTE ASN1] LTE general ASN.1 discussion (Samsung)

Scope:

* + - Flag issues to be discussed online (including specifics of each issue)

 Intended outcome:

* + - Discussion summary (including list of flagged topics and proposed resolutions) in [R2-2005752](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005752.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Wednesday 2020-06-03 11:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005752](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005752.zip)): Thursday 2020-06-04 11:00 UTC
		- Whether to continue the discussion after this TBD during Thursday 2020-06-04 online session

By Web Conf (Thursday June 4th, Tuesday June 9th)

Flagged issues as per [206]:

[R2-2005752](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005752.zip) [AT110-e][206][LTE ASN1] R16 LTE RRC coordination (Samsung) Samsung Telecommunications discussion Rel-16 Late

ASN.1 review file, RIL and class0/1 issues:

[R2-2005284](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005284.zip) ASN.1 Review file (LTE, Word) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 TEI16 [R2-2003234](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003234.zip) Late

[R2-2005285](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005285.zip) ASN.1 Review RIL (LTE, Excel) Samsung Telecommunications report Rel-16 TEI16 [R2-2003827](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003827.zip) Late

[R2-2005286](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005286.zip) LTE Rel-16 ASN.1 Review, Class 0 and Class 1 issues Samsung Telecommunications report Rel-16 TEI16 [R2-2003235](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003235.zip) Late

Generic ASN.1 aspects:

[R2-2005287](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005287.zip) General changes resulting from ASN.1 review for LTE RRC REL-16 Samsung Telecommunications CR Rel-16 36.331 16.0.0 4315 - F TEI16 Late

[R2-2005292](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005292.zip) Adding guidelines for SetupRelease paramterised type (S008) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 TEI16 Late

[R2-2005281](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005281.zip) General ASN.1 issues for 36.331 Rel-16 (S004, S006, B102, Q604, B103, X002) Samsung Telecommunications discussion Rel-16 TEI16 [R2-2003231](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003231.zip) Late

*Proposal 1 Agree the general principle that, when network supports a critical extension for an UL DCCH message/ IE for one feature, it should also support for this critical extension receipt of legacy values of another feature it supports (i.e. impose additional requirements on network, alike imposed on UE for early implementation)*

*Proposal 2 Create a regular critical extension of the FailureInformation message i.e. re-use the existing name and ASN.1 section*

*Proposal 3 Decide which solution to apply for each failure type introduced in R16. I.e. RAN2 is requested to discuss and conclude whether*

* *If, regardless whether suitalble legacy values exist, it is anyhow fine to use OAM to avoid avoid a legacy node acting as MN receives value an unsupported extension*
* *If so (i.e. solution 1a/ 3 for all)*
	+ *While available, use an undefined code points for the R16 extensions (solution 1a)*
	+ *Otherwise: use –v16xy and state that network only considers –v16xy i.e. ignores legacy field (solution 3)*
* *If not (i.e. decide per case):*
	+ *If a suitable legacy value exist for a case: use–v16xy and specify for each case the value to be set in legacy field (solution 1b)*
	+ *Else: solution 1a/ 3 (see previous bullet)*

[R2-2005282](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005282.zip) TP for general ASN.1 issues for 36.331 REL-16 (General ASN.1 issues for 36.331 Rel-16 (S004, S006, B102, Q604, B103, X002) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 TEI16 Late

Outcome of Email discussion [Post109bis-e][932][LTE/NR/ASN.1] Resolution of review issues S003, S005, B002, S046 (Samsung/Ericsson)):

[R2-2005288](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005288.zip) Report of [Post109bis-e][932][LTE/NR/ASN.1] Resolution of review issues S003, S005, B002, S046 (Samsung/Ericsson)) Samsung Telecommunications report Rel-16 5G\_V2X\_NRSL-Core Late

***Proposal 1: RAN2 is requested to agree the following approach:***

* + *UL DCCH: one LTE message/ procedure for transfer of NR UL DCCH messages. The procedural handling is completely re-using what is already specified in NR. Statements will be added to indicate that network only includes particular NR SL related info. The same applies for the reverse direction*
	+ *DL DCCH: NR information is added to the concerned LTE procedure (Reconfiguration), by an octet string carrying the particular NR message (Reconfiguration). The procedural handling is completely re-using what is already specified in NR. Statements will be added to indicate that network only includes particular NR SL related info. The same applies for the reverse direction*

***Proposal 2: RAN2 is requested to endorse the text proposals as reflected in the following draft CRs:***

* + [*R2-2005178*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005178.zip) *CR to NR RRC on Correction on crossRAT signalling for NR V2X (Ericsson)*
	+ [*R2-2005289*](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005289.zip) *CR to LTE RRC on V2X IRAT signalling (resolution of S003, S005, B002, S046) (Samsung)*

*Summary of concerns that were expressed with option 1:*

*         For UL DCCH information, option 1 seems inconsistent i.e. sometimes using the concerned LTE procedure (CBR measurements) and otherwise using a new procedure (UE Assistance Information, Sidelink UE information)*

*         Why introduce specific procedures in LTE even if there is no specific procedural handling specified in LTE (UE Assistance Information, Sidelink UE information)*

*         Is the approach really future proof i.e. does it mean that we will end up introducing a new LTE message/ procedure for any further case we may come across, although all could simply be covered by a single procedure (as shown in option 3)*

*         For DL DCCH information, why use LTE encoding/ carry specific NR IEs. I.e. it seems much better/ more future proof to carry NR messages. I.e. this avoids problems when small extensions are added in future. I.e. when referring to NR messages such extensions would not require any LTE changes*

*Summary of concerns concerns were raised regarding option 2/ 3:*

*         Some companies indicated that use of embedding is strange/ may introduce problems. Why so i.e. we use this approach all from the start of NR e.g. with EN-DC*

*         Some companies indicated there may be problems related to triggering. Why so i.e. we use this approach all from the start of NR e.g. with transfer of Reconfiguration and Measurements*

*         Some companies indicate that in implementation it is the LTE RRC module that produces/ receives the NR encoded information. To me this seems merely an implementation matter that we don’t need to worry about. I.e. we merely need to focus on the specification aspects*

[R2-2005289](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005289.zip) V2X IRAT signalling (resolution of S003, S005, B002, S046) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 5G\_V2X\_NRSL-Core Late

[R2-2005178](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005178.zip) [Post109bis-e][932][LTE-NR-ASN.1] Correction on crossRAT signalling for NR V2X Ericsson CR Rel-16 38.331 16.0.0 1658 - F 5G\_V2X\_NRSL-Core Late

Specific issue resolutions:

[R2-2004626](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004626.zip) [Q502] [Z302] Merging issues in TS 36.331 subclause 5.3.3.4a Qualcomm Incorporated discussion

*Proposal 1. Update status of Z302 to ConcNoAct.*

*Proposal 2. Update status of Q502 to ConcAgree WI-CR.*

*Proposal 3. Adopt the changes shown in section 2.2 to DCCA WI-CR to TS 36.331.*

R2-2005290 Encoding of 5G indicator (S191) Samsung Telecommunications draftCR Rel-16 36.331 16.0.0 TEI16

*(moved from 7.6.1)*

* To be discussed under 6.20.1 together with the other 5G indicator contributions

### 7.0.2 Features and UE capabilities

Including documents related to LTE UE capabilities based on RAN1/4 input. WI-specific capability contributions should be submitted to the individual WI agenda items.

A web conference may be used for handling some of the discussions in this agenda item.

By Web Conf (Thursday June 4th if needed)

[R2-2004357](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004357.zip) LS on updated Rel-16 RAN1 UE features lists for LTE (R1-2003070;; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core, 5G\_V2X\_NRSL-Core, TEI16 To:RAN2 Cc:RAN4

* Rapporteur of each WI is expected to provide per-WI CR for capturing capabilities (if not done yet)
* Noted

[R2-2004362](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004362.zip) LS on Rel-16 RAN4 UE features lists for LTE and NR (R4-2005192; contact: NTT DOCOMO) RAN4 LS in Rel-16 To:RAN2 Cc:RAN1

* Rapporteur of each WI is expected to provide per-WI CR for capturing capabilities (if not done yet)
* Noted

## 7.3 Even further mobility enhancement in E-UTRAN

(LTE\_feMob-Core; leading WG: RAN2; REL-16; started: Jun 18; target; Mar 20; WID: RP-190921)

No documents should be submitted to 7.3. Documents under 7.3 will be treated together with documents in 6.9.

A web conference may be used for handling some of the discussions in this WI, and summary document may be provided for some agenda items under 7.3.

### 7.3.1 Organizational

Including incoming LSs and rapporteur inputs (if any).

Including outcome of [Post109bis-e][928][LTE MOB] Stage-2 CR (China Telecom)

By Web Conf (Tuesday June 2nd)

Outcome of [Post109bis-e][928][LTE MOB] Stage-2 CR (China Telecom):

[R2-2005214](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005214.zip) Corrections to even further mobility enhancement in E-UTRAN China Telecommunications CR Rel-16 36.300 16.1.0 1284 - F LTE\_feMob-Core

* Samsung wonders what non-DAPS DRB means. Is PDCP re-establishment only triggered upon RA completion at target?
* Intel clarifies that DRB not configured with DAPS is non-DAPS DRB. **No** PDCP re-establishment triggering upon RA completion was agreed last time.
* Samsung clarifies that “Upon successful DAPS handover, UE establishes target cell non-DAPS DRB by re-establishing PDCP and RLC entities.” could be interpreted wrong as DAPS handover completion occurs after RA completion. vivo clarifies for non-DAPS DRBs, legacy behaviour is followed so re-establishment occurs at HO command reception.
* Ericsson thinks “UE fallbacks” could be “UE falls back”.
* Email discussion [928] outcome
* Some updates needed, go for offline discussion
* Check if the same issue(s) exists for NR CR
* [AT110-e][216][LTE] LTE Stage-2 updates (China Telecom)

Scope:

* + - Correct Stage-2 text to be according to agreements. Improvements over parts discussed online should also be considered.

Intended outcome:

* + - Agreed CR to 36.300 CR in [R2-2005756](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip) for LTE UE capability signalling

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

R2-2005756 Corrections to even further mobility enhancement in E-UTRAN China Telecommunications CR Rel-16 36.300 16.1.0 1284 1 F LTE\_feMob-Core R2-2005214 Late

By Email

Offline email discussion [21] scope:

* [AT110-e][211][LTE MOB] RRC CR (Ericsson)

Scope:

* + - LTE RRC CR capturing LTE DAPS, LTE CHO and NR CPC changes agreed in this meeting

Intended outcome:

* + - Agreed 36.331 CR for LTE and NR mobility in [R2-2005757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005757.zip)

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

[R2-2005757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005757.zip) Corrections to Rel-16 LTE mobility enhancement Ericsson Corporation CR Rel-16 38.331 16.0.0 XXXX F LTE\_feMob-Core

### 7.3.2 Reduction in user data interruption during DAPS handover

This AI jointly addresses corrections to NR and LTE DAPS.

Including corrections to control and user plane for DAPS HO. All RRC-related corrections to DAPS should be submitted to ASN.1 review agenda items in 6.9.5 (NR RRC) and 7.3.4 (LTE RRC).

Tdoc Limitation per company: 2 tdocs

By Web Conf (Tuesday June 2nd)

MAC CRs:

[R2-2004644](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004644.zip) CR on 36.321 for LTE feMob vivo CR Rel-16 36.321 16.0.0 1474 - B LTE\_feMob-Core

[R2-2004645](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004645.zip) CR on 38.321 for NR mobility enhancement vivo CR Rel-16 38.321 16.0.0 0744 - B NR\_Mob\_enh-Core

* Email discussion [AT109bis-e][214] outcome from last meeting

PDCP CRs:

[R2-2005058](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005058.zip) CR on 38.323 for NR mobility enhancement Huawei, HiSilicon, Mediatek Inc., LG Electronics CR Rel-16 38.323 16.0.0 0045 2 C LTE\_feMob-Core [R2-2003853](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003853.zip)

[R2-2005059](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005059.zip) CR on 36.323 for LTE feMob Huawei, HiSilicon, Mediatek Inc., LG Electronics CR Rel-16 36.323 16.0.0 0282 2 C LTE\_feMob-Core [R2-2003854](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003854.zip)

* Email discussion [AT109bis-e][213] outcome from last meeting

By Email

Offline email discussion [212] and [213] scopes:

* [AT110-e][212][MOB] PDCP CRs for LTE and NR (Huawei)

Scope:

* + - PDCP CRs for LTE and NR DAPS corrections agreed in this meeting

Intended outcome:

* + - Agreed CR to 38.323 CR in [R2-2005758](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005758.zip) for NR PDCP changes agreed in this meeting
		- Agreed CR to 36.323 in [R2-2005759](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005759.zip) for LTE PDCP changes agreed in this meeting

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

PDCP CRs:

[R2-2005758](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005758.zip) CR on 38.323 for NR mobility enhancement Huawei, HiSilicon, Mediatek Inc., LG Electronics CR Rel-16 38.323 16.0.0 0045 3 C LTE\_feMob-Core [R2-2003853](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003853.zip)

[R2-2005759](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005759.zip) CR on 36.323 for LTE feMob Huawei, HiSilicon, Mediatek Inc., LG Electronics CR Rel-16 36.323 16.0.0 0282 3 C LTE\_feMob-Core [R2-2003854](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003854.zip)

* [AT110-e][213][MOB] MAC CRs for LTE and NR (vivo)

Scope:

* + - MAC CRs for LTE and NR DAPS corrections agreed in this meeting

Intended outcome:

* + - Agreed CR to 38.321 CR in [R2-2005760](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005760.zip) for NR MAC changes agreed in this meeting
		- Agreed CR to 36.321 in [R2-2005761](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005761.zip) for LTE MAC changes agreed in this meeting

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

MAC CRs:

[R2-2005760](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005760.zip) CR on 36.321 for LTE feMob vivo CR Rel-16 36.321 16.0.0 1474 1 B LTE\_feMob-Core

[R2-2005761](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005761.zip) CR on 38.321 for NR mobility enhancement vivo CR Rel-16 38.321 16.0.0 0744 1 B NR\_Mob\_enh-Core

By Web Conf (Wed, June 3rd)

UE actions upon DAPS failure and other cases

[R2-2004699](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004699.zip) Open issues for control plane aspects of DAPS handover Ericsson discussion Rel-16 LTE\_feMob-Core

[R2-2004896](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004896.zip) Discussion on old stored RRC message handling upon DAPS HO failure OPPO discussion Rel-16 NR\_Mob\_enh-Core

[R2-2005513](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005513.zip) Remaining issues on fallback from DAPS handover failure SHARP Corporation discussion Rel-16 LTE\_feMob-Core

[R2-2005060](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005060.zip) Discussion on DAPS CP remaining issue Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

PDCP/RLC re-establishment for source cell SRBs:

[R2-2004648](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004648.zip) Handling of the source SRB at DAPS failure vivo discussion Rel-16 LTE\_feMob-Core

[R2-2005497](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005497.zip) Handling of RLC for SRBs LG Electronics Inc. discussion NR\_Mob\_enh-Core, LTE\_feMob-Core

RoHC feedback for source cell:

[R2-2004697](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004697.zip) RoHC feedback to source cell after UL transmission switch Ericsson discussion Rel-16 LTE\_feMob-Core

RoHC handling when security key doesn’t change during DAPS handover (related to [J033] discussed under 6.9.5):

[R2-2004878](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004878.zip) Compromised solutions for ROHC related security issue Samsung discussion LTE\_feMob-Core

[R2-2004563](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004563.zip) ROHC Handling for DAPS Handover without Key Change MediaTek Inc. discussion

[R2-2004788](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004788.zip) Solutions for security issue in case of DAPS without key change NEC discussion Rel-16 LTE\_feMob-Core

[R2-2005500](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005500.zip) ROHC handling for DAPS HO without security key change LG Electronics Inc. discussion NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2004916](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004916.zip) Discussion on ROHC handling in DAPS HO OPPO discussion Rel-16 LTE\_feMob-Core

[R2-2004947](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004947.zip) DAPS handover UP remaining key issues Qualcomm India Pvt Ltd discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core

[R2-2004698](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004698.zip) RoHC handling during DAPS handover without key change Ericsson discussion Rel-16 NR\_Mob\_enh-Core [R2-2002589](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2002589.zip)

 *(moved from 6.9.6)*

[R2-2005056](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005056.zip) Discussion on ROHC handling in DAPS HO without key change Huawei, HiSilicon discussion Rel-16 NR\_Mob\_enh-Core

 *(moved from 6.9.6)*

IR context maintenaince in target cell:

[R2-2005057](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005057.zip) Discussion on transmitting ROHC IR packets in target during DAPS HO Huawei, HiSilicon, Vivo, Oppo, Apple, China Telecom, Samsung, LG Electronics, CATT, CMCC, Mediatek Inc., LG Uplus discussion Rel-16 LTE\_feMob-Core

[R2-2005161](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005161.zip) Target cell’s ROHC behaviour for DAPS handover Nokia, Nokia Shanghai Bell, Ericsson, Intel Corporation, NEC discussion Rel-16 LTE\_feMob-Core

Miscellaneous:

[R2-2005448](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005448.zip) Discussion of remaining issues for DAPS HO CMCC discussion Rel-16 LTE\_feMob-Core

[R2-2004787](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004787.zip) Handling of expiry of DataInactivityTimer for DAPS NEC discussion Rel-16 LTE\_feMob-Core

By Email (After Wednesday June 4th)

Offline email discussion [208] scope:

* [AT110-e][208][LTE/NR MOB] User plane issues for DAPS (NN)

Scope:

* + - Discuss issues remaining after DAPS UP session (TBD if needed)

 Intended outcome:

* + - Discussion summary in [R2-2005753](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005753.zip) (by email rapporteur).

 Deadline for providing comments and for rapporteur inputs:

* + - TBD

[R2-2005753](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005753.zip) Summary of discussion [208] on DAPS UP NN discussion Late

### 7.3.3 UE capabilities for conditional handover and DAPS

Including UE capability aspects of LTE mobility WI. Any input on UE capabilities from RAN1/4 will be handled in this agenda item.

Including outcome of [Post109bis-e][931][LTE MOB] UE capabilities for NR mobility (China Telecom)

Tdoc Limitation per company: 1 tdoc.

By Web Conf (Wednesday June 3rd or Tuesday June 9th)

Outcome of [Post109bis-e][931][LTE MOB] UE capabilities for NR mobility (China Telecom):

[R2-2005216](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005216.zip) report of [Post109bis-e][931][LTE MOB] UE capabilities for NR mobility (China Telecom) China Telecommunications discussion Late

*Proposal 1: the conclusions on CHO in NR for the maximum candidate cells that the CHO capable UE must support and whether introducing additional capability on the support of 2 trigger events for same execution condition will be introduce into LTE.*

*Proposal 2: Not to introduce the UE power sharing and UL transmission cancellation capabilities for LTE in RAN2.*

*Proposal 3: Remove pdcch-BlindDetectionSource and pdcch-BlindDetectionTarget from RAN2 agreed capabilities.*

*Proposal 4: The following capabilities are introduced into LTE, which is aligned with NR,*

*-asyncDAPS-r16*

*-interFreqDAPS-r16*

*-interFreqDiffSCS-DAPS-r16*

*-singleUL-TransmissionDAPS-r16*

*-supportedNumberTAG-DAPS(it is not needed for interFreq since RAN2 agreed to “Reuse CA capability “supportedNumberTAG” for DAPS handover.)*

*-MultiUL-TransmissionDAPS*

*-syncDAPS.*

**Agreements (LTE)**

12a introduce separate capabilities for intraFreq and interFreq as below:

 Per Band/per BC (for intraFreq capabilities), I.e. put under BandParameters-v16xy:

 intraFreqAsyncDAPS-r16

 intraFreqMultiUL-TransmissionDAPS-r16

Per BC (for interFreq capabilities), i.e. put under CA-ParametersNR-v16xy:

 interFreqAsyncDAPS-r16

 interFreqMultiUL-TransmissionDAPS-r16.

12b All UEs supporting DAPS support these capabilities (can discuss signalling details and naming):

 SyncDAPS-r16

 SingleUL-TransmissionDAPS-r16

 intraFreqTwoTAGs-DAPS-r16 (with 2 TAGs)

 (for interFreq since RAN2 agreed to “Reuse CA capability “supportedNumberTAG” for DAPS handover.)

10 Remove pdcch-BlindDetectionSource and pdcch-BlindDetectionTarget from RAN2 agreed capabilities.

11 Add syncDAPS and simultaneous UL transmission based on RAN4 latest capability table.

13 Introduce separate capabilities for intraFreq and interFreq for power sharing capabilities.

* Discuss further about P1 over email (discussion [215])
* Wait for RAN1 conclusion on *ul-TransCancellationDAPS*.

R2-2005217 UE Capability for Rel-16 LTE even further mobility enhancement China Telecommunications CR Rel-16 36.331 16.0.0 4306 - B LTE\_feMob-Core

[R2-2005218](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005218.zip) UE Capability for Rel-16 LTE even further mobility enhancement China Telecommunications CR Rel-16 36.306 16.0.0 1763 - B LTE\_feMob-Core

Remaining UE capability issues LTE:

[R2-2004691](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004691.zip) Open issues on UE capabilities at DAPS HO Ericsson discussion Rel-16 LTE\_feMob-Core

[R2-2005685](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005685.zip) Consideration on DAPS Capability LG Electronics Inc. discussion Rel-16 NR\_Mob\_enh-Core, LTE\_feMob-Core [R2-2002905](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2002905.zip)

[R2-2005063](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005063.zip) Discussion on UE capabilities for LTE DAPS Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

*(moved from 7.3.4)*

By Email

Offline email discussion [215] scope:

* [AT110-e][215][MOB] UE capability CRs for LTE mobility (China Telecom)

Scope:

* + - 36.306 and 36.331 CRs for LTE capabilities based on agreements in this meeting

Intended outcome:

* + - Agreed CR to 36.331 CR in [R2-200576](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip)4 for LTE UE capability signalling
		- Agreed CR to 36.306 in [R2-200576](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip)5 for LTE capability descriptions

 Deadlines for providing comments and for rapporteur inputs:

* + - Deadline for companies' feedback: Wednesday 2020-06-10 12:00 UTC
		- Deadline for rapporteur's version for agreement: Thursday 2020-06-11 10:00 UTC

[R2-200576](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip)4 UE Capability for Rel-16 LTE even further mobility enhancement China Telecommunications CR Rel-16 36.331 16.0.0 4306 1 B LTE\_feMob-Core

[R2-200576](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003853.zip)5 UE Capability for Rel-16 LTE even further mobility enhancement China Telecommunications CR Rel-16 36.306 16.0.0 1763 1 B LTE\_feMob-Core

### 7.3.4 ASN.1 review of mobility WIs for LTE RRC

This agenda item focuses on LTE RRC aspects of both LTE and NR mobility WIs – NR RRC aspects of both LTE and NR mobility WIs should be submitted to 6.9.5. Do not submit contributions on WI-specific open issues that are not captured in the current LTE RRC to this agenda item.

All ASN.1 issues should be raised in RILs first – contributions where no RIL issue exists may not be treated.

Including contributions/TPs on RRC corrections based on review issues. For these, no individual company CRs should be submitted: please consult with the rapporteur of LTE RRC CR first (cecilia.eklof@ericsson.com).

By Web Conf (Tuesday June 2nd)

[R2-2004621](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004621.zip) Updates for R16 LTE Mobility Enhancements and LTE updates for R16 NR Mobility Enhancements Ericsson CR Rel-16 36.331 16.0.0 4290 1 F LTE\_feMob-Core [R2-2003852](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003852.zip)

[R2-2004695](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004695.zip) [E928][I114] Condition for setting statusReportRequired for RLC UM Ericsson, Intel Corporation discussion LTE\_feMob-Core

*Observation 1 For RLC AM radio bearers the statusReportRequired field is configured at setup of the DRB (PDCP entity) and can then later be reconfigured if needed.*

*Observation 2 The statusReportRequired field is typically configured when the radio bearer is setup and then used at the related events.*

*Observation 3 For RLC UM radio bearers the statusReportRequired field can currently only be configured within the (DAPS) HO Command message.*

*Observation 4 The size of the HO Command message should be kept as small as possible to avoid negative impacts on HO success rate.*

*Based on the discussion in the previous sections we propose the following:*

*Proposal 1 The condition for inclusion of the statusReportRequired field for RLC-UM radio bearers should be changed so that it is not restricted to when the bearer is configured for DAPS. It should instead be restricted to when the UE supports DAPS.*

*Proposal 2 In 36.331, if the statusReportRequired field has not been configured for an RLC-UM radio bearer it should by default have the value FALSE. It should then be optional, need ON.*

*Proposal 3 In 36.331 the name of the struct “rlc-AM”, which includes the statusReportRequired field, should be changed to “rlc-AM-UM”.*

*Proposal 4 Include the Text Proposal in Annex A.1 to TS 38.331.*

*Proposal 5 Include the Text Proposal in Annex A.2 to TS 36.331.*

[R2-2005350](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005350.zip) [Z263] Discussion on UE configuration release in RRC re-establishment ZTE Corporation, Sanechips discussion Rel-16 LTE\_feMob-Core

*Observation 1: According to the current RRC CR, the UE shall perform MR-DC release and release some configured UE configuration (e.g. uplinkDataCompression, UE configuration included in RadioResourceConfigDedicated and UE configuration included in otherConfig except for delayBudgetReportingConfig and overheatingAssistanceConfig) upon initiation of RRC re-establishment, if the UE is not configured with conditionalReconfiguration.*

*Observation 2: In case the UE selects a CHO candidate cell whose matching configuration includes the SCG delta configuration, releasing the SCG configuration upon initiation of RRC re-establishment may cause the reconfiguration failure when applying the stored CHO configuration.*

*Observation 3: Similar to delayBudgetReportingConfig and overheatingAssistanceConfig, releasing UE configuration included in otherConfig, RadioResourceConfigDedicated, and uplinkDataCompression during the RRC re-establishment initiation phase may cause the mismatching of configuration between the UE side and the target side if the UE selects a CHO candidate cell.*

*Proposal 1: The UE does not perform MR-DC release and does not release UE configuration if the UE was configured with conditionalReconfiguration and the selected cell during re-establishment is a CHO candidate cell.*

*Proposal 2: Remove the description about release of UE configuration upon initiation of RRC re-establishment in section 5.3.7.2, and then capture the corresponding description in section 5.3.7.3 in case the selected cell is not a CHO candidate cell.*

### 7.3.5 Other

Only corrections not fitting other agenda items.

Including CHO aspects that are LTE-specific without equivalent NR impacts: Do not use this AI for any item that can be discussed jointly for LTE and NR - Contributions on conditional handover that apply for both LTE and NR are treated jointly in under 6.9.3.

Tdoc Limitation per company: 1 tdoc.

[R2-2004692](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004692.zip) Power coordination at DAPS HO in LTE Ericsson discussion Rel-16 LTE\_feMob-Core

*Observation 1 RAN1 are not working on DAPS HO for LTE in Rel-16. DAPS HO is thus not specified in TS 36.213.*

*Proposal 1 No power coordination information parameters should be specified for DAPS handover in 36.331 (in Rel-16).*

*Proposal 2 No capability for uplink power sharing at DAPS handover should be specified in 36.306 (in Rel-16).*

*Proposal 3 In case of overlapping UL transmissions at DAPS handover in LTE, the UE shall only transmit in the target cell.*

[R2-2005384](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005384.zip) Discussion on LTE specific CHO issues Huawei, HiSilicon discussion Rel-16 LTE\_feMob-Core

*Proposal: It is proposed to agree on the following clarification to TS 36.300 so that LTE CHO is not supported in LTE-5GC:*

*In the text and figure(s) in the following clauses (except for 10.1.2.1a), intra-E-UTRA HO description is applicable for both intra-EPC and intra-5GC cases.*

## 7.4 Further performance enhancement for LTE in high speed scenario

(LTE\_high\_speed\_enh2-Core; leading WG: RAN4; REL-16; started: Jun 18; target; Sep 19; WID: RP-181482)

Including documents related to WI-specific ASN.1 review issues.

A web conference may be used for handling some of the discussions in this agenda item.

## 7.5 Other LTE Rel-16 WIs

This agenda item is to be used for LSs and documents relating to Rel-16 LTE but for which there is no existing RAN WI/SI (e.g. LSs from CT/SA requesting RAN2 action) or for which there is no allocated RAN2 time.

A web conference may be used for handling some of the discussions in this WI.

### 7.5.0 In-principle Agreed CRs

### 7.5.1 Other

By Email

SA5 LSs for QMC:

[R2-2004381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004381.zip) LS on Reply on QoE Measurement Collection (S5-202304; contact: Ericsson) SA5 LS in Rel-16 QOED To:SA4, CT1, RAN2, RAN3

*(moved from 7.5)*

[R2-2004382](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004382.zip) LS on Reply on QoE Measurement Collection (S5-202305; contact: Ericsson) SA5 LS in Rel-16 QOED To:RAN2, RAN3 Cc:CT1, SA4

*(moved from 7.5)*

* Handled in offline email discussion [204]

Discussion on SA5 LSs on QMC

[R2-2004623](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004623.zip) Handling of incoming LS on QoE Measurement Collection Ericsson discussion TEI16

[R2-2005385](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005385.zip) Discussion on QMC regarding incoming SA5 LS Huawei, HiSilicon discussion Rel-16 LTE\_QMC\_Streaming-Core

*(moved from 7.6.1)*

* Handled in offline email discussion [204]

Draft CR based on LSs:

[R2-2004624](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004624.zip) QoE Measurement Collection additions Ericsson CR Rel-16 36.331 16.0.0 4297 - C TEI16

* Handled in offline email discussion [204]

Draft LS replies:

[R2-2004625](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004625.zip) Draft LS Reply on QoE Measurement Collection Ericsson LS out Rel-16 TEI16 To:SA5 Cc: RAN3, SA4, CT1

[R2-2005386](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005386.zip) Draft reply LS to [R2-2004381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004381.zip) Huawei discussion Rel-16 LTE\_QMC\_Streaming-Core

*(moved from 7.6.1)*

[R2-2005387](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005387.zip) Draft reply LS to [R2-2004382](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004382.zip) Huawei discussion Rel-16 LTE\_QMC\_Streaming-Core

*(moved from 7.6.1)*

* Handled in offline email discussion [204]

Offline email discussion [204] scope:

* [AT110-e#204][LTE] Handling of SA5 LS replies on QoE Measurement Collection (Ericsson)

Scope:

* + - Discuss the LS replies received from SA5 in [R2-2004381](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004381.zip) and [R2-2004382](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004382.zip)
		- Discuss the input documents in [R2-2004623](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004623.zip) and [R2-2005385](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005385.zip) to determine what RAN2 needs to do
		- Discuss whether to send reply LS to SA5 (CC: TBD) and, if agreeable, provide updated LS according to discussion in

 Intended outcome:

* + - Discussion summary in [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2005741.zip)8 (by email rapporteur)
		- If agreeable, LS to RANx (exact groups TBD) informing on the outcome of RAN2 in [R2-200574](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_110-e/Docs/R2-2005742.zip)9

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline (for companies' feedback): Thursday 2020-06-04 10:00 UTC
		- Initial deadline (for rapporteur's summary in [R2-2005741](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005741.zip)): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

By Web Conf (Friday June 5th)

[R2-2005748](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005748.zip) Summary of discussion [204] on Handling of SA5 LS replies on QoE Measurement Collection (Ericsson) Ericsson discussion TEI16, LTE\_QMC\_Streaming-Core Late

[R2-2005749](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005749.zip) Draft LS Reply on QoE Measurement Collection Ericsson LS out Rel-16 TEI16, LTE\_QMC\_Streaming-Core To:SA5 Cc: RAN3, SA4, CT1

## 7.6 LTE TEI16 enhancements

Small Technical Enhancements to LTE. TEI should be predominantly within a single WG and fully completed within the same quarter in all affected WGs. RAN2 impact of RAN1/4-led TEI shall be limited to RRC signalling of configuration parameters and UE capabilities (no MAC impact, no RRC procedural impact, etc). Please also see RP-191602 endorsed at RAN#84.

Including documents related to TEI16 ASN.1 review issues.

New TEI16 proposals are discouraged and may be deprioritized in this meeting.

A web conference may be used for handling some of the discussions in this agenda item.

### 7.6.0 In-principle Agreed CRs

By Email

R2-2004818 CR on RLC out-of-order delivery configuration Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, Intel, Apple CR Rel-15 36.323 15.5.0 0283 1 F TEI15, LTE\_HRLLC-Core [R2-2003860](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003860.zip)

[R2-2004820](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004820.zip) CR on RLC out-of-order delivery configuration Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, Intel, Apple CR Rel-16 36.323 16.0.0 0284 1 A TEI16 [R2-2003861](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003861.zip)

[R2-2004826](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004826.zip) CR on RLC out-of-order delivery configuration Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, Intel, Apple CR Rel-15 36.331 15.9.0 4288 1 F TEI15, LTE\_HRLLC-Core [R2-2003862](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003862.zip)

[R2-2004827](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2004827.zip) CR on RLC out-of-order delivery configuration Samsung, LG Electronics Inc., Nokia, Nokia Shanghai Bell, Intel, Apple CR Rel-16 36.331 16.0.0 4240 2 F TEI16 [R2-2003863](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003863.zip)

* Handled in offline email discussion [205]

### 7.6.1 Other

By Email

Offline email discussion [205] scope:

* [AT110-e#205][LTE] LTE contributions in AIs 7.6, 7.8 and 7.9 (RAN2 VC)

Scope:

* + - Handle the contributions in AIs 7.6.0, 7.8 and 7.9

 Intended outcome:

* + - Discussion summary in [R2-2005750](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005750.zip) (by email rapporteur)

 Deadline for providing comments and for rapporteur inputs:

* + - Initial deadline for companies' feedback: Thursday 2020-06-04 10:00 UTC
		- Initial deadline for rapporteur's summary in [R2-2005750](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005750.zip): Friday 2020-06-05 03:00 UTC
		- Whether to continue the discussion after this TBD during Friday 2020-06-05 online session

By Web Conf (Friday June 5th)

[R2-2005748](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005748.zip) Summary of discussion [205] on LTE contributions in AIs 7.6, 7.8 and 7.9 Nokia (RAN2 VC) discussion LTE\_HRLLC-Core, LTE\_DL\_MIMO\_EE-Core, LTE\_terr\_bcast-Core Late

## 7.8 DL MIMO efficiency enhancements for LTE

(LTE\_DL\_MIMO\_EE-Core; leading WG: RAN1; REL-16;target; March-20; WID: RP-182901)

Including documents related to WI-specific ASN.1 review issues.

A web conference may be used for handling some of the discussions in this agenda item.

By Email

UE capabilities based on latest RAN1 LS:

R2-2005488 Introduction of UE capabilities for DL MIMO efficiency enhancement Huawei, Hisilicon CR Rel-16 36.331 16.0.0 4334 - B LTE\_DL\_MIMO\_EE-Core

[R2-2005489](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005489.zip) Introduction of UE capabilities for DL MIMO efficiency enhancement Huawei, Hisilicon CR Rel-16 36.306 16.0.0 1770 - B LTE\_DL\_MIMO\_EE-Core

* Handled in offline email discussion [205]

## 7.9 LTE-based 5G Terrestrial Broadcast

(LTE\_terr\_bcast-Core; leading WG: RAN1; REL-16; target; March-20; WID: RP-182924)

Including documents related to WI-specific ASN.1 review issues.

A web conference may be used for handling some of the discussions in this agenda item.

By Email

Corrections to subframe allocation:

R2-2004429 Correction on the configuration of subframe #0 and #5 for MCH in MBMS dedicated cell Qualcomm Incorporated CR Rel-16 36.331 16.0.0 4259 2 F LTE\_terr\_bcast-Core [R2-2003866](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2003866.zip)

* Handled in offline email discussion [205]

Corrections to MCCH configuration:

[R2-2005490](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005490.zip) Clarification on MCCH configuration for 0.37kHz SCS Huawei, Hisilicon CR Rel-16 36.331 16.0.0 4335 - F LTE\_terr\_bcast-Core

* Handled in offline email discussion [205]

UE capabilities based on latest RAN1 LS:

[R2-2005224](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005224.zip) MBMS UE capabilities per band for subcarrier spacing of 2.5 kHz and 0.37 kHz Qualcomm Technologies Int CR Rel-16 36.331 16.0.0 4307 - F LTE\_terr\_bcast-Core

[R2-2005227](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_110-e%5CR2-2005227.zip) MBMS UE capabilities per band for subcarrier spacing of 2.5 kHz and 0.37 kHz Qualcomm Technologies Int CR Rel-16 36.306 16.0.0 1764 - F LTE\_terr\_bcast-Core

* Handled in offline email discussion [205]