3GPP RAN WG2 Meeting #117-e R2-22xxxxx

eMeeting February 21st – March 3rd, 2022

Agenda Item: 8.21.0

Source: ZTE corporation,Sanechips

Title: Report of [AT117-e][049][NR17TEI] In-principle Agreed CRs and related docs

Document for: Discussion, Decision

# Introduction

This document is intended address a In-principle Agreed CRs and related docs as per the following email discussion guidelines:

* [AT117-e][049][NR17TEI] In-principle Agreed CRs and related docs (ZTE)

 Scope: Treat [R2-2202225](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202225.zip), [R2-2202395](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202395.zip), [R2-2202396](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202396.zip), Has comments: [R2-2202397](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202397.zip), [R2-2202398](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202398.zip), [R2-2202399](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202399.zip), [R2-2202400](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202400.zip), [R2-2202626](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202626.zip), [R2-2202627](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202627.zip), [R2-2202628](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202628.zip), [R2-2202629](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202629.zip), R2-22083306, Non-IPA: [R2-2202608](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202608.zip). Check IPA CRs, and determine revisions if needed. Take into account the comments provided in [R2-2202225](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202225.zip). Determine whether the not yet agreed CR in [R2-2202608](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202608.zip) or some variant is agreeable.

 Intended outcome: Report, Agreed CRs, Endorsed NR UE cap CRs (for merge)

 Deadline: Schedule 1

**Schedule 1:**

A **first round** with **Deadline for comments W1 Thur Feb 24th 1200 UTC** to settle scope what is agreeable etc.

A **Final round** with **Final deadline W2 Wed March 2nd 1200 UTC** to settle details / agree CRs etc.

# Discussion

## PO determination RRC INACTIVE

### UE capability signaling of inactiveStatePO-Determination-r17 in LTE

[R2-2202397](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202397.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 36.331 16.7.0 4759 - F TEI17

[R2-2202225](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202225.zip) Discussion on UE capability signaling of inactiveStatePO-Determination-r17 in LTE Lenovo, Motorola Mobility discussion Rel-17 TEI17 R2-2201140

**Proposal 1:** RAN2 to confirm that no delta signaling of UE capabilities across IE *UE-EUTRA-Capability* and IE *UE-RadioPagingInfo* is applied for normal LTE UEs, i.e. a normal LTE UE shall indicate the entire set of supported capabilities as specified in TS 36.306 in IE *UE-EUTRA-Capability*.

**Proposal 2:** RAN2 to agree to revise the IPA CR to TS 36.331 in R2-2111587 by introducing the UE capability *inactiveStatePO-Determination-r17* in IE *UE-EUTRA-Capability*.

Two options on the UE capability signaling of inactiveStatePO-Determination-r17 in LTE have been raised in [R2-2202225](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202225.zip) and [R2-2202397](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202397.zip):

* Option 1: Introduce the UE capability *inactiveStatePO-Determination-r17* in IE *UE-RadioPagingInfo*.
* Option 2: Introduce the UE capability *inactiveStatePO-Determination-r17* in IE *UE-EUTRA-Capability.*

**Question 1.1.1) On introducing the UE capability *inactiveStatePO-Determination-r17*, which option do companies prefer?**

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| --- | --- | --- |
| **Company** | **Option 1/2** | **Comments**  |
| Lenovo | Option 2-modified | Proposal 2 was not phrased correctly. To be clear we suggest to introduce the UE capability inactiveStatePO-Determination-r17 in both IE UE-EUTRA-Capability and IE UE-RadioPagingInfo. |
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**Question 1.1.2) Do companies support the principle proposed in R2-2202225 that no delta signaling of UE capabilities across IE *UE-EUTRA-Capability* and IE *UE-RadioPagingInfo* is applied for normal LTE UEs, i.e. a normal LTE UE shall indicate the entire set of supported capabilities as specified in TS 36.306 in IE *UE-EUTRA-Capability*?**

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| **Company** | **Yes/No** | **Comments**  |
| Lenovo | Yes | Proponent |
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### In principle agreed CRs

**LTE CRs**

[R2-2202395](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202395.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 36.304 16.6.0 0840 - F TEI17

[R2-2202397](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202397.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 36.331 16.7.0 4759 - F TEI17

[R2-2202396](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202396.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 36.306 16.7.0 1839 - F TEI17

**Question 1.2.1) Apart from the UE capability inactiveStatePO-Determination-r17 in 36.331 CR, Do companies agree with the changes in the above CRs for PO determination in INACTIVE state in LTE? Please share more details in the “comments” row if any revision is needed.**

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| **Company** | **Yes/No** | **Comments**  |
| Lenovo | Yes |  |
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**NR CRs**

[R2-2202398](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202398.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 38.304 16.7.0 0228 - F TEI17

[R2-2202399](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202399.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 38.306 16.7.0 0679 - F TEI17

[R2-2202400](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202400.zip) Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips CR Rel-17 38.331 16.7.0 2889 - F TEI17

**Question 1.2.2) Do companies agree with the changes in the above CRs for PO determination in INACTIVE state in NR? Please share more details in the “comments” row if any revision is needed.**

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| **Company** | **Yes/No** | **Comments**  |
| Lenovo | Yes |  |
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## NR HSDN

[R2-2202626](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202626.zip) Introduction of mobility-state-based cell reselection for NR HSDN [NR\_HSDN] CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo CR Rel-17 38.331 16.7.0 2846 1 B TEI17 R2-2110772

[R2-2202627](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202627.zip) Introduction of mobility-state-based cell reselection for NR HSDN CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo CR Rel-17 38.304 16.7.0 0223 1 B TEI17 R2-2110232

[R2-2202628](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202628.zip) Introduction of mobility-state-based cell reselection for NR HSDN CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo CR Rel-17 38.306 16.7.0 0650 1 B TEI17 R2-2110234

[R2-2202629](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202629.zip) Introduction of mobility-state-based cell reselection for NR HSDN CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo CR Rel-17 36.331 16.7.0 4730 1 B TEI17 R2-2110235

**Question 2) Do companies agree with the changes in the above CRs for NR HDSN? Please share more details in the “comments” row if any revision is needed.**

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| **Company** | **Yes/No** | **Comments**  |
| Lenovo | Yes |  |
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## NR TADV

### In principle agreed 38.305 CR

[R2-2203366](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2203366.zip) Addition of Timing Advance measurement reporting in NR E-CID [NRTADV] Ericsson, NTT Docomo, Polaris Wireless, Verizon, China Telecom, FirstNet, Deutsche Telekom, Intel Corporation, CATT, Nokia, Nokia Shanghai Bell, Huawei CR Rel-17 38.305 16.7.0 0082 1 B TEI17 R2-2110711

**Question 3.1) Do companies agree with the changes in the above 38.305 CR for NR TADV? Please share more details in the “comments” row if any revision is needed.**

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| **Company** | **Yes/No** | **Comments**  |
| Lenovo | Yes but | Some cover page issues need to be fixed:In “Other specs affected” the CR# for 38.300 should be changed to “CR0407”. Furthermore, the spec# TS 38.472 should be corrected to TS 38.473. |
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### Complementary 38.300 CR

[R2-2202608](file:///C%3A%5CUsers%5Cjohan%5COneDrive%5CDokument%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_117-e%5CDocs%5CR2-2202608.zip) Introduction of RACH triggers for T\_ADV in NR E-CID [NRTADV] Huawei, HiSilicon, Ericsson, CATT, NTT DOCOMO, Deutsche Telekom, Polaris Wireless, ZTE Corporation CR Rel-17 38.300 16.8.0 0407 - B TEI17

**Question 3.2) Do companies agree with the changes in the above 38.300 CR for NR TADV? Please share more details in the “comments” row if any revision is needed.**

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| **Company** | **Yes/No** | **Comments**  |
| Lenovo | Yes but | Cover page: since 38.300 is a RAN spec the CN box in “Proposed change affects” does not need to be ticked. |
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# Conclusions

<To be generated based on company input>

# References

[1] R2-2202225 Discussion on UE capability signaling of inactiveStatePO-Determination-r17 in LTE Lenovo, Motorola Mobility

[2] R2-2202395 Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips

[3] R2-2202396 Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips

[4] R2-2202397 Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips

[5] R2-2202398 Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips

[6] R2-2202399 Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips

[7] R2-2202400 Correction on PO determination in inactive state ZTE corporation, Ericsson, vivo, CMCC, China Telecom, China Unicom, Samsung, Nokia, Nokia Shanghai Bell, Sanechips

[8] R2-2202626 Introduction of mobility-state-based cell reselection for NR HSDN [NR\_HSDN] CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo

[9] R2-2202627 Introduction of mobility-state-based cell reselection for NR HSDN CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo

[10] R2-2202628 Introduction of mobility-state-based cell reselection for NR HSDN CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo

[11] R2-2202629 Introduction of mobility-state-based cell reselection for NR HSDN CMCC, CATT, Ericsson, Huawei, ZTE, Nokia, OPPO, vivo

[12] R2-2203366 Addition of Timing Advance measurement reporting in NR E-CID [NRTADV] Ericsson, NTT Docomo, Polaris Wireless, Verizon, China Telecom, FirstNet, Deutsche Telekom, Intel Corporation, CATT, Nokia, Nokia Shanghai Bell, Huawei

[13] R2-2202608 Introduction of RACH triggers for T\_ADV in NR E-CID [NRTADV] Huawei, HiSilicon, Ericsson, CATT, NTT DOCOMO, Deutsche Telekom, Polaris Wireless, ZTE Corporation