**3GPP TSG RAN WG2 Meeting #110-e R2-200xxxx
E-Conference, 1st – 12th June 2020**

**Agenda item: 5.4.3.1**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Summary of [AT110e][014][NR15] UE Cap IPA and email disc last meeting (Nokia)**

**Document for: Discussion and Decision**

1. Introduction

This is a summary of below offline discussion:

5.4.3 UE capabilities and Capability Coordination

5.4.3.0 In-principle Agreed CRs

[R2-2005112](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005112.zip) Ambiguity in fr1-fr2-Add-UE-NR-Capabilities parameter Ericsson, NTT Docomo CR Rel-15 38.331 15.9.0 1648 - F NR\_newRAT-Core

[R2-2005113](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005113.zip) Ambiguity in fr1-fr2-Add-UE-NR-Capabilities parameter Ericsson, NTT Docomo CR Rel-16 38.331 16.0.0 1649 - A NR\_newRAT-Core

*Chair: Why new CR and not a revision?*

[R2-2005407](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005407.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1559 2 F NR\_newRAT-Core R2-2004197

[R2-2005408](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005408.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1560 2 A NR\_newRAT-Core R2-2004198

[R2-2005409](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005409.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-15 38.306 15.9.0 0294 1 F NR\_newRAT-Core R2-2004199

[R2-2005410](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005410.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0295 1 A NR\_newRAT-Core R2-2004200

[R2-2005395](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005395.zip) Correction to RequestedCapabilityCommon Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1561 1 F NR\_newRAT-Core R2-2003463

[R2-2005396](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005396.zip) Correction to RequestedCapabilityCommon Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1562 1 A NR\_newRAT-Core R2-2003464

[R2-2004842](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004842.zip) Missing "Optional features without UE radio access capability parameters" Ericsson CR Rel-15 38.306 15.9.0 0317 - F NR\_newRAT-Core

[R2-2004843](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004843.zip) Missing "Optional features without UE radio access capability parameters" Ericsson CR Rel-16 38.306 16.0.0 0318 - A NR\_newRAT-Core

*Chair: Why new CR and not a revision?*

*All above Treated by email [014]*

5.4.3.1 Other

*Including Late Drop.*

*Including outcome of email discussion [Post109bis-e][064][NR15] XDD FRX differentiation (Qualcomm)*

*Including outcome of email discussion [Post109bis-e][921][NR15] CRs for FR2 CA Fallback (Apple)*

*Including outcome of email discussion [Post109bis-e][922][NR15] Default values for UE capability (Nokia)*

*Including outcome of email discussion [Post109bis-e][923][NR15] clarification on codebook parameters for 2-32 (Huawei)*

*Including outcome of email discussion [Post109bis-e][924][NR15] unnecessary FRx differentiation (ZTE)*

**[AT110e][014][NR15] UE Cap IPA and email disc last meeting (Nokia)**

 Scope: Treat all IPA CRs under 5.4.3.0, and from 5.4.3.1: R2-2006021, R2-2006022, R2-2005411, R2-2005412, R2-2005413, R2-2004478, R2-2004479

 Part 1: Agree In-principle agreed CRs, for others: Decision whether to make corrections or not, identify agreeable corrections. Deadline: June 4, 0700 UTC.

 Part 2: For others, for agreeable parts, continuation to agree CRs. Deadline: June 10, 0700 UTC

2. Discussions

## 2.0 Discussion on IPA CRs in 5.4.3.0

|  |  |
| --- | --- |
| Company | Any comments on IPA CRs? Feedback here with CR number and comment |
|  |  |
|  |  |

## 2.1 Discussion on default values

## Including outcome of email discussion [Post109bis-e][922][NR15] Default values for UE capability (Nokia)

## Please provide your comments to the drafts in R2-2006021 (Rel-15) and R2-2006022 (Rel-16 shadow)

* NOTE the drafts are available in the email discussion folder as the revision numbers were acquired after the meeting started

|  |  |
| --- | --- |
| Company | Comments [R2-2006021 (Rel-15) and R2-2006022 (Rel-16 shadow] |
| Nokia |  |
|  |  |

## 2.2 Codebook parameters

Including outcome of email discussion [Post109bis-e][923][NR15] clarification on codebook parameters for 2-32 (Huawei) in R2-2005411.

* Please provide your comments in the table below for R2-2005412 and R2-2005413

|  |  |
| --- | --- |
| Company | Comments [R2-2005412 (Rel-15) and R2-2005413 (Rel-16 shadow)] |
|  |  |
|  |  |

## 2.3 Unnecessary FRx differentiation

Including outcome of email discussion [Post109bis-e][924][NR15] unnecessary FRx differentiation (ZTE) in R2-2004478

* Please provide your comments in the table below for R2-2004479 and R2-2004480

|  |  |
| --- | --- |
| Company | Comments [R2-2004479 (Rel-15) and R2-2004480 (Rel-16 shadow)] |
|  |  |
|  |  |

# 3. Conclusion

Summary to be provided at end of the discussion.

# References

5.4.3.0 In-principle Agreed CRs

[R2-2005112](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005112.zip) Ambiguity in fr1-fr2-Add-UE-NR-Capabilities parameter Ericsson, NTT Docomo CR Rel-15 38.331 15.9.0 1648 - F NR\_newRAT-Core

[R2-2005113](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005113.zip) Ambiguity in fr1-fr2-Add-UE-NR-Capabilities parameter Ericsson, NTT Docomo CR Rel-16 38.331 16.0.0 1649 - A NR\_newRAT-Core

*Chair: Why new CR and not a revision?*

[R2-2005407](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005407.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1559 2 F NR\_newRAT-Core R2-2004197

[R2-2005408](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005408.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1560 2 A NR\_newRAT-Core R2-2004198

[R2-2005409](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005409.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-15 38.306 15.9.0 0294 1 F NR\_newRAT-Core R2-2004199

[R2-2005410](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005410.zip) SRS Capability report for SRS only Scell Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0295 1 A NR\_newRAT-Core R2-2004200

[R2-2005395](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005395.zip) Correction to RequestedCapabilityCommon Huawei, HiSilicon CR Rel-15 38.331 15.9.0 1561 1 F NR\_newRAT-Core R2-2003463

[R2-2005396](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005396.zip) Correction to RequestedCapabilityCommon Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1562 1 A NR\_newRAT-Core R2-2003464

[R2-2004842](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004842.zip) Missing "Optional features without UE radio access capability parameters" Ericsson CR Rel-15 38.306 15.9.0 0317 - F NR\_newRAT-Core

[R2-2004843](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004843.zip) Missing "Optional features without UE radio access capability parameters" Ericsson CR Rel-16 38.306 16.0.0 0318 - A NR\_newRAT-Core

*Chair: Why new CR and not a revision?*

*All above Treated by email [014]*

**Default values**

Including outcome of email discussion [Post109bis-e][922][NR15] Default values for UE capability (Nokia)

[R2-2004454](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004454.zip) Default values for UE capability Nokia, Nokia Shanghai Bell, NTT Docomo CR Rel-15 38.306 15.9.0 0176 5 F NR\_newRAT-Core R2-2002990 Revised

[R2-2005709](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2005709.zip) Default values for UE capability Nokia, Nokia Shanghai Bell, NTT Docomo CR Rel-15 38.306 15.9.0 0176 6 F NR\_newRAT-Core [R2-2004454](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2004454.zip) Late

=> Revised in R2-2006021

R2-2006021 Default values for UE capability Nokia, Nokia Shanghai Bell, NTT Docomo CR Rel-15 38.306 15.9.0 0176 7 F NR\_newRAT-Core R2-2004454 Late

[R2-2004455](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2004455.zip) Default values for UE capability Nokia, Nokia Shanghai Bell, NTT Docomo CR Rel-16 38.306 16.0.0 0304 - A NR\_newRAT-Core Revised

[R2-2005710](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2005710.zip) Default values for UE capability Nokia, Nokia Shanghai Bell, NTT Docomo CR Rel-16 38.306 16.0.0 0304 1 A NR\_newRAT-Core [R2-2004455](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2004455.zip) Late

=> Revised in R2-200-6022

R2-2006022 Default values for UE capability Nokia, Nokia Shanghai Bell, NTT Docomo CR Rel-16 38.306 16.0.0 0304 2 A NR\_newRAT-Core R2-2004455 Late

**Codebook parameters**

Including outcome of email discussion [Post109bis-e][923][NR15] clarification on codebook parameters for 2-32 (Huawei)

[R2-2005411](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2005411.zip) Summary of [Post109bis-e][923][NR15] clarification on codebook parameters for 2-32 Huawei, HiSilicon report NR\_newRAT-Core

[R2-2005412](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2005412.zip) on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon CR Rel-15 38.306 15.9.0 0332 - F NR\_newRAT-Core

[R2-2005413](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2005413.zip) on the capability of Basic CSI feedback (2-32) Huawei, HiSilicon CR Rel-16 38.306 16.0.0 0333 - F NR\_newRAT-Core

**Unnecessary FRx differentiation**

Including outcome of email discussion [Post109bis-e][924][NR15] unnecessary FRx differentiation (ZTE)

[R2-2004478](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2004478.zip) Report of [Post109bis-e][924][NR15] Unnecessary FRx differentiation ZTE Corporation discussion Rel-15 NR\_newRAT-Core

[R2-2004479](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2004479.zip) CR on unnecessary xDD FRx differentiation ZTE Corporation, Sanechips CR Rel-15 38.331 15.9.0 1605 - F NR\_newRAT-Core

[R2-2004480](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2005_R2_110-e/Docs/R2-2004480.zip) CR on unnecessary xDD FRx differentiation ZTE Corporation, Sanechips CR Rel-16 38.331 16.0.0 1606 - F NR\_newRAT-Core