**3GPP TSG-RAN WG4 Meeting # 102-e R4-22xxxxx**

**Electronic Meeting, 21th Feb - 3rd March 2022**

**Agenda item:** 9.40

**Source:** Moderator (OPPO)

**Title:** Email discussion summary for [102-e][121] NR\_4Rx\_Bn8\_FWA

**Document for:** Information

# Introduction

This summary covers the papers submitted in agenda 9.40.

# Topic #1:ΔRIB,4R for n8

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2204048 | CHTTL, China Unicom, ZTE, SGS Wireless | CR for 4 Rx antenna ports support of band n8 |

## CR comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2204048 | CR for 4 Rx antenna ports support of band n8 |
| ZTE: Agree with the CR.  SoftBank: Agree with the CR. |

## Summary for 1st round

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| **CR/TP number** | **Comments collection** |
| R4-2204048 | CR for 4 Rx antenna ports support of band n8 |
| Agreeable |

# Topic #2: Release independent

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2204049 | CHTTL, China Unicom, ZTE | Proposal 1: Considering the 4Rx feature is introduced in some of the FR1 NR bands in Rel.15, and following the agreed procedure for introducing release independent features, the changes for release independent aspect of NR 4Rx feature will be introduced from the Rel.15 TS 38.307 specification.  Proposal 2: Agree on the related draft CRs, R4-2204050, R4-2204051, and R4-2204052 for TS 38.307. |
| R4-2204050 | CHTTL, China Unicom, ZTE | draft CR for release independent for 4Rx support for NR band |
| R4-2204051 | CHTTL, China Unicom, ZTE | draft CR for release independent for 4Rx support for NR band |
| R4-2204052 | CHTTL, China Unicom, ZTE | draft CR for release independent for 4Rx support for NR band |

## Open issues summary

**Issue 1: Is below proposal acceptable for 4Rx release independent?**

Proposal 1: Considering the 4Rx feature is introduced in some of the FR1 NR bands in Rel.15, and following the agreed procedure for introducing release independent features, the changes for release independent aspect of NR 4Rx feature will be introduced from the Rel.15 TS 38.307 specification.

* Option 1: Yes
* Option 2: No

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| --- | --- |
| **Company** | **Comments** |
| ZTE | Option 1: Yes |
| HW | There is discussion in email thread [101] sub-topic 2-1 on how to capture the procedure. One option is that if the RF feature is introduced in the same release as the release which the feature is independent from, the common RF requirement table in 38.307 is specified from release N+1.  If the option is agreed by RAN4 then at least R15 CR is not needed for 4Rx release independent information. |
| CHTTL | Option 1: Yes  To HW, the “common RF requirement table in 38.307” discussed in email thread [101] is the annex B and also there is a column “requirements to be fulfilled” refers to that, which is basically in the current specification, as you can see, there is no annex B in the Rel.15 38.307, since the requirements are also in the same release, so that there is no need to put additional reference, the option is just to confirm it, and with this option the Rel.15 draft CR is also needed.  And the draft CRs actually follow the option, in Rel.15 draft CR, the column “requirements to be fulfilled” is empty, and there is no annex B. And those information is in Rel.16 and Rel.17 draft CRs. |
| SoftBank | Support Option 1 and we are fine with updating the draft CRs based on the discussion results in email thread [101]. |

## CR comments collection

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2204050 | draft CR for release independent for 4Rx support for NR band  Note: R15 |
| ZTE: Agree |
| HW: Whether R15 CR is needed depends on discussion in email thread [101].  CHTTL: agree, see the response in 2.2. |
| R4-2204051 | draft CR for release independent for 4Rx support for NR band  Note: R16 |
| ZTE: Agree |
| HW: The R16 CR is useful but seems applicable for R16 bands rather than band n8. Is R16 maintenance AI a better place?  CHTTL: we submitted to this agenda since all the draft CRs are related. Not sure whether separated agenda is better, but anyway these draft CRs for 38.307 provided from Rel.15 are aligned with the agreed 38.307 procedure in previous RAN4 meeting. |
| R4-2204052 | draft CR for release independent for 4Rx support for NR band  Note: R17 |
| ZTE: Agree |
| HW: Agree |

## Summary for 1st round

### Open issues

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| --- | --- |
|  | **Status summary** |
| * Issue 1: Is below proposal acceptable for 4Rx release independent? | *Tentative agreements:* It is pointed out there is dependent on thread [101] conclusion on principles of release independent. Can be further discussed in 2nd round.  *Recommendations for 2nd round:* Return to in 2nd round. |

### CRs/TPs

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| --- | --- |
| **CR/TP number** | **Summary** |
| R4-2204050 | draft CR for release independent for 4Rx support for NR band  Note: R15 |
| Different views, return to in 2nd round with conclusions in thread [101] |
| R4-2204051 | draft CR for release independent for 4Rx support for NR band  Note: R16 |
| Different views, return to in 2nd round with conclusions in thread [101] |
| R4-2204052 | draft CR for release independent for 4Rx support for NR band  Note: R17 |
| Agreeable |

## Discussion on 2nd round

### Open issues

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| --- | --- |
|  | **Comments** |
| **Issue 1: Is below proposal acceptable for 4Rx release independent?**  Proposal 1: Considering the 4Rx feature is introduced in some of the FR1 NR bands in Rel.15, and following the agreed procedure for introducing release independent features, the changes for release independent aspect of NR 4Rx feature will be introduced from the Rel.15 TS 38.307 specification. | HW: 4Rx as part of Rel-15 core requirements, could apply to Rel-15 automatically, therefore doesn’t need to be included in Rel-15 38.307. |

### CRs/TPs

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| --- | --- |
| **CR/TP number** | **Summary** |
| R4-2204050 | draft CR for release independent for 4Rx support for NR band  Note: R15 |
| HW: Prefer not to agree this CR. |
| R4-2204051 | draft CR for release independent for 4Rx support for NR band  Note: R16 |
| HW: Agreeable. |

# Recommendations for Tdocs

## 1st round

1. **Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
| R4-2204048 | CR for 4 Rx antenna ports support of band n8 | CHTTL, China Unicom, ZTE, SGS Wireless | Agreeable |  |
| R4-2204049 | Further discussion on release independent for 4Rx support for NR band | CHTTL, China Unicom, ZTE | Noted |  |
| R4-2204050 | draft CR for release independent for 4Rx support for NR band | CHTTL, China Unicom, ZTE | return to |  |
| R4-2204051 | draft CR for release independent for 4Rx support for NR band | CHTTL, China Unicom, ZTE | return to |  |
| R4-2204052 | draft CR for release independent for 4Rx support for NR band | CHTTL, China Unicom, ZTE | Agreeable |  |

# Annex

Contact information

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Note:

1. Please add your contact information in above table once you make comments on this email thread.
2. If multiple delegates from the same company make comments on single email thread, please add you name as suffix after company name when make comments i.e. Company A (XX, XX)