**3GPP TSG-RAN WG4 Meeting # 97-e-Bis R4-201xxxx**

**Electronic Meeting, 2 – 13 November 2020**

**Agenda item:** 15.1

**Source:** Man Hung Ng (Nokia)

**Title:** Email discussion summary for [97e][145] FS\_LTE\_NR\_HPUE\_FWVM

**Document for:** Information

# Introduction

Email discussion for contributions submitted under agenda item 15 for Study on High-power UE operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, and Band n71.

List of candidate target of email discussion for 1st round and 2nd round

* 1st round: Approval of updated TR, discussion of submitted Simulation Results and any update on Simulation Assumptions and Work Plan
* 2nd round: Approval of updated Simulation Assumptions and Work Plan, if any

# Topic #1: Updated TR

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2014479 | Nokia, Nokia Shanghai Bell | Proposal 1: Updated TR for Study on High-power UE operation for fixed-wireless/vehicle-mounted use cases in Band 12, Band 5, and Band n71.  Observation 1: |

## Open issues summary

### Sub-topic 1-1

**Issue 1-1: Updated TR**

* Proposals
  + Option 1: Approve updated TR
  + Option 2: Revise updated TR
* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 1-1:  Sub topic 1-2:  ….  Others: |

### CRs/TPs comments collection

*Major close-to-finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| XXX | Company A |
| Company B |
|  |
| YYY | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #2: Simulation Assumptions and Results

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2014480 | Nokia, Nokia Shanghai Bell | Proposal 1: This contribution provides the coexistence simulation results for this scenario according to the agreed assumptions.  Observation 1: The victim NB-IoT UE UL SINR degradation caused by the 23dBm interfering LTE UE and 31dBm interfering HPUE are similar (within 0.5dB difference).  Observation 2: The currently specified -43dBm BS receiver blocking requirement can provide enough protection for the NB-IoT BS receiver against the HPUE transmission. |

## Open issues summary

### Sub-topic 2-1

**Issue 2-1: Agreement on Observation 1**

* Proposals
  + Option 1: Agree the observation
  + Option 2: Wait for more results
  + Option 3: Update the simulation assumptions
* Recommended WF
  + TBA

### Sub-topic 2-2

**Issue 2-2: Agreement on Observation 2**

* Proposals
  + Option 1: Agree the observation
  + Option 2: Wait for more results
  + Option 3: Update the simulation assumptions
* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 2-1:  Sub topic 2-2:  ….  Others: |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| XXX | Company A |
| Company B |
|  |
| YYY | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #3: Work Plan

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-20xxxxx | Company A | Proposal 1:  Observation 1: |

## Open issues summary

### Sub-topic 3-1

**Issue 3-1: Approved Work Plan (R4-2011199)**

**Table 1: Work plan for RAN4 meetings before target completion date**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TSG/WG** | **Meeting Number** | **Date** | **TU** | **Tasks** |
| RAN4RF | #96e | Aug 17-28, 2020 | 0.25 | 1) General  - Approve initial work plan  - Approve skeleton TR  2) Coexistence study  - Agree initial simulation assumptions  - Agree initial simulation results priority  3) UE RF  - Agree initial assumptions for further analyses on UE operation  - Agree initial assumptions for further analyses on new components |
| **RAN** | **#89e** |  |  |  |
| RAN4RF | #97e | Oct 26 to Nov 13, 2020 | 0.25 | 1) General  - Approve revised work plan, if any  - Approve updated TR  2) Coexistence study  - Discuss initial simulation results  - Agree revised simulation assumptions, if any  - Agree revised simulation results priority  3) UE RF  - Discuss initial analyses on UE operation  - Discuss initial analyses on new components  - Agree revised assumptions for further analyses, if any |
| **RAN** | **#90e** |  |  |  |
| RAN4RF | #98e | March 1-5, 2021 | 0.25 | 1) General  - Approve updated TR  - Agree on conclusion of the study item  2) Coexistence study  - Further discuss simulation results  - Agree on conclusion of considered UE requirements from results  3) UE RF  - Further discuss analyses on UE operation  - Further discuss analyses on new components  - Agree on conclusion of considered UE requirements from analyses |
| **RAN** | **#91** |  |  |  |

* Proposals
  + Option 1: Keep current Work Plan
  + Option 2: Update Work Plan according to progress
* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 3-1:  Sub topic 3-2:  ….  Others: |

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| --- | --- |
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| XXX | Company A |
| Company B |
|  |
| YYY | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

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|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

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## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

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|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
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