**3GPP TSG-RAN WG4 Meeting #94-e R4-20xxxxx**

**Electronic Meeting, Feb.24th – Mar.6th 2020**

**Agenda item:** 7.10.2

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for RAN4#94e\_#6\_LTE\_eMTC5

**Document for:** Information

# Introduction

The scope of the email discussion is to discuss the TP proposal and relevant paper for the TR 37.823. There are several topics related to TR37.823:

#1: TR update and corrections

#2: Specific aspect for TDD

#3: R16 RAN1 feature impact on LTE-MTC coexisting with NR

#4: Remaining topic in TR 37.823

There is no TP or discussion paper for power boosting for LTE-MTC so there is a need to discuss how to proceed on the remaining topic in TR37.823 so the TR can be finalized in R16.

For the first round, we will discuss the Topic #1 to #3 also decision on Topic #4.

For second round, we will review the modified version of TP.

# Topic #1: TR update and corrections

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2001862 | Ericsson | TR updates based on previous meeting CR |

## Open issues summary

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX |  |

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2001862 | 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: Specific aspect for TDD

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2001127 | Huawei | TP for specific aspect for TDD |

## Open issues summary

No open issue on Specific aspect for TDD.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2001127 | Company A |
| Company B |
|  |

## Summary for 1st round

### Open issues

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| --- | --- |
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*Recommendations on WF/LS assignment*

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

### CRs/TPs

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| --- | --- |
| **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)

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|  |  |
| --- | --- |
| **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: R16 RAN1 coexisting feature impact

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2001864 | Ericsson | Proposal: Capture the R16 RAN1 two co-existing feature in TR 37.823. |
| R4-2001863 | Ericsson | TP for 7.3 and 8.1 |

## Open issues summary

RAN1 LTE-M coexisting with NR feature need to be reflected in TR37.823. There are two features, subcarrier puncturing and finer resource reservation for R16 LTE-MTC. How to capture the features in TR 37.823 need to be discussed.

### Sub-topic 3-1: subcarrier puncturing

This feature is relevant to PRB alignment in chapter 7.

* Proposal
  + Option 1: separate chapter in 7.3 to capture the feature impact
  + Option 2: TBA
* Recommended WF
  + TBA

### Sub-topic 3-2: Resource reservation

Finer resource reservation in LTE-M can give more NR resource allocation flexibility.

* Proposals
  + Option 1: capture the finer resource reservation in chapter 8.1
  + Option 2: TBA
* 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

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2001863 | 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** |
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### CRs/TPs

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## Summary on 2nd round (if applicable)

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# Topic #4: Remaining issue in TR37.823

There is no TP proposal for power boosting for LTE-MTC topic, hence some discussion around how to handle this topic. We could also discuss if conclusion of the TR can be finalized.

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
|  |  |  |

## Open issues summary

As there is no TP or discussion paper relate to Power boosting for LTE-MTC topic, this could mean there is no issue seen by companies and hence there is no need to proceed on this topic. Different opinion could be captured relate to this.

### Sub-topic 4-1: Power boosting for LTE-MTC

* Proposal
  + Option 1: Remove chapter 8.3 and companies see no issue to bring it up in TR37.823
  + Option 2: To be decided in future meeting.
* Recommended WF
  + TBA

### Sub-topic 4-2: conclusion on Chapter 11

* Proposal
  + Option 1: Conclude “there is no issue seen in this report for LTE-MTC coexisting with NR”
  + Option 2: To be decided in future meeting.
* 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

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2001863 | 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*

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