3GPP TSG-RAN WG4 Meeting # 100-e R4-21xxxxx

Electronic Meeting, August 16-27, 2021

**Agenda item:** 8.44

**Source:** Moderator (CMCC)

**Title:** Email discussion summary for [100-e][124] NR\_DSS\_34\_39

**Document for:** Information

# Introduction

In RAN#92E meeting, a new WI on LTE/NR spectrum sharing in Band 34/n34 and Band 39/n39 was approved.

The work item aims to specify spectrum sharing requirements for n34 and n39.

• Introduce UL 7.5kHz frequency shift for 15kHz SCS operation from Rel-15 [RAN4]

• Study for backward compatibility

• Study for which release UL shift can be made mandatory

This email discussion includes contributions in agenda 8.44, the targets of email discussion based on companies’ contributions submitted in this e-meeting are as below:

* 1st round:
  + Discuss backward compatibility for which release UL shift can be made mandatory, and provide comments on the CRs and contributions.
* 2nd round:
  + Strive to approve CRs or WF.

# Topic #1: Introduction of uplink 7.5KHz frequency shift for n34 and n39

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2112192**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112192.zip) | CMCC | ***Proposal 1: There is no backward compatibility issue to introduce UL 7.5KHz frequency shift from Rel-15 for n34 and n39***  ***Proposal 2: it is proposed to mandatory support UL 7.5KHz frequency shift from Rel-15 for n34 and n39.*** |
| [**R4-2112346**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112346.zip) | Apple | Proposal 1: UL 7.5kHz shift is kept optional in Rel-15 for TDD bands n34 and n39 (not preventing Rel-15 UEs from implementing and supporting it).  Proposal 2: UL shift is mandatory for TDD bands n34 and n39 in later releases. |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 1-1 Uplink 7.5KHz frequency shift for n34 and n39

**Issue 1-1-1: Release independent issue**

* Proposals
  + Option1: No backward compatibility issue to introduce UL 7.5KHz frequency shift from Rel-15 for n34 and n39, and it is proposed to mandatory support UL 7.5KHz frequency shift from Rel-15 for n34 and n39.
  + Option2: UL 7.5kHz shift is kept optional in Rel-15 for TDD bands n34 and n39, and UL shift is mandatory for TDD bands n34 and n39 in later releases.
* Recommended WF
  + TBA. Collect companies’ view in 1st round

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Issue 1-1-1:  Issue 1-1-2:  ….  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** |
| [**R4-2112193**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112193.zip) | Company A |
| Company B |
|  |
| [**R4-2112194**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112194.zip) | Company A |
| Company B |
|  |
| [**R4-2112195**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2112195.zip) | Company A |
| Company B |
|  |
| [**R4-2114376**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114376.zip) | Company A |
| Company B |
|  |
| [**R4-2114377**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114377.zip) | Company A |
| Company B |
|  |
| [**R4-2114378**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114378.zip) | 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”* |

# Recommendations for Tdocs

## 1st round

**New tdocs**

|  |  |  |
| --- | --- | --- |
| **Title** | **Source** | **Comments** |
|  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |
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Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics incl. existing and new tdocs.
2. For the Recommendation column please include one of the following:
   1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
   2. Other documents: Agreeable, Revised, Noted
3. For new LS documents, please include information on To/Cc WGs in the comments column
4. Do not include hyper-links in the documents

## 2nd round

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
|  |  |  |  |  |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics.
2. For the Recommendation column please include one of the following:
   1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
   2. Other documents: Agreeable, Revised, Noted
3. Do not include hyper-links in the documents