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

Electronic Meeting, 2-13 Nov., 2020

**Agenda item:** 10.25

**Source:** Moderator (Huawei)

**Title:** Email discussion summary for [97e][128] NR\_n13

**Document for:** Information

# Introduction

The scope of this email discussion is to discuss the contributions submitted at agenda 10.25 to specify a new NR FDD operating band n13.

The target of 1st round is to discuss the potential agreements on A-MPR values and comments collection for the CRs for n13.

# Topic #1: A-MPR for NS\_07

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2014902 | Apple Inc. | This paper presents A-MPR values for NS\_07 requirements. |
| R4-2011801  (it was approved in RAN4#96-e) | Qualcomm, Huawei | The A-MPR for NS\_07 was tentatively agreed with [] for further confirmation. |

## Open issues summary

### Sub-topic 1-1

**Issue 1-1: A-MPR for NS\_07**

* Proposals
  + Option 1: the A-MPR proposed in R4-2014902

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| --- | --- | --- | --- | --- | --- |
| Waveform | Modulation | A1 | A2 | A3 | A4 |
| Outer / Inner | Outer / Inner | Outer / Inner | Outer / Inner |
| DFT-s-OFDM | PI/2 BPSK | 14 | 9 | 6 | 3 |
| QPSK | 14 | 9 | 6 | 3 |
| 16QAM | 14 | 9 | 6 | 3 |
| 64QAM | 14 | 9 | 6 | 3 |
| 256QAM | 14 | 9 | 6 | 3 |
| CP-OFDM | QPSK | 15 | 10 | 7 | 3 |
| 16QAM | 15 | 10 | 7 | 3 |
| 64QAM | 15 | 10 | 7 | 3 |
| 256QAM | 15 | 10 | 7 | 3 |

* + Option 2: the A-MPR tentatively agreed in WF R4-2011801

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Modulation/Waveform | A1 | A2 | A3 | A4 |
| Outer/Inner | Outer/Inner | Outer/Inner | Outer/Inner |
| DFT-s-OFDM PI/2 BPSK | 12 | 9 | 6 | 3 |
| DFT-s-OFDM QPSK | 12 | 9 | 6 | 3 |
| DFT-s-OFDM 16 QAM | 12 | 9 | 6 | 3 |
| DFT-s-OFDM 64 QAM | 12 | 9 | 6 | 3 |
| DFT-s-OFDM 256 QAM | 12 | 9 | 6 | 3 |
| CP-OFDM QPSK | 14 | 10 | 7 | 3 |
| CP-OFDM 16 QAM | 14 | 10 | 7 | 3 |
| CP-OFDM 64 QAM | 14 | 10 | 7 | 3 |
| CP-OFDM 256 QAM | 14 | 10 | 7 | 3 |

Note: the only difference between Option 1 and 2 is the value for A1.

* Recommended WF
  + TBD

## Companies views’ collection for 1st round

### Open issues

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

*Recommendations on WF/LS assignment*

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

## 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*

# Topic #2: CRs for n13 introduction

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2015682 | Huawei, HiSilicon | CR to TS 38.101-1: introduction of NR band n13 |
| R4-2015683 | Huawei, HiSilicon | CR to TS 38.133: introduction of NR band n13 |
| R4-2015684 | Huawei, HiSilicon | CR to TS 38.104: introduction of NR band n13 |
| R4-2015685 | Huawei, HiSilicon | CR to TS 38.141-1: introduction of NR band n13 |
| R4-2015686 | Huawei, HiSilicon | CR to TS 38.141-2: introduction of NR band n13 |
| R4-2015687 | Huawei, HiSilicon | CR to TS 36.104: introduction of NR band n13 |
| R4-2015688 | Huawei, HiSilicon | CR to TS 36.141: introduction of NR band n13 |
| R4-2015689 | Huawei, HiSilicon | CR to TS 37.104: introduction of NR band n13 |
| R4-2015690 | Huawei, HiSilicon | CR to TS 37.141: introduction of NR band n13 |
| R4-2015691 | Huawei, HiSilicon | CR to TS 37.105: introduction of NR band n13 |
| R4-2015692 | Huawei, HiSilicon | CR to TS 37.145-1: introduction of NR band n13 |
| R4-2015693 | Huawei, HiSilicon | CR to TS 37.145-2: introduction of NR band n13 |

## Companies views’ collection for 1st round

### CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2015682 |  |
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| R4-2015683 |  |
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| R4-2015685 |  |
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| R4-2015686 |  |
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| R4-2015688 |  |
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| R4-2015691 |  |
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| R4-2015692 |  |
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| R4-2015693 |  |
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## Summary for 1st round

### 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** |
|  |  |

## 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*