**3GPP TSG-RAN Meeting #97-e RP-22xxxx**

**Electronic Meeting, September 12 – 16, 2022**

**Agenda item:** 9.1.5, 10.1.5

**Source:** Moderator (RAN4 Chair)

**Title:** Email discussion summary for [97e-38-CompanyCR-RAN4-WCS]

**Document for:** Information

# Introduction

In this email thread we will discussion the CR to remove [ ] for NS\_21 A-MPR for n30.

The following contributions will be covered.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Type** | **AI** |
| RP-222490 | CR to 38.101-1 on new NS for Canadian WCS regulation R17 | Apple, Telus | CR | 14 |

In this document, we capture comments and conclusions for this email thread.

# Topic #1: Remove square brackets of NS\_21 A-MPR requirements

## Companies’ contributions summary

The reason for change is provided below.

*This CR is to remove the square brackets of NS\_21 A-MPR requirements according to the proposal in R4-2215129 approved in RAN4 #104-e meeting.*

## Initial round

### Comments & responses for Rel-16/17 38.101-1 CRs (RP-222490) for NS\_21 A-MPR

**Sub-topic 1-1: Comments for 38.101-1 CR RP-222490. Can this CR be approved?**

------------------------------------------ Changes ------------------------------------------------------------------------

6.2.3.14 A-MPR for NS\_21

**Table 6.2.3.14-1: A-MPR for "NS\_21"**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Channel Bandwidth**  **(MHz)** | **Modulation/Waveform** | | **Region A1a**  **RBstart ≤ 1.44MHz/12/SCS**  **LCRB ≤ 0.54 MHz/12/SCS** | **Region A1b**  **RBstart ≤ 1.44MHz/12/SCS**  **LCRB > 0.54 MHz/12/SCS**  **LCRB ≤ 2.16MHz/12/SCS** | **Region A2**  **LCRB > 5.4MHz/12/SCS** | **Region A3b**  **RBend ≥ 7.74MHz/12/SCS**  **LCRB > 0.54 MHz/12/SCS**  **LCRB ≤ 2.16MHz/12/SCS** | **Region A3a**  **RBend ≥ 7.74MHz/12/SCS**  **LCRB ≤ 0.54 MHz/12/SCS** |
|  |  | | **Outer/Inner** | | **Outer** | **Outer/Inner** | |
| 10 | DFT-s-OFDM | PI/2 BPSK | 6 | 3 | 4 | 3 | 6 |
|  |  | QPSK | 6 | 3 | 4 | 3 | 6 |
|  |  | 16 QAM | 6 | 3 | 4 | 3 | 6 |
|  |  | 64 QAM | 6 | 3 | 4 | 3 | 6 |
|  |  | 256 QAM | 6 | 3 | 4 | 3 | 6 |
|  | CP-OFDM | QPSK | 6 | 4 | 5.5 | 4 | 6 |
|  |  | 16 QAM | 6 | 4 | 5.5 | 4 | 6 |
|  |  | 64 QAM | 6 | 4 | 5.5 | 4 | 6 |
|  |  | 256 QAM | 6 | 4 | 5.5 | 4 | 6 |

**Table 6.2.3.14-2: A-MPR for "NS\_21"**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Channel Bandwidth**  **(MHz)** | **Modulation/Waveform** | | **Region A1a**  **RBstart ≤ 0.36MHz/12/SCS**  **LCRB ≤ 0.54 MHz/12/SCS** | **Region A1b**  **RBstart ≤ 0.36MHz/12/SCS**  **LCRB > 0.54 MHz/12/SCS**  **LCRB ≤ 2.52MHz/12/SCS** | **Region A2**  **LCRB > 2.52MHz/12/SCS** | **Region A3b**  **RBend ≥ 3.96MHz/12/SCS**  **LCRB > 0.54 MHz/12/SCS**  **LCRB ≤ 2.52MHz/12/SCS** | **Region A3a**  **RBend ≥ 3.96MHz/12/SCS**  **LCRB ≤ 0.54 MHz/12/SCS** |
|  |  | | **Outer/Inner** | | **Outer** | **Outer/Inner** | |
| 5 | DFT-s-OFDM | PI/2 BPSK | ≤ 4.0 | ≤ 2.0 | ≤ 1.5 | [2.0 | [4.0 |
|  |  | QPSK | ≤ 4.5 | ≤ 2.5 | ≤ 2.0 | ≤ 2.5 | ≤ 4.5 |
|  |  | 16 QAM | ≤ 4.5 | ≤ 2.5 | ≤ 2.5 | ≤ 2.5 | ≤ 4.5 |
|  |  | 64 QAM | ≤ 4.5 | ≤ 2.5 | ≤ 2.5 | ≤ 2.5 | ≤ 4.5 |
|  |  | 256 QAM | ≤ 4.5 | ≤ 4.5 | ≤ 4.5 | ≤ 4.5 | ≤ 4.5 |
|  | CP-OFDM | QPSK | ≤ 4.5 | ≤ 4.0 | ≤ 4.0 | ≤ 4.0 | ≤ 4.5 |
|  |  | 16 QAM | ≤ 4.5 | ≤ 4.0 | ≤ 4.0 | ≤ 4.0 | ≤ 4.5 |
|  |  | 64 QAM | ≤ 4.5 | ≤ 4.0 | ≤ 4.0 | ≤ 4.0 | ≤ 4.5 |
|  |  | 256 QAM | ≤ 6.5 | ≤ 6.5 | ≤ 6.5 | ≤ 6.5 | ≤ 6.5 |

------------------------------------------ Changes ------------------------------------------------------------------------

Companies are invited to provide the comments in the follow table.

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

### Summary

Moderator summarizes discussion status for initial round, list all the identified open issues and tentative agreements or candidate options and suggestion for next round.

## Intermediate round

### Comments & responses

In this round, the following issues need be further discussed and addressed.

Companies are invited to provide comments and responses in the following table.

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

### Summary

Moderator summarizes discussion status for this round, list all the identified open issues and tentative agreements or candidate options and suggestion for next round.

# Summary of Recommendations