**3GPP TSG-RAN Meeting # 90-e RP-20XXX**

**Electronic Meeting, December 7-11, 2020**

**Agenda item:** 9.1.4

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for [90E][13][BCS4]

**Document for:** Information

# Introduction

The documents intent to capture companies’ comments on documents related to the WID on Introduction of BCS4 [1-3]. This is spectrum related WI proposal.

# Comments on Introduction of BCS4

## Topics for discussion

* Sub-topic 1-1: Objectives of WID ([**RP-202256**](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_90e/Docs/RP-202256.zip))
* Sub-topic 1-2: Proposed recommendation to basket WIs
* Sub-topic 1-3: Timeline e.g. number of meetings
* Sub-topic 1-4: Any other issue

## Companies’ views collected

### Sub-topic 1-1: Objectives of WID ([RP-202256](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_90e/Docs/RP-202256.zip))

Please provide comments, if any, on the following WID objectives:

1. Introduce BCS 4 for inter-band and intra-band NR-CA, which shall indicate that for the band combination the UE supports all of the possible combinations of bandwidths based on the bandwidths the UE supports for each band as indicated in the UE capabilities and restricted by the notes in Table 5.3.5-1 in 38-101-1, and the maximum bandwidth for the band in the band combination as indicated in the UE capabilities. The BCS table does not need to fill in the channel bandwidths for BCS4 for new band combinations.
2. Ensure that all required analysis including MSD, MPR/A-MPR, etc. be performed for BCS4 for every existing band combination configuration (up to 3 bands)
3. Technically confirm what each of the following two enhancements can realize and compare the cost versus the benefits and discuss its necessity. The candidate methods are the original BCS4, two enhanced BCS4 methods are: One is BCS4 with additional minimum channel bandwidth for each CC in NR band within a band combination via UE capability signalling, and the other is BCS4 with UE signalling multiple feature sets with different maximum and minimum channel bandwidth supporting on each CC for the same band combination.
4. To ease the concerns of vendors concerned that IoDT will increase with BCS4, RAN4 shall allow new BCSs to be created as requested for band combinations, but BCSs will not be required for new band combinations.
5. Future band combinations may include BCSs, but they will not be required to have any other than BCS4.

Note: Please indicate objective number (e.g. 1) for which comments are provided.

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| **Company** | **Comments** |
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### Sub-topic 1-2: Proposed recommendation to basket WIs ([RP-202256](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_90e/Docs/RP-202256.zip))

Please provide comments if any on the proposed recommendation to the basket WIs in the WID:

1. In order to ensure that MSD analysis is complete for BCS4 for NR CA and NR DC band combinations that have already been requested but CRs have not yet been agreed by RAN4, the TPs and draft CRs and CRs with those band combinations shall include MSD analysis for all channel bandwidths for each band in the band combination.
2. Since BCS4 was not agreed to when already requested NR CA and NR DC band combinations were requested, it should be up to the proponents for whether TPs and draft CRs include the BCS(s) that were requested and recorded in the WID, or if the TPSs and draft CRs only include BCS4.

Note: Please indicate the recommendation number (e.g. 1) for which comments are provided.

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| **Company** | **Comments** |
| T-Mobile USA | We had some offline discussions with ZTE and Ericsson, and as a result have a draft revisions updated RP-202677 in the [90E][13][BCS4] to address the combinations that have already been requested, but do not yet have TPs or draft CRs or real CRs. |
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### Sub-topic 1-3: Timeline e.g. number of meetings

Please provide comments on the proposed time i.e. target completion date (RAN4#93).

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| **Company** | **Comments** |
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### Sub-topic 1-4: Any other issue

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| **Company** | **Comments** |
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## Initial summary of discussion

*To be filled in by moderator*

# References

1. RP-202255 Motivation for WID on BCS4 Ericsson
2. RP-202256 WID for introduction of BCS4 Ericsson
3. RP-202677 Proposal for handling BCS4 for already requested Band Combinations T-Mobile USA, Ericsson