3GPP TSG-RAN WG2 Meeting #117 Electronic R2-2203729

Online, Feb 21st – Mar 3rd, 2022

Agenda Item: 8.24.2

Source: Ericsson

Title: Summary of [AT117-e][060][NR17] DSS (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This contribution summarizes the following discussion:

* [AT117-e][060][NR17] DSS (Ericsson)

Scope: Treat R2-2202214, R2-2202215, R2-2202216. Take into account an expected RAN1 LS to resolve Open issues for CR in R2-2202216. If the expected LS arrives late, e.g. at EOM, the discussion can be continued as a Post meeting discussion.

Intended outcome: Report, Agreed CRs

Deadline: EOM.

Contact person(s) for each participating company:

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email** |
| Ericsson | Zhenhua Zou | [zhenhua.zou@ericsson.com](mailto:zhenhua.zou@ericsson.com) |
| Huawei, HiSilicon | Chong Lou | louchong@huawei.com |
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# 2 Discussion

## 2.1 Phase 1

Only three papers [1][2][3] are submitted. They are all from the WI rapporteur with the intent to finalize this RAN1-led item. There is no RAN2-related technical discussion, for example, on MAC enhancements. The reason is that there were no additional inputs from RAN1 since the last RAN2 meeting (RAN2#116bis).

What remains is the discussion on the stage-2 CR and the RRC CR.

**Stage-2 CR**

In the RAN2#116 meeting, the stage 2 running CR for DSS is endorsed. The CR is based on the text proposal in the RAN1 LS. There were no further RAN1/2 progress that requires the stage 2 update. The CR R2-2202215 [2] is a resubmission with cover sheet update.

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| [R2-2111542](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_116-e/Docs//R2-2111542.zip) stage2 38.300 running CR for DSS Ericsson draftCR Rel-17 38.300 16.7.0 NR\_DSS   * [026] Endorsed |

**Q1. Can the stage-2 CR R2-2202215 be agreed? If no, please indicate why.**

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| --- | --- | --- |
| **Company** | **Yes, No?** | **Comments** |
| Huawei, HiSilicon | Yes |  |
|  |  |  |

**Summary**

**RRC CR**

The running RRC CR was endorsed as R2-2201946. The submitted R2-2202216 CR [3] contains one clarification in the IE *PDCCH-Config*, compared to the last endorsed version. This is to capture that SpCell can be both a self-scheduling and a scheduled cell. The marked change is shown below:

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| --- |
| If this IE is used for the scheduled SCell in case of cross carrier scheduling, the fields other than *searchSpacesToAddModList* and *searchSpacesToReleaseList* are absent. |

Rapporteur proposes to collect views on if the updated CR R2-2202216 can be endorsed. If endorsed, it will be the basis for the further discussion to capture RAN1 progress.

**Q2. Can the CR R2-2202216 be endorsed? If no, please indicate why.**

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| --- | --- | --- |
| **Company** | **Yes, No?** | **Comments** |
| Huawei, HiSilicon | See comments | For the additional change to PDCCH-Config, we are not sure if this is the only case to be corrected, as we can also find similar text in SearchSpace. There might be some more and need more time checking. – *SearchSpace* The IE *SearchSpace* defines how/where to search for PDCCH candidates. Each search space is associated with one *ControlResourceSet*. For a scheduled cell in the case of cross carrier scheduling, except for *nrofCandidates*, all the optional fields are absent (regardless of their presence conditions).  Maybe we can leave the current spec as it is with the understanding that “cross carrier scheduling without explicitly indication of enhanced R17 behavior only refer to legacy operation” since it might be the more robust and cleaner. |
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The paper [1] states that the below three issues are RAN1 related and up-to RAN1 to resolve:

1. Exact value of the field *ccs-BlindDetectionSplit-r17*. This will be discussed in RAN1#108;
2. Alignment of the field name *ccs-BlindDetectionSplit* with the RAN1 specs;
3. Clarification (if needed) for the field *enableDefaultBeamForCCS*.

The proposal is to wait for RAN1 progress, e.g., by LS. After receiving the LS, RAN2 can update the RRC CR and submit to the RAN plenary. Since there are no other inputs, rapporteur proposes to collect views if there are any missing aspects.

**Q3. If there are any missing aspects, companies are invited to provide in the below table**

|  |  |
| --- | --- |
| **Company** | **Comments** |
| Huawei, HiSilicon | We are fine with the proposed WA. But we are wondering if RAN2 can discuss whether it is allowed to configure SCell deactivation timer to sSCell. We understand if this IE is absent from the ServingCellConfig, it will indicate to apply the value infinity. So from the spec and also implementation point, a timer with “infinity” is different from that without a timer. So we see another possibility is not configure this timer to sSCell, similar to PUCCH SCell. |
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**Summary:**

## 2.2 Phase 2

To kick off upon receiving RAN1 LS

# 3 Conclusion

TBD

# 4 References

1. R2-2202214 Plan for finalization of Rel-17 DSS in RAN2 Ericsson discussion NR\_DSS\_enh
2. R2-2202215 Introduction of NR dynamic spectrum sharing Ericsson CR Rel-17 38.300 16.8.0 0400 - B NR\_DSS\_enh
3. R2-2202216 Introduction of NR dynamic spectrum sharing Ericsson CR Rel-17 38.331 16.7.0 2878 - B NR\_DSS\_enh