3GPP TSG-RAN2#118-e Tdoc R2-22XXXX

Electronic meeting, 2022-05-09 - 2022-05-20

Agenda Item: 6.24.1

Source: Ericsson

Title: Report from [AT118-e][046][NR17] n77 and DSS (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This is a report from the following discussion:

* [AT118-e][046][NR17] n77 and DSS (Ericsson)

Scope: Treat R2-2205871 - R2-2205875, R2-2205511.

Ph1 Determine agreeable parts, Ph2 agree CRs

Intended outcome: Report, Agreed CRs

Deadline: Schedule 1

The following delegates participated in the discussion:

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| --- | --- |
| Company | Contact Name, Email |
| Ericsson | Mattias Bergström, mattias.a.bergstrom@ericsson.com |
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The following documents were treated:

n77

Corrections

[R2-2205870](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205870.zip) Terminology for n77 extension Ericsson CR Rel-16 36.306 16.8.0 1848 - F TEI17

[R2-2205871](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205871.zip) Terminology for n77 extension Ericsson CR Rel-17 36.306 17.0.0 1849 - A TEI17

[R2-2205872](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205872.zip) Terminology for n77 extension Ericsson CR Rel-16 36.331 16.8.0 4811 - F TEI17

[R2-2205873](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205873.zip) Terminology for n77 extension Ericsson CR Rel-17 36.331 17.0.0 4812 - A TEI17

[R2-2205874](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205874.zip) Terminology for n77 extension Ericsson CR Rel-16 38.306 16.8.0 0726 - F TEI17

[R2-2205875](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205875.zip) Terminology for n77 extension Ericsson CR Rel-17 38.306 17.0.0 0727 - A TEI17

DSS

[R2-2205511](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205511.zip) Editorial correction for NR dynamic spectrum sharing Ericsson CR Rel-17 38.331 17.0.0 3094 - F NR\_DSS\_enh

# 2 Discussion

## 2.1 Terminology for n77 extension

The CRs in [R2-2205870](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205870.zip) - [R2-2205875](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205875.zip) propose to change the field description for the capability bit "extendedBand-n77-r16". The change has three parts:

1. Change from that "*the UE supports the* ***restriction*** *to 3450 - 3550 MHz and 3700 - 3980 MHz ranges*" to "*the UE supports* ***operation in*** *both 3450 - 3550 MHz and 3700 - 3980 MHz ranges*"
2. Removing reference to the particular note in the RAN4-table in 38.101-1, and instead refer to the table as a whole.
3. Clarifying that a UE that supports the NS value 55 shall also indicate the capability bit.

The actual change results in the following (from 36.306):

This field is only applicable for UEs that indicate support for band n77. If present, the UE supports operation in both 3450 - 3550 MHz and 3700 - 3980 MHz ranges of band n77 in the USA as specified in Table 5.2-1 in TS 38.101-1 [33]. If absent, the UE supports only operation in the 3700 - 3980 MHz range of band n77 in the USA. A UE indicates this field if and only if it supports NS value 55 as specified in TS 38.101-1 [33].

### 2.1.1 "Restriction" to "operation"

The first change of the CR is to change from wording saying that the UE supports "restriction to" certain frequency ranges, and instead say that the UE supports "operation in" frequency ranges.

**Q1: Do you agree to change the description for extendedBand-n77-r16 from wording saying that "*UE supports restriction to <frequency ranges>*" to "*UE supports operation in <frequency ranges>*"?**

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| **Company** | **Answer** | **Comments** |
| Ericsson | Yes | To support a restriction to a frequency range, is in our mind less clear than to support operation in a frequency range. |
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### 2.1.2 Reference to table as a whole

The second change of the CR is to remove the reference to the particular note in the RAN4 table (i.e. Note 12), and instead refer to the table as a whole.

**Q2: Do you agree to refer to Table 5.2-1 as a whole, rather than to Note 12 in this table specifically?**

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| **Company** | **Answer** | **Comments** |
| Ericsson | Yes | The table as a whole is relevant. |
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### 2.1.3 Clarifying relation between the UE capability and NS-value

The third thing that this CR changes is to clarify that a UE which supports the NS-value also supports the capability bit. It is argued that if a UE supports NS value 55 **without** supporting the extendedBand-n77 capability bit, the UE may connect to the cell without indicating the capability bit would cause errors in the network. This because the network could not (based on reported UE capabilities) serve such a UE.

**Q3: Do you agree to clarify that a UE which supports the NS-value shall also report the UE capability bit extendedBand-n77-r16?**

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| **Company** | **Answer** | **Comments** |
| Ericsson | Yes | It is important that UEs supporting NS-value 55 also indicates the capability bit. If the UE supports NS-value 55 it means the UE would accept accessing a cell broadcasting NS-value 55. The network will use NS-value 55 to bar UEs which do not indicate the capability bit and hence UEs shall not be allowed to connect to the cells (i.e. allowed to support NS-value 55) unless they also indicate the capability bit.  The CR clarifies that either the UE supports both NS-value 55 and the capability bit, or none of them. Current wording would does not preclude that a UE can support the NS-value without the capability bit, and this is important to clarify. |
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## 2.1 DSS

The CR [R2-2205511](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205511.zip) addresses some editorial comments raised by one company in the ASN.1 review (issue number 97, 99):

* Correct a grammar error to use “an” instead of “a” in the field description of IE *crossCarrierSchedulingConfig;*
* Clarify the legacy field description for IAB-MT so that what was added previously for IAB-MT applied only to IAB-MT, i.e., no impact from or to the newly introduced cross carrier scheduling in Rel-17.

**Q4: Do you agree the editorial changes proposed in the CR R2-2205511 ?**

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| **Company** | **Answer** | **Comments** |
| Ericsson | Yes | The editorial comments by 97 and 99 (not from Ericsson) make sense and help improving the spec quality. Further wording suggestion/improvement (if any) are appreciated. |
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# 3 Conclusion

Based on the discussion above we propose:

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