**3GPP TSG RAN WG2 Meeting #111-e R2-200xxxx
E-Conference, August 17th to August 28th 2020**

**Agenda item: 6.1.2**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Summary of [AT111-e] [020] [NR16] UE cap RF FR2 (Nokia)**

**Document for: Discussion and Decision**

1. Introduction

RF FR2

* [AT111-e][020][NR16] UE cap RF FR2 (Nokia)

 Scope: Treat R2-2007403, R2-2007082, R2-2007083, R2-2007380, R2-2007381

 Deadlines: Short UE Caps

Dl only spectrum, moved from 6.15

[R2-2007403](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007403.zip) DL-only spectrum Ericsson, Apple discussion Rel-16 NR\_RF\_FR2\_req\_enh-Core

[R2-2007082](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007082.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.306 16.1.0 0371 - F TEI16, NR\_RF\_FR2\_req\_enh

[R2-2007083](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007083.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.331 16.1.0 1784 - F TEI16, NR\_RF\_FR2\_req\_enh

Suspend IBE requirements, moved from 6.15

[R2-2007380](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007380.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1840 - B NR\_RF\_FR2\_req\_enh

[R2-2007381](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007381.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0379 - B NR\_RF\_FR2\_req\_enh

2. Discussions

## Contact list of delegates

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the rapporteur encourages the delegates who provide input to provide their contact information in this table:

|  |  |
| --- | --- |
| Company | Delegate contact |
| Nokia, Nokia Shanghai Bell | Amaanat Ali (amaanat.ali@nokia.com) |
| Ericsson | Mattias Bergström (mattias.a.bergstrom@ericsson.com |
| Qualcomm Incorporated | Masato Kitazoe (mkitazoe [at] qti.qualcomm.com |
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## 2.0 Discussion on [R2-2007403](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007403.zip)

[R2-2007403](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007403.zip) DL-only spectrum Ericsson, Apple discussion Rel-16 NR\_RF\_FR2\_req\_enh-Core

|  |  |
| --- | --- |
| Company | Feedback |
| Ericsson | Background to the paper: The intention of the paper is to ensure that companies in RAN2 have a common understanding of what RAN4 is requesting. If they agree to what is written in this contribution, we assume the following CRs will be agreeable too. |
|  |  |

## 2.1 Discussion on CRs [R2-2007082](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007082.zip) and [R2-2007083](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007083.zip)

The following documents are relevant for the discussion:

Dl only spectrum, moved from 6.15

[R2-2007082](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007082.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.306 16.1.0 0371 - F TEI16, NR\_RF\_FR2\_req\_enh

[R2-2007083](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007083.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.331 16.1.0 1784 - F TEI16, NR\_RF\_FR2\_req\_enh

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| --- | --- |
| Company | Feedback |
| Nokia |  |
| Ericsson | Agree |
| Qualcomm Incorporated | Agree to the content. The title of the CR should be corrected to cover paired bands. |

## 2.2 Discussion on CRs [R2-2007380](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007380.zip) and [R2-2007381](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007381.zip)

The following documents are relevant for the discussion:

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[R2-2007380](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007380.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1840 - B NR\_RF\_FR2\_req\_enh

[R2-2007381](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007381.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0379 - B NR\_RF\_FR2\_req\_enh

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| --- | --- |
| Company | Comments |
| Nokia, Nokia Shanghai Bell | Proponent |
| Ericsson | Agree |
| Qualcomm Incorporated | We should wait for RAN4's feature list (FG 8-7 currently FFS) and RRC parameter list. We prefer per band UE capability signalling, and propose the same in RAN4.General approach to have network configuration and UE capability looks fine. |

# 3. Conclusion

Summary to be provided at end of the discussion.

# References

RF FR2

* [AT111-e][020][NR16] UE cap RF FR2 (Nokia)

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[R2-2007082](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007082.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.306 16.1.0 0371 - F TEI16, NR\_RF\_FR2\_req\_enh

[R2-2007083](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007083.zip) Introduction on frequency separation class for DL-only FR2 spectrum Apple, Ericsson CR Rel-16 38.331 16.1.0 1784 - F TEI16, NR\_RF\_FR2\_req\_enh

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[R2-2007380](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007380.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.331 16.1.0 1840 - B NR\_RF\_FR2\_req\_enh

[R2-2007381](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2007381.zip) Uplink power boosting via suspended IBE requirements Nokia, Nokia Shanghai Bell CR Rel-16 38.306 16.1.0 0379 - B NR\_RF\_FR2\_req\_enh

MPE, copied here from 6.15 only for reference – Treated separately in AI 6.15

[R2-2008096](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_111-e%5CDocs%5CR2-2008096.zip) Implementing MPE enhancements Ericsson CR Rel-16 38.306 16.1.0 0322 1 B NR\_RF\_FR2\_req\_enh R2-2004939 Late