3GPP TSG-RAN WG2 Meeting #117 Electronic R2-220xxxx

Online, 21 February – 03 March 2022

**Agenda item: 8.24.3**

**Source: Bell Mobility (Rapporteur)**

**Title: Report of [AT117-e][061][NR17] n77 variants (Bell Mobility)**

**Document for: Discussion and Decision**

# 1 Introduction

This document is the report of the following email discussion:

* [AT117-e][061][NR17] n77 variants (Bell Mobility)

 Scope: Treat R2-2202183. Collect one round of comments, based on comments determine whether any action need to be taken by RAN2 (or whether to just wait for RAN4). IF actions are to be taken, CB online W2 Monday

 Intended outcome: Report

 Deadline: W1 Friday

# 2 Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

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| Company | Name | Email Address |
| Bell Mobility | Melissa Pinheiro | melissa.pinheiro@bell.ca |
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# 3 Discussion

This discussion concerns the document [R2-2202183](http://www.3gpp.org/ftp/tsg_ran/wg2_rl2/tsgr2_117-e/docs/R2-2202183.zip), which consider the n77 spectrum operation in Canada, where the spectrum from 3450-3650 MHz was auctioned in June 2021. The spectrum is a subset of two 3GPP defined bands: **n78** and **n77**. In market devices are therefore only tested and certified to operate in the available range, **3450-3650 MHz**. In Q1 2023, a new auction will take place for spectrum from **3650-3980 MHz** which will again be another subset of n77 3GPP defined band as showed in Figure below



**Figure 1. Spetrcum allocation in Canada**

The contribution raises the following issue:

1. As network has no knowledge about the UE constraint of being tested and certified only for a subset of the declared supported band, radio link failures and performance degradation is expected to occur. Can RAN2 signalling differentiate between devices certified for current n77 spectrum in Canada(certified up to 3650 MHz) and future devices that will be certified for the wider range (up to 3980 MHz)?

The companies are requested to provide feedback to this issue.

**Question 1**: Do companies agree with the stated issue for n77 in Canada?

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| Answers to Question 1 |
| Company | Yes/No | Technical Arguments |
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**Summary 1**: TBD.

**Proposal 1**: TBD.

If companies agree to the issue, can the existing signalling help differentiate between the different UEs?

**Question 2**: Is there signalling mechanism that allows network to differentiate users that are only certified up to 3650 MHz in n77 from those that are certified up to 3890 MHz in n77?

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| Answers to Question 2 |
| Company | Yes/No | Technical Arguments |
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**Summary 2**: TBD.

**Proposal 2**: TBD.

Finally, it is also stated that this issue is being raised up in RAN4 as it's related to spectrum allocation. Is there a need for RAN2 to take some actions on this topic, e.g. liaise with RAN4 on this topic, or should RAN2 wait for the RAN4 to inform what is expected on this topic?

**Question 3**: Does RAN2 need to take some actions on this, e.g. send LS to RAN4 on the conclusions of this topic and/or ask for guidance on what is required from signalling in this case?

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| Answers to Question 3 |
| Company | Yes/No | Technical Arguments |
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**Summary 3**: TBD.

**Proposal 3**: TBD.

# 3 Conclusion

TBD.