3GPP TSG-RAN #93 Tdoc RP-21XXXX

Electronic meeting, 2021-09-13 - 2021-09-17

Agenda Item: X

Source: Ericsson (Moderator)

Title: Moderator Summary for [93e-30-band-n77]

Document for: Discussion, Decision

# 1 Introduction

This is a summary of the email discussion [93e-30-band-n77].

# 2 Discussion

### 2.1 Background

RAN2 and RAN4 were tasked to extend the n77 band in the US to cover the 3450-3550 MHz region, in addition to the 3700-3980 MHz region.

At RAN2#115, RAN2 discussed two solutions for this:

- A new cap signalling + new NS value

- B new frequency band replace n77 in the US including the DoD part.

RAN4 agreed that new capability signalling shall be defined, i.e., not the new frequency band solution.

For Solution A, RAN2 clarified in their LS [RP-211671](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-211671.zip) that:

RAN2 has agreed that UE’s that don’t support the DoD band need to be barred from accessing the DoD band in the US. RAN2 thinks that a new NS-value can be defined to prevent legacy UEs supporting n77 from camping on the DoD bands and as legacy UEs cannot identify the new value, the UE would not camp on that cell.

RAN2 provided technically endorsed CRs for Solution A which are adding the capability bit for Solution A, see [RP-212445](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212445.zip). RAN4 provided CRs for Solution A in [RP-211887](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-211887.zip), but these CRs are lacking the NS-value.

Nokia ([RP-212169](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212169.zip)), Ericsson ([RP-212204](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212204.zip)) and OPPO ([RP-211815](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-211815.zip)) propose to approve CRs as per Solution A defined by RAN2 (capability bit + NS-value). Company contributions for this approach from Ericsson, Nokia, Verizon, Qualcomm can be found in [RP-212513](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212513.zip), [RP-212514](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212514.zip), [RP-212515](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212515.zip), [RP-212516](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212516.zip), [RP-212517](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212517.zip), [RP-212518](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212518.zip).

Apple, MediaTek and Skyworks Solution Inc. ([RP-212305](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212305.zip)) proposes to approve CRs without the NS-value.

### 2.2 Initial round

#### 2.2.1 Discussion initial round

Do you agree to approve Solution A as per RAN2's agreement, i.e. having both UE capability bit and an NS value? If no, please clarify how do you propose to ensure that UE’s that don’t support the DoD band need to be barred from accessing the DoD band in the US.

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| **Company** | **Input** |
| Nokia, Nokia Shanghai Bell | Agree: this resolves IDLE mode camping issues since barring due to unknown NS-value was introduced by Rel-15 specifications, so it works for all UEs. |
| Verizon | We agree Solution A!  As what Nokia mentioned above, this soltoin is aligning on the RAN2 soltuion. Also, it is same as the RAN4 agreement. |
| Huawei | Ok to follow the RAN2/4 agreements. As per GTW discussion, if needed, also fine to continue the NS-related technical discussion in next RAN4. |
| ZTE | Yes, to approve Solution A. RAN4 has already excluded the new band approach. |
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If Solution A, as defined in the RAN2 LS (with both capability bit and NS value) should be introduced, do you agree to introduce them as per the CRs in [RP-212513](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212513.zip), [RP-212514](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212514.zip), [RP-212515](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212515.zip), [RP-212516](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212516.zip), [RP-212517](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212517.zip), [RP-212518](http://www.3gpp.org/ftp/tsg_ran/TSG_RAN//TSGR_93e/Docs//RP-212518.zip)?

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| **Company** | **Input** |
| Nokia, Nokia Shanghai Bell | Yes (proponent). |
| Verizon | Yes, we agree with CRs! |
| Huawei | Regarding RAN4 CRs: revised versions in RP-212517, RP-212518 have corrected the identified issue of the already used NS\_52 value.  Still, further text corrections needed:   1. Proper reference to be added in the text to „FCC 21-32A1“ document. 2. Note 12 missing the extendedBand-n77 reference to [7]. 3. Align table 5.2-1 and Table 6.2.3.1-1 for the use of “US” vs “USA” wording. |
| ZTE | Yes, the CRs are fine. Approving these CRs can save RAN4 time. |
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#### 2.2.2 Conclusion initial round

# 3 Conclusion

TODO