**3GPP TSG-RAN WG2 Meeting #118 Electronic *R2-220xxxx***

**Online, 9 – 20 May 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **36.306** | **CR** | **1847** | **rev** | **1** | **Current version:** | **17.0.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network | **x** | Core Network |  |

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| ***Title:***  | Distinguishing support of band n77 restrictions in Canada |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson, Huawei, Telus, Bell Canada |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2022-05-18 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***Release:*** | 17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | RAN2 has been tasked by RAN to provide means to distinguish UEs that have only been certified for the currently used part of band n77 definition in Canada (i.e. only 3450 - 3650 MHz range) and those that would be certified for the part of band n77 in Canada that will be available later (i.e. support of also 3650-3980 MHz). As per RAN#95e decision, new UE capability signalling should be added for this. |
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| ***Summary of change:*** | 1. Added a per-UE (inter-RAT) capability for support of NR band n77 restrictions in Canada.

Note that this optional capability has no impact to n77-capable UEs certified outside of Canada and such UEs are not be required to indicate this bit. But n77-capable UEs that wish to use the 3650-3890 MHz part of n77 frequency range in Canada need to indicate this bit.**Implementation of this CR by a Release 15 or Release 16 UE will not cause compatibility issues.****Impact analysis**Impacted functionality: Band n77 capability signalling.Inter-operability: 1. If the network is implemented according to the CR and the UE is not, there are no inter-operability issues since the network considers UE doesn't support the n77 extension in Canada and will not configure UE with 3650-3890 MHz frequency range.
2. If the UE is implemented according to the CR and the network is not, there are no inter-operability issues since the network will not comprehend the support for the n77 extension in Canada and will not configure UE with 3650-3890 MHz frequency range.
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| ***Consequences if not approved:*** | It is not possible for network to distinguish which version of band n77 UE is certified against in Canada. |
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| ***Clauses affected:*** | 4.3.7.X (new) |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **x** |  |  Other core specifications  | TS36.331 CR4799, TS38.331 CR3078, TS38.306 CR0714  |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

*First Modified Subclause*

### 4.3.7 Inter-RAT parameters

<UNNECESSARY PARTS OMITTED>

#### 4.3.7.X *extendedBand-n77-Canada-r17*

This field defines whether the UE supports the restriction to frequency ranges of 3450 - 3650 MHz and 3650 - 3980 MHz of band n77 in Canada. If absent, the UE only supports the frequency range 3450 - 3650 MHz for band n77 in Canada. UE only indicates this capability if it indicates support for the NR band n77. A UE that indicates this field shall support NS value 57 as specified in TS 38.101-1 [85].

*End of Changes*