3GPP TSG-RAN WG1 Meeting #104bis-e R1-210xxxx

e-Meeting, April 12th – 20th, 2021

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.213** | **CR** | **Draft** | **rev** | **-** | **Current version:** | **16.5.0** |  |
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| *For* [***HELP***](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 |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | [Draft] Conditions for IAB-DU soft resource availability |
|  |  |
| ***Source to WG:*** | Moderator (AT&T), Qualcomm |
| ***Source to TSG:*** | RAN WG1 |
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| ***Work item code:*** | NR\_IAB-Core |  | ***Date:*** | 2021-04-19 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-16 |
|  | *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:*** | Clarify conditions in which an IAB-DU soft resource can be used, based on the follwing RAN1#104bis-e conclusion:**Conclusion** RAN1 observations on Rel-16 IAB: * The RAN1#98: “The H/S/NA attributes for the per-cell DU resource configuration should take into account the associated MT carrier frequency(ies)” is not explicitly captured in either RAN1 or RAN3 specifications.
* It is RAN1’s common understanding that the following interpretation of 38.213 captures the intended behavior in the usage of soft resources configured for a given IAB-DU cell in case the IAB-DU cell and IAB-MT CC are not on the same carrier frequency:

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| ***Summary of change:*** | Implement the TP from the above conclusion. |
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| ***Consequences if not approved:*** | Two different interpretations are possible in regard to when an IAB-DU soft resource can be used, leading to different behaviors when IAB-MT and IAB-DU operate in different frequencies. |
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| ***Clauses affected:*** | 14 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***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:*** |  |

# 14 Integrated access-backhaul operation

**<Unchanged parts omitted>**

With reference to slots of an IAB-DU cell, a symbol in a slot of an IAB-DU cell can be configured to be of hard, soft, or unavailable type. When a downlink, uplink, or flexible symbol is configured as hard, the IAB-DU cell can respectively transmit, receive, or either transmit or receive in the symbol.

When a downlink, uplink, or flexible symbol is configured as soft, the IAB-DU cell can respectively transmit, receive or either transmit or receive in the symbol only if

- the IAB-MT does not transmit or receive during the symbol of the IAB-DU cell, or

- the IAB-MT would transmit or receive during the symbol of the IAB-DU cell, and the transmission or reception during the symbol of the IAB-DU cell is not changed due to a use of the symbol by the IAB-DU, or

- the IAB-MT detects a DCI format 2\_5 with an AI index field value indicating the soft symbol as available