**3GPP TSG-RAN WG1 Meeting #110 R1-220xxxx**

**Toulouse, France, August 22 – 26, 2022**

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| *CR-Form-v12.1* |
| **[DRAFT] CHANGE REQUEST** |
|  |
|  | **38.213** | **CR** |  **xxx** | **rev** | **-**  | **Current version:** | **17.2.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |
|  |
| ***Title:***  | Corrections on PDCCH monitoring enhancement for 52-71GHz spectrum |
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| ***Source to WG:*** | Huawei, HiSilicon, Ericsson, Lenovo |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_ext\_to\_71GHz-Core |  | ***Date:*** | 2022-08-24 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-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:*** | In current 38.213 spec, the UE monitors PDCCH candidates for a search space set $s$ in each slot of $T\_{s}$ consecutive slots, starting from slot $n\_{s,f}^{μ}$. However, for 480/960 kHz SCS, a search space can exisit in consecutive groups of slots with a total duration of $T\_{s}$ slots, and within each group of slots, the slot for PDCCH monitoring is further determined according to the parameter of *monitoringSlotsWithinSlotGroup*. |
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| ***Summary of change:*** | Add description on the determination of PDCCH monitoring occasion by the parameter of *monitoringSlotsWithinSlotGroup* for 480/960 kHz SCS in clause 10.1 in TS38.213. |
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| ***Consequences if not approved:*** | The description of PDCCH monitoring $T\_{s}$ slots for 480/960 kHz SCS does not align with the agreement and inconsistent with the description for the field of *duration-r17*. |
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| ***Clauses affected:*** | 10.1 |
|  |  |
|  | **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:*** |  |

**10.1 UE procedure for determining physical downlink control channel assignment**

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A UE determines a PDCCH monitoring occasion on an active DL BWP from the PDCCH monitoring periodicity, the PDCCH monitoring offset, and the PDCCH monitoring pattern within a slot. If *monitoringSlotsWithinSlotGroup* is not provided, c the UE determines that PDCCH monitoring occasions exist in a slot with number $n\_{s,f}^{μ}$ [4, TS 38.211] in a frame with number $n\_{f}$ if ($n\_{f}$ $N\_{slot }^{frame, μ}$+$ n\_{s,f }^{μ}$-$ o\_{s}$)$ modk\_{s}=0$$\left(n\_{f}N\_{slot}^{frame,μ}+n\_{s,f}^{μ}-o\_{p,s}\right)mod k\_{p,s}=0$. The UE monitors PDCCH candidates for search space set $s$ for $T\_{s}$ consecutive slots, starting from slot $n\_{s,f}^{μ}$, and does not monitor PDCCH candidates for search space set $s$ for the next $k\_{s}-T\_{s}$ consecutive slots. for search space set $s$, the UE determines that with number $n\_{s,f}^{μ}$ [4, TS 38.211] in a frame with number $n\_{f}$ satisfying ($n\_{f}$ $N\_{slot }^{frame, μ}$+$ n\_{s,f }^{μ}$-$ o\_{s}$)$ modk\_{s}=0$ The UE monitors PDCCH candidates for search space set $s$ within $T\_{s}$ consecutive slots determined by *monitoringSlotsWithinSlotGroup*, starting from slot $n\_{s,f}^{μ}$, and does not monitor PDCCH candidates for search space set $s$ for the next $k\_{s}-T\_{s}$ consecutive slots.

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