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

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

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **TS 38.214** | **CR** |  | **rev** | **-** | **Current version:** | **17.2.0** |  |
|  |
| *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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | CR on completing the PPW processing timeline |
|  |  |
| ***Source to WG:*** | Moderator (Huawei), Qualcomm, ZTE, Nokia |
| ***Source to TSG:*** | RAN1 |
|  |  |
| ***Work item code:*** | NR\_pos\_enh-Core |  | ***Date:*** | 2022-08-25 |
|  |  |  |  |  |
| ***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)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | RAN1#109-e agreed that [N symbol/T ms] in the PPW timeline corresponds to N2 symbol defined for PUSCH preparation timeline. |
|  |  |
| ***Summary of change:*** | Change [N symbol/T ms] to *N2* symbols defined in clause 6.4. |
|  |  |
| ***Consequences if not approved:*** | The feature of collision detection timeline between the low prioirity PRS and high priority data is not complete. |
|  |  |
| ***Clauses affected:*** | 5.1.6.5 |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** | **Isolated Impact Analysis:**This is considered mandatory for the UE and gNB to implement according to the change. Otherwise, the feature cannot work. |
|  |  |
| ***This CR's revision history:*** |  |

#### 5.1.6.5 PRS reception procedure

<Unrelated part omitted>

When the UE has an activated PRS processing window with [Type-1A] or [Type-1B] and the UE determines the presence of other DL signals and channels, except SSB, of higher priority than the DL PRS in the PRS processing window no later than *N2* symbols, defined in clause 6.4 for the subcarrier spacing of the PRS, before the first symbol of the PRS processing window, the UE is expected to receive the other DL signals and channels and drop all PRS within the PRS processing window. When the UE has an activated PRS processing window with [Type-2] and the UE determines the presence of other DL signals and channels, except SSB, of higher priority than the DL PRS on a symbol configured with the DL PRS no later than *N2* symbols, defined in clause 6.4 for the subcarrier spacing of the PRS, before the DL PRS symbol, the UE is expected to receive the other DL signals and channels and drop the DL PRS symbol.

When the UE has an activated PRS processing window with [Type-1A] or [Type-1B] and the UE determines the presence of other DL signals and channels, except SSB, of higher priority than the DL PRS in the PRS processing window later than *N2* symbols, defined in clause 6.4 for the subcarrier spacing of the PRS, before the first symbol of the PRS processing window, the UE is not required to receive the other DL signals and channels and may receive the DL PRS and consider the DL PRS as higher priority in the PRS processing window. When the UE has an activated PRS processing window with [Type-2] and the UE determines the presence of other DL signals and channels, except SSB, of higher priority than the DL PRS on a symbol configured with the DL PRS later than *N2* symbols, defined in clause 6.4 for the subcarrier spacing of the PRS, before the DL PRS symbols, the UE is not required to receive the other DL signals and channels and may receive the DL PRS symbol and consider the DL PRS as higher priority in that symbol.

<Unrelated part omitted>