**3GPP TSG-RAN WG3 Meeting #123-bis *R3-24xxxx***

**Changsha, China, 15th – 19th April 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.300** | **CR** | **<CR#>** | **rev** | **<Rev#>** | **Current version:** | **18.1.0** |  |
|  |
| *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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:***  | Correction on burst arrival time in handover |
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| ***Source to WG:*** | Lenovo |
| ***Source to TSG:*** | R3 |
|  |  |
| ***Work item code:*** | NR\_XR\_enh-Core |  | ***Date:*** | 2024-04-15 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | UE may report uplink assistance information, e.g. burst arrival time, per QoS flow via UE Assistance Information to gNB.In case of handover, UE calculates the BAT of the QoS flow according to the timing of the source cell and report it to the source gNB before handover. The source gNB forwards the reported BAT to the target gNB. However, the reported BAT cannot be used by the target gNB directly if the target cell is not time synchronized with the source cell. |
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| ***Summary of change:*** | It is clarified that in case target gNB receives the burst arrival time from source gNB during the handover preparation procedure, the target gNB may use it in considering the SFN offset of the source gNB.Impact assessment towards the previous version of the specification (same release):This CR has an isolated impact towards the previous version of the specification (same release).This CR only has an impact on the burst arrival time in handover. |
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| ***Consequences if not approved:*** | It is not clear how the target gNB uses the burst arrival time if the target cell is not time synchronized with the source cell. |
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| ***Clauses affected:*** | 16.15.4.2.1 |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

#### 16.15.4.2 Layer 2 Enhancements

##### 16.15.4.2.1 Assistance Information

In order to enhance the scheduling of uplink resources for XR, the following improvements are introduced:

- One additional buffer size table to reduce the quantisation errors in BSR reporting (e.g. for high bit rates):

- Whether, for an LCG, the new table can be used in addition to the regular one is configured by the gNB;

- When the new table is configured for an LCG, it is used whenever the amount of the buffered data of that LCG is within the range of the new table, otherwise the regular table is used.

- Delay Status Report (DSR) of buffered data via a dedicated MAC CE:

- Triggered for an LCG when the remaining time before discard of any buffered PDCP SDU goes below a configured threshold (threshold configured per LCG by the gNB);

- When triggered for an LCG, reports the amount of data buffered with a remaining time before discard below the configured threshold, together with the shortest remaining time of any PDCP SDU buffered.

- Reporting of uplink assistance information (jitter range, burst arrival time, UL data burst periodicity) per QoS flow by the UE via UE Assistance Information. In case target gNB receives the burst arrival time from source gNB during the handover preparation procedure, the target gNB may use it in considering the SFN offset of the source gNB.