**3GPP TSG-RAN WG3 Meeting #112-e *R3-212903***

**E-meeting, 17 – 28 May 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.473** | **CR** | **0751** | **rev** | **1** | **Current version:** | 16.5.0 |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | Introduction of the enhanced Industrial IoT over F1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | RAN3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_IIOT\_URLLC\_enh-Core | | | | |  | ***Date:*** | | | 2020-5-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 can be 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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The Enhanced Industrial IoT and URLLC Support for NR WI was agreed in RP-210854. There is need to specify new RAN functions.  Further, as specified in TS 23.501, SA2 has agreed that SMF can send the new Qos parameter (Survival time) included in the TSCAI to the NG-RAN to assist scheduling for the periodic traffic flow. | | | | | | | | |
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| ***Summary of change:*** | | * Add the survival time IE in the TSC Assistance Information IE:   **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 TSC Assistance Informaiton configuration. | | | | | | | | |
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| ***Consequences if not approved:*** | | The new Qos parameter (survival time) is not supported in RAN specification. | | | | | | | | |
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| ***Clauses affected:*** | | 9.3.1.142, , 9.3.1.aaa, 9.4.5, 9.4.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS38.413 CR0598  TS38.423 CR0620  TS38.463 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:*** | |  | | | | | | | | |

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| **Change Begins** |

#### 9.3.1.142 TSC Assistance Information

This IE provides the TSC assistance information for a TSC QoS flow in the uplink or downlink (see TS 23.501 [21]).

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| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Periodicity | M |  | 9.3.1.143 | Periodicity as specified in TS 23.501 [21]. | - |  |
| Burst Arrival Time | O |  | 9.3.1.144 | Burst Arrival Time as specified in TS 23.501 [21]. | - |  |
| Survival Time | O |  | 9.3.1.aaa | Survival Time as specified in TS 23.501 [21]. | YES | ignore |

**<Unchanged Text Omitted>**

#### 9.3.1.aaa Survival Time

This IE indicates the survival time for a TSC QoS flow as defined in TS 23.501 [9].

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| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Survival Time | M |  | INTEGER (0..<FFS>, …) | Survival Time expressed in units of 1 us |

Editor’s note: The maximum value and the time unit granularity for the survival time are FFS.

**<Unchanged Text Omitted>**

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| **Change Ends** |