**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.554** | **CR** | **0206** | **rev** |  | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *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:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | PM\_KPI\_5G\_Ph4 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | The use case in informative annex A for KPIs defined in clauses 6.8.1.7 and 6.8.1.8 is missing. So it is required to be added to adhere to format and requirement of the specification. | | | | | | | | |
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| ***Summary of change:*** | | It adds a use case in informative annex A corresponding to KPIs of clauses 6.8.1.7 and 6.8.1.8 | | | | | | | | |
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| ***Consequences if not approved:*** | | The use case in informative annex A corresponding to KPIs of clauses 6.8.1.7 and 6.8.1.8 will be missing unlike other existing KPI’s. | | | | | | | | |
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| ***Clauses affected:*** | | Annex A. New clause A.X | | | | | | | | |
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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:*** | |  | | | | | | | | |

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| **First Change** |

Annex A (informative):   
 Use cases for end to end KPIs

# A.X Use case for reliability KPI in RAN with time constraint over Downlink and Uplink air-interface

Reliability KPI based on time constraint in DL and UL over Uu interface in a 5G network as defined in clauses 6.8.1.8 and 6.8.1.7 is important to be calculated specially for delay cricitcal URLLC services. It would help in troubleshooting any delay related issue in RAN side for the ongoing URLLC service. It enables operators to track the performance of a URLLC service and the delay values of each packet can be used for analysing and troubleshooting. This may include enabling/disabling or configuring/de-configuring the URLLC service-impacting RAN features or may involve actions like re-configuring time constraint/delay threshold values if not set correctly already.

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| **End of Change** |