**3GPP TSG-SA5 Meeting #162 *S5-253781***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **28.201** | **CR** | **0024** | **rev** | **1** | **Current version:** | **19.1.0** |  |
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| *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 |  | Core Network | **X** |

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| ***Title:***  | Rel-19 CR 28.201 Addition on NSPA charging information |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | SA5 |
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| ***Work item code:*** | 5GS\_NSPACH, TEI19 |  | ***Date:*** | 2025-08-28 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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 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:*** | The performance and analytics information collected by NWDAF or MnS producer is associated with a target time period over which the statistics are requested. However, the time period informaton, despite mentioned in the procedure as subscription condition (e.g. start time, stop time), was not captured in the charging information. Furthermore, the source NF (i.e. NWDAF or MnS producer) that provide the analytics in each NSPA container should also be associated to. |
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| ***Summary of change:*** | Extend the NSPA container with three new attributes, source NF Identification, start timestamp and stop timestamp. |
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| ***Consequences if not approved:*** | The performance and analytics information is incomplete. |
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| ***Clauses affected:*** | 6.2.1.3 |
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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 ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** | This is revison of S5-253554 |

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| **First Change** |

6.2.1.3 Definition of NSPA Container Information

Specific charging information used for network slice performance and analytics charging is provided within the NSPA Container Information.

The detailed structure of the NSPA Container Information can be found in table 6.2.1.3-1.

**Table 6.2.1.3-1: Structure of NSPA Container Information**

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| **Information Element** | **Category** | **Description** |
| Source NF Identification | OC | This field holds the information of the source network function that provide the analytics in this container, i.e., the information of NWDAF or MnS Producer.  |
| Start Timestamp | OC | This field holds the start time of the performance and analytics information in the NWDAF notification referred to start attribute in clause 5.1.6.2.5 of TS 29.520[x] or in the MnS notification referred to collectionBeginTime attribute in the clause 11.3.2.1.2 of TS 28.532[251]. |
| Stop Timestamp | OC | This field holds the stop time of the performance and analytics information in the NWDAF notification referred to expiry attribute in clause 5.1.6.2.5 of TS 29.520[x] or in the MnS notification referred to collectionEndTime attribute in the clause 11.3.2.1.2 of TS 28.532[251]. |
| Uplink Latency | OC | This field holds uplink latency as described in TS 28.541 [252] clause 6.4 uLLatency attribute (see NOTE 1). |
| Downlink Latency | OC | This field holds downlink latency as described in TS 28.541 [252] clause 6.4 dLLatency attribute. |
| Uplink Throughput | OC | This field holds uplink throughput of one single network slice as described in TS 28.541 [252] clause 6.4 uLThptPerSlice attribute (see NOTE 2).  |
| Downlink Throughput | OC | This field holds downlink throughput of one single network slice as described in TS 28.541 [252] clause 6.4 dLThptPerSlice attribute |
| Maximum packet loss rate UL | OC | This field holds maximum packet loss rate uplink as described in TS 28.541 [252] clause 5.4 maxPacketLossRateUl attribute (see NOTE 3). |
| Maximum packet loss rate DL | OC | This field holds maximum packet loss rate downlink as described in TS 28.541 [252] clause 5.4 maxPacketLossRateDl attribute. |
| Service Experience statistics data | OC | This field holds service experience statistics data as described in TS 23.288 [150] |
| Number of PDU sessions | OC | This field holds the number of PDU sessions as described in TS 28.554 [271]. |
| Number of registered Subscribers | OC | This field holds the number of registered subscribers as described in TS 28.554 [271]. |
| Load level | OC | This field holds the load level as described in TS 23.288 [150]. |
| Estimated Energy Consumption | OC | This field holds the KPI that describe the estimated energy consumption of one single network slice during the measured period, as described in TS 28.554 [271] clause 6.7.3.3.  |
| NOTE 1: For the backwards compatibility the Uplink Latency may be bound to Latency.NOTE 2: For the backwards compatibility the Uplink Throughput may be bound to Throughput.NOTE 3: For the backwards compatibility the Maximum packet loss rate UL may be bound to Maximum packet loss rate. |

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| **End of Change** |