**3GPP TSG-SA5 Meeting #154 *S5-242049***

Changsha, China, 15 - 19 April 2024

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.104** | **CR** | **0091** | **rev** | **1** | **Current version:** | **18.3.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Rel-18 CR TS 28.104 Clarify the definition of cPCongestionIssueID |
|  |  |
| ***Source to WG:*** | ZTE Corporation |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | eMDAS\_Ph2 |  | ***Date:*** | 2024-04-01 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | “cPCongestionIssueID” refers to the control plane congestion event ID. But in the current text, it is defined as the analysis report identifier of the control plane congestion analytics. |
|  |  |
| ***Summary of change:*** | Clarify the definition of “cPCongestionIssueID” |
|  |  |
| ***Consequences if not approved:*** | The definition may cause misunderstanding |
|  |  |
| ***Clauses affected:*** | 8.4.7.1.3.3 |
|  |  |
|  | **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:*** | S5-242049 is the revision of S5-241160 |

***Start of First change***

##### 8.4.7.1.3 5GC Control plane congestion analysis

###### 8.4.7.1.3.1 MDA type

The MDA type for 5GC control plane congestion analysis is: ResourceAnalytics.5GCControlPlaneCongestionAnalysis.

###### 8.4.7.1.3.2 Enabling data

The enabling data for ResourceAnalytics.5GCControlPlaneCongestionAnalysis MDA type are provided in table 8.4.7.1.3.2-1.

For general information about enabling data, see clause 8.2.1.

**Table 8.4.7.1.3.2-1: Enabling data for 5GC control plane congestion analysis**

|  |  |  |
| --- | --- | --- |
| **Data category** | **Description** | **References** |
| Performance measurements | Registration procedure related measurements for AMF. | Number of registration requests (clause 5.2.2 of TS 28.552 [4])Mean time of Registration procedure (clause 5.2.2.9 of TS 28.552 [4]) |
| Service Request procedure related measurements for AMF. | Number of service requests (clause 5.2.3.3 and clause 5.2.3.4 of TS 28.552 [4]) |
| Number of PDU sessions measurements for SMF | Number of PDU sessions (clause 5.3.1 of TS 28.552 [4]) |
| QoS flows measurements for SMF | QoS flows monitoring (clause 5.3.2 of TS 28.552 [4]) |
| VR (including Virtual CPU, Virtual Memory, and Virtual Disk) usage of NF | VR usage of NF (clause 5.7.1 of TS 28.552 [4]) |
| Alarm notifications | Alarm information, e.g. the alarm notification of network functions. | Alarm information and notifications as per TS 28.532 [11] |
| Configuration data | MOIs of 5GC NFs. | 5GC NRM as defined in TS 28.541 [15] |

###### 8.4.7.1.3.3 Analytics output

The specific information elements of the analytics output for control plane congestion analysis, in addition to the common information elements of the analytics outputs (see clause 8.3), are provided in table 8.4.7.1.3.3-1.

**Table 8.4.7.1.3.3-1: Analytics output for 5GC control plane congestion analysis**

|  |  |  |  |
| --- | --- | --- | --- |
| **Information element** | **Definition** | **Support qualifier** | **Properties** |
| affectedObject | Indication of 5GC NFs where congestion issues occurred or potentially may occur. | M | type: DNmultiplicity: 1..\*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |
| cPCongestionIssueID | This field holds the ID of the control plane congestion issue which is reported. | M | type: stringmultiplicity: 1isOrdered: N/AisUnique: N/AdefaultValue: NoneisNullable: False |
| recommendedActions | The recommended actions to orchestrate the resource allocation for 5GC NFs.The recommended action may be (but not limited to):- scale out a list of 5GC NFs; | O | type: RecommendedActionmultiplicity: \*isOrdered: FalseisUnique: TruedefaultValue: NoneisNullable: False |

***End of First change***