**3GPP TSG-CT WG3 Meeting #112e C3-205388**

**E-Meeting, 4th – 13th November 2020 (Revision of C3-205328)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.522** | **CR** | **0234** | **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 |  | Core Network | **X** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Corrections to location area usage | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNA, TEI17 | | | | |  | ***Date:*** | | | 2020-10-18 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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:*** | | "locArea" attribute reusing type LocationArea5G contains NetworkAreaInfo which is 5GS inside information not allowed to be exposed without permission and not defined in SA2 eNA related specifications. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Updates locArea related description in order to not allow NetworkAreaInfo in type LocationArea5G in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Location area usage not aligned with SA2 specifications. Untrusted AF outside of 5GS would receive incorrect location area information. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.6.3.3.16, 5.6.3.3.18, 5.6.3.3.19 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not impact the openAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

##### 5.6.3.3.16 Type CongestInfo

Table 5.6.3.3.16-1: Definition of type CongestInfo

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| locArea | LocationArea5G | M | 1 | Network area of interest. (NOTE) |  |
| cngAnas | array(CongestionAnalytics) | M | 1..N | Represents data congestion analytics for transfer over the user plane, control plane or both planes. |  |
| NOTE: The NetworkAreaInfo data within the LocationArea5G data is not applicable. | | | | | |

\*\*\* 2nd Change \*\*\*

##### 5.6.3.3.18 Type QosSustainabilityExposure

Table 5.6.3.3.18-1: Definition of type QosSustainabilityExposure

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| locArea | LocationArea5G | M | 1 | Identification(s) of applicable location areas where the analytics result applies. (NOTE m) |  |
| startTs | DateTime | M | 1 | Represents the start time of the applicable observing period. |  |
| endTs | DateTime | M | 1 | Represents the end time of the applicable observing period. |  |
| qosFlowRetThd | RetainabilityThreshold | O | 0..1 | The reporting QoS Flow Retainability Threshold that are met or crossed for 5QI of GBR resource type.  (NOTE 1) |  |
| ranUeThrouThd | BitRate | O | 0..1 | The reporting RAN UE Throughput Threshold that are met or crossed for 5QI of non-GBR resource type.  (NOTE 1) |  |
| confidence | Uinteger | C | 0..1 | Indicates the confidence of the prediction. (NOTE 2)  Shall be present if the analytics result is a prediction. |  |
| NOTE 1: Either qosFlowRetThd or ranUeThrouThd shall be provided.  NOTE 2: If the requested period identified by the "startTs" and "endTs" attributes in the "EventReportingRequirement" type is a future time period, which means the analytics result is a prediction. If no sufficient data is collected to provide the confidence of the prediction before the time deadline, a zero confidence shall be returned.  NOTE m: The NetworkAreaInfo data within the LocationArea5G data is not applicable. | | | | | |

\*\*\* 3rd Change \*\*\*

##### 5.6.3.3.19 Type NetworkPerfExposure

Table 5.6.3.3.19-1: Definition of type NetworkPerfExposure

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| locArea | LocationArea5G | M | 1 | Identification of network area to which the subscription applies. (NOTE m) |  |
| nwPerfType | NetworkPerfType | M | 1 | The type of the network performance |  |
| relativeRatio | SamplingRatio | O | 0..1 | The reported relative ratio expressed in percentage. (NOTE 1) |  |
| absoluteNum | Uinteger | O | 0..1 | The reported absolute number (NOTE 1) |  |
| confidence | Uinteger | C | 0..1 | Indicates the confidence of the prediction. (NOTE 2)  Shall be present if the analytics result is a prediction. |  |
| NOTE 1: Either relativeRatio or absoluteNum shall be provided.  NOTE 2: If the requested period identified by the "startTs" and "endTs" attributes in the "EventReportingRequirement" type is a future time period, which means the analytics result is a prediction. If no sufficient data is collected to provide the confidence of the prediction before the time deadline, a zero confidence shall be returned.  NOTE m: The NetworkAreaInfo data within the LocationArea5G data is not applicable. | | | | | |

\*\*\* End of Changes \*\*\*