**3GPP TSG-CT WG3 Meeting #125 *C3-225598***

**Toulouse, France, 14th - 18th, November, 2022 (Revision of C3-225425)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.522** | **CR** | **0762** | **rev** | **1** | **Current version:** | **17.7.0** |  |
|  | | | | | | | | |
| *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:*** | Add clarifications for some information included in the analytics to the consumer | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNA\_Ph2 | | | | |  | ***Date:*** | | | 2022-10-28 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | S2-2209671 and S2-2209566 indicated that the UPF information shall not be exposed to AF. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the NOTE for "dnPerfInfos" attribute. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Some information will be wrongly exposed to certain consumers. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.6.3.3.4, 5.6.3.3.14 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*

##### 5.6.3.3.4 Type: AnalyticsEventNotif

Table 5.6.3.3.4-1: Definition of type AnalyticsEventNotif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| analyEvent | AnalyticsEvent | M | 1 | Detected analytics event. |  |
| expiry | DateTime | O | 0..1 | Defines the expiration time after which the analytics information will become invalid. |  |
| timeStamp | DateTime | M | 1 | Time at which the event is observed. |  |
| failNotifyCode | AnalyticsFailureCode | C | 0..1 | Identifies the failure reason for the event notification.  It shall only be included if the event notification is failed or the analytics information is not ready. (NOTE 1) | EneNA |
| rvWaitTime | DurationSec | O | 0..1 | Indicates a recommended time interval (in seconds) which is used to determine the time when analytics information is needed in similar future event subscriptions. It may only be included if the "failNotifyCode" attribute sets to "UNSATISFIED\_REQUESTED\_ANALYTICS\_TIME". | EneNA |
| ueMobilityInfos | array(UeMobilityExposure) | C | 1..N | Contains the UE mobility information.  Shall be present if the "analyEvent" attribute sets to "UE\_MOBILITY" | Ue\_Mobility |
| ueCommInfos | array(UeCommunication) | C | 1..N | Contains the application communication information.  Shall be present if the "analyEvent" attribute sets to "UE\_COMM" | Ue\_Communication |
| abnormalInfos | array(AbnormalExposure) | C | 1..N | Contains the user's abnormal behavior information.  Shall be present if the "analyEvent" attribute sets to "ABNORMAL\_BEHAVIOR" | Abnormal\_Behavior |
| congestInfos | array(CongestInfo) | C | 1..N | Contains the UE's user data congestion information.  Shall be present if the "analyEvent" attribute sets to "CONGESTION" | Congestion |
| nwPerfInfos | array(NetworkPerfExposure) | C | 1..N | The network performance information.  Shall be present when the requested event is "NETWORK\_PERFORMANCE". | Network\_Performance |
| qosSustainInfos | array(QosSustainabilityExposure) | C | 1..N | Contains the QoS sustainability information.  Shall be present if the "analyEvent" attribute is set to "QOS\_SUSTAINABILITY". | QoS\_Sustainability |
| disperInfos | array(DispersionInfo) | C | 1..N | Contains the Dispersion information.  Shall be present if the "analyEvent" attribute is set to "DISPERSION". | Dispersion |
| dnPerfInfos | array(DnPerfInfo) | C | 1..N | Contains the DN performance information.  Shall be present if the "analyEvent" attribute is set to "DN\_PERFORMANCE". | DnPerformance |
| svcExps | array(ServiceExperienceInfo) | C | 1..N | The service experience information.  When subscribed event is "SERVICE\_EXPERIENCE", the svcExps shall be included. | ServiceExperience |
| timeStampGen | DateTime | O | 0..1 | It defines the timestamp of analytics generation. | EneNA |
| start | DateTime | O | 0..1 | It defines the start time of which the analytics information will become valid. (NOTE 2) | EneNA |
| NOTE 1: The values of "UNAVAILABLE\_DATA" and "BOTH\_STAT\_PRED\_NOT\_ALLOWED" of the AnalyticsFailureCode data type are not applicable for the "failNotifyCode" attribute.  NOTE 2: If the "start" attribute and the "expiry" attribute are both provided, the DateTime of the "expiry" attribute shall not be earlier than the DateTime of the "start" attribute. | | | | | |

\*\*\* Next Change \*\*\*

##### 5.6.3.3.14 Type AnalyticsData

Table 5.6.3.3.14-1: Definition of type AnalyticsData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| start | DateTime | O | 0..1 | It defines the start time of which the analytics information will become valid. (NOTE 1) | EneNA |
| expiry | DateTime | O | 0..1 | Defines the expiration time after which the analytics information will become invalid. |  |
| timeStampGen | DateTime | O | 0..1 | It defines the timestamp of analytics generation. | EneNA |
| ueMobilityInfos | array(UeMobilityExposure) | C | 1..N | Contains the UE mobility information.  Shall be present if the "analyEvent" attribute sets to "UE\_MOBILITY" | Ue\_Mobility |
| ueCommInfos | array(UeCommunication) | C | 1..N | Contains the application communication information.  Shall be present if the "analyEvent" attribute sets to "UE\_COMM" | Ue\_Communication |
| nwPerfInfos | array(NetworkPerfExposure) | C | 1..N | The network performance information.  Shall be present when the requested event is "NETWORK\_PERFORMANCE". | Network\_Performance |
| abnormalInfos | array(AbnormalExposure) | C | 1..N | Contains the user's abnormal behavior information.  Shall be present if the "analyEvent" attribute sets to "ABNORMAL\_BEHAVIOR" | Abnormal\_Behavior |
| congestInfos | array(CongestInfo) | C | 1..N | Contains the UE's user data congestion information.  Shall be present if the "analyEvent" attribute sets to "CONGESTION" | Congestion |
| qosSustainInfos | array(QosSustainabilityExposure) | C | 1..N | Contains the QoS sustainability information.  Shall be present if the "analyEvent" attribute is set to "QOS\_SUSTAINABILITY"  (NOTE 2) | QoS\_Sustainability |
| disperInfos | array(DispersionInfo) | C | 1..N | Contains the Dispersion information.  Shall be present if the "analyEvent" attribute is set to "DISPERSION". | Dispersion |
| dnPerfInfos | array(DnPerfInfo) | C | 1..N | Contains the DN performance information.  Shall be present if the "analyEvent" attribute is set to "DN\_PERFORMANCE". | DnPerformance |
| svcExps | array(ServiceExperienceInfo) | C | 1..N | Contains the service experience information.  Shall be present if the "analyEvent" attribute is set to "SERVICE\_EXPERIENCE". | ServiceExperience |
| suppFeat | SupportedFeatures | M | 1 | Represents the features supported by both the AF and the NEF. |  |
| NOTE 1: If the "start" attribute and the "expiry" attribute are both provided, the DateTime of the "expiry" attribute shall not be earlier than the DateTime of the "start" attribute.  NOTE 2: The "qosFlowRetThd" and "ranUeThrouThd" attributes in QosSustainabilityExposure data type are not applicable. | | | | | |

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