**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Implementing required NEF event filters | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNetAE | | | | |  | ***Date:*** | | | 2023-04-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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:*** | | The current filters for Collective Behaviour of 29.517 cannot be used to fulfil the stage 2 requirements because the unspecified "string" to be used to contain the value of the filters is not usable, while the requirement to be able to filter based on specific values of e.g. the data processing type, cannot be practically fulfilled without specifying the permissible processing types, which are "normalization, aggregation, and anonymization". Therefore, 29.591 needs a new feature to indicate support of the respectively required 29.517 event filter extensions. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Indicated that support of the Collective Behaviour Filter extensions (implemented in 29.517) depends on a new feature. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not fulfilled stage 2 requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.1.6.2.7, 5.1.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 any OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

5.1.6.2.7 Type NefEventFilter

**Table 5.1.6.2.7-1: Definition of type NefEventFilter**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| tgtUe | TargetUeIdentification | M | 1 | Represents the UE information to which the request applies. | (NOTE 1) |
| appIds | array(ApplicationId) | C | 1..N | Each element indicates an application identifier.  If absent, the NefEventFilter data applies to any application (i.e. all applications).  (NOTE 2) | ServiceExperience  Exceptions  UeCommunication  UeMobilityUserDataCongestion  PerformanceData  Dispersion  MSQoeMetrics  MSConsumption  MSNetAssInvocation  MSDynPolicyInvocation  MSAccessActivity |
| locArea | NetworkAreaInfo | O | 0..1 | Represents an area of interest. (NOTE 3) | ServiceExperience  Exceptions  UeCommunication  UeMobility  UserDataCongestion  Dispersion  CollectiveBehaviour  MSQoeMetrics  MSConsumption  MSNetAssInvocation  MSDynPolicyInvocation  MSAccessActivity |
| collAttrs | array(CollectiveBehaviourFilter) | O | 1..N | Each element indicates a collective attribute parameter type and value. (NOTE 4) | CollectiveBehaviour |
| NOTE 1: Applicability is further described in the corresponding data type.  NOTE 2: For the events "EXCEPTIONS", "UE\_MOBILITY", "UE\_COMM", and "PERF\_DATA", if present, the "appIds" attribute shall include only one element.  NOTE 3: For event "SVC\_EXPERIENCE", only the " tais " attribute within the NetworkAreaInfo data is applicable.  NOTE 4: The attributes "collBehAttr" and "dataProcType" within this attribute may be used to indicate values of collective behaviour attributes to be matched only if the feature "ExtEventFilters" is supported. | | | | | |

\* \* \* \* Next change \* \* \* \*

5.1.8 Feature negotiation

The optional features in table 5.1.8-1 are defined for the Nnef\_EventExposure API. They shall be negotiated using the extensibility mechanism defined in clause 6.6 of 3GPP TS 29.500 [4].

**Table 5.1.8-1: Supported Features**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Feature number** | | **Feature Name** | | **Description** | |
| 1 | | ServiceExperience | | This feature indicates support for the "SVC\_EXPERIENCE" event. | |
| 2 | | UeMobility | | This feature indicates support for the "UE\_MOBILITY" event. | |
| 3 | | UeCommunication | | This feature indicates support for the "UE\_COMM" event. | |
| 4 | | Exceptions | | This feature indicates support for the "EXCEPTIONS" event. | |
| 5 | | ES3XX | | Extended Support for 3xx redirections. This feature indicates the support of redirection for any service operation, according to Stateless NF procedures as specified in clauses 6.5.3.2 and 6.5.3.3 of 3GPP TS 29.500 [4] and according to HTTP redirection principles for indirect communication, as specified in clause 6.10.9 of 3GPP TS 29.500 [4]. | |
| 6 | | EneNA | | This feature indicates support for the enhancements of network data analytics requirements. | |
| 7 | | UserDataCongestion | | This feature indicates support for the event related to User Data Congestion Analytics related information. | |
| 8 | | PerformanceData | | This feature indicates support for the event related to performance data information. | |
| 9 | | Dispersion | | This feature indicates support for the event related to Dispersion Analytics related information. | |
| 10 | | CollectiveBehaviour | | This feature indicates support of collective behaviour information associated with the UEs and its applications. | |
| 11 | | MSQoeMetrics | | This feature indicates support for the event related to Media Streaming QoE metrics for UE Application collected via the Data Collection AF. | |
| 12 | | MSConsumption | | This feature indicates support for the event related to Media Streaming Consumption reports for UE Application collected via the Data Collection AF. | |
| 13 | | MSNetAssInvocation | | This feature indicates support for the event related to Media Streaming Network Assistance invocation for UE Application collected via the Data Collection AF. | |
| 14 | | MSDynPolicyInvocation | | This feature indicates support for the event related to Media Streaming Dynamic Policy invocation for UE Application collected via the Data Collection AF. | |
| 15 | | MSAccessActivity | | This feature indicates support for the event related to Media Streaming access activity for UE Application collected via the Data Collection AF. | |
| 16 | | DataAccProfileId | | This feature indicates support for Data Access Profile Identifier. | |
| 17 | | GNSSAssistData | | This feature indicates the support of the GNSS Assistance Data Collection functionality. | |
| 18 | | UeMobility\_Ext | | This feature indicates support for further extensions to the event related to UE mobility supporting AIML including support of list of application service area collection. Supporting this feature also requires the support of feature UeMobility. | |
| 19 | | ExtEventFilters | | Indicates supported of extended AF event filters. | |

\* \* \* \* End of changes \* \* \* \*