**3GPP TSG-CT3 Meeting #118-e *C3-215173***

**Online, , 11th Oct 2021 - 15th Oct 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **29.520** | **CR** | **0327** | **rev** | **-** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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:*** | Analytics info context transfer operation descriptions | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNA\_Ph2 | | | | |  | ***Date:*** | | | 2021-09-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | TS 23.288 clause 6.1B has specified how to perform transfer of context related to analytics subscriptions, with the respective functionality added via a new service operation (Nnwdaf\_AnalyticsInfo\_ContextTransfer, see TS 23.288 clause 7.3.3). This needs to be implemented by extending the Nnwdaf\_AnalyticsInfo API accordingly. | | | | | | | | |
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| ***Summary of change:*** | | Added service operation descriptions for Nnwdaf\_AnalyticsInfo\_ContextTransfer. | | | | | | | | |
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| ***Consequences if not approved:*** | | Stage 2 requirements not fulfilled. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.2.X (new subclause) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 has no impact on any OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

#### 4.3.2.X Nnwdaf\_AnalyticsInfo\_ContextTransfer service operation

##### 4.3.2.X.1 General

The Nnwdaf\_AnalyticsInfo\_ContextTransfer service operation is used by an NF service consumer to request and get context information related to analytics subscriptions from the NWDAF.

##### 4.3.2.X.2 Request and get from NWDAF context of a subscription

Figure 4.3.2.X.2-1 shows a scenario where the NF service consumer (e.g. NWDAF) sends a request to the NWDAF to request and get from NWDAF context information related to analytics subscriptions (see also 3GPP TS 23.288 [17]).



Figure 4.3.2.X.2-1: Requesting NWDAF context information related to analytics subscriptions

The NF service consumer (e.g. NWDAF) shall invoke the Nnwdaf\_AnalyticsInfo\_ContextTransfer service operation when requesting context information related to analytics subscriptions. The NF service consumer shall send an HTTP GET request on the resource URI "{apiRoot}/nnwdaf-analyticsinfo/v1/context" representing the "NWDAF Context" (as shown in figure 4.3.2.X.2-1, step 1), to request context information related to analytics subscriptions according to the query parameter values of the attributes "context-ids" and "req-context".

Upon the reception of the HTTP GET request, the NWDAF shall retrieve the context information for the requested context identifiers.

If the HTTP request message from the NF service consumer is accepted, the NWDAF shall respond with "200 OK" status code with the message body containing the retrieved context information. The ContextData data structure in the response body shall include for each of the context elements contained in the "contextElems" attribute:

- the context identifier that this context element refers to in the "contextId" attribute, which indicates among others the analytics subscription that this context element is associated with.

- the pending output analytics for the indicated analytics subscription in the "pendAnalytics" attribute if such analytics are available and the NF service consumer has indicated the "PENDING\_ANALYTICS" context type in the "req-context" attribute of the request.

- the historical output analytics for the indicated analytics subscription in the "histAnalytics" attribute if such analytics are available and the NF service consumer has indicated the "HISTORICAL\_ANALYTICS" context type in the "req-context" attribute of the request.

- a timestamp of the last provided output analytics in the "lastOutputTime" if the NF service consumer has indicated the "PENDING\_ANALYTICS" and/or "HISTORICAL\_ANALYTICS" context type in the "req-context" attribute of the request and output analytics had been provided to the analytics consumer.

Editor's Note: It is FFS to add the information about subscriptions with the data sources that are related to the analytics.

- information about aggregation related analytics subscriptions that the NWDAF has with other NWDAFs in the "aggrSubs" attribute if such subscriptions exist and the NF service consumer has indicated the "AGGR\_SUBS" context type in the "req-context" attribute of the request.

- historical data related to the indicated analytics subscription in the "histData" attribute if such data exists and the NF service consumer has indicated the "DATA" context type in the "req-context" attribute of the request.

- identifier of ADRF instance in the "adrfId" attribute if the NWDAF stores data in the ARDF.

- the types of data stored in the ADRF in the "adrfDataTypes" attribute if the "ardfId" attribute is provided.

- identifiers of NWDAF instances used when aggregating multiple analytics subscriptions in the "aggrNwdafIds" if such information is available and the NF service consumer has indicated the "AGGR\_INFO" context type in the "req-context" attribute of the request.

- identifiers of NWDAFs that provide ML models in the "modelProvIds" attribute if such information is available and the NF service consumer has indicated the "ML\_MODELS" context type in the "req-context" attribute of the request.

If the requested context information does not exist, the NWDAF shall respond with "204 No Content" status code.

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