**3GPP TSG- Meeting #**

**, , -**

|  |
| --- |
| *CR-Form-v12.3* |
| **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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Analytics Subscription Transfer corrections |
|  |  |
| ***Source to WG:*** | Nokia |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | eNetAE |  | ***Date:*** | 2024-04-08 |
|  |  |  |  |  |
| ***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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | The procedures for Subscription Transfer update currently reference the 29.552 procedure for Transfer Preparation (PREPARE) even in the case of a Transfer execution (TRANSFER), which means, among others, that the analytcis consumer will not be notified about the new resource URI in the target NWDAF. |
|  |  |
| ***Summary of change:*** | Corrected the Subscription Transfer procedure to point to the right steps of 29.552 for the TRANSFER case. |
|  |  |
| ***Consequences if not approved:*** | Wrong specification. |
|  |  |
| ***Clauses affected:*** | 4.2.2.5.2, 4.2.2.5.3 |
|  |  |
|  | **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 does not impact any OpenAPI file. |
|  |  |
| ***This CR's revision history:*** |  |

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

4.2.2.5.2 Creation of request for analytics subscription transfer

Figure 4.2.2.5.2-1 shows a scenario where the NF Service Consumer (e.g. NWDAF) sends a request to the NWDAF to request the transfer of analytics subscription(s) from the NF Service Consumer to the NF Service Producer (see also 3GPP TS 23.288 [17]).

****

**Figure 4.2.2.5.2-1: NF service consumer requests an analytics subscription transfer**

The NF service consumer shall invoke the Nnwdaf\_EventsSubscription\_Transfer service operation to request the transfer of analytics subscription(s). The NF service consumer shall send an HTTP POST request with "{apiRoot}/nnwdaf-eventssubscription/<apiVersion>/transfers" as Resource URI representing the "NWDAF Event Subscription Transfers", as shown in figure 4.2.2.5.2-1, step 1, to create a request for an "Individual NWDAF Event Subscription Transfer" according to the information in the message body. The AnalyticsSubscriptionsTransfer data structure provided in the request body shall include:

- information about the subscription(s) transfer request as "subsTransInfos" attribute, which, for each subscription that is requested to be transferred, shall include:

a) the type of the transfer request (i.e. if it is a request for transfer preparation or transfer execution) in the "transReqType" attribute;

b) information about the analytics subscription in the "nwdafEvSub" attribute, its contents being as defined for the NnwdafEventsSubscription data structure in clause 4.2.2.2.2; and

c) the NF instance identifer of the consumer of the analytics subscription in the "consumerId" attribute;

and may include:

a) analytics context identifier information about the context that is available at the NF service consumer in the "contextId" attribute;

b) NF instance identifer(s) of active data source(s) the NF service consumer is currently using for the analytics of this analytics subscription in the "sourceNfIds" attribute;

c) NF set identifer(s) of active data source(s) the NF service consumer is currently using for the analytics of this analytics subscription in the "sourceSetIds" attribute;

d) information identifying the ML model(s) that the NF service consumer is currently using for the analytics in the "modelInfos" attribute.

Upon the reception of an HTTP POST request with: "{apiRoot}/nnwdaf-eventssubscription/<apiVersion>/transfers" as Resource URI and AnalyticsSubscriptionsTransfer data structure as request body, in the successful case the NWDAF shall:

- if the "transReqType" attribute has the value PREPARE, perform the steps required for the preparation of an analytics subscription transfer as described in clause 5.4.3 of TS 29.552 [25], create a new Individual NWDAF Event Subscription Transfer resource and send an HTTP "201 Created" response with the URI for the created resource in the "Location" header field, as shown in figure 4.2.2.5.2-1, step 2a; If the "PartialAnalyticsSubTransfer" feature is supported and not all the analytics events in the subscription transfer are accepted, then the NWDAF includes the "failTransEventReports" attribute indicating the failure event(s).

- if the "transReqType" attribute has the value TRANSFER, perform the steps required for the execution of an analytics subscription transfer as described in clause 5.4.2 of TS 29.552 [25],

a) if the "PartialAnalyticsSubTransfer" feature is not supported, or if the "PartialAnalyticsSubTransfer" feature is supported and all the analytics events in the subscription transfer are accepted, send an HTTP "204 No Content" response, as shown in figure 4.2.2.5.2-1, step 2b;

b) if the "PartialAnalyticsSubTransfer" feature is supported and not all the analytics events in the subscription transfer are accepted, the NWDAF creates a new Individual NWDAF Event Subscription Transfer resource and sends an HTTP "201 Created" response with the URI for the created resource in the "Location" header field and with the message body containing a representation of the created subscription transfer including the "failTransEventReports" attribute indicating the failure event(s), as shown in figure 4.2.2.5.2-1, step 2a. The NWDAF then removes the Individual NWDAF Event Subscription Transfer resource.

If errors occur when processing the HTTP POST request, the NF service consumer shall send an HTTP error response as specified in clause 5.1.7.

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

4.2.2.5.3 Update a request for analytics subscription transfer

Figure 4.2.2.5.3-1 shows a scenario where the NF Service Consumer (e.g. NWDAF) sends a request to the NWDAF to update a request for the transfer of analytics subscription(s) from the NF Service Consumer to the NF Service Producer (see also 3GPP TS 23.288 [17]).

****

**Figure 4.2.2.5.3-1: NF service consumer updates a request for an analytics subscription transfer**

The NF service consumer shall invoke the Nnwdaf\_EventsSubscription\_Transfer service operation to update a request for the transfer of analytics subscription(s). The NF service consumer shall send an HTTP PUT request with "{apiRoot}/nnwdaf-eventssubscription/<apiVersion>/transfers/{transferId}" as Resource URI representing the "Individual NWDAF Event Subscription Transfer", as shown in figure 4.2.2.5.3-1, step 1, to update the "Individual NWDAF Event Subscription Transfer" resource identified by the {transferId}. The AnalyticsSubscriptionsTransfer data structure provided in the request body shall include the same contents as described in clause 4.2.2.5.2.

Upon the reception of an HTTP PUT request with: "{apiRoot}/nnwdaf-eventssubscription/<apiVersion>/transfers/{transferId}" as Resource URI and AnalyticsSubscriptionsTransfer data structure as request body, the NWDAF shall:

- if the "transReqType" attribute has the value PREPARE, perform the steps required for the preparation of an analytics subscription transfer as described in clause 5.4.3 of TS 29.552 [25], update the Individual NWDAF Event Subscription Transfer resource identified by "transferId",

a) if the "PartialAnalyticsSubTransfer" feature is not supported, or if the "PartialAnalyticsSubTransfer" feature is supported and all the analytics events in the subscription transfer are accepted, send an HTTP "204 No Content" response, as shown in figure 4.2.2.5.3-1, step 2a;

b) if the "PartialAnalyticsSubTransfer" feature is supported and and not all the analytics events in the subscription transfer are accepted, send an HTTP "200 OK" response with the message body containing a representation of the updated subscription transfer, as shown in figure 4.2.2.5.3-1, step 2b, and the NWDAF includes the "failTransEventReports" attribute indicating the failure event(s).

- if the "transReqType" attribute has the value TRANSFER, perform the steps required for the execution of an analytics subscription transfer as described in clause 5.4.2 of TS 29.552 [25], where:

a) if the "PartialAnalyticsSubTransfer" feature is not supported, or if the "PartialAnalyticsSubTransfer" feature is supported and all the analytics events in the subscription transfer are accepted, remove the Individual NWDAF Event Subscription Transfer resource identified by "transferId", and send an HTTP "204 No Content" response, as shown in figure 4.2.2.5.3-1, step 2a;

b) if the "PartialAnalyticsSubTransfer" feature is supported and and not all the analytics events in the subscription transfer are accepted, update the Individual NWDAF Event Subscription Transfer resource identified by "transferId", and send an HTTP "200 OK" response with the message body containing a representation of the updated subscription transfer including the "failTransEventReports" attribute indicating the failure event(s), as shown in figure 4.2.2.5.3-1, step 2b. The NWDAF then removes the Individual NWDAF Event Subscription Transfer resource.

If errors occur when processing the HTTP PUT request, the NWDAF shall send an HTTP error response as specified in clause 5.1.7.

If the NWDAF determines the received HTTP PUT request needs to be redirected, the NWDAF shall send an HTTP redirect response as specified in clause 6.10.9 of 3GPP TS 29.500 [6].

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