**3GPP TSG-SA4#118 *S4-220398***

**Online, 6-14 April 2022**

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| *CR-Form-v12.0* |
| **Pseudo CHANGE REQUEST** |
|  |
|  | **TS 26.532** | **CR** |  | **rev** |  | **Current version:** | **1.0.0** |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| --- |
|  |
| ***Title:***  |  Minor update of Data Collection and Reporting Configuration API |
|  |  |
| ***Source to WG:*** |  Ericsson LM, BBC, Qualcomm Incorporated |
| ***Source to TSG:*** | S4 |
|  |  |
| ***Work item code:*** | EVEX |  | ***Date:*** | 2022-03-30 |
|  |  |  |  |  |
| ***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 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | Making minor corrections and additions to section 7.2.  |
|  |  |
| ***Summary of change:*** | Proposed modifications and additions to sub-clauses of clause 7 in TS 26.532. |
|  |  |
| ***Consequences if not approved:*** | Less complete TS 26.532. |
|  |  |
| ***Clauses affected:*** |  7.2 |
|  |  |
|  | **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 is a re-submit of S4 aI221325, which was agreed at MBS telco March 10. |
| ***56***  |  |
| ***This CR's revision history:*** |  |

FIRST CHANGE

##### 7.2.2.3.3 Resource standard methods

###### 7.2.2.3.3.1 Ndcaf\_DataReporting\_RetrieveSession operation using GET method

This method shall support the URL query parameters specified in table 7.2.2.3.3.1-1 and the headers specified in table 7.2.2.3.3.1-2.

Table 7.2.2.3.3.1-1: URL query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

Table 7.2.2.3.3.1-2: Headers supported for GET requests on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP request header | Data type | P | Cardinality | Description |
| Authorization | string | M | 1 | For authentication of the data collection client. NOTE1 |
| Origin | string | O | 0..1 | Indicates the origin of the requester. NOTE2 |
| NOTE 1: If OAuth2.0 authorization is used, the value is Bearer followed by a string representing the access token, see section 2.1 RFC 6750 [8].NOTE 2: The Origin header is always supplied if the data collection client is deployed in a Web Browser. |

This method shall support the response data structures and response codes specified in table 7.2.2.3.3.1-3.

Table 7.2.2.3.3.1-3: Data structures supported by the GET response body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| DataReportingSession | M | 1 | 200 OK | The Data Reporting Session resource was modified successfully by configuration data provided by the data collection client. |
| ProblemDetails | O | 0..1 | 307 Temporary Redirect | Temporary redirection during a Data Reporting Session modification. The response shall include a Location header field containing an alternative URL of the resource located in another Data Collection AF (service) instance.Applicable if the feature "ES3XX" (Extended Support of HTTP 307/308 redirection as defined in TS 29.502 [11]) is supported. |
| ProblemDetails | O | 0..1 | 308 Permanent Redirect | Permanent redirection during a Data Reporting Session modification. The response shall include a Location header field containing an alternative URL of the resource located in another Data Collection AF (service) instance.Applicable if the feature "ES3XX" is supported. |
| ProblemDetails | O | 0..1 | 404 Not Found | This Data Reporting Session resource does not exist. (NOTE 2) |
| NOTE 1: The mandatory HTTP error status codes for the GET method as listed in table 5.2.7.1-1 of 3GPP TS 29.500 [9] also apply.NOTE 2: Failure cases are described in subclause 7.2.4. |

Table 7.2.2.3.3.1-5: Headers supported by the 200 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP response header | Data type | P | Cardinality | Description |
| Access-Control-Allow-Origin | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header. |
| Access-Control-Allow-Methods | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: POST, PUT, DELETE. |
| Access-Control-Expose-Headers | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: Location. |

Table 7.2.2.3.3.1-6: Headers supported by the 307 and 308 response codes on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP response header | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URL of the resource located in another Data Collection AF (service) instance. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance towards which the request is redirected |
| Access-Control-Allow-Origin | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header. |
| Access-Control-Allow-Methods | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header. Valid values: POST, PUT, DELETE |
| Access-Control-Expose-Headers | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: Location |

NEXT CHANGE

Table 7.2.2.3.3.2-3: Headers supported for PUT requests on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP request header | Data type | P | Cardinality | Description |
| Authorization | string | M | 1 | For authentication of the data collection client. NOTE1 |
| Origin | string | O | 0..1 | Indicates the origin of the requester. NOTE2 |
| NOTE 1: If OAuth2.0 authorization is used the value is *Bearer* followed by a string representing the access token, see section 2.1 RFC 6750 [8].NOTE 2: The Origin header is always supplied if the data collection client is deployed in a Web Browser. |

NEXT CHANGE

###### 7.2.2.3.3.3 Ndcaf\_DataReporting\_DestroySession operation using DELETE method

This method shall support the URL query parameters specified in table 7.2.2.3.3.3-1.

Table 7.2.2.3.3.3-1: URL query parameters supported by the DELETE method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

This method shall support the request data structures and headers as specified in tables 7.2.2.3.3.3-2 and 7.2.2.3.3.3-3. respectively. Furthermore, this method shall support the response data structures as specified in table 7.2.2.3.3.3-4, and the different response codes as specified in tables 7.2.2.3.3.3-5 and 7.2.2.3.3.3-6, respectively.

Table 7.2.2.3.3.3-2: Data structures supported by the DELETE request body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
|  |  |  |  |

Table 7.2.2.3.3.3-3: Headers supported for DELETE requests on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP request header | Data type | P | Cardinality | Description |
| Authorization | string | M | 1 | For authentication of the data collection client. (NOTE 1) |
| Origin | string | O | 0..1 | Indicates the origin of the requester. (NOTE 2) |
| NOTE 1: If OAuth2.0 authorization is used the value is *Bearer* followed by a string representing the access token, see section 2.1 of RFC 6750 [8].NOTE 2: The Origin header is always supplied if the data collection client is deployed in a web browser. |

Table 7.2.2.3.3.3-4: Data structures supported by the DELETE response body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| n/a |  |  | 204 No Content | Successful case: The Data Reporting Session resource matching the sessionId was destroyed at the Data Collection AF. |
| ProblemDetails | O | 0..1 | 307 Temporary Redirect | Temporary redirection during Data Reporting Session destruction. The response shall include a Location header field containing an alternative URL of the resource located in another Data Collection AF (service) instance.Applicable if the feature "ES3XX" as defined in TS 29.502 [11] is supported. |
| ProblemDetails | O | 0..1 | 308 Permanent Redirect | Permanent redirection during Data Reporting Session destruction. The response shall include a Location header field containing an alternative URL of the resource located in another Data Collection AF (service) instance.Applicable if the feature "ES3XX" is supported. |
| ProblemDetails | O | 0..1 | 404 Not Found | The Data Reporting Session resource does not exist. (NOTE 2) |
| NOTE 1: The mandatory HTTP error status codes for the DELETE method listed in table 5.2.7.1-1 of 3GPP TS 29.500 [9] also apply.NOTE 2: Failure cases are described in subclause 7.2.4. |

Table 7.2.2.3.3.3-5: Headers supported by the 204 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP response header | Data type | P | Cardinality | Description |
| Access-Control-Allow-Origin | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header. |
| Access-Control-Allow-Methods | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: POST, PUT, DELETE. |
| Access-Control-Expose-Headers | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: Location. |

Table 7.2.2.3.3.3-6 Headers supported by the 307 and 308 response codes on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HTTP response header | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URL of the resource located in another Data Collection AF (service) instance. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance towards which the request is redirected |
| Access-Control-Allow-Origin | string | O | 0..1 | Part of CORS [10].Supplied if the request included the Origin header. |
| Access-Control-Allow-Methods | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: POST, PUT, DELETE. |
| Access-Control-Expose-Headers | string | O | 0..1 | Part of CORS [10]. Supplied if the request included the Origin header.Valid values: Location. |

NEXT CHANGE

Table 7.2.3.1-2: Externally defined data types used by Ndcaf\_DataReporting\_CreateSession, Ndcaf\_DataReporting\_RetrieveSession, Ndcaf\_DataReporting\_UpdateSession and Ndcaf\_DataReporting\_DestroySession operations

|  |  |  |
| --- | --- | --- |
| Data type | Comments | Reference |
| ApplicationId | Identifies the reporting application. | 3GPP TS 29.571 [12] |
|  |  |  |
| DurationSec |  |  |
| Double |  |
| Float |  |
| Int32 |  |
| Int64 |  |
| Uint16 |  |
| Uint32 |  |
| Uint64 |  |

NEXT CHANGE

#### 7.2.3.2 Structured data types

##### 7.2.3.2.1 DataReportingSession resource type

Table 7.2.3.2.1-1: Definition of DataReportingSession resource type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Property name | Data type | Cardinality | Usage | Description |
| sessionId | string | 0..1 | C: —R: ROU: RO | Unique identifier for this Data Reporting Session assigned by the Data Collection AF. |
| externalApplicationId | ApplicationID | 1 | C: RWR: ROU: RW | The external application identifier, nominated by the data collection client, to which this Data Reporting Session pertains. |
| supportedDomains | array(DataDomain) | 1 | C: RWR: ROU: RW | Set of domains for which the data collection client declares that it is able to report UE data. (See clause 7.2.3.3.1).An empty array indicates that no UE data can currently be reported. |
| reportForDomains | array(DataDomain) | 0..1 | C: —R: ROU: RO | Subset of supportedDomains above for which the data collection client is requested to report UE data.If the Data Collection AF signals an empty array, no UE data should be reported. |
| reportingCondition | ReportCondition | 0..1 | C: —R: ROU: RO | The condition for reporting, signalled by the Data Collection AF. (See clause 7.2.3.2.2.) |

NEXT CHANGE

##### 7.2.3.3.3 Event enumeration

This clause lists the possible events (EVENT in table 7.2.3.3.2-1) that can be used to trigger a report.

Table 7.2.3.3.3-1: Event enumeration

|  |  |
| --- | --- |
| Enumeration value | Description |
| LOCATION | A new location has been entered (refer to clause A.3). |
| DESTINATION | A new destination has been recorded (refer to clause A.7). |

END OF CHANGES