**3GPP TSG-SA5 Meeting #143-e *S5-223087***

e-meeting, 9 - 17 May 2022

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.291** | **CR** | **0372** | **rev** | **1** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *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:*** | Correcting response code 5xx | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-03-24 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There use of 5xx response codes are inconsistent between the description and the yaml. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding response codes missing in tables compared to yaml. When yaml refers to the response code only then “n/a” is used for the data type in the table. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The handling of response codes is unspecified which may lead to interoperability issues. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.3.2.3.1, 6.1.3.3.4.2.2, 6.1.3.3.4.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 CR's revision history:*** | | Revision of S5-221307 which was not pursued at SA5#141e. | | | | | | | | |

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| **First change** |

###### 6.1.3.2.3.1 POST

This method shall support the URI query parameters specified in table 6.1.3.2.3.1-1.

Table 6.1.3.2.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

This method shall support the request data structures specified in table 6.1.3.2.3.1-2 and the response data structures and response codes specified in table 6.1.3.2.3.1-3.

Table 6.1.3.2.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ChargingDataRequest | M | 1 | Parameters to create a new Charging Data resource. |

Table 6.1.3.2.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ChargingDataResponse | M | 1 | 201 Created | The creation of a Charging Data resource is confirmed, and a representation of that resource is returned.  The Charging Data resource which is created and returned successfully. The representation of created resource is identified via Location header field in the 201 response. |
| n/a |  |  | 307 Temporary Redirect | (NOTE 2) |
| ProblemDetails | O | 0..1 | 400 Bad Request | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 400 Bad Request | Dependent on support of ES4XX  (NOTE 2) |
| n/a |  |  | 401 Unauthorized | (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 403 Forbidden | Dependent on support of ES4XX  (NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 404 Not Found | Dependent on support of ES4XX  (NOTE 2) |
| n/a |  |  | 405 Method Not Allowed | (NOTE 2) |
| n/a |  |  | 408 Request Timeout | (NOTE 2) |
| n/a |  |  | 410 Gone | (NOTE 2) |
| n/a |  |  | 411 Length Required | (NOTE 2) |
| n/a |  |  | 413 Payload Too Large | (NOTE 2) |
| n/a |  |  | 500 Internal Server Error | (NOTE 2) |
| n/a |  |  | 503 Service Unavailable | (NOTE 2) |
| NOTE 1: In addition, the HTTP status codes which are specified as mandatory in table 5.2.7.1-1 of 3GPP TS 29.500 [299] for the POST method also apply.  NOTE 2: Failure cases are described in subclause 6.1.7. | | | | |

Table 6.1.3.2.3.1-4: Headers supported by the 201 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/nchf-convergedcharging/[apiversion}/chargingdata/{chargingDataRef} |

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| **Second change** |

6.1.3.3.4.2.2 Operation Definition

This operation shall support the request data structures specified in table 6.1.3.3.4.2.2-1 and the response data structures and response codes specified in table 6.1.3.3.4.2.2-2.

Table 6.1.3.3.4.2.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ChargingDataRequest | M | 1 | Parameters to modify an existing Charging Data resource matching the ChargingDataRef according to the representation in the ChargingData.  The request URI is the representation in the Location header field in the 201 response of resource creation. |

Table 6.1.3.3.4.2.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ChargingDataResponse | M | 1 | 200 OK | The modification of a Charging Data resource is confirmed, and a representation of that resource is returned.  The Charging Data resource which is modified and returned successfully. |
| n/a |  |  | 307 Temporary Redirect | (NOTE 2) |
| ProblemDetails | O | 0..1 | 400 Bad Request | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 400 Bad Request | Dependent on support of ES4XX  (NOTE 2) |
| n/a |  |  | 401 Unauthorized | (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 403 Forbidden | Dependent on support of ES4XX  (NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 404 Not Found | Dependent on support of ES4XX  (NOTE 2) |
| n/a |  |  | 405 Method Not Allowed | (NOTE 2) |
| n/a |  |  | 408 Request Timeout | (NOTE 2) |
| n/a |  |  | 410 Gone | (NOTE 2) |
| n/a |  |  | 411 Length Required | (NOTE 2) |
| n/a |  |  | 413 Payload Too Large | (NOTE 2) |
| n/a |  |  | 500 Internal Server Error | (NOTE 2) |
| n/a |  |  | 503 Service Unavailable | (NOTE 2) |
| NOTE 1: In addition, the HTTP status codes which are specified as mandatory in table 5.2.7.1-1 of 3GPP TS 29.500 [299] for the POST method also apply.  NOTE 2: Failure cases are described in subclause 6.1.7. | | | | |

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| **Third change** |

6.1.3.3.4.3.2 Operation Definition

This operation shall support the request data structures specified in table 6.1.3.3.4.3.2-1 and the response data structures and response codes specified in table 6.1.3.3.4.3.2-2.

Table 6.1.3.3.4.3.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ChargingDataRequest | M | 1 | Parameters to modify and then release the Charging Data resource matching the ChargingDataRef according to the representation in the ChargingData.  The request URI is the representation in the Location header field in the 201 response of resource creation. |

Table 6.1.3.3.4.3.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Successful case: The Charging Data resource matching the ChargingDataRef is modified and then released. |
| n/a |  |  | 401 Unauthorized | (NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | Dependent on support of ES4XX  (NOTE 2) |
| ChargingDataResponse | O | 0..1 | 404 Not Found | Dependent on support of ES4XX  (NOTE 2) |
| n/a |  |  | 410 Gone | (NOTE 2) |
| n/a |  |  | 411 Length Required | (NOTE 2) |
| n/a |  |  | 413 Payload Too Large | (NOTE 2) |
| n/a |  |  | 500 Internal Server Error | (NOTE 2) |
| n/a |  |  | 503 Service Unavailable | (NOTE 2) |
| NOTE 1: The mandatory HTTP error status codes for the POST method listed in table 5.2.7.1-1 of TS 29.500 [4] also apply.  NOTE 2: Failure cases are described in clause 6.1.7. | | | | |

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| **End of changes** |