**3GPP TSG CT WG3 Meeting #142 *C3-253xxx***

**Goteborg, SE, 25th – 29th August, 2025 was C3-253324**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.122** | **CR** | **0960** | **rev** | **1** | **Current version:** | **19.3.0** |  |
|  | | | | | | | | |
| *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:*** | Support request authorization with the resource owner | | | | | | | | |
|  |  | | | | | | | | |
| ***Source to WG:*** | Huawei, Samsung, Ericsson, Nokia | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | |
|  |  | | | | | | | | |
| ***Work item code:*** | CAPIF\_Ph3 | | | | |  | ***Date:*** | | 2025-08-29 |
|  |  | | | |  | |  | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | |
| ***Reason for change:*** | | | As per the agreed S6-245733 (CR#0233 to TS 23.222), the Service API invocation response is updated to optionally include the "Authorization information with resource owner required" IE in case of failure in order to cover the case where the service producer rejects the request becaure the authorization with the targeted resource owner is missing. | | | | | | |
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| ***Summary of change:*** | | | This CR proposes to:   * Add a new generic NOTE applicable to all NBI APIs to cover this failure case. | | | | | | |
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| ***Consequences if not approved:*** | | | * The above-detailed necessary updates/corrections are not addressed. | | | | | | |
|  | |  | | | | | | | |
| ***Clauses affected:*** | | 5.2.6 | | | | | | | |
|  | |  | | | | | | | |
|  | | **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 the OpenAPI descriptions of the APIs. | | | | | | | |
|  | |  | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | |

\* \* \* \* Start of changes \* \* \* \*

### 5.2.6 Error handling

Table 5.2.6-1 lists response bodies that are applicable to all APIs and as responses for all requests in the present specification unless otherwise specified. The HTTP client shall mandatorily support the processing of the status code for all the applicable methods, when received in a HTTP response message. In such cases the HTTP client shall also support the handling of the "ProblemDetails" JSON object with the Content-Type header field set to the value "application/problem+json", if the corresponding API definition in the current specification does not specify another response body for the corresponding status code.

Table 5.2.6-1: Response bodies supported for responses to all requests.

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| --- | --- | --- | --- | --- | --- |
| Response body | Data type | Cardinality | Response  Codes  (NOTE 1) | Remarks  (NOTE 2, NOTE 4) | Applied Methods |
| ProblemDetails | 1 | 400 Bad Request | Incorrect parameters were passed in the request. | GET, POST PUT, PATCH, DELETE |
| ProblemDetails | 1 | 401 Unauthorized | The client is not authorized as described in IETF RFC 9110 [17]. | GET, POST, PUT, PATCH, DELETE |
| ProblemDetails | 1 | 403 Forbidden | This represents the case when the server is able to understand the request but unable to fulfil the request due to errors (e.g. the requested parameters are out of range).  More information may be provided in the "invalidParams" attribute of the "ProblemDetails" structure.  (NOTE 3) | GET, POST, PUT, PATCH, DELETE |
| ProblemDetails | 1 | 404 Not Found | The resource URI was incorrect, for instance because of a wrong "scsAsId" field. | GET, POST, PUT, PATCH, DELETE |
| ProblemDetails | 1 | 406 Not Acceptable | The content format provided in the "Accept" header is not acceptable by the server. | GET |
| ProblemDetails | 1 | 411 Length Required | The code indicates that the server refuses to accept the request without a Content-Length header field. | POST, PUT, PATCH |
| ProblemDetails | 1 | 413 Content Too Large | **If the received HTTP request contains content larger than the server is able to process, the NF shall reject the HTTP request.** | POST, PUT, PATCH |
| ProblemDetails | 1 | 415 Unsupported Media Type | The code indicates that the resource is in a format which is not supported by the server for the method. | POST, PUT, PATCH |
| ProblemDetails | 1 | 429 Too Many Requests | The code indicates that due to excessive traffic which, if continued over time, may lead to (or may increase) an overload situation.  The HTTP header field "Retry-After" may be added in the response to indicate how long the client has to wait before making a new request. | GET, POST, PUT, PATCH, DELETE |
| ProblemDetails | 1 | 500 Internal Server Error | The server encountered an unexpected condition that prevented it from fulfilling the request. | GET, POST, PUT, PATCH, DELETE |
| ProblemDetails | 1 | 503 Service Unavailable | The server is unable to handle the request. | GET, POST, PUT, PATCH, DELETE |
| NOTE 1: In addition to the above response codes, the SCEF can also send other valid HTTP response codes, if applicable. The list of all valid HTTP response codes can be found in HTTP Status Code Registry at IANA [6].  NOTE 2: The MIME media type that shall be used within the related Content-Type header field is "application/problem+json", as defined in IETF RFC 9457 [8].  NOTE 3: The information about which provided parameters are out of range shall be provided in the "invalidParams" attribute of the "ProblemDetails" structure for the API of network parameter configuration.  NOTE 4: More information may be provided in the "detail" attribute of the "ProblemDetails" structure. | | | | | |

The protocol and application errors in clause 5.2.7.2 of 3GPP TS 29.500 [44] are applicable for the above status codes for the APIs. Specific protocol and application errors are contained in the related API definition for each API.

NOTE: When CAPIF is used and the authorization with the resource owner (e.g., resource owner consent) is required but not fulfilled in a received request from the service consumer, the SCS/AS can reject the request with an HTTP "401 Unauthorized" status code including the "error" attribute set to either "insufficient\_scope" or "insufficient\_scope", and the response body including the ProblemDetails data structure containing the "cause" attribute set to "AUTH\_WITH\_RESOURCE\_OWNER\_REQUIRED".

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