**3GPP TSG-SA5 Meeting #162 *S5-253787***

Goteborg, SWEDEN 25-29 August 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.291** | **CR** | **0634** | **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:*** | Rel-19 CR 32.291 Correction on the Notification | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GS\_Ph1-SBI\_CH, TEI17 | | | | |  | ***Date:*** | | | 2025-08-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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)* | |
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| ***Reason for change:*** | | CHF provides the re-authorization/abort type notification that would lead NF consumers to send an Nchf\_ConvergedCharging\_Update reporting the current usage, and Nchf\_ConvergedCharging\_Release to terminate the charging session.  The "NotifyInfoResponse" is introduced to support response with information for a notification, which is mentioned in the response code 200 and 400. However, for notification mechanism, if the response with code 200 for the notification receipt acknowledgement, there is no corresponding attributes and also not necessary in the charging notify response for the additional information.  There are three candidate options to solve the issue:  1. Remove the "NotifyInfoResponse" in the 200 response code;  2. Add a NOTE in the POST Response body data structures that the " ChargingNotifyResponse" Data type for 200 response code is reserved for future;  3. Add new attributes in the ChargingNotifyResponse for the additional information in response with 200 code. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the "NotifyInfoResponse" and add a NOTE in the POST Response body data structures for 200 code. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The "ChargingNotifyResponse" is unclear and incomplete for 200 response code. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.5.2.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | This is revison of S5-253560 | | | | | | | | |

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| **First change** |

###### 6.1.5.2.3.1 POST

This method shall support the request data structures specified in table 6.1.5.2.3.1-1 and the response data structures and response codes specified in table 6.1.5.2.3.1-2.

Table 6.1.5.2.3.1-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ChargingNotifyRequest | M | 1 | Provides Information about active Charging events. ChargingNotifyRequest data type is defined in subclause 6.1.6. |

Table 6.1.5.2.3.1-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| ChargingNotifyResponse | O | 0..1 | 200 | The receipt of the notification acknowledged, with information.  Dependent on support of NotifyInfoResponse (NOTE3) |
| n/a |  |  | 204 No Content | The receipt of the notification is acknowledged, without information. |
| n/a |  |  | 307 Temporary Redirect | Dependent on support of ES3XX  (NOTE 2) |
| n/a |  |  | 308 Permanent Redirect | Dependent on support of ES3XX  (NOTE 2) |
| ProblemDetails | O | 0..1 | 400 Bad Request | Dependent on support of NotifyInfoResponse  (NOTE 2) |
| ChargingNotifyResponse | O | 0..1 | 400 Bad Request | Dependent on support of NotifyInfoResponse  (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 clause 6.1.7.  NOTE 3: There is no value in data type ChargingNotifyResponse for 200 response code currently. For backward compatibility, the ChargingNotifyResponse for 200 response code is retained for future extensions. | | | | |

Table 6.1.5.2.3.1-3: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative NF (service) instance. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance towards which the request is redirected |

Table 6.1.5.2.3.1-4: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative NF (service) instance. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance towards which the request is redirected |

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| **End of change** |