**3GPP TSG-CT WG3 Meeting #136 *C3-244511***

**Maastricht, NL, 19 - 23 August, 2024 (Revision of C3-244260)**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **29.522** | **CR** | **1348** | **rev** | **1** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *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:*** | Corrections to error handling in the UEAddress API | | | | | | | | | |
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| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NBI19 | | | | |  | ***Date:*** | | | 2024-06-30 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | Clause 4.4.39.2 procedures of UE Address Retrieval defined that if the AF’s request for UE Address retrieval is not authorized, the NEF shall repond to the AF with a 403 Forbidden status code with response body including the ProblemDetails data structure containing the "cause" attribute set to the "REQUEST\_NOT\_AUTHORIZED" application error indicating the AF authorisation failure. The procedure contains this error handling.  However, such error handling is missing in the API definition, hence needs to resolve this misalignment in the UEAddress API.  UE Address description should be more generic and missing UDM in error handling procedure. | | | | | | | | |
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| ***Summary of change:*** | | Remove the "REQUEST\_NOT\_AUTHORIZED" application error in the procedure of the UEAddress API.  Updated UE Address description and adding UDM in error handling procedure. | | | | | | | | |
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| ***Consequences if not approved:*** | | Not matched error handling between the procedure and API definition may lead to wrong implementation. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.39.2 | | | | | | | | |
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|  | | **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 has no impact on OpenAPI. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* First Change \*\*\*

#### 4.4.39.2 Procedures for UE Address Retrieval

This procedure is used by an AF to retrieve UE Address(es).

In order to retrieve the UE Address(es):

- an AF shall invoke the UEAddress API by sending an HTTP POST request to the NEF targeting the custom operation URI "{apiRoot}/3gpp-ue-address/v1/retrieve", with the request body including the UeAddressReq data structure that shall contain:

a) within the "afId" attribute, the identifier of the AF that is sending the request;

b) within the "gpsi" attribute, the GPSI of the UE; and

c) within the "suppFeat" attribute, the features supported by the AF, if applicable (i.e., feature negotiation needs to take place); and

Upon reception of the HTTP POST request message from the AF, the NEF shall check whether the AF is authorized to perform this operation or not:

- if the AF's request for UE Address retrieval is authorized, the NEF shall:

a) determine the corresponding DNN(s) and/or S-NSSAI(s) information based on the local configuration for the requesting AF Identifier;

b) invoke the Nudm\_UECM\_Get service operation to find the SMF serving the PDU session(s) for the GPSI, DNN, S-NSSAI including type of requested information set to SMF Registration Info and the S-NSSAI and DNN, as defined in clause 5.3.2.5.7 of TS 29.503 [17];

c) invoke the Nsmf\_EventExposure\_Subscribe service operation to the identified SMF(s), including the identified PDU Session ID to find the UE IPv4 address and/or IPv6 prefix, as defined in clause 4.2.2 and clause 4.2.3 of TS 29.508 [26];

- upon reception of a successful response from the SMF as defined in 3GPP TS 29.508 [26] and successful processing of the request, the NEF shall respond to the AF with an HTTP "200 OK" status code and the response body including the UE Address information within the UeAddressInfo data structure.

On failure or if the NEF receives an error code from the UDM or SMF, the NEF shall take proper error handling actions, as specified in clause 5.35.7, and respond to the AF with an appropriate error status code.

\*\*\* End of Changes \*\*\*