**3GPP TSG-CT WG4 Meeting #99eC4-20xxxx**

**E-Meeting, 18th – 28th August 2020 *Revision of C4-204155***

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| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **29.542** | **CR** | **0005** | **rev** | **1** | **Current version:** | **16.1.0** |  |
|  |
| *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:***  | Optionality of DeliverError in TS29.542 cleanup |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT4 |
|  |  |
| ***Work item code:*** | 5G\_CIoT |  | ***Date:*** | 2020-07-27 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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:*** | The DeliverError payload in the HTTP error response should be optional.Definition of resource URI in clause 6.1.1 shall also be updated based on the latest template. |
|  |  |
| ***Summary of change:*** | Make the DeliverError optional;Update the definition of the resource URI. |
|  |  |
| ***Consequences if not approved:*** | Error response without payload is not allowed;Misalignment with the SBI template. |
|  |  |
| ***Clauses affected:*** | 6.1.1, 6.1.3.1, 6.1.3.2.4.2.2 |
|  |  |
|  | **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 contribution does not change the OpenAPI. |
|  |  |
| ***This CR's revision history:*** | Rev1:Alignment between title and reason for change |

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

### 6.1.1 Introduction

The Nsmf\_NIDD service shall use the Nsmf\_NIDD API.

The API URI of the Nsmf\_NIDD API shall be:

**{apiRoot}/<apiName>/<apiVersion>/**

The request URI used in HTTP requests from the NF service consumer towards the NF service producer shall have the Resource URI structure defined in clause 4.4.1 of 3GPP TS 29.501 [5], i.e.:

**{apiRoot}/<apiName>/<apiVersion>/<apiSpecificResourceUriPart>**

with the following components:

- The {apiRoot} shall be set as described in 3GPP TS 29.501 [5].

- The <apiName>shall be "nsmf-nidd".

- The <apiVersion> shall be "v1".

- The <apiSpecificResourceUriPart> shall be set as described in clause 6.1.3.

\* \* \* Next Change \* \* \* \*

#### 6.1.3.1 Overview

Figure 6.1.3.1-1 describes the resource URI structure of the Nsmf\_NIDD API.



Figure 6.1.3.1-1: Resource URI structure of the Nsmf\_NIDD API

Table 6.1.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.1.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Individual PDU session | /pdu-sessions/{pduSessionRef}/deliver | deliver (POST) | Delivery Service Operation |

\* \* \* Next Change \* \* \* \*

6.1.3.2.4.2.2 Operation Definition

This operation shall support the request data structures specified in table 6.1.3.2.4.2.2-1 and the response data structure and response codes specified in table 6.1.3.2.4.2.2-2.

Table 6.1.3.2.4.2.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| DeliverReqData | M | 1 |  Representation of the payload of a Deliver Request |

Table 6.1.3.2.4.2.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| n/a |  |  | 204 No Content | Successful delivery of MT data.  |
| DeliverError | O | 0..1 | 504 Gateway Timeout | The "cause" attribute may be used to indicate the following application errors:- UE\_NOT\_REACHABLE, if the UE is not reachable to deliver the mobile terminated data; if Estimated Maximum Waiting Time shall be included if available;See table 6.1.7.3-1 for the description of these errors. |
| NOTE: The mandatory HTTP error status codes for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] other than those specified in the table above also apply, with a ProblemDetails data type when needed (see clause 5.2.7 of 3GPP TS 29.500 [4]). |

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