**3GPP TSG-CT WG4 Meeting #101eC4-205abc**

**E-Meeting, 03rd – 13th November 2020 *was* C4-205107**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.598** | **CR** | **0015** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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:*** | Define Unsubscription to notifications serivce operation | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NUDSF | | | | |  | ***Date:*** | | | 2020-10-23 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | DELETE method of resource Individual NotificationSubscription is defined to unsubscribe to notification for change of data in clause 6, but the definition fo Unsubscription to notifications of data change service operation haven't done in clause 5, there is a misalignment between clause 5 and 6. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Defined Unsubscription to notifications of data change service operation in clause 5. | | | | | | | | |
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| ***Consequences if not approved:*** | | There is a misalignment of the definition related to Unsubscription to notifications of data change service operation between clause 5 and clause 6. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.2.1, 5.2.2.x(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 won't introduce any impact on OpenAPI specification files.. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev1:   1. Fixed typo (i.e. DELTE->DELETE) in Figure 5.2.2.x.2-1. | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*The start of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 5.2.2.1 Introduction

For the Nudsf\_DataRepository service, the following service operations are defined:

- Query

- Create

- Update

- Delete

- Notify

- Subscribe

- Unsubscribe

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next change\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### 5.2.2.x Unsubscribe

##### 5.2.2.x.1 General

The following procedures using the Unsubscribe service operation are supported:

- Unsubscription to notification of data change

##### 5.2.2.x.2 Unsubscription to notifications of data change

Figure 5.2.2.x.2-1 shows a scenario where the NF service consumer sends a request to the UDSF to Unsubscribe to notifications of data change. The request contains the subscriptionId, and query parameter client-id, optionally query parameters supported-features and get-previous.



Figure 5.2.2.x.2-1: NF service consumer unsubscribes to notifications

1. The NF service consumer sends a DELETE request to the resource representing the subscription to notification of data change which is indicated by the subscriptionId.

2a. On success, the UDSF shall respond with "204 No Content" if an empty response body is returned, i.e. the get-previous query parameter was not included in the request.

2b. On success, the UDSF shall respond with "200 OK" with NotificationSubscription containing the NotificationSubscription value before the delete if get-previous was indicated in the request.

2c. If the service operation cannot be authorized due to e.g. the client-id query parameter does not match the clientId of the existing resource, the UDSF shall respond with "403 Forbidden" with including additional error information in the response body (in "ProblemDetails" element).

2d. If there is no valid subscription to notification of data change which is indicated by the request, the UDSF shall respond with "404 Not Found" with including additional error information in the response body (in "ProblemDetails" element).

2e. If one or more conditions given in the request header fields evaluated to false, the UDSF shall respond with "412 Precondition Failed". NotificationSubscription shall be included in the response if get-previous was indicated in the request.

On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the PUT response body.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*The end of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*