**3GPP TSG-CT3 Meeting #112e C3-205070\_r2**

**E-Meeting, 04th – 13th November 2020**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.551** | **CR** | **0042** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 Notification Push procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | pfdManEnh | | | | |  | ***Date:*** | | | 2020-11-05 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | The following corrections and alignments are necessary:   * The "Notifications overview" table in clause 5.5.1 and the "Target URI" clause (5.5.3.2) need to be updated to align with the SBI TS skeleton provided in TS 29.501. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | * Update the "Notifications overview" table and the "Target URI" clause to align with the updated SBI TS skeleton provided in TS 29.501. * Additional editorial corrections and improvements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Necessary corrections are not applied. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.4.3, 5.5.1, 5.5.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 CR introduces backwards compatible changes to OpenAPI specifications files. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev 1:   * Revert the change on the notification URI of the PFD Change Notifications in OpenAPI specifiation file to avoid clashing with CR C3-205151 (#0049). * Further changes to clause 4.2.4.3 to make it general with regards to NF service consumers of the service operation/procedure. | | | | | | | | |

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

4.2.4.3 Notification PUSH

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**Figure 4.2.4.3-1: Notification PUSH**

1. If the NotificationPush feature defined in subclause 5.8 is supported, and when the PFDF only notifies the NF service consumer to retrieve the PFDs for application identifier(s), then the PFDF shall send a POST request to the NF service consumer (e.g. SMF) with "{notifyUri}/notifypush" as URI (where the "notifyUri" was previously supplied by the NF service consumer) and one or more NotificationPush data structure as request body. Each NotificationPush data structure shall include the application identifier(s) within the "appIds" attribute and may include the "allowedDelay" attribute containing the allowed delay time, if received.

2 If the NF service consumer (e.g. SMF) accepts the received POST request, the NF service consumer shall send an HTTP "204 No Content" response.

After the successful processing of the HTTP POST request, the NF service consumer (e.g. SMF) shall invoke the Nnef\_PFDmanagement\_Fetch Service Operation defined in subclause 4.2.2 to retrieve the PFD(s) for the application identifier(s). If the "allowedDelay" attribute is provided for one or more application(s), the NF service consumer (e.g. SMF) shall retrieve the PFD within the allowed delay time.

If errors occur when processing the HTTP POST request, the NF service consumer shall apply error handling procedures as specified in subclause 5.7.

\* \* \* Next changes \* \* \* \*

5.5.1 General

Notifications shall comply to subclause 6.2 of 3GPP TS 29.500 [5] and subclause 4.6.2.3 of 3GPP TS 29.501 [6].

**Table 5.5.1-1: Notifications overview**

|  |  |  |  |
| --- | --- | --- | --- |
| **Notification** | **Custom operation URI** | **Mapped HTTP method** | **Description** |
| PFD Change Notification | {notifyUri}/notify | POST | Notification of PFD change. |
| Notification Push | {notifyUri}/notifypush | notifypush (POST) | Notifies NF service consumer to retrieve the PFDs for application identifier(s). |

\* \* \* Next changes \* \* \* \*

5.5.3.2 Target URI

The Notification URI **"{notifyUri}/notifypush"** shall be used with the URI variables defined in table 5.5.3.2-1.

**Table 5.5.3.2-1: Callback URI variables**

|  |  |  |
| --- | --- | --- |
| **Name** | **Data type** | **Definition** |
| notifyUri | Uri | The Notification Uri as assigned within the PFD subscriptions resource and described within the PfdSubscription data type (see table 5.6.2.3-1). |

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