**3GPP TSG-CT WG3 Meeting #112eC3-205578**

**E-Meeting, 4th – 13th November 2020 (Revision of C3-205315)**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.122** | **CR** | **0316** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  | | | | | | | | |
| *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:*** | Correction to device triggering recall procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NAPS-CT | | | | |  | ***Date:*** | | | 2020-10-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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:*** | | In subclause 4.4.6 device triggering recall procedure description "the SCEF shall recall the device triggering with the SMS-SC by performing the device trigger replace procedure over Tsp as defined in 3GPP TS 29.368", the device trigger replace procedure in TS 29.368 is wrongly used in device trigger recall procedure in this specification. | | | | | | | | |
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| ***Summary of change:*** | | Correct to the device trigger recall procedure in TS 29.368 for above point. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incorrect specification of device triggering recall procedure, arouse wrong implementation and Interoperability problems. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not impact the OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**…**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

### 4.4.6 Procedures for Device Triggering

The procedures are used by the SCS/AS to deliver the device trigger via T8 interface.

In order to create a new device trigger, the SCS/AS shall send an HTTP POST message to the SCEF for the "Device Triggering Transactions" resource. The body of the HTTP POST message shall include the External Identifier or MSISDN, validity period, priority, Application Port ID and trigger payload.

Upon receipt of the corresponding HTTP POST message, the SCEF shall check if the SCS/AS is authorised to send a trigger request and if the SCS/AS has exceeded its quota or rate of trigger submission. The SCEF shall also resolve the External Identifier or MSISDN to IMSI and retrieve the "Routing Information" from HSS for the triggering delivery. If the authorisation check fails, or if the quota or rate of trigger submission was exceeded, or if there is no valid subscription information or if the "Routing Information" cannot be found, then the SCEF shall reject the request with an error message to the SCS/AS. Otherwise, the SCEF shall perform the device trigger procedure over Tsp as defined in 3GPP TS 29.368 [24] and T4 as defined in 3GPP TS 29.337 [25]. Upon completion of this procedure, the SCEF shall create a resource "Individual Device Triggering Transaction" which represents the triggering transaction, addressed by a URI that contains the SCS/AS identity and an SCEF-created transaction identifier, and shall respond to the SCS/AS with a 201 Created message, including the trigger and a Location header field containing the URI for the created resource. The SCS/AS shall use the URI received in the Location header in subsequent requests to the SCEF to refer to this device triggering transaction.

In order to replace an existing device trigger, the SCS/AS shall send an HTTP PUT message to the SCEF for the "Individual Device Triggering Transaction" resource, using the URI received in the response to the request that has created the device triggering transaction resource. The body of the HTTP PUT message shall include External Identifier or MSISDN, validity period, priority, Application Port ID and trigger payload.

After receiving the corresponding HTTP PUT message from the SCS/AS, the SCEF shall check if the SCS/AS is authorised to replace an existing device trigger and if the SCS/AS has not exceeded its quota or rate of trigger submission. If any of these checks fail, then the SCEF shall reject the message with an error. Otherwise, the SCEF shall replace the device triggering with the SMS-SC by performing the device trigger replace procedure over Tsp as defined in 3GPP TS 29.368 [24] and T4 as defined in 3GPP TS 29.337 [25]. Upon completion of this procedure, the SCEF shall send an HTTP response to the SCS/AS to indicate trigger replace success or failure.

In order to recall an existing device trigger, the SCS/AS shall send an HTTP DELETE message to the SCEF for the "Individual Device Triggering Transaction" resource, using the URI received in the response to the request that has created the device triggering transaction resource.

After receiving the corresponding HTTP DELETE message from the SCS/AS, the SCEF shall check if the SCS/AS is authorised to send a recall trigger request and if the SCS/AS has not exceeded its quota or rate of trigger submission. The SCEF shall also check if the device triggering transaction resource referenced by the URI exists. If any of these checks fail, then the SCEF shall reject the message with an error. Otherwise, the SCEF shall recall the device triggering with the SMS-SC by performing the device trigger recall procedure over Tsp as defined in 3GPP TS 29.368 [24] and T4 as defined in 3GPP TS 29.337 [25]. Upon completion of this procedure, the SCEF shall send an HTTP response to the SCS/AS to indicate trigger recall success or failure.

When it receives the Message Delivery Report from the SMS/SC, the SCEF shall send an HTTP POST message to the SCS/AS to report the trigger delivery result. The body of the HTTP POST message shall include the identifier if the transaction and cause. The SCS/AS shall respond with an HTTP 200 OK or 204 No Content response.

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