**3GPP TSG- Meeting #130 *C3-234356\_R2***

**Xiamen, China, 09th – 13th October, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0182** | **rev** | **-** | **Current version:** |  |  |
|  |
| *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:***  | Improvement of the Delete\_TSC\_Stream service operation for the time synchronization capabilities |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | SEAL\_Ph3 |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** |  |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | This CR provides the improvement of the Delete\_TSC\_Stream service operation based on the update of clause 14.3.7.3 (see CR #0223 and CR#0226 of 3GPP TS 23.434). |
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| ***Summary of change:*** | This CR proposes the update of the Delete\_TSC\_Stream service operation for the time synchronization activation based on stage 2 requirements. |
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| ***Consequences if not approved:*** | * Misalignment with stage 2 requirements.
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| ***Clauses affected:*** | 5.5.1.2.8.2 |
|  |  |
|  | **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 does not impact any OpenAPI file.
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| ***()*** |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

###### 5.5.1.2.8.2 VAL server requesting to delete a TSC stream using Delete\_TSC\_Stream service operation

In order to delete a TSC stream, the VAL server shall send an HTTP DELETE message to the NRM server, with "{apiRoot}/ss-nra/<apiVersion>/tsc-streams/{valStreamId}" as the Resource URI representing the TSC stream identified by the VAL sStream ID to be deleted.

Upon reception of the HTTP DELETE message, the NRM server shall:

1. identify the MAC addresses of the DS-TTs involved in the stream based on the stored information for the VAL Stream ID;

2. determine the requirement of the time synchronization deactivation for the DS-TTs:

- if none of the streams require to keep the time synchronization activated, deactivate the time synchronization for the involved DS-TTs;

- otherwise, keep the time synchronization activated for the involved DS-TTs for which time synchronization was previously activated;

3. for each VAL UE, as the trusted NRM server within the PLMN operator domain acting as a TSCTSF shall:

- deactivate the time synchronization for the DS-TTs as per step 2 above by invoking the Npcf\_PolicyAuthorization\_Update service operation as defined in 3GPP TS 29.514 [30]; and

- initiate the PCC procedures by triggering the Npcf\_policy\_Authorization\_Delete service operation to delete the QoS flows as defined in 3GPP TS 29.514 [30] with all the MAC addresses referred by the VAL Stream ID; and

4. if the NRM server receive a successful response from the PCF, the NRM server shall delete the existing TSC stream in the "Individual TSC Stream" resource. Then the NRM server shall send an HTTP DELETE response message with "204 No Content" status code to the VAL server as a successful result of TSC stream deletion for the VAL Stream ID. If the NRM server receive an error code from the PCF, the NRM server shall take proper error handling action and shall respond to the VAL server with a proper error status code as unsuccessful result.

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