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

**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. then:

- 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 trusted NRM server within the PLMN operator domain acting as a TSCTSF:

- 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;

4. upon reception of a successful response from the PCF:

- delete the existing TSC stream in the "Individual TSC Stream" resource; and

- send an HTTP DELETE response message with an HTTP "204 No Content" status code to the VAL server as a successful result of TSC stream deletion for the VAL Stream ID;

and

5. 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 \* \* \* \*