**TSG-CT WG3 Meeting #118-e *C3-215074***

**E-Meeting, 11th – 15th October 2021 (Revision of C3-215xyz)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.512** | **CR** | 0843 | **rev** | **-** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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:*** | Clarify the scenario where the TSC and time synchronization are not supported | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | IIoT | | | | |  | ***Date:*** | | | 2021-10-11 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 time sensitive communication or time synchronization is not supported in the sceario of home routed roaming. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify the time sensitive communication or time synchronization is not supported in the sceario of home routed roaming. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Erroneous implementations might emerge, assuming that TSC is applicable also in home-routed roaming. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*

#### 4.2.2.19 Detection of the SM Policy Association enabling Time Sensitive Communications and Time Synchronization

When the feature "TimeSensitiveNetworking" or "TimeSensitiveCommunication" is supported, the PCF detects if the Npcf\_SMPolicyControl\_Create request relates to SM Policy Association enabling Time Sensitive Communications and Time Synchronization based on the received DNN and S-NSSAI. The PCF then may provide within the SmPolicyDecision data structure the "TSN\_BRIDGE\_INFO" policy control request trigger within the "policyCtrlReqTriggers" attribute to instruct the SMF to trigger a PCF interaction when the trigger is met; i.e., new TSC user plane node information is available.

Editor’s note: How this procedure is impacted to extend the support to other Time Sensitive Communication applications than TSN is FFS.

NOTE: Time sensitive communication and time synchronization are not supported in home-routed roaming scenarios.

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