**3GPP TSG-SA3 Meeting #110e AdHoc *S3-23xxxx***

**e-meeting, 17 - 21 April 2023** (revision of S3-yyxxxx)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.328** | **CR** | **draftCR** | **rev** | - | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Skeleton for NG\_RTC\_SEC | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NG\_RTC\_SEC | | | | |  | ***Date:*** | | | 2023-04-17 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | This contribution proposes the necessary changes to specify the security aspects for enabling next generation real time communication services according to the conclusions of the corresponding study. This includes the security requirements and mechanisms for data channel usage and applicability of service based principles to IMS media control interface. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A new clause for the security aspects of next generation real time communication services. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incomplete work for the phase 2 NG RTC features. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | Annex X (New clause) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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's revision history:*** | |  | | | | | | | | |

\*\*\*\* Start of Changes\*\*\*\*

Annex X (normative):   
Security aspects of next generation real time communication services

# X.1 Security aspects of Data Channel usage in IMS network

## X.1.1 General

This clause describes the security features that are necessary to support data channel in IMS network.

## X.1.2 Media security for bootstrap data channels

### X.1.2.1 General

### X.1.2.2 e2ae security for bootstrap data channels using DTLS

## X.1.3 Media security for P2A/A2P data channels

### X.1.3.1 General

### X.1.3.2 e2ae and e2e security for P2A/A2P data channels

## X.1.4 Media security for P2P data channels

### X.1.4.1 General

### X.1.4.2 e2ae and e2e security for P2P data channels

# X.2 Security aspects of SBA in IMS media control interface

## X.2.1 General

This clause describes the security features that are necessary to support SBA in IMS media control interface.

## X.2.2 Protection at the network or transport layer

## X.2.3 Authentication and authorization

\*\*\* END of CHANGEs \*\*\*