**3GPP SA3LI#87-e-a S3i220534**

**Virtual meeting; October 4-6, 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.127** | **CR** | **0184** | **rev** | **2** | **Current version:** | **18.1.0** |  |
|  | | | | | | | | |
| *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:*** | |  | | --- | | STIR/SHAKEN: Updates to have alignment with stage 3 | | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (Nokia, Nokia Shanghai Bell) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI17 | | | | |  | ***Date:*** | | | 2022-10-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | ***A*** |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The stage 2 text for STIR/SHAKEN is not aligned to the recently enhanced stage 3 text. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Stage2 text is modified for alignment purpose. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Stage 2 remains incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.14.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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's revision history:*** | | S3i220534 | | | | | | | | |

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

### 7.14.2 Architecture

The IMS Signaling Function that interacts with the AS for verification or the LMISF-IRI (inbound roaming with HR) or P-CSCF (inbound roaming with LBO) shall provide the IRI-POI functions for STIR/SHAKEN and RCD/eCNAM. In addition, at the originating side of the session, the IMS Signaling Function that interacts with the AS for signing shall provide the IRI-POI functions for STIR/SHAKEN and RCD. In some redirection cases, the IMS Signaling Function, even if not interacting with the AS of verification, may have to provide the IRI-POI functions for STIR/SHAKEN and RCD/eCNAM (see TS 33.128 [15] clause 7.11.2.3).

Depending on the deployment, the IMS signaling function that interacts with the AS for signing is either the Telephony AS or the Egress IBCF (see figure E.2.1-1). Similarly, depending on the deployment, the IMS signaling function that interacts with the AS for verification is either the Telephony AS or the Ingress IBCF (see figure E.2.1-1).

Accordingly, the table 7.14.2-1 identifies the IRI-POIs for STIR/SHAKEN and RCD while table 7.14.2-2 identifies the IRI-POIs for eCNAM.

Table 7.14.2-1: IMS Network Functions providing the IRI-POI functions for STIR/SHAKEN and RCD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Target/session scenarios | | Originating end | | Terminating end | |
| Option 1 | Option 2 | Option 1 | Option 2 |
| UE is the target | Non-roaming UE/outbound roaming UE | See table 7.14.2-x1 | See table 7.14.2-x1 | See table 7.14.2-x2 | See table 7.14.2-x2 |
| Inbound roaming UE (HR) | n/a | n/a | LMISF-IRI | LMISF-IRI |
| Inbound roaming UE (LBO) | n/a | n/a | P-CSCF | P-CSCF |
| Emergency session | Egress IBCF | Egress IBCF | n/a | n/a |
| From target non-local ID | Non-roaming UE/Outbound roaming UE | n/a | n/a | See table 7.14.2-x2 | See table 7.14.2-x2 |
| Inbound roaming UE (HR) | n/a | n/a | LMISF-IRI | LMISF-IRI |
| Inbound roaming UE (LBO) | n/a | n/a | P-CSCF | P-CSCF |
| To target non-local ID | Non-roaming UE/Outbound roaming UE | See table 7.14.2-x1 | See table 7.14.2-x1 | n/a | n/a |
| Inbound roaming UE (HR) | n/a | n/a | n/a | n/a |
| Inbound roaming UE (LBO) | n/a | n/a | n/a | n/a |

Table 7.14.2-2: IMS Network Functions providing the IRI-POI functions for eCNAM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Target/session scenarios | | Originating end | | Terminating end | |
| Option 1 | Option 2 | Option 1 | Option 2 |
| UE is the target | Non-roaming UE | n/a | n/a | See table 7.14.2-x2 | See table 7.14.2-x2 |
| Inbound roaming UE (HR) | n/a | n/a | LMISF-IRI | LMISF-IRI |
| Inbound roaming UE (LBO) | n/a | n/a | P-CSCF | P-CSCF |
| Emergency session | n/a | n/a | n/a | n/a |
| From target non-local ID | Non-roaming UE | n/a | n/a | See table 7.14.2-x2 | See table 7.14.2-x2 |
| Inbound roaming UE (HR) | n/a | n/a | LMISF-IRI | LMISF-IRI |
| Inbound roaming UE (LBO) | n/a | n/a | P-CSCF | P-CSCF |
| To target non-local ID | Non-roaming UE | n/a | n/a | n/a | n/a |
| Inbound roaming UE (HR) | n/a | n/a | n/a | n/a |
| Inbound roaming UE (LBO) | n/a | n/a | n/a | n/a |

NOTE: In the tables option 1 and option 2 indicate the deployment options of IMS Signaling Function that interacts with the AS for signing or AS for verification. Such deployment options can be mutually independent in the originating CSP or the terminating CSP. For emergency sessions, Egress IBCF interacts with the AS for signing.

Table 7.14.2-X1: IMS Network Functions providing the IRI-POI functions when UE is not roaming (originating end)

|  |  |  |
| --- | --- | --- |
| Scenario | Option 1 | Option 2 |
| RCD is present | Telephony AS | Telephony AS |
| Intra-CSP session signing/verification is required | Telephony AS | Telephony AS |
| Intra-CSP session signing/verification is not required (intra-CSP session) | n/a | n/a |
| Intra-CSP session signing/verification is not required (inter-CSP session) | Telephony AS | IBCF |

Table 7.14.2-X2: IMS Network Functions providing the IRI-POI functions when UE is not roaming (terminating end)

|  |  |  |
| --- | --- | --- |
| Scenario | Option 1 | Option 2 |
| RCD is present | Telephony AS | IBCF |
| Intra-CSP session signing/verification is required | Telephony AS | Telephony AS |
| Intra-CSP session signing/verification is not required (intra-CSP session) | n/a | n/a |
| Intra-CSP session signing/verification is not required (inter-CSP session) | Telephony AS | IBCF |
| Special case of redirection | Telephony AS | Telephony AS |

### \*\* End of all Changes \*\*