**3GPP TSG-SA3 Meeting #89-LI *s3i230300***

**Washington DC, United States, 25th Apr 2023 - 28th Apr 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.127** | **CR** | **0208** | **rev** | **2** | **Current version:** | **17.8.0** |  |
|  | | | | | | | | |
| *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:*** | Modification of IETF reference (ie. [46]) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3LI (Ministère Economie et Finances; PIDS) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI17 | | | | |  | ***Date:*** | | | 2023-04-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Incorrect reference name | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Reference name corrected | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The tracking of IETF dependencies is not possible | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, E.2.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | S3i230249, S3i230282 | | | | | | | | |

**\*\*\* Start of First Change \*\*\***

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System Architecture for the 5G System".

[3] 3GPP TS 33.126: "Lawful interception requirements".

[4] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[5] 3GPP TS 23.271: "Functional stage 2 description of Location Services (LCS)".

[6] OMA-TS-MLP-V3\_5-20181211-C: "Open Mobile Alliance; Mobile Location Protocol, Candidate Version 3.5", <https://www.openmobilealliance.org/release/MLS/V1_4-20181211-C/OMA-TS-MLP-V3_5-20181211-C.pdf>".

[7] ETSI TS 103 120: "Lawful Interception (LI); Interface for warrant information".

[8] ETSI TS 103 221-1: "Lawful Interception (LI); Internal Network Interfaces; Part 1: X1 ".

[9] 3GPP TS 33.501: "Security Architecture and Procedures for the 5G System".

[10] ETSI GR NFV-SEC 011: "Network Functions Virtualisation (NFV); Security; Report on NFV LI Architecture".

[11] 3GPP TS 33.107: "3G Security; Lawful interception architecture and functions".

[12] 3GPP TS 23.214: "Architecture enhancements for control and user plane separation of EPC nodes; Stage 2".

[13] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".

[14] 3GPP TS 38.413: "NG-RAN; NG Application Protocol (NGAP)".

[15] 3GPP TS 33.128: "Protocol and Procedures for Lawful Interception; Stage 3".

[16] ETSI TS 103 221-2: " Lawful Interception (LI); Internal Network Interfaces; Part 2: X2/X3".

[17] MMS Architecture OMA-AD-MMS-V1\_3-20110913-A.

[18] Multimedia Messaging Service Encapsulation Protocol OMA-TS-MMS\_ENC-V1\_3-20110913-A.

[19] 3GPP TS 22.140: "Multimedia Messaging Service (MMS); Stage 1".

[20] ETSI GS NFV-IFA 026: "Network Functions Virtualisation (NFV) Release 3; Management and Orchestration; Architecture enhancement for Security Management Specification".

[21] 3GPP TS 33.108: "Handover Interface for Lawful Interception (LI)".

[22] 3GPP TS 23.401: "General Packet Radio Service (GPRS) enhancements for   
Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".

[23] 3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses".

[24] 3GPP TS 23.280: "Common functional architecture to support mission critical services; Stage 2".

[25] OMA-AD-PoC-V2\_1-20110802-A: "Push to talk over Cellular (PoC) Architecture".

[26] GSMA IR.92: "IMS Profile for Voice and SMS".

[27] GSMA NG.114: "IMS Profile for Voice, Video and Messaging over 5GS".

[28] 3GPP TS 24.147: "Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3".

[29] ETSI GS NFV-SEC 012: "Network Functions Virtualisation (NFV) Release 3; Security; System architecture specification for execution of sensitive NFV components".

[30] 3GPP TS 23.273: "5G System (5GS) Location Services (LCS); Stage 2".

[31] 3GPP TS 29.522: "5G System; Network Exposure Function Northbound APIs; Stage3".

[32] 3GPP TS 29.122: "T8 reference point for Northbound APIs".

[33] 3GPP TS 23.682: "Architecture enhancements to facilitate communications with packet data networks and applications".

[34] OMA-AD-CPM-V2\_2-20170926-C: "Open Mobile Alliance, OMA Converged IP Messaging System Description", <http://www.openmobilealliance.org/release/CPM/V2_2-20200907-C/OMA-AD-CPM-V2_2-20170926-C.pdf>.

[35] GSMA RCC.07: "Rich Communication Suite – Advanced Communications Services and Client Specification".

[36] IETF RFC 4975: "The Message Session Relay Protocol (MSRP)".

[37] IETF RFC 6714: "Connection Establishment for Media Anchoring (CEMA) for the Message Session Relay Protocol (MSRP)".

[38] IETF RFC 3862: "Common Presence and Instant Messaging (CPIM): Message Format".

[39] 3GPP TS 24.229: "IP Multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[40] IETF RFC 8224: "Authenticated Identity Management in the Session Initiation Protocol (SIP)".

[41] IETF RFC 8946: "Personal Assertion Token (PASSporT) Extension for Diverted Calls".

[42] IETF draft-ietf-stir-passport-rcd-12, "PASSporT Extension for Rich Call Data".

NOTE: The above document cannot be formally referenced until it is published as an RFC.

[43] IETF RFC 7095: "jCard: The JSON Format for vCard".

[44] 3GPP TS 24.196: "Enhanced Calling Name (eCNAM)".

[45] IETF RFC 8816: "Secure Telephone Identity Revisited (STIR) Out-of-Band Architecture and Use Cases".

[46] IETF draft-ietf-stir-messaging-07, "Messaging Use Cases and Extensions for STIR".

NOTE: The above document cannot be formally referenced until it is published as an RFC.

[47] 3GPP TS 33.535: "Authentication and Key Management for Applications (AKMA) based on 3GPP credentials in the 5G System (5GS)".

[48] 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA)".

[49] 3GPP TS 33.222: "Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)".

[50] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

**\*\*\* End of First Change \*\*\***

## E.2.3 STIR/SHAKEN for messaging

STIR/SHAKEN could apply to providing protection for textual and multimedia messaging as specified in an IETF draft-ietf-stir-messaging-07 [46].

A PASSporT could be used to securely negotiate a session over which messages will be exchanged; this is applicable for example to the following RCS services: large message mode standalone messaging, 1-to-1 chat and group chat where messages are exchanged using MSRP (Message Session Relay Protocol) after the SIP ssession is established. In these scenarios, usage of STIR/SHAKEN is very similar to that for voice sessions.

In sessionless scenarios such as RCS pager mode standalone messaging service, a PASSporT could be generated on a per-message (i.e. SIP MESSAGE) basis with its own built-in message security. An Identity header could be added to any SIP MESSAGE request, but without some extension to the PASSporT claims, the PASSporT would offer no protection to the message content. In IETF draft-ietf-stir-messaging-07 [46], PASSporT provides its own integrity check for message contents as part of its assertions through a new claim which is here defined to provide a hash over message contents. A new "msg" PASSporT Type is defined for that purpose. A new optional claim "msgi" provides a digest over a MIME body (i.e. body of the SIP MESSAGE). The PASSporT is conveyed in an Identity header field in the SIP MESSAGE request. The authentication and verification service procedures for populating that PASSporT follow the same procedures as for a voice session, with the addition of the "msgi" claim.

**\*\*\* End of Second Change \*\*\***