**3GPP TSG-SA3 Meeting #84-LI-e-a *s3i220035r1***

**Online, , 24th Jan 2022 - 28th Jan 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **33.128** | **CR** | **0313** | **rev** | **1** | **Current version:** | **17.3.0** |  |
|  |
| *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:***  | Correction on the payload direction in PDU header for IMS Message record |
|  |  |
| ***Source to WG:*** | SA3LI (Ministère Economie et Finances) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI17 |  | ***Date:*** |  |
|  |  |  |  |  |
| ***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 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)* |
|  |  |
| ***Reason for change:*** | Current values of the payload direction field of the X2 PDU structure of IMS message record are not compliant with the values defined in ETSI TS 103 221-2 |
|  |  |
| ***Summary of change:*** | Clarification and correction on the payload direction field values of the X2 PDU structure of IMS Message record |
|  |  |
| ***Consequences if not approved:*** | Inconsistency on values of the payload direction field of the X2 PDU structure of IMS Message record will remain |
|  |  |
| ***Clauses affected:*** | 7.12.4.2 |
|  |  |
|  | **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:*** | s3i220035 |

First change

#### 7.12.4.2 IMS records

##### 7.12.4.2.1 IMS Message

For an intercepted IMS based communication (see clause 7.12.2.8), the IRI-POI present in the IMS Signaling Function shall generate the xIRI IMSMessage from the SIP message used to handle that IMS based communication. All SIP messages use the same xIRI record as shown in table 7.12.4.2-1.

Table 7.12.4.2-1: Payload for IMSMessage record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| payload | One of the following payload types (other payload types may be added in future versions of the specification):* encapsulatedSIPMessage: See table 7.12.4.2-2.
 | M |
| sessionDirection | Indicates the direction of the SIP session: fromTarget, toTarget, combined (if target calls him/herself) or indeterminate if the direction cannot be determined reliable (see NOTE). | M |
| voIPRoamingIndication | Indicates whether the roaming mode is inbound LBO, S8HR or N9HR when the target is in roaming situation. | C |
| location | Location (e.g. PANI Header) with timestamp, if available. | C |
| NOTE: When an incoming call to a target is redirected to another user, the sessionDirection field shall be set to toTarget. When an incoming call from a target non-local ID to an IMS user is redirected to, the sessionDirection field shall be set to fromTarget. |

Table 7.12.4.2-2: Structure of the encapsulatedSIPMessage parameter

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| iPSourceAddress | Indicates the conditional source IPv4 address or source IPv6 address field in the PDU header to the source IP address of the intercepted SIP message (see ETSI TS 103 221-2 [8] clause 5.3). | M |
| iPDestinationAddress | Indicates the conditional destination IPv4 address or destination IPv6 address field in the PDU header to the destination IP address of the intercepted SIP message (see ETSI TS 103 221-2 [8] clause 5.3). | M |
| sIPContent | The relevant SIP message, or SIP message header if the warrant requires IRI-only. In addition, for IRI-only intercepts, specific content (e.g. SIP MESSAGE method) may have to be deleted. | M |

The IRI-POI present in the IMS signaling function generating an xIRI containing an IMSMessage record shall set:

- The Payload Direction field in the PDU header to the direction of the signaling message carried in the IRI payload (see ETSI TS 103 221-2 [8] clause 5.2.6). If the signalling message was sent from the target, the Direction Value "3" (sent from the target) shall be used, if the signalling message was sent to the target, the Direction Value "2" (sent to the target) shall be used; if the direction could not be determined reliably, the Direction Value "1" (not known to the POI) shall be used. If the SIP message is sent from and to the target, the Direction Value "4" (more than one direction) shall be used. For the SIP messages generated by the network, the Direction Value "5" (not applicable) shall be used.

- The conditional source IPv4 address or source IPv6 address field in the PDU header to the source IP address of the intercepted SIP message (see ETSI TS 103 221-2 [8] clause 5.3). It shall contain the source address of the packet from the 32-bit "Source Address" field in IPv4, as defined in IETF RFC 791 [34], or from the 128-bit "Source Address" field in IPv6, as defined in IETF RFC 2460 [27].

- The conditional destination IPv4 address or destination IPv6 address field in the PDU header to the destination IP address of the intercepted SIP message (see ETSI TS 103 221-2 [8] clause 5.3). It shall contain the destination address of the packet from the 32-bit "Source Address" field in IPv4, as defined in IETF RFC 791 [34], or from the 128-bit "Source Address" field in IPv6, as defined in IETF RFC 2460 [27].

##### 7.12.4.2.2 Start of interception with Active IMS session

The IRI-POI present in the IMS signaling function shall generate the xIRI StartOfInterceptionForActiveIMSSession when all of the following conditions are met:

- The IRI-POI receives an LI\_X1: ActivateTask from the LIPF.

- The IRI-POI detects the IMS user identified by one or more of the target identifier (s) included in the ActivateTask is on an active IMS session.

 - The-IRI-POI in the IMS signaling functions meets the criteria mentioned in TS 33.127 [5] for providing the IRI-POI functions.

The generation of the xIRI shall be independent of the IMS media associated with the session. If multiple IMS sessions are active at the start of interception, a StartOfInterceptionForActiveIMSSession record shall be generated for each active session.

The following table contains parameters, with IRITargetIdentifier, generated by the IRI-POI.

Table 7.12.4.2.-3: Payload for StartOfInterceptionForActiveIMSSession record

| Field name | Description | M/C/O |
| --- | --- | --- |
| originatingId | Identities of the originator of the session. | M |
| terminatingId | Identities of the termination of the service. | M |
| sDPState | Latest state of session from IMS signaling function (including LMISF) will provide the agreed SDP answer and related modification (encoded in SDP format as per RFC 4566 [43] clause 5 when known.) for each media stream of the target. | C |
| diversionIdentity  | Provided if available and applicable. | C  |
| voIPRoamingIndication | Indicates whether the roaming mode is LBO, S8HR or N9HR.when the target is in roaming situation.  | C |
| location | Location (e.g. PANI Header) with timestamp, if available. | C |

End of changes