**3GPP TSG-SA3 Meeting #94-LI *s3i240488***

**Amsterdam, Netherlands, 9th Jul 2024 - 12th Jul 2024**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **33.127** | **CR** | **0244** | **rev** | **1** | **Current version:** | **18.8.0** |  |
|  |
| *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)*.* |
|  |

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

|  |
| --- |
|  |
| ***Title:***  | Description of implementations for intercepting post dialled digits |
|  |  |
| ***Source to WG:*** | SA3-LI (OTD\_US) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI18 |  | ***Date:*** | 2024-07-10 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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 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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | The current IMS LI reporting solution does not provide any specific requirements or capability for reporting post dialled digits sent by the target when interception and reporting of such digits is authorized. This contribution describes various implementations to enable the interception of these digits. |
|  |  |
| ***Summary of change:*** | Adds description of requirements and implementations for the interception of Post Dialled Digits. |
|  |  |
| ***Consequences if not approved:*** | The interception of post dialled digits may not be possible when required. |
|  |  |
| ***Clauses affected:*** | 7.4.3.2, new 7.4.8 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 33.128 CR 667  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | s3i240445 |

## \*\*\*\* START OF FIRST CHANGE \*\*\*\*

#### 7.4.3.2 IRI events

The IRI-POI present in the IMS Signalling Function generates the following xIRI:

- Encapsulated SIP message.

- CC unavailable in serving PLMN.

- Start of interception with an established IMS session.

- IRI Only RTP Packet.

The encapsulated SIP message xIRI is generated and delivered to the MDF2 when the IRI-POI in the IMS Signalling Function detects that a SIP message is received from, or sent to, a target or processed on behalf of a target at the IMS Signalling Function.

The CC unavailable in PLMN xIRI is generated and delivered to the MDF2 for the session scenarios where access to the target media is not available to the CSP (see clause 7.4.7.1).

The start of interception with an established IMS session xIRI is generated when an interception is activated on an established IMS session. To support the possibility of generating such an xIRI, the IMS Signalling Function shall store and maintain the session related information including the media information for the life of all IMS sessions.

The IRI Only RTP Packet xIRI is generated and delivered when authorized IRI is present in the RTP Stream (e.g. when the delivery of Post Dialled Digits is required).

## \*\*\*\* START OF NEXT CHANGE \*\*\*\*

### 7.4.8 Interception of xIRI from media plane packets

#### 7.4.8.1 General

In some cases, IRI must be derived from media plane packets. One report type that requires such a capability is the reporting of post dialled digits.

The approaches described below are similar to the approach for Packet header information reporting described in clause 7.12.2 and the approach used for the interception of HTTP File Transfer IRI in RCS described in clause 7.13.2.

#### 7.4.8.2 Implementation approaches.

To support the generation of related xIRI from media plane packets, the present document supports two implementation approaches:

- In approach 1, xIRI (that includes the correlation number and the target identity) is generated by the IRI-POI in the IMS Media Functions. The IRI-POI generates the xIRI from the media plane packets and sends it to the MDF2. The MDF2 generates the IRI messages and sends them to the LEMF.

- In approach 2, xCC is generated by the CC-POI in the IMS Media functions as if the warrant involves the interception of communication contents. It may be possible to limit the xCC generated to only include packets which contain relevant IRI (e.g. RTP packets containing post dialled digits). To enable this, the CC-POI is presumed to be present and provisioned in the IMS Media functions even when the warrant does not require the interception of communication contents. The CC-POI generates the xCC and sends it to the MDF3. The MDF3 (based on the provisioned intercept information) does not generate and deliver the CC to the LEMF. Instead, the MDF3 forwards the xCC to the MDF2 over LI\_MDF interface. The MDF2 then generates the IRI messages from xCC and delivers those IRI messages to the LEMF.

POIs in IMS Media Functions require a trigger to enable it to detect the user plane packets. The corresponding Triggering Function (IRI-TF or CC-TF) resides in the IMS Signalling Function as described in clause 7.4.4.

## \*\*\*\* END OF CHANGES \*\*\*\*