**3GPP TSG-SA3 Meeting #96-LI *s3i250082***

**Sophia-Antipolis, France, 28th Jan 2025 - 31st Jan 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.128** | **CR** | **0717** | **rev** | **1** | **Current version:** | **18.10.0** |  |
|  | | | | | | | | |
| *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:*** | Corrections to IMS Data Channel LI Solution | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (OTD\_US) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI18 | | | | |  | ***Date:*** | | | 2025-01-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Trigger corrections for IMS Data Channel LI solution as well as a correction in the IMS DC LI service applicability. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correct text in 7.12.2.5.8, Align triggers in 7.12.4.2.4 and 7.12.2.5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Specification will remain errant. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.12.2.5.8, 7.12.4.2.4, 7.12.4.2.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | s3i250035 | | | | | | | | |

**\*\*START OF CHANGES\*\***

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

##### 7.12.2.5.8 LI for IMS Data Channel

This includes LI for IMS-based voice, video, application, or multimedia services for target originated or target terminated sessions.

LI for IMS Data Channel services applies if the following is true:

- The m-line in the SDP answer is application.

- Media format is webrtc-datachannel.

It is possible that SDP offer and SDP answer may have different information in m-line. The determination on whether to intercept the IMS Data Channel media is based on the final outcome of SDP offer and answer, which happens to be in the SDP answer, see TS 26.114 [139] clause 6.2.10.

The media associated with an IMS Data Channel session may also change in the middle of a session using the re-INVITE procedures invoked by either of the parties involved in the session. Accordingly, the interception of IMS Data Channel media may start, resume, or cease in the middle of an IMS data channel session based media type negotiated at the conclusion the related SDP offer and answer. LI reporting for this procedure is reported via a IMSDataChannelSessionModification xIRI as described in clause 7.12.4.2.5 of the present document.

IMS Data Channel session xIRI and xCC are correlated independently from non-IMS Data Channel IMS sessions utilizing the mediaID within the mediaInfo parameter, see TS 29.176 [137] clauses 6.1.6.1 and 6.1.6.2.4.

**\*\*END OF FIRST CHANGE\*\***

**\*\* START OF SECOND CHANGE\*\***

##### 7.12.4.2.4 IMS Data Channel Setup

The IRI-POI present in the DCSF that also has the CC-TF (which would have triggered the media interception at the CC-POI) shall generate the IMSDataChannelSetup xIRI when the IRI-POI in the DCSF detects that the IMS DC has been successfully setup.

Accordingly, the IRI-POI present in the DCSF shall generate the IMSDataChannelSetup xIRI when the following conditions are met:

- The target match conditions are satisfied as described in clause 7.12.2.8.2.2.

AND

- The DCSF receives a SessionEventNotification with the EventType of "SESSION\_ESTABLISHMENT\_SUCCESS" of "MEDIA\_CHANGE\_SUCCESS" (when the IMS DC is setup during a SIP re-Invite) from the IMS-AS.

Table 7.12.4.2.4-1: Payload for IMSDataChannelSetup record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| targetIdentity | IMPU | 1 | Identity of the target | M |
| callingIdentity | IMPU | 0..1 | Identity of the originating party of the session. | C |
| calledIdentity | IMPU | 1..MAX | Identity of the terminating party. | C |
| sessionEventNotification | SBIType | 0..1 | Contains the entire payload of the Session Event Notification sent from the DC-AS to the DCSF. Shall be encoded as per TS 29.175 [138] clause 6.1.6.2.2. The SBIReference for this parameter shall be populated with  'TS29175\_Nimsas\_SessionEventControl.yaml#/components/schemas/Nims\_SessionEventControlService' as specified in TS 29.175 [138] clause A.2. | C |
| mediaInstructionData | SBIType | 0..1 | Contains the entire payload of the Media Instruction sent from the DCSF to the DC-AS. The SBIReference for this parameter shall be populated with  'TS29175\_Nimsas\_MediaControl.yaml#/components/schemas/Nimsas\_MediaControlService' as specified in TS 29.175 [138] clause A.3. | C |

##### 7.12.4.2.5 IMS Data Channel Modification

The IRI-POI present in the DCSF shall generate the IMSDataChannelModifcation xIRI when the POI in the DCSF observes a media change event resulting in a modification to an existing target IMS Data Channel session.

Accordingly, the IRI-POI present in the DCSF shall generate the IMSDataChannelModification xIRI when the following conditions are met:

- The target match conditions are satisfied as described in clause 7.12.2.8.2.2.

AND

- The DCSF receives a NotificationEvent for the target with the eventType set to "MEDIA\_ CHANGE\_SUCCESS" from the DC-AS when the IMS Data Channel Setup has already been sent.

Table 7.12.4.2.5-1: Payload for IMSDataChannelModification record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| targetIdentity | IMPU | 1 | Identity of the target | M |
| callingIdentity | IMPU | 0..1 | Identity of the originating party of the session. | C |
| calledIdentity | IMPU | 1..MAX | Identity of the terminating party. | C |
| sessionEventNotification | SBIType | 0..1 | Contains the entire payload of the Session Event Notification sent from the DC-AS to the DCSF. Shall be encoded as per TS 29.175 [138] clause 6.1.6.2.2. The SBIReference for this parameter shall be populated with  'TS29175\_Nimsas\_SessionEventControl.yaml#/components/schemas/Nims\_SessionEventControlService' as specified in TS 29.175 [138] clause A.2. | C |
| mediaInstructionData | SBIType | 0..1 | Contains the entire payload of the Media Instruction sent from the DCSF to the DC-AS. The SBIReference for this parameter shall be populated with  'TS29175\_Nimsas\_MediaControl.yaml#/components/schemas/Nimsas\_MediaControlService' as specified in TS 29.175 [138] clause A.3. | C |

**\*\*END OF SECOND CHANGE\*\***

**\*\* END OF ALL CHANGES\*\***