**3GPP TSG SA WG2 Meeting #164 *S2-240xxxx***

**19 - 23 August, 2024, Maastricht, Netherlands (Revision of S2-2407950)**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **23.228** | **CR** | **1412** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | Events of PS data off status activation and deactivation |
|  |  |
| ***Source to WG:*** | China Mobile |
| ***Source to TSG:*** | SA2 |
|  |  |
| ***Work item code:*** | NG\_RTC\_Ph2 |  | ***Date:*** | 2024-07-11 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *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:*** | To handle the PS data off for IMS data channel on the DCSF, the IMS AS needs to report the DCSF the events of PS data off status activation and deactivation when the UE changes the status accordingly.The Nimsas\_SessionEventControl service operation of IMS AS needs to be extended to include the events of PS data off status activation and deactivation. |
|  |  |
| ***Summary of change:*** | Add the events of PS data off status activation and deactivation to Nimsas\_SessionEventControl service operation of IMS AS. |
|  |  |
| ***Consequences if not approved:*** | Incomplete specification |
|  |  |
| ***Clauses affected:*** | AA.2.4.2.2 |
|  |  |
|  | **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:*** |  |

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

AA.2.4.2.2 Nimsas\_SessionEventControl\_Notify service operation

**Service operation name:** Nimsas\_SessionEventControl\_Notify

**Description:** This service operation enables IMS AS to notify consumers of session events related to a specific served IMS subscriber requesting use of IMS data channel media.

**Inputs, Required:** Session ID, Event ID,

Session ID is the identity of the IMS session for which the event relates to.

Event ID is the event triggered within the IMS session.

**Inputs, Optional:** Calling ID, Called ID, Session case, Event initiator, Media info list.

Calling ID is the public identity of the calling IMS subscriber. Called ID is the public identity of the called IMS Subscriber. Session case indicates if this is an originating or terminating IMS session. Event initiator indicates initiator of the event, i.e. 'served IMS subscriber' vs 'remote IMS subscriber'. Media info list includes for each media in the list:

- media ID: uniquely identifies this media item within the list. The identity is allocated by IMS AS,

- media specification: This depends on media type including relevant media attributes of interest to the consumer. The media specification includes the following media description attributes:

- Media Type: DC, Audio, or Video.

 When the media type is "DC", the elements below are derived from the SDP received by the IMS AS in an SIP INVITE or a re-INVITE related to an IMS Data Channel and the corresponding DTLS connection.

- Data Channel Mapping and Configuration Information: This attribute is applicable to Data Channel and includes relevant configuration Information, including the stream ID and application binding information of the Data Channel.

- Maximum Message Size: This attribute defines the maximum size to be expected.

- Data Channel Port: This attribute identifies the port for the Data Channel.

- Security Setup: This attribute identifies the security set up of the DTLS connection.

- Security Certificate Fingerprint: This attribute identifies the security certificate fingerprint.

- Security Transport Identity: This attribute identifies transport layer identity.

**Outputs, Required:** Result indication.

**Outputs, Optional:** None.

The table below presents supported EventIDs and related parameters.

**Table AA.2.4.2.2-1: List of events and Related Optional parameters**

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| --- | --- |
| **EventID** | **Parameters** |
| SessionEstablishmentRequestEvent | Calling ID, Called ID, Session case, Event initiator, Media info list |
| SessionEstablishmentProgressEvent | Media info list |
| SessionEstablishmentAlertingEvent | Media info list |
| SessionEstablishmentSuccessEvent | Media info list |
| SessionEstablishmentFailureEvent |  |
| MediaChangeRequestEvent. | Event initiator, Media info list |
| MediaChangeSuccessEvent | Media info list |
| MediaChangeFailureEvent | Media info list |
| SessionTerminationEvent | Session case |
| PSDataOffStatusEvent | PS Data Off Status |

\*\*\*\* End of Changes \*\*\*\*