**3GPP TSG SA WG2 Meeting #160 *S2-2313470***

**November 13 - 17, 2023, Chicago, USA revision of S2-2313044**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.228** | **CR** | **1375** | **rev** | **-** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | IMS Data Channel establishment | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NG\_RTC | | | | |  | ***Date:*** | | | 2023-11-14 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | It was agreed during discussions in SA2#159 that the UE can be configured whether and when to establish an IMS DC. Corresponding LS was sent to CT6 and CT1. | | | | | | | | |
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| ***Summary of change:*** | | It is clarified that the UE can be configured by the HPLMN via Device Management or in the UICC whether and when to initiate a DC establishement request. | | | | | | | | |
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| ***Consequences if not approved:*** | | Misinterpretation of specification. SA2 specification not aligned with CT1 and CT6. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | AC.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*

# AC.4 IMS DC Channel Setup

The following principles apply when an IMS Data Channel is established: -

- UE can establish an IMS Data Channel simultaneously while establishing an IMS audio/video session or upgrade an ongoing IMS audio/video session through a re-INVITE to an IMS Data Channel session.

NOTE: An IMS Data Channel established simultaneously with an IMS audio/video session can have impact to the IMS session setup time.

- The UE may be configured by the HPLMN either via Device Management or in the UICC whether and when to initiate a DC establishment request. If the UE is not configured whether and when to establish an IMS Data Channel, it is left for UE implementation when to initiate the DC establishment request. The UE shall not initiate a DC establishment request if the network has not indicated support for IMS DC service during IMS registration or if the UE is configured to not establish an IMS Data Channel.

- If a UE that has not subscribed to IMS Data Channel establishes an IMS Data Channel simultaneously with an IMS audio/video IMS session, the IMS AS shall discard the Data Channel request and proceed with the audio/video IMS session establishment.

- The DCSF provides stream ID and a corresponding URL to the MF or MRF via the IMS AS during data channel media resource reservation for the bootstrap data channel that enables downloading a subscriber specific graphical user interface to the UE via the bootstrap data channel. The stream ID is optional. Once the MF or MRF, acting as HTTP proxy, receive a HTTP GET Request containing the root ("/") URL through the bootstrap data channel, the MF or MRF replaces the root ("/") URL in the HTTP GET Request with the subscriber specific URL corresponding to the stream ID (if available) of the bootstrap data channel and forward the request to the DCSF for downloading the subscriber specific graphical user interface to the UE. The MF retrieves the stream ID of the bootstrap data channel from the transport layer of the data channel connection. The UE shall maintain the HTTP session state when interacting with the MF.

# AC.5 Binding of DC Application with the related DC

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