**3GPP TSG-SA WG4 Meeting #129e S4-241564r03**

**eMeeting, 4**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.567** | **pCR** |  | **rev** | **03** | **Current version:** | **0.2.0** |  |
|  | | | | | | | | |
| *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 | **x** | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | General procedures for session modifications for Split Rendering over IMS | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SR\_IMS | | | | |  | ***Date:*** | | | 12-05-2024 |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | Clause 7.2 of the latest draft of TS 26.567 v 0.2.0 is left incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR proposes new high level call flows for general procedures for session modification for split rendering session over IMS and the corresponding text for clause 7.2 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Clause 7.2 will remain incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7. 2 (new). | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

|  |
| --- |
| 1st Change |

7.2 General procedures for session modifcation from UE1-centric

The following below procedures indicate the session modification procedures during an established SR session over a standalone IMS DC channel, when the UE requires to download a dedicated application via a standalone IMS DC session. The session negotiation for split rendering is indicated as below:



Step 1-10: established IMS session and split rendering session establishment

**Step 11:** When the UE1 discovers that its media capabilities cannot meet the related media rendering requirements, the UE1 decides to modify the existing split rendering call flow; UE sends a request to modify the split rendering session to the IMS AS.

**Step 12:** The IMS AS interacts with the DCSF via DC1 to send updated event notifications to modify the split.

**Step 13:** The DCSF receives event reports from the IMS AS and decides whether the requested data channel service is allowed to be provided during the IMS session.

**Step 14**: The IMS AS receives the updated data channel control instructions from the DCSF and accordingly interacts with the MF. Note: here it is assumed that there are more than one MF. It is also assumed that the serving MF does not satisfy the new request (due to unavailability).

**Step 15:** The (new) MF is discovered (if the existing serving MF does not satisfy the UE1 request for session modification).

**Step 16**: UE-1 sends application request to the newly discovered MF to request an application list.

**Step 17**: (new) MF response with application list include an identifier that if the application is capable to be split rendered. DCSF received the list and forward to the UE-1.

**Step 18**: If step 15 is yes, the IMS AS sends a Split Rendering Request to the (new) MF through the established application data channel, the request includes the information of the objects to be rendered in IMS network

**Step 19**: The (new) MF sends a description of the split rendering output to the IMS AS.

**Step 20:** The IMS AS sends the media resource allocation request to the MF , to reserve media rendering resource for the UE1.

**Step 21**: When the resources are allocated successfully, the MF returns a successful response to the IMS AS.

**Step 22:** The IMS AS returns a successful response to the UE1.

**Step 23**: Successful SR session is established between UE1 and MF through the data channel

**Step 24:** similar session also can be established between UE-1 and UE-2 for remote UE.

|  |
| --- |
| End of change |