**3GPP TSG- Meeting #**

**Sydney, , -**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Conference\_CC\_POI\_127 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI16 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | A |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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 7.4.6.3 of TS 33.127 within Note 4, under Table 7.4.6.3-3 states that when a normal IMS session is extended to a conference session, the IMS AGW can continue to perform the CC\_POI functions **as an alternate** or in addition to the MRFP.  While there is no major problem with the IMS AGW continuing to perform the CC\_POI functions in addtion to the MRFP, there is a problem with the IMS AGW perfroming CC\_POI functions as an alternate or in place of the MRFP. There are certain activities and events that the MRFP will have access to that may not be available at the IMS AGW. For example, if a target places their connection to the conference on hold, the IMS AGW will not have access to the CC related to the ongoing conference. Access to the CC in this case is required for meeting regulatory requirements in a number of countries and the place that has such access is the MRFP, not the IMS AGW.  To ensure that the above can be supported, it is proposed to clarify the text of Note 4 such that the alternate option be allowed only for the case where the interception of CC for a held conference is not required. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Added text “applicable only when the delivery of held conference call is not required” to NOTE 4 relative to the alternate option. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | CSPs may not be able to meet their regulatory obligations regarding LI of conferences. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.4.6.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 is mirror CR to CR0223 | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | s3i230560 | | | | | | | | |

## \*\*\*\* START OF FIRST CHANGE (MAIN DOCUMENT) \*\*\*

7.4.6.3 IMS Network Functions providing the CC-TF and CC-POI functions

The IMS Network Functions that handle the target side (including the non-local ID target) of the session provide the CC-TF and CC-POI functions. For redirected scenarios, the IMS Network Functions that handle the redirected-to-user side of the session provide the CC-TF and CC-POI functions.

Table 7.4.6.3-1 provides the IMS Network Functions that provide the CC-TF functions when the CC-POI functions are provided by the IMS Media Functions as indicated (also see clause 7.4.4.1).

**Table 7.4.6.3-1: Mapping between the IMS Network Functions providing the CC-TF and the CC-POI functions**

|  |  |
| --- | --- |
| **CC-POI** | **CC-TF** |
| PGW (NOTE 1) | P-CSCF |
| PGW-U (NOTE 1) | P-CSCF |
| IMS-AGW | P-CSCF |
| MRFP | AS/MRFC |
| MRFP | Conference AS/MRFC |
| PTC-Server | PTC-Server |
| TrGW | IBCF |
| IM-MGW | MGCF |

NOTE 1: This is defined in TS 33.107 [11] and outside the scope of the present document.

Table 7.4.6.3-2 below identifies the IMS Media Functions that provide the CC-POI functions in a non-roaming case for session scenarios (PGW and PGW-U based options are not shown in the table).

**Table 7.4.6.3-2: IMS Media Functions providing the CC-POI functions (non-roaming case)**

|  |  |
| --- | --- |
| **Session type/target type** | **CC-POI** |
| Normal sessions | IMS-AGW |
| Emergency sessions | IMS-AGW |
| Redirected sessions: intra-PLMN | IMS-AGW |
| Redirected sessions: inter-PLMN (CS domain) | IM-MGW |
| Redirected sessions: inter-PLMN (IMS-domain) | TrGW |
| Music, announcement | MRFP |
| Conference (NOTE 4) | MRFP |
| PTC | PTC- Server |
| Non-local ID in CS domain (NOTE 2) | IM-MGW |
| Non-local ID in IMS domain (NOTE 2) | TrGW |

NOTE 2: Non-roaming means that the local served user is non-roaming.

Table 7.4.6.3-3 below identifies the IMS Media Functions that provide the CC-POI functions in a roaming case for various session scenarios (PGW and PGW-U based options are not shown in the table).

**Table 7.4.6.3-3: IMS Media Functions providing the CC-POI functions (roaming case)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Session type/target type** | | **Local Breakout (LBO)** | | | **Home Routed (HR)** | |
| **HPLMN** | **VPLMN** | | **HPLMN** | **VPLMN** |
| **Default** | **Alternate Option** |
| Normal sessions | | TrGW | IMS-AGW | - | IMS-AGW | N9HR/ S8HR |
| Emergency sessions | | - | IMS-AGW | - | - | IMS-AGW |
| Redirected sessions: intra-PLMN | Redirected-to-party non-roaming | IMS-AGW | - | - | IMS-AGW | - |
| Redirected-to-party roaming | TrGW | - | - | IMS-AGW | - |
| Redirected sessions: inter-PLMN | Redirected-to-party in CS domain | IM-MGW | - | - | IM-MGW | - |
| Redirected-to-party in IMS domain | TrGW | - | - | TrGW | - |
| Conference (NOTE 4) | | MRFP | - | - | MRFP | - |
| Music, announcement | | MRFP | - | - | MRFP | - |
| PTC | | PTC-Server | - | - | PTC-Server | - |
| Non-local ID in CS domain (NOTE 3) | | IM-MGW | IMS-AGW | TrGW (NOTE 5) | IM-MGW | N9HR/ S8HR |
| Non-local ID in IMS domain (NOTE 3) | | TrGW | IMS-AGW | TrGW (NOTE 5) | TrGW | N9HR/S8HR |

NOTE 3: Roaming means that the local served user is roaming.

NOTE 4: When a normal session is extended to a conference session, the IMS-AGW that provides the CC-POI functions prior to the conference may continue to provide the CC-POI functions as an alternate (applicable only when the delivery of CC for a held conference call is not required), or in addition, to the MRFP. In that case, the P-CSCF provides the CC-TF functions for the CC-POI in the IMS-AGW.

NOTE 5: This is applicable only for IMS sessions with home-routed media with a TrGW present in the VPLMN.

## \*\*\*\* END OF FIRST CHANGE (MAIN DOCUMENT) \*\*\*

## \*\*\*\* END OF MAIN DOCUMENT CHANGES \*\*\*

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