**3GPP TSG-CT WG1 Meeting #125-eC1-20XXXX**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.229** | **CR** | **6435** | **rev** | **1** | **Current version:** | **16.6.0** |  |
|  | | | | | | | | |
| *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:*** | IMS behavior for EPS fallback | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Lenovo, Motorola Mobility | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-08-13 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17)* | |
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| ***Reason for change:*** | | TS 23.502, TS 23.228 andTS 29.514 enhance the signalling to enable the P-CSCF to optimize the call session setup which was originally initiated in NR. The P-CSCF is therefore made aware once the IMS packet transmission is disabled in the NR and once the IMS packet transmission is reenabled in the EPS. This enables the P-CSCF to improve the IMS session establishment. TS 29.513 elaborates on this enhancement by P-CSCF subscribing to the EPS fallback and access network information to avoid loss of SIP signalling and to perform resource allocation in prior to forwarding the SIP message containing SDP. | | | | | | | | |
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| ***Summary of change:*** | | The CR implements the procedures for the P-CSCF to subscibe to event notifications defined in TS 29.514 to improve the IMS session establishment. | | | | | | | | |
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| ***Consequences if not approved:*** | | The functionality that the P-CSCF may choose to perform the resource allocation at the time of EPS fallback prior to forward SIP signalling when the interworking is supported without N26 interface, is not implemented. | | | | | | | | |
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| ***Clauses affected:*** | | 2, U.3.2.X (new) | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |

----------------------------- next Change ----------------------------------

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

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[XXX] 3GPP TR 29.513: "5G System; Policy and Charging Control signalling flows and QoS parameter mapping; Stage 3".

----------------------------- next Change ----------------------------------

**U.3.2.X EPS fallback**

While establishing an IMS session upon authorizing the resources necessary for this IMS session over NR, a P-CSCF may get the information about EPS fallback and the access network information as specified in 3GPP TS 29.514 [273]. A SIP message is transmitted towards the targeted UE in this case after a successful handover or redirection from NR to EPS with established voice bearer as specified in 3GPP TS 29.513 [XXX].----------------------------- end of Change ----------------------------------