**3GPP TSG-CT WG1 Meeting #138-eC1-22xxxx**

**E-Meeting, 10th – 14th October 2022 *was* C1-225740**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.501** | **CR** | **4719** | **rev** | **1** | **Current version:** | **18.0.1** |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | Initiation of authentication and key agreement procedure for 5G ProSe U2N relay UE in NORMAL-SERVICE state | | | | | | | | | |
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| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5G\_ProSe | | | | |  | ***Date:*** | | | 2022-10-13 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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:*** | | The relay UE initiation of the authentication and key agreement procedure for 5G ProSe UE-to-network relay which is a new type of 5GMM proceudre introduced in 5G\_ProSe needs to be specified as one of the UE behaviors when the UE is NORMAL-SERVICE state in subclause 5.2.3.2.1.  In subclause 5.2.3.2.1, NOTE 1 and NOTE 2 should be moved under bullet c) since these two NOTEs clarify the paging case. | | | | | | | | |
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| ***Summary of change:*** | | In subclause 5.2.3.2.1:   * add the bullet to specify the UE in NORMAL-SERVICE state shall initiate the authentication and key agreement procedure for 5G ProSe UE-to-network relay according to the conditions given in subclause 5.5.4; and * move NOTE 1 and NOTE 2 under bullet c).   Backward compatibility analysis:  This CR is backward compatible. The change clarifies the related UE behavior to make the specification complete. The change will not affect the UE implementation of 5G ProSe UE-to-network ralay. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete specification. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.3.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

##### 5.2.3.2.1 NORMAL-SERVICE

The UE:

a) shall initiate the mobility or the periodic registration update procedure (according to conditions given in subclause 5.5.1.3.2), except that the periodic registration update procedure shall not be initiated over non-3GPP access;

b) shall initiate the service request procedure (according to conditions given in subclause 5.6.1);

c) shall respond to paging;

d) if configured for eCall only mode as specified in 3GPP TS 31.102 [22], shall perform the eCall inactivity procedure at expiry of timer T3444 or timer T3445 (see subclause 5.5.3);

e) shall initiate a registration procedure for mobility and periodic registration update on the expiry of timer T3511; and

f) if acting as a 5G ProSe UE-to-network relay UE as specified in 3GPP 24.554 [19E], shall initiate the authentication and key agreement procedure (according to the conditions given in subclause 5.5.4).

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