**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** |
|  |
|  | **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 |
|  |  |
| ***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 canbe 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)* |
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| ***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 \* \* \* \*