**3GPP TSG-CT WG1 Meeting #138-eC1-225861**

**E-Meeting, 10th – 14th October 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0188** | **rev** |  | **Current version:** | **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:*** | Add groupcast communication security related content | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | Per SA3 agreements on groupcast communication security related content (see TS 33.503): *6.5.2 Security requirements* *There are no requirements for securing the groupcast mode 5G ProSe Direct Communication.*  *The 5G System shall protect against linkability and trackability attacks on Layer-2 ID and IP address for groupcast mode.* *6.5.3 Security procedures* *There are no particular procedures defined for securing the groupcast mode 5G ProSe Direct Communication.*  *The groupcast mode security mechanism to randomise the UE’s source Layer-2 ID and source IP address including IP prefix (if used), as defined in clause 5.5 of TS 33.536 [6], is reused in 5G ProSe to provide groupcast mode 5G ProSe Direct Communication security.*  The above should be reflected in stage-3 spec as well. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the statement that how to change and randomise the UE’s source Layer-2 ID and source IP address including IP prefix (if used) is specified in clause 5.4 of 3GPP TS 33.536.  **Backward compatibility analysis**  This CR is backward compatible. This CR proposes the groupcast communication security related requirement. | | | | | | | | |
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| ***Consequences if not approved:*** | | Missing stage-3 requirement on groupcast communication security. | | | | | | | | |
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| ***Clauses affected:*** | | 7.4.2.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 7.4.2.4 Privacy of 5G ProSe direct transmission over PC5

The procedures described in clause 7.3.2.4 apply with the following additions:

a) using the privacy timer T5200 for groupcast; and

b) how to change and randomise the UE's source layer-2 ID and source IP address including IP prefix (if used) is specified in clause 5.4 of 3GPP TS 33.536 [37] with the consideration of replacing V2X with 5G ProSe.

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