**3GPP TSG-CT WG1 Meeting #136-eC1-223831**

**E-Meeting, 12th – 20th May 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.554** | **CR** | **0102** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  |
| *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 | **x** | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | Adding overview clause for 5G ProSe direct discovery |
|  |  |
| ***Source to WG:*** | vivo |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5G\_ProSe |  | ***Date:*** | 2022-04-27 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Clause 6.1 is for overview of 5G ProSe direct discovery, but it is missing in TS 24.554 v17.0.0.Also, the newly proposed 5G PKMF address request procedure (see C1-223835) in parallel (CT1#136e) is also included in this paper to keep alignment (see bullet h). |
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| ***Summary of change:*** | Adding the overview clause for 5G ProSe direct discovery |
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| ***Consequences if not approved:*** | Missing content of clause 6.1. |
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| ***Clauses affected:*** | 6.1, 6.2.1 |
|  |  |
|  | **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 \* \* \* \*

## 6.1 Overview

This clause describes the PC3a control protocol procedures between the UE and the 5G DDNMF for 5G ProSe direct discovery announcing and monitoring. This clause also describes the 5G ProSe protocol procedures at the UE for 5G ProSe direct discovery of other ProSe-enabled UEs over the PC5 interface.

\* \* \* Next Change \* \* \* \*

### 6.2.1 Types of 5G ProSe direct discovery procedures

The following PC3a control protocol procedures are defined:

a) announce request;

b) monitor request;

c) discoveree request;

d) discoverer request;

e) match report;

f) network initiated direct discovery update;

g) announcing alert request; and

h) 5G PKMF address request procedure.

In the following descriptions of PC3a control protocol procedures, the terms "request" and "response" refer to the corresponding PC3a control protocol messages, not to the HTTP request or response. The following procedure descriptions use a single PC3a control protocol message for illustration purposes.

The PC3a control protocol procedures for 5G ProSe direct discovery shall be integrity protected and confidentiality protected using the security procedures defined in clause 5.2.3 in 3GPP TS 33.503 [34].

NOTE 1: A single HTTP request message can contain multiple PC3a control protocol requests and a single HTTP response message can contain multiple PC3a control protocol responses.

NOTE 2: The privacy of the UE identity included in the PC3a control protocol procedures for 5G ProSe direct discovery is ensured by the confidentiality protection of those procedures.

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