**3GPP TSG-SA1 Meeting #94e-bis *S1-21xxxx***

**Electronic Meeting, 4 – 12 July 2021** *(revision of S1-21xxxx)*

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **22.859** | **CR** | **<CR#>** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  |
| *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 |  |

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|  |
| ***Title:***  | Update definition and abbreviation section |
|  |  |
| ***Source to WG:*** | vivo |
| ***Source to TSG:*** | 3GPP SA1 |
|  |  |
| ***Work item code:*** | FS\_PIN |  | ***Date:*** | 21st June 2021 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Term device is not defined, unclear what it is.Some abbreviations are used that have not been defined. |
|  |  |
| ***Summary of change:*** | Add text to state what a PIN Element can be in terms of existing 3GPP definitions.Add abbreviations |
|  |  |
| ***Consequences if not approved:*** | Unclear what potential requirements are applicable to.Unclear what abbreviation is applicable to. |
|  |  |
| ***Clauses affected:*** | 3.1, 3.2 |
|  |  |
|  | **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\*\*\*\*

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**direct device connection:** See definition in 3GPP TS 22.261 [2].

**direct network connection:** See definition in 3GPP TS 22.261 [2].

**Guest PIN Element:** Is a PIN Element that is a member of one PIN (Home PIN) and can access any other PIN, if allowed to by that PIN to communicate with the Home PIN.

**IoT device:** See definition in 3GPP TS 22.261 [2].

**PIN direct connection:** the connection between two PIN Elements without any 3GPP RAN or core network entity in the middle.

NOTE 1: A PIN direct connection could internally be relayed amongst other PIN Elements.

NOTE 2 When a PIN direct connection is between two PIN Elements that are UEs this direct connection is typically known as a direct device connection as defined in 3GPP TS 22.261 [2].

**PIN Element:** UEs, an IoT device, TE, MT, ME or “thing” (See sub clause 26a.1 3GPP TS 22.101 [3])authorised to communicate within a PIN.

**PIN Element with Gateway Capability (PEGC):** a UE PIN Element with the ability to provide (for other PIN Elements) or indirect Network connection (for other PIN Elements) to and from the 5G network.

NOTE 3: A PIN Element can have both PIN management capability and Gateway Capability.

Editor’s Note: The relationship with FS\_RESIDENT Evolved Residential Gateway will be resolved in the normative phase.

**PIN Element with Management Capability (PEMC):** A PIN Element with PIN management Capability has capability to manage the PIN.

**Personal IoT Network:** A configured and managed group of at least one UE and one or more PIN Elements or UEs that are (pre-)authorised to communicate with each other.

NOTE 4: The configuration and management of the PIN can be maintained locally or by the 3GPP network.

**PIN-User:** The PIN-User is the person who owns the PIN with respective subscriptions at one service provider.

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

PEGC PIN Element with Gateway Capability

PEMC PIN Element with Management Capability

PIN Personal IoT Network

UPnP Universal Plug and Play

DNLA Digital Living Network Alliance

\*\*\*\*END Changes\*\*\*\*