**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 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-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\*\*\*\*