**3GPP TSG-SA2 Meeting #154 AH-e *S2-2300426***

**EMEETING, 16th – 20th January, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **23.501** | **CR** | **3902** | **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 | **X** |

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| ***Title:***  | PIN and PIN session models |
|  |  |
| ***Source to WG:*** | vivo |
| ***Source to TSG:*** | SA2 |
|  |  |
| ***Work item code:*** | PIN |  | ***Date:*** | 2023-01-09 |
|  |  |  |  |  |
| ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | What is PIN and how non-PIN traffic is transferred are missing. |
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| ***Summary of change:*** | Add a new informative annex to describe PIN and PIN session models |
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| ***Consequences if not approved:*** | What is PIN and how non-PIN traffic is transferred are not clear. |
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| ***Clauses affected:*** | new annex X.y |
|  |  |
|  | **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:*** |  |

\* \* \* \* 1st change \* \* \* \*

Annex X (informative):
Personal IoT Networks

# X.y PIN and PIN session models

This clause describes the PIN and PIN session models.

A PIN is a virtual LAN with centralized control on traffic routing and traffic QoS supported by 5G system. The PEMC and an optional AF are the centralized control points, as well as the PEGCs and 5GC are the distributed excution points. The AF is a controller outside any PIN, which means the communication with the AF, including PIN control sigallings, is not enabled until the communication with the AF is configured. Following figure X.y-1 depicts an example of PIN:

 

Figure X.y-1: An example of PIN

After a PIN is created/pre-configured, there may be the case that not all PEGCs have connected PINE, or if AF used, the PIN may not incude PEMC.

A PEGC is able to serve more than one PINs, a PEMC is able to control more than one PINs, and different PIN may be controlled by different AF. Following figure X.y-2 depicts an example of relationship between PIN, PEGC, PEMC, and AF.



Figure X.y-2: An example of relationship between PIN, PEGC, PEMC and AF

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\* \* \* \* End of change \* \* \* \*