**3GPP TSG-WG SA2 Meeting #149E e-meeting *S2-220xxxx***

**Elbonia, February 14th – 25th, 2022 (revision of S2-220xxxx)**

**Source: vivo**

**Title: Scope of PIN study**

**Document for: Approval**

**Agenda Item: 9.16**

**Work Item / Release: FS\_PIN / Rel-18**

*Abstract: this paper proposes Scope of PIN study.*

# 1. Introduction

According to the SP-211643, the study on Personal IoT Networks, the work tasks for this study can be the scope of this study.

# 2. Text Proposal

It is proposed to capture the following changes vs. TR 23.700-88.

\* \* \* \* First change \* \* \* \*

1 Scope

This study is about how 5G System architecture can be enhanced to support Personal IoT Network (PIN) to fulfil the requirements captured in 3GPP TS 22.261. The following aspects needs to be studied:

* Architecture enhancement:
* To study the potential architectural enhancements for supporting management of PIN, access of PIN via PIN Element with Gateway Capability (PEGC), and communication of PIN (e.g. PIN Element communicates with other PIN Elements directly or via 5GS or via PEGC and 5GS).
* To study the potential architecture enhancements for supporting identifying PIN and the PIN Elements in the PIN.
* Security related:
* To study how to identify PIN and the PIN Elements in the PIN at 5GC level to serve for authentication/authorization.
* Management as well as policy and routing control enforcement:
* To study the management of a PIN, e.g., create PIN, authorizing/de-authorizing PIN Elements, authorizing/de-authorizing PIN Elements with Management Capability (PEMC), authorizing/de-authorizing PIN Elements with Gateway Capability (PEGC), establishing duration of the PIN, etc.
* To study the procedures for network discovery, PIN Element discovery, capability of PIN Element discovery, as well as availability and reachability discovery, e.g., assisted by a PIN Element with Management Capability (PEMC).

\* \* \* \* End of changes \* \* \* \*