3GPP TSG-SA WG1 Meeting #94e S1-211310

Electronic Meeting, 10 May- 20 May 2021 *(revision of S1-210xxx)*

**Title: Presentation of Specification/Report to TSG:  
TR 22.859, Version 1.1.0**

**Source: SA1**

**Document for: Approval**

**Abstract of document:**

The Technical Report provides specific use cases to provide service requirements for Personal IoT Networks (PINs). In the context of the TR a PIN can be a personal “wearables” network, a network in home / office that consists of e,g home automation devices, personal voice assistants, printers fax’s or combination of both wearable and home /office network. The characteristic of the elements (devices) of the PIN are that they are mostly owned and operated by an entity other than an MNO e.g. an individual and the elements can be constrained by physical characteristics e.g. size, weight, battery. Aspects looked at are how an individual can build a PIN especially in a challenging home environment, what is needed for the networks to work autonomously when there is no connectivity to the 5G MNO network and different needs when PC5 / sidelink / direct device connectivity is used for communications between the elements both in operator and non-operator licensed spectrum.

The identified requirements include mainly functional requirements related to constructing a PIN (onboarding) and communications between the PIN elements.

Potential new requirements are targeted at a TS 22.261.

**Changes since last presentation to TSG SA Meeting #91e:**

2 new use cases added (Smart Hospital beds, Operator Managed PIN).

Definitions cleaned up.

Number of use cases Potential Requirements (PR) added and or clarifications made.

Template for Consolidation of PRs agreed.

**Outstanding Issues:**

Clean up of TR (ensure terms consistently used etc).

Identification of any additional PRs in the 2 new use cases added in SA1#94e.

Consolidation of PRs.

**Contentious Issues:**

None