**3GPP TSG SA WG 1 Meeting #104 S1-23xxxx**

**Chicago, USA, 13 - 17 November 2023** *(revision of S1-23xxxx)*

**Source: ZTE, Deutsche Telekom AG, vivo**

**pCR Title: Pseudo-CR on 3.1 terms update**

**Draft Spec: 3GPP TS 22.137**

**Agenda item: x.x**

**Document for: Approval**

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*Abstract: This document is to update the definitions of some terms in TS 22.137.*

**1. Introduction**

This pCR is to update definitions of some terms.

**2. Reason for Change**

(1) The term of “**Sensing measurement process”** isn’t referenced in the TS. So, it is suggested to remove it.

1. The definition of “**Target sensing service area**” uses “wireless signal”, it is suggested to align with other terms i.e.”3GPP radio signal” .
2. The term of “**Moving target sensing service area”** isn’t referenced in the TS. So, it is suggested to remove it.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TS 22.137.

\* \* \* First Change \* \* \* \*

## 3.1 Terms

For the purposes of the present document, the terms 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].

**3GPP sensing data**: data derived from 3GPP radio signals impacted (e.g., reflected, refracted, diffracted) by an object or environment of interest for sensing purposes, and optionally processed within the 5G system.

**5G Wireless sensing:** 5GS feature providing capabilities to get information about characteristics of the environment and/or objects within the environment (e.g., shape, size, orientation, speed, location, distances or relative motion between objects, etc) using NR radio frequency signals, which, in some cases, can be extended by information created via previously specified functionalities in EPC and/or E-UTRAN.

**non-3GPP** **sensing data**: data provided by non-3GPP sensors (e.g., video, LiDAR, sonar) about an object or environment of interest for sensing purposes.

**Sensing assistance information:** information that is provided to the 5G system from a trusted third-party and can be used to support the derivation of a sensing result. This information does not contain 3GPP sensing data.

NOTE 1: Examples of sensing assistance information are map information, area information, a UE ID attached to or in the proximity of the sensing target, UE position information, UE velocity information etc**.**

**Sensing contextual information**: information that is exposed with the sensing results by 5G system to a trusted third-party which provides context to the conditions under which the sensing results were derived. This information does not contain 3GPP sensing data.

NOTE 2: Examples includes map information, area information, time of capture, UE location and ID. This contextual information can be required in scenarios where the sensing result is to be combined with data from other sources outside the 5GS.

**Sensing group**: a set of sensing transmitters and sensing receivers whose location is known and whose sensing data can be collected synchronously.

**Sensing receiver:** a sensing receiver is an entity that receives the sensing signal which the sensing service will use in its operation. A sensing receiver is part of a RAN node or a UE. A Sensing receiver can be located in the same or different entity as the Sensing transmitter.

**Sensing result**: processed 3GPP sensing data requested by a service consumer.

**Sensing signals:** Transmissions on the 3GPP radio interface that can be used for sensing purposes.

NOTE 3: This definition refers to NR radio frequency signals which, in some cases, can be extended by information created via previously specified functionalities in EPC and/or E-UTRAN.

**Sensing transmitter:** a sensing transmitter is the entity that sends out the sensing signal which the sensing service will use in its operation. A Sensing transmitter is part of a RAN node or a UE. A Sensing transmitter can be located in the same or different entity as the Sensing receiver.

**Target sensing service area**: a cartesian location area that needs to be sensed by deriving characteristics of the environment and/or objects within the environment with certain sensing service quality from the impacted (e.g., reflected, refracted, diffracted) 3GPP radio signals. This includes both indoor and outdoor environments.

\* \* \* End of Change \* \* \* \*