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

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

**Source: Deutsche Telekom AG**

**pCR Title: Removal of empty subsections**

**Draft Spec: 3GPP TS 22.157 v1.0.0**

**Agenda item: x.x**

**Document for: Approval**

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*Abstract: Some of the subsections are not being used and proposed to be deleted*

**1. Introduction**

Originally provided skeleton has proposed some subsections which currently do not have content and are proposed to be deleted.

**2. Reason for Change**

Clean-up of the TS to avoid empty subsections.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS / TR <TS/TR number and version>.

\* \* \* 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 measurement process**: process of collecting sensing data.

**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) wireless signals. This includes both indoor and outdoor environments.

**Moving target sensing service area:** the case where a target sensing service area is moving according to the mobility of a target from sensing transmitter’s perspective.

## 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].

<ABBREVIATION> <Expansion>

\* \* \* Next Change \* \* \* \*

Annex A (informative):  
Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 05.2023 | SA1#102 | S1-231311 |  |  |  | Initial Skeleton | 0.0.0 |
| 08.2023 | SA1#103 | S1-232428  S1-232441  S1-232443  S1-232444  S1-232445  S1-232470  S1-232471  S1-232472  S1-232475  S1-232476  S1-232642  S1-232659  S1-232660 |  |  |  | Output of approved pCRs from SA1 #103 | 0.1.0 |
| 09.2023 | SA#101 | SP-231014 |  |  |  | MCC Clean-up | 1.0.0 |

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