**SA WG2 Meeting #170 S2-2507432**

**25 – 29 Aug, 2025, Goteborg , SE**

**Source: Xiaomi**

**Title: update term “Sensing Entity”**

**Document for: Agreement**

**Agenda Item: 20.2.1**

**Work Item / Release: FS\_Sensing\_ARC/Rel-20**

*Abstract of the contribution: proposes to update the Term “Sensing Entity” in clause 3 of TR 23.700-14 aligned with latest SID (SP-250833).*

# 1. Discussion

In TSG#108, the scope of SA2 FS\_Sensing\_ARC was further aligned with Rel-20 5G-A RAN ISAC study scope, only supporting gNB based sensing. So, propose to update the term “Sensing Entity” in clause 1 of TR 23.700-14.

**Proposal 01: update the term “Sensing Entity” as following:**

**Sensing Entity**: The Sensing Entity referring to only gNB as a Sensing Transmitter or/and to a Sensing Receiver in this release.

In the key issue#4/5 and solutions#4/9, the terms “assistance information”, “sensing contextual information, or contextual information” are used, but with differences from the terms defined in SA1 in TS 22.137.

**Proposal 02: to add two terms “*Sensing assistance information*” and “*Sensing contextual information*” defined in SA1.**

**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.

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

# 3 Definitions of Terms and Abbreviations

## 3.1 Terms

For the purposes of the present document, the terms given in 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 TR 21.905 [1].

**The terms defined in TS 22.137 [2] apply to this study.**

**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 result**

**Target sensing service area**

**Sensing receiver**

**Sensing transmitter**

**gNB based Sensing: it indicates gNB acting as Sensing transmitter and Sensing Receiver for this release.**

**Sensing Service Consumer**: The entity that may consume the Sensing Result. The Sensing Service Consumer may also request the Sensing Result.

**Sensing Entity**: The Sensing Entity referring to ~~only gNB as~~ a Sensing Transmitter or~~/and~~ to a Sensing Receiver ~~in this release.~~

NOTE: in this release, the Sensing Entity is only referring to gNB.

**Sensing Function**: Indicating the logical function which is involved to support Sensing Service.

NOTE: The Sensing Function cannot be a Sensing Entity.

**Sensing Service:** Capability to collect and provide information about object and/or characteristics of the environment using radio signals.

Editor's note: The terminology will be further revised during the study work, if needed.

\*\*\*\* End of Changes \*\*\*\*