**3GPP TSG-CT WG4 Meeting #130C4-253412**

**Göteborg, Sweden; 25 - 29 August 2025 was3285**

**Source: China Mobile, Huawei**

**Title: Pseudo-CR on Scope reference definitions and overview update**

**Spec: 3GPP TS 29.506 v0.0.0**

**Agenda item: 19.70**

**Document for: Approval**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

The UDR may support the storage of Ambient IoT data as specified in clause 4.5.8 of 3GPP TS 23.369. The clause of introduction, scope, references, definitions and abbreviations, overview in TS 29.506 should be specified accordingly.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.506 v0.0.0.

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

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

# 1 Scope

The present document specifies the usage of the Unified Data Repository services for Ambient IoT Data. It provides the resource definition and data model for Ambient IoT data used over the Nudr Service Based Interface. The protocol definition for Nudr Service Based Interface which is specific to Ambient IoT data is also specified in the present document.

The 5G System stage 2 architecture and procedures are specified in TS 23.501 [2], TS 23.502 [3] and TS 23.369 [x].

The stage 3 protocol definition for Nudr Service Based Interface which is common for subscription data, policy data, structure data for exposure, application data and Ambient IoT data is specified in 3GPP TS 29.504 [y].

The Technical Realization of the Service Based Architecture and the Principles and Guidelines for Services Definition are specified in TS 29.500 [4] and TS 29.501 [5].

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

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[6] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

[7] 3GPP TR 21.900: "Technical Specification Group working methods".

[8] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

[9] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[10] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".

[11] IETF RFC 9113: "HTTP/2".

[12] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[13] IETF RFC 9457: "Problem Details for HTTP APIs".

[x] 3GPP TS 23.369: "Architecture support for Ambient power-enabled Internet of Things;Stage 2".

[y] 3GPP TS 29.504: "5G System; Unified Data Repository Services; Stage 3".

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

# 3 Definitions and abbreviations

## 3.1 Definitions

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

**AIoT Device:** An Ambient IoT device is an IoT device powered by energy harvesting, with limited energy storage capability.

## 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].

AIoT Ambient IoT

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

# 4 Overview

The resources, data model and usage defined in the present document are used by the 5GC NFs (e.g. UDM) to access the Ambient IoT data via the Unified Data Repository services specified in 3GPP TS 29.504 [y].

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