**3GPP SA WG2 Meeting #170S2-250xxxx**

**Goteborg, Sweden, 25 – 29 August 2025 (revision of S2-250xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **23.369** | **CR** | **xxxx** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Removal of EN for Device ID | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CATT | | | | | | | | | |
| ***Source to TSG:*** | SA2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AmbientIoT-ARC | | | | |  | ***Date:*** | | | 2025-08-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There is an EN left in clause 5.7.2:  Editor's note: The reference in NOTE 3 needs to be updated, when the appropriate stage 3 document is identified.  As the structure of AIoT Device Permanent Identifier has been defined in TS 23.003 clause 31.2, the above EN can be removed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Removal of Editor’s note for Device ID. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Editor’s note is unresolved. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.7.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

### 5.7.2 AIoT Device Permanent Identifier

In order to support the AIoT feature in 5G System, a globally unique AIoT Device Permanent Identifier shall be allocated to each AIoT Device. An AIoT Device Permanent Identifier is assigned either by an operator or by a third party. The AIoT Device Permanent Identifier is used to identify an AIoT Device and locate the entity where the AIoT Device related information is stored.

NOTE 1: How to configure an AIoT Device with the AIoT Device Permanent Identifier is out of scope of this specification.

The AIoT Device Permanent Identifier includes the following components:

- The ID Type, including:

- Information indicating whether a PLMN ID is included.

- Information indicating whether a NID is included.

- Information indicating whether a third party identifier is included.

- Identification Information Type, indicating whether the Identification Information contains an EPC or unstructured information.

- The Domain Information includes none, one or more of the following:

- A PLMN Identifier (i.e., MCC and MNC) as specified in TS 23.003 [6] when the information in the ID type indicates it is included

- A Network Identifier (NID) as specified in TS 23.003 [6] when the information in the ID type indicates it is included.

- A third party identifier used to identify a third party when the information in the ID type indicates it is included.

- The Identification Information is used to distinguish different AIoT Devices within the scope identified by Domain Information (if available) and can contain either:

- An EPC, as defined in clause 14 of GS1 TDS Release 2.1 [7].

- Unstructured information, where the contents is defined by the allocator.



Figure 5.7.2-1: AIoT Device Permanent Identifier Structure

An operator allocated AIoT Device Permanent Identifier should include the identifier of the network for the operator. The identifier of the network is present as either a PLMN Identifier, NID or both in the AIoT Device Permanent Identifier.

A third party allocated AIoT Device Permanent Identifier may include none of the following information or include any combination of at least one kind of the following information: a PLMN Identifier, NID or the third party identifier.

NOTE 3: The length of ID Type, PLMN Identifier (if present), NID (if present) and the third party identifier (if present) components is fixed. The length of the Identification Information is variable. The details are specified in TS 23.003 [6].

NOTE 4: When the Domain Information is empty, the AIOTF uses, e.g., Identification Information (i.e EPC) to discover and select the ADM instance or the external server for the AIoT Device Profile Data.

The following lengths are supported for the Identification Information in an AIoT Device Permanent Identifier: 96 bits, and 128 bits.

NOTE 5: The encoding for the length of the Identification Information enables additional shorter or longer fixed lengths to be supported in the future.

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