**3GPP TSG-WG SA2 Meeting #170 *S2-250xxxx***

**Goteborg, SE, 25th Aug – 29th Aug, 2025 (revision of S2-250xxxx)**

**Source: Huawei, HiSilicon**

**Title: WT1 KI Support of AIoT services in Topology 2**

**Document for: Approval**

**Agenda Item: 20.5.1**

**Work Item / Release: FS\_AmbientIoT\_Ph2\_ARC / Rel-20**

*Abstract: KI for WT1 on Support of AIoT services in Topology 2*

# 1. Introduction/Discussion

The following is the Key Issue relating to the following WT in Study on Architecture support of Ambient power-enabled Internet of Things - Phase 2:

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| --- |
| **WT#1: Study the support of AIoT services in Topology 2**, including:  - Study and investigate how to support AIoT services under the RRC-based option for UE Reader connectivity.  NOTE 3: Rel-19 TR solution and interim conclusion should be used as basis for rel-20 work. Solution submitted to rel-20 need to align with rel-19 TR interim conclusion. No rel-19 AIoT Device impact from this WT is expected. |

# 2. Text Proposal

It is proposed to capture the following changes vs. TR 23.700-30.

\* \* \* \* First change (all new) \* \* \* \*

## 5.X Key Issue #X: Support of AIoT services in Topology 2

TR 23.700-13 [x] provided interim conclusions for the support of topology 2 and this key issue will, based on those interim conclusions:

- Study and investigate how to support AIoT services under the RRC-based option for UE Reader connectivity, including:

- How the AIOTF determines which NG-RAN node to send NGAP AIOT Information to for the NG-RAN node to instruct a UE Reader, and the path to that NG-RAN node (i.e., the direct or indirect connectivity path for that NG-RAN node).

- Whether and how the AIOTF, AMF and/or NG-RAN determine which UE to use and, how to ensure that the UE is in CM\_CONNECTED to perform the requested operation.

- How to revoke authorisation of a UE to operate as a UE Reader, e.g., by the network or by AF request.

Any solution submitted needs to align with the Rel-19 interim conclusion in TR 23.700-13 [x] and will not have any Rel-19 AIoT Device impact.

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