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

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**Source: Ericsson**

**Title: Architectural Assumptions and Requirements**

**Document for: Approval**

**Agenda Item: 20.5.1**

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

*Abstract of the contribution: The contribution discusses and proposes the architecture assumptions and requirements.*

**1. Introduction**

The “New SID on Architecture support of Ambient power-enabled Internet of Things – Phase 2” (SP-250834) has been approved in SA#108.

In Rel-20, the topology 2 needs to be supported based on the solution framework in Rel-19 which covers topology 1 only. Also, based on such solution framework, DO-A capable AIoT devices also need to be supported.

In our view, we need to highlight the following items as architecture assumption and requirements for the Rel-20 Study:

* As a general requirement, the solutions need to follow 5G System architectural principles
* Rel-20 study should be based on the architecture specified for Rel-19.
* The enhance solutions should ensure that Rel-19 AIoT devices can operate independently.

**[Proposal-1]** Capture the aspects above as architecture assumptions and requirements.

**2. Proposal**

It is proposed to agree the following changes to 3GPP TR 23.700-30.

\* \* \* Start of Change \* \* \* \*

# 4 Architectural Assumptions and Requirements

The following architectural assumptions and requirements are applicable to this study:

- Solutions shall build on the 5G System architectural principles as in TS 23.501 [x], including flexibility and modularity for newly introduced functionalities.

- Architecture reference models defined in clause 4.2 of TS 23.369 [y] shall be used as the baseline architecture for this study.

- Enhanced Architecture and Solutions in this study shall ensure that Rel-19 AIoT devices can operate independently.

\* \* \* End of Change \* \* \* \*