3GPP TSG RAN #102
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Views on Ambient IoT

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Rel-19 Ambient IoT: Views

- Ambient IoT will provide access to new markets of the 3GPP ecosystem. It will support the market demand for emerging automation in various industry verticals.
- In Release 18, a RAN plenary-level study on Ambient IoT was concluded in September.
- Various considerations on the use case, topology, deployment scenario, and design target were captured in TR 38.848

Rel-19 Ambient IoT: Views

- In RAN#101, various agreements on the scope of the study, such as, the objective of the study and KPIs were made. But decision on certain topics is still pending.
- In RAN #102, the scope of the Working Group study on Ambient IoT is expected to be finalized.
- To define the scope of study for Ambient IoT, decisions on the following open topics is required:
  - Prioritization of device type,
  - Deployment scenarios, and
  - Mode of operation

Proposals

Proposal 1: Ambient IoT should be a Study Item (SI) in Release 19

- Based on the outcome of the study, it could be further decided whether to convert to the Work Item or continue the study.

Proposal 2: All the device types should be studied in the Rel-19 WG level study.

Proposal 3: For Release 19, a study on all of the following deployment scenarios should be considered:

- Deployment scenario 1 with Topology 1
- Deployment scenario 2 with Topology 1
- Deployment scenario 2 with Topology 2
- Deployment scenario 4 with Topology 1
- Deployment scenario 4 with Topology 3

- **Proposal 4:** Prioritize the FDD mode of operation for Device Type A/B and TDD/FDD mode of operation should be considered for device type C.

Thank You!