3GPP TSG RAN Meeting #102
Edinburgh, Scotland, December 11-15, 2023
Agenda Item: 9.1.1.4

RP-232768

Consideration on Rel-19 Ambient IoT

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Consideration on Rel-19 Ambient IoT(1/4)

❑ Issue 1: SI-only vs. SI+WI in Rel-19

- In terms of discussion in RAN#101 and the market urgency and the need for 3GPP to provide normative specifications for Ambient IoT in Rel-19, SI+WI mode for Ambient IoT topic in Rel-19 is better than SI-only for Ambient IoT topic in Rel-19
- **Proposal 1: Support SI+WI mode for Ambient IoT topic in Rel-19**

Consideration on Rel-19 Ambient IoT(2/4)

❑ Issue 2: Prioritization among Device type A/B/C

- In terms of discussion in RAN#101, Device type A/B/C are possible to be used in real scenarios. Due to Rel-19 TUs, we suggest supporting at least one of Device type A/B in Rel-19.
- **Proposal 2: Support at least one of Device type A/B in TR 38.848 for Ambient IoT in Rel-19.**

Consideration on Rel-19 Ambient IoT(3/4)

❑ Issue 3: Connectivity topologies and Deployment scenarios

- In terms of discussion in RAN#101, Topology 1 should be standardized with high priority because Topology 1 can be easily and simply deployed. Combining scenarios with topology, we suggest Deployment scenario 1/2/4 with Topology 1 should be considered with high priority in Rel-19
- **Proposal 3: Support at least one of deployment scenario 1/2/4 with Topology 1 in TR 38.848 for Ambient IoT SI and/or WI in Rel-19.**

Consideration on Rel-19 Ambient IoT(4/4)

❑ Issue 4: Type of spectrum

- In terms of discussion in RAN#101, we think both FDD/TDD should be considered because FDD can be used for rural scenario and TDD can be used for indoor/macro-urban scenario
- **Proposal 4: Support at least one of FDD/TDD for Ambient IoT in Rel-19.**

THANKS