

Agenda Item: 10.6.1

Type: Discussion

Document for: Discussion

Including NTN IoT Specification in Release 17 Will Benefit the 3GPP Eco-System



NTN-IoT in Release 17 Must Happen

- Increased global demand for IoT services in verticals and consumer markets across urban, suburban and rural markets especially in light of the Pandemic ([Five IoT Predictions for 2021 – IoT Times](https://iot.eetimes.com/five-iot-predictions-for-2021) <https://iot.eetimes.com/five-iot-predictions-for-2021>)
- Widely available IoT solutions will be key to meeting these demands. This will require terrestrial, non-terrestrial (i.e., satellite) and hybrid systems.
- If 3GPP standards are not available on a timely basis for non-terrestrial networks then cost-effective solutions that enable hybrid solutions will be delayed. This will result in a slower roll out hampering IoT adoption.

The Benefits of Including NTN-IoT in Rel-17

- Extend and complement terrestrial networks in bringing connectivity to unserved and underserved areas.
- Meet demand for IoT applications with regional and global coverage.
- Mutual benefit to mobile, fixed wireless and satellite ecosystems by allowing the development of cost-effective hybrid solutions including equipment and services.
- Accelerate demand for variety of satellite IoT applications made possible by standardized solution.

Goal: NTN-IoT normative work in Rel-17

- TSG RAN to consider early specification of NTN-IoT in Rel-17 that will enable satellite operators to offer services to meet immediate market demand.
- Delaying to Rel-18 will postpone deployment timeline by years and diminish potential market opportunities for the standardized IoT eco-system.