

WRC-23 activities ITU-APT Foundation

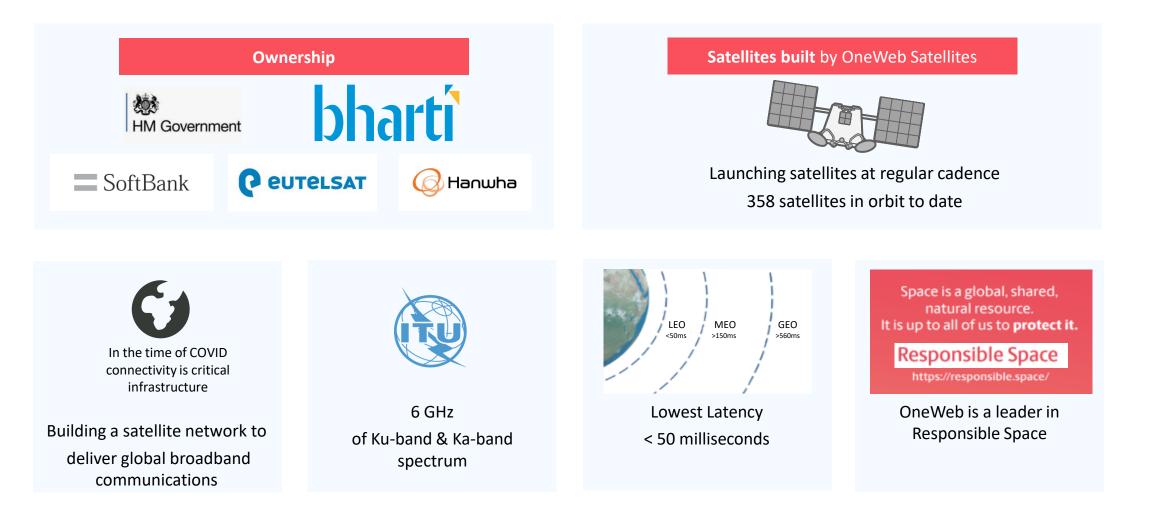
Oct 21st 2021

We are building a truly global communications network in space that will deliver low latency, high-speed internet services that connect everywhere & everyone.





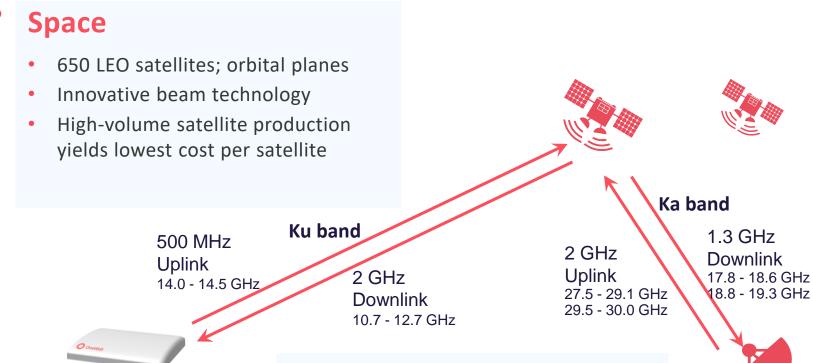
OneWeb at glance - A new story of global connectivity



User Terminal

30cm 65cm UT

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Spectrum

2.5 GHz of Ku band for Terminals

3.3 GHz of Ka band for Gateways

How it Works

OneWeb

without position aiming Operations Centers in London and Virginia

Many can be easily installed

40+ Gateways across the globe

A range of UTs to meet varying

Ground

markets

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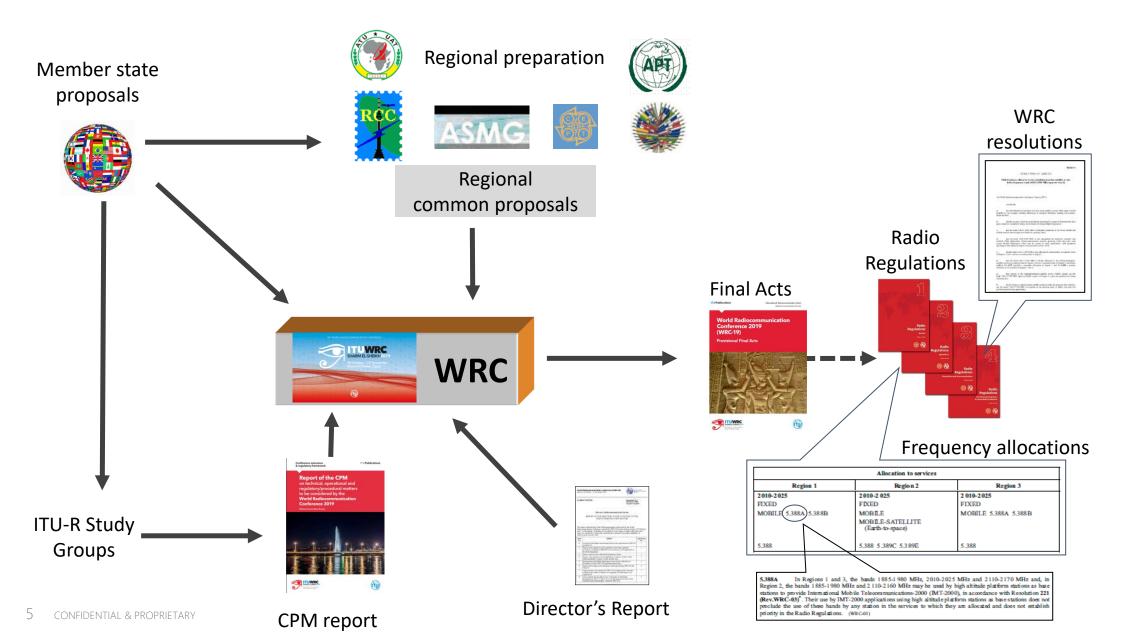
Gateway

3.4m Antenna

4

WRC Process





Agenda Item 7 Improvements to satellite procedures – Res. 86 (WRC-07)



Background

This is a standing Agenda Item. The following items have been identified to study:

- A. Tolerances for certain orbital characteristics of NGSO space stations in the FSS, MSS and BSS (notified vs actual).
- B. NGSO post-milestone procedure.
- C. Protection of GSO networks in the MSS in 7/8 and 20/30 GHz from NGSO.
- D. Modifications to Appendix 1 to Annex 4 of Appendix 30B
- E. Improved procedures under RR Appendix 30B for new ITU Member States
- F. Excluding uplink service areas in AP30A (Regions 1& 3) and AP30B bands

General position

Improvements to international regulatory procedures enable efficiency for notifying administrations of satellite networks and systems to increase transparency and ease regulatory burden, administration would support studies on the above issues at this point of the WRC process

Topic A, Tolerances for Certain Orbital Characteristics of Non-GSO Space Stations in the FSS, BSS and MSS

Background

 WRC-19 invited the ITU-R to study "as a matter of urgency, tolerances for certain orbital characteristics of non-GSO space stations of the fixed-satellite, mobile-satellite or broadcasting satellite services to account for potential differences between the notified and deployed orbital characteristics for

i) the inclination of the orbital plane,

ii) the altitude of the apogee of the space station,

iii) the altitude of the perigee of the space station and

iv) the argument of the perigee of the orbital plane."

APG23-2 Preliminary View

APT Members support the ongoing activities that are carried out by ITU-R WP 4A regarding Topic A namely the development of the definition
of tolerances of non-geostationary-satellite orbit (non-GSO) space stations in the FSS, BSS and MSS, as well as appropriate regulatory
consequences for operations beyond the specified allowable tolerances.

Proposed India Preliminary View for APG23-3

 Non-GSO space stations tolerances should take account for potential differences between the notified and deployed orbital characteristics, including recognizing the need for some separation between orbital planes of a given NGSO system to minimize the possibility of collisions.



Topic B, Post-milestone reporting procedure for non-GSO systems

Background

- WRC-19 discussed at length and ultimately agreed on Resolution **35 (WRC-19)**, "A milestone-based approach for the implementation of frequency assignments to space stations in a non-geostationary-satellite system in specific frequency bands and services.".
- Resolves 19 of Resolution **35 (WRC-19)** requires administrations to inform the BR, for information purposes only, of the date when the number of capable satellites deployed falls below a specified threshold.
- This topic B is to study the possible development of a post-milestone procedure, to address the case where a non-GSO system has completed the milestone process and subsequently experiences a reduction in the number of satellites deployed, taking into account *resolves* 19 of Resolution 35 (WRC-19).

APG23-2 Preliminary View

• APT Members support the ongoing activities that are carried out by ITU-R WP 4A regarding Topic B namely the development of the postmilestone procedures for NGSO satellite systems in FSS, BSS and MSS.

Proposed India Preliminary View for APG23-3

- Post-milestone procedures for NGSO to be finalized by the WRC-23 should take into account resolves 19 of Resolution 35 (WRC-19)
- Necessary operational flexibility for the maintenance of the non-GSO system should be duly considered



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Global Connectivity Coming Soon

#OneWebOneWorld