





How NTN will enable D2D and Transform Connectivity for IoT, Smartphones and Beyond

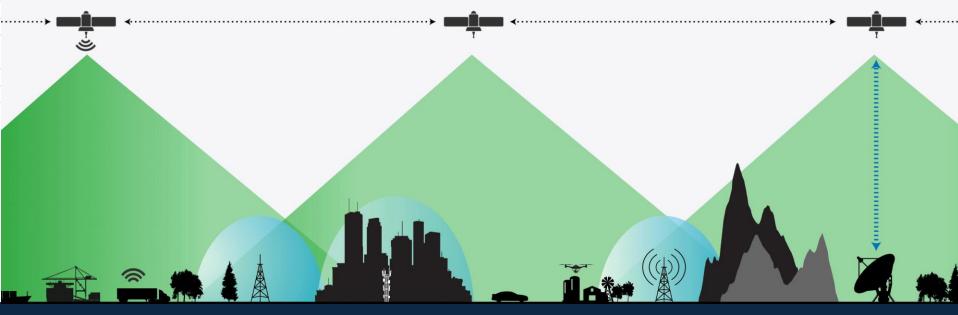
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December 5, 2024



NTN enables Ubiquitous Mobile, Global Connectivity



Hybrid architecture combines global NGSO coverage and mobile network roaming

Terrestrial Network Operations

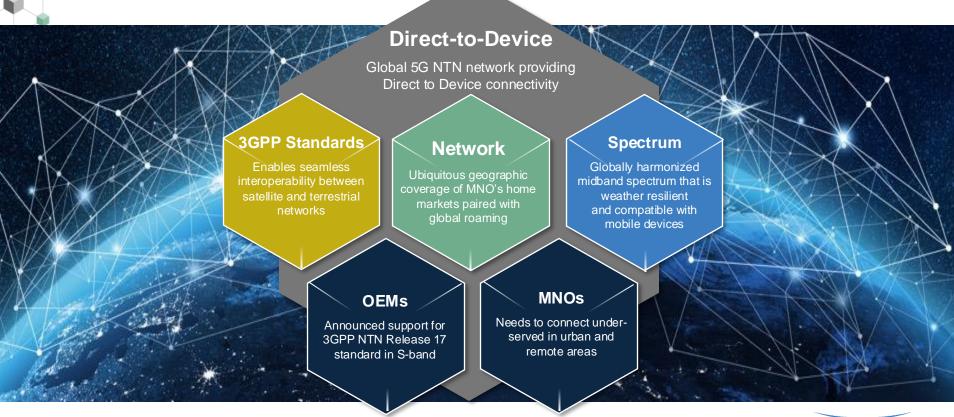
When the device is in the MNO's terrestrial coverage area it will connect to the MNO's Network

Satellite Network Operations

If the device is outside MNO coverage or roaming outside of the "home network" it will connect through the satellite network



Enabling Direct-to-Device



Expansive Array of D2D and IoT Applications



omnispace



Market Opportunities Beyond Imagination

Agriculture



- Precision farming
- Irrigation management

Mobile Roaming



- Mobile voice and data
- Mobile internet

Connected Car



- Vehicle telematics
- Software updates

Aeronautical



- Unmanned systems
- Business jets

Public Safety

- SAR coordination
- Asset management

National Security



- Mobile voice & data
- Platform IoT / M2M

Energy



- Pipeline management
- Energy management

Transportation



- Fleet management
- Asset tracking

Maritime



- Vessel telematics
- Fisheries

Disaster Relief



- Resilient comms
- Internet and voice





Omnispace Global NTN Solution – Redefining Mobile Connectivity

A partner for your NTN solution

- Hybrid is the path-forward for D2D & D2C Solutions
- Omnispace is driving global 5G NTN innovation by uniting cutting-edge wireless technology with its' satellite network through key industry collaborations





Omnispace Profile



Satellites & Technology

- Owner of LEO and MEO satellite infrastructure, providing significant cost/time advantage
- Providing global intermittent coverage, including polar regions
- Four operational Gateways: Australia, Dubai, Chile & U.S.
- Conducted D2D technological POCs to deploy 5G NTN networks



Market Access

- Harmonized global spectrum for MSS and CGC (Complementary Ground Component)
- Utilizes 2 GHz S-Band spectrum aligned with 3GPP Band N256
- Registered with the ITU for NGSO operations

Strategic Partnerships



- Ongoing engagement with major smartphone, chipset, and automotive OEMs
- Partnership agreement with Intelsat for satellite network operations and distribution
- Collaboration agreements with various mobile operators in key global markets
- Partnering with key MSS, MNO, and ecosystem players
- MSSA Founding Member: association focused on the emerging D2D and IoT ecosystems



Mobile Satellite Services Association (MSSA)

Converges Technology Standards and Mobile Space Spectrum to Enable New Platforms / Services



- Mobile Satellite Services Association (MSSA) was founded in 2024 by Viasat, Ligado, Omnispace, TerreStar, and Space42 (Yahsat)
- The MSSA will help to create opportunities to scale NTN systems via open, standards-based solutions for D2D and IoT.
- MSSA plans to align with 3GPP terrestrial standards to incorporate non-terrestrial networks (NTN) coverage over satellite and to advance D2D ecosystem to deliver scalable global connectivity
- Ecosystem companies will be joining the association to support the development of standards and drive the use of global S-/L-band MSS spectrum



MSSA Members and Partners





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Thank you

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