

5th NTN Workshop: Towards a unified TN-NTN system

November 6, 2025

Organizers: Maria Guta (ESA), Adam Kapovits (Eurescom GmbH), Dr.-Ing. Marius Corici (Fraunhofer FOKUS)

Program

08:30-09:00	Registration
09:00-09:30	Welcome and Introduction - Welcome message from the organizers - Maria Guta, ESA: NTN from 5G Advanced to 6G: technology pathfinders - Marielies Becker, Berlin Partner für Wirtschaft und Technologie GmbH: Berlin Launches Innovation – Satellites for a Connected World
09:30-10:45	Use Cases and Operators - Matthias Britsch, Deutsche Telekom: TN-NTN Integration for Consumer Services from Operator Perspective - Dr. Joel Grotz, SES Engineering: Challenges of 5G-NR NTN implementations - Dr. Frank Hofmann, Robert Bosch GmbH: Driving the Future: NTN Use Cases in Automotive Connectivity - Dr. Florian Zeiger, Siemens AG: Converging TN-NTN Systems for Industrial Services - Andreas Nil, MediaMobil Communication GmbH: TN-NTN Unified Broadband Connectivity: Will Satellite Networks Enable 3GPP NTN Services?
10:45-11:00	Demos and Coffee Break
11:00-12:30	Next Steps in NTN-TN Convergence - Dorin Panaitopol, Thales SIX GTS France: 5G NTN RAN evolution towards 6G – Status and Perspectives - Heikki Kokkinen, VTT: 5G NTN NR and spectrum sharing mechanisms with a regulatory touch - Stefan Draškoci, Aalyria: TN-NTN API, a Federation based architecture for interworking and coordination between TN & NTN segments - Thomas Heyn, Fraunhofer IIS: Towards 6G-NTN – Testing, Deployments and Standards - Cyril Michel, Ericsson: TN-NTN Integration & Interoperability: a sectorial approach - Radu Lupoaie, Keysight Technologies: One Network, All the Time: Ensuring Performance in a Converged TN-NTN Ecosystem - Dr. Maximilian Stark, NXP Semiconductors GmbH: Towards Software-Defined Connectivity for Smart and Flexible 3D Networks
12:30-13:00	Panel hosted by Adam Kapovits, Eurescom GmbH: 6G NTN collaboration opportunities between the EU and the Indo-Pacific

13:00-14:00	Demos and Lunch Break
14:00-15:30	Testbeds and Experimentation in TN-NTN • Sebastian Eiser, Airbus SE: All optical space backhauling: How HydRON interfaces with users in space and on ground • Dr. Vincenzo Schena, Thales SIX GTS France: 5G NTN Implementation: First step to go towards Integrated Space Network Systems for Future Connectivity • Florian Völk, Universität der Bundeswehr München: Overcoming the Challenges of 5G-NTN Experimentation in Low Earth Orbit • Prof. Dr.-Ing. Matthias Geissler, IMST GmbH: Antenna concepts for TN-NTN automotive connectivity • Prof. Dr. Rob Maunder, AccelerComm Ltd: Satellite architecture choices for Hybrid TN-NTN networks • Dr. Piotr Gawłowicz, Software Radio Systems: Developing NTN in srsRAN • Timo Kellermann, i2cat: Service provisioning to delay-tolerant IoT applications, enabled by flexible payloads and information semantics
15:30-15:45	Demos and Coffee Break
15:45-17:00	Long-term TN-NTN research perspective • Dr. Tomaso de Cola, DLR: 5G-STARDUST: the Role of AI to Boost NTN to Next Level • Prof. Dr.-Ing. Armin Dekorsy, Universität Bremen: Advancing 3D-Networks through Machine Learning • Prof. Dr. Michael Fitch, University of Surrey: UE, gNB and Core Network support of NTN • Ashweeni Beeharee, Satellite Applications Catapult: Solving the end-to-end equation towards unification • Prof. Dr. Alessandro Guidotti, University of Bologna: Challenges and Innovations for future 6G NTN