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: Presentation title to be confirmed • Dr. Frank Hofmann, Robert Bosch GmbH: Driving the Future: NTN Use Cases in Automotive Connectivity • 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 Communications & Security: 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 • Ericsson: Presentation title to be confirmed • 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. Vicenzo Schena, Thales Alenia Space: 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** • Tomaso de Cola, DLR: 5G-STARDUST: the Role of AI to Boost NTN to Next Level • Prof. Dr.-Ing. Armin Dekorsky, 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