

THE ROLE OF SATELLITES AND NTN IN SHAPING FUTURE CONNECTIVITY

29 April 2025

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INVITATION

The Role of Satellites and NTN (Non-Terrestrial Networks) in Shaping Future Connectivity

Rohde & Schwarz is partnering with the Singapore University of Technology and Design (SUTD) to host an upcoming event that will spotlight satellite testing and the advancements in Non-Terrestrial Networks (NTN) as we move towards the future of connectivity in 6G.

Key topics will cover **the future of space technology and its motivation, the transformative journey from 5G to 6G where it enables NTN to evolve and other trailblazing innovations: Intelligent Communication and Sensing (ICAS), Reconfigurable Intelligent Surfaces (RIS), Terahertz (THz) communication and Digital Intermediate Frequency Interoperability (DIFI).**

Innovations and challenges of NTN and the Multi-functional Satellite service will also be discussed. Industry leaders and government agencies are invited to come together to address challenges and opportunities in harnessing these technologies for enhanced communication infrastructure.

This event aims to drive forward-thinking strategies and partnerships that will shape the future connectivity.

Join us, by clicking the "Register here" button below. Seats are limited.

If you need more information, feel free to drop us an email at jerlin.lee@rohde-schwarz.com.

[Register here](#)

We look forward to seeing you at the event.

Best regards,
Your Rohde & Schwarz team

Date & Venue

Date:

29th April 2025, Tuesday

Time:

9:00am – 5:00pm

Location:

Singapore University of
Technology Design (SUTD)
Building 1, Level 3
Lecture Theatre 2
8 Somapah Road,
Singapore 487372

Registration deadline:

23rd April 2025

Seminar is free of charge
with lunch provided



Scan here to register

Topics

- ▶ Global motivation and insights of Space Technology including NewSpace Constellations
 - ▶ 5G-Advanced Trailblazing towards 6G and its key major research areas: ICAS, RIS, THz, FR3 and more
 - ▶ Innovations and Challenges in NTN, Multi-functional satellite deployments and DIFI
 - ▶ Keynote address by industry: Maritime and Port Authority of Singapore (MPA) and MediaTek
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Keynote Speakers



Mr. Dennis Khoo

Chief Technology Officer / Director (Maritime Systems and Technology)
Maritime and Port Authority of Singapore (MPA)

Mr Khoo joined the Maritime and Port Authority of Singapore in November 2019 and is currently MPA's Chief Technology Officer and Director (Maritime Systems and Technology). He drives ops-tech integration across MPA to deliver and sustain engineering solutions in domains such as command & control, communications, sensors & autonomy. He currently serves as the Vice-Chair of the Digital Technologies Committee (DTEC) of the International Organization for Marine Aids to Navigation (IALA).

Prior to joining MPA, Mr Khoo worked at the Defence Science and Technology Agency for more than 15 years. His speciality is in military communications and has experience in systems architecting, master planning, capability development, project management and programme delivery work in various capacities for key customers in the Airforce, Army, Joint and the Ministry of Defence. He also did concurrent stints at Cap Vista Pte Ltd and the Ministry of Home Affairs.

Mr Khoo obtained a Master of Engineering (Electronics, Telecommunications and Signal Processing) degree from the École Spéciale de Mécanique et d'Électricité, France in 2002.



Dr. I-Kang Fu

Senior Director of Advanced Communication Technology Division
MediaTek

Dr. I-Kang Fu is the Senior Director of Technology in MediaTek's Advanced Communication Technology Division. He leads the teams that contribute to research, prototypes, and standardization projects for next-generation mobile technologies, while also supporting product planning/marketing, and strategic partnerships.

He recently spearheaded MediaTek's research and development efforts in NTN satellite communications, leading the project from concept to PoC prototype, and engineering feasibility for commercial evaluation. This work culminated in the 3GPP Release-17 standardization of NTN technology, where MediaTek became the project lead in 3GPP and the first to commercialize IoT NTN product and remains at the forefront of NR NTN developments.

Dr. Fu's expertise spans wireless technologies such as 4G WiMAX, 4G LTE, and 5G NR. He is currently overseeing MediaTek's commitment to 6G standardization, with commercialization expected in the 2030s.

Dr. Fu joined MediaTek in 2008 after earning his doctorate from National Chiao-Tung University, Taiwan.

R&S Speaker



Mr. Reiner Stuhlfauth

Technology Manager Wireless

Rohde & Schwarz

Reiner is a technology manager wireless from the Test & Measurement Division of Rohde & Schwarz in Munich. Before that, he worked as a trainer and has more than 20 years of experience in teaching and promoting mobile communication technologies in the background of cellular standards and non-cellular technologies. He is involved in several projects concerning 5G, 5G advanced, and 6G research activities.

Reiner has published several technical documents and webinars. He is one of the authors of the R&S technology book "5G New Radio – fundamentals, procedures, testing aspects". He holds an academic degree in engineering in telecommunications issued by the Technical University of Kaiserslautern.