

The Role of Satellites and NTN In Shaping Future Connectivity

# AGENDA

29 APRIL 2025

In partnership with



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Time	Program
9:00am	Registration + Networking
9:30am	Opening by Rohde & Schwarz - <i>Mr. Samuel Lur, General Manager</i>
9:45am	Welcome Address by Singapore University of Technology and Design (SUTD) - <i>Prof. Tony Quek, Head of Pillar (ISTD), Director (FCP), Cheng Tsang Man Chair Professor</i>
10:00am	Connecting the Globe: The Global Insights and Motivations of Space Technology - <i>Mr. Reiner Stuhlfauth, Technology Manager Wireless</i>
10:30am	Light refreshment + Networking
11:00am	5G Advanced Trailblazing towards 6G - <i>Mr. Reiner Stuhlfauth, Technology Manager Wireless</i>
11:45am	Keynote address by MediaTek: Migrating 5G Satellite Communications toward 6G - <i>Dr. I-Kang Fu, Senior Director of Technology</i>
12:30pm	Networking lunch + Exhibition
2:00pm	Navigating the Skies: Innovations & Challenges in NTN and Multi-functional Satellite Testing - <i>Mr. Reiner Stuhlfauth, Technology Manager Wireless</i>
3:30pm	Break
3:45pm	Keynote address by MPA: Use Cases of NTN Technology for Singapore Maritime Industry - <i>Mr. Dennis Khoo, Chief Technology Officer / Director (Maritime Systems and Technology)</i>
4:30pm	Q&A session
5:00pm	End of seminar

Program is subjected to changes without notice

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## Presenter details

## Presenter bios



**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 Technology

**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.



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**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.