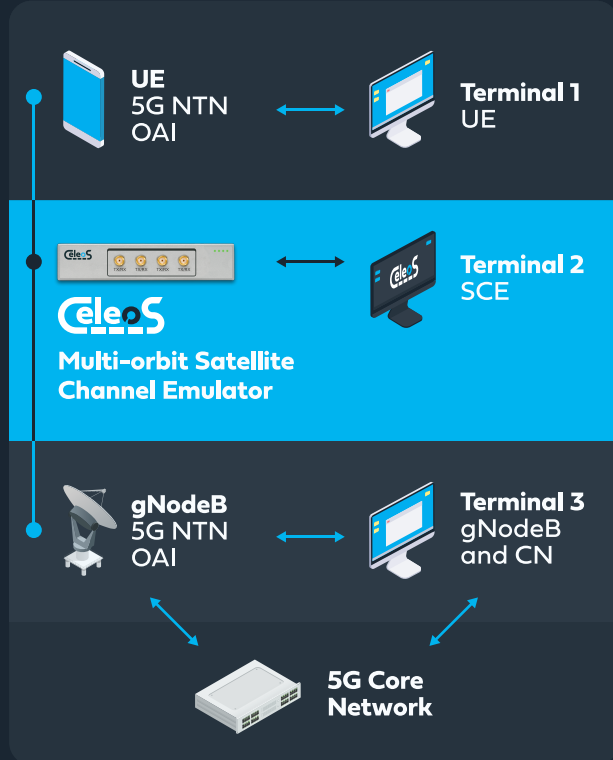




Multi-orbit satellite channel emulator

Demonstration using 5G NTN OAI

The Fraunhofer IIS is based in Erlangen, Germany. 5G-NTN is one of our focus areas to drive technology innovations together with industry. Fraunhofer IIS is contributing to the 5G standardization in 3GPP since 2015 and implements simulators and prototypes for early technology evaluations.



Video streaming via 5G NTN OAI through emulated satellite channel.



5G NTN OAI implementation



Software-defined 5G New Radio



Bidirectional transmission over GEO and LEO satellites

Driving 5G integration

Technology development, standardization and consulting

...

Analysis based on link and system level simulations

...

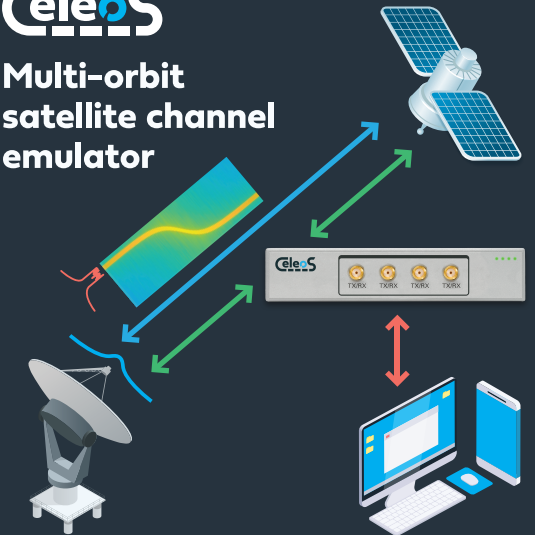
Early technology prototyping

...

Lab and over-the-air demonstrations



Multi-orbit satellite channel emulator



Specifications



150 Mhz Bandwidth



1 - 4 Channels



RF Satellite Link Emulation



Handover



TLE



Multi-platform User Interface



DIFI



SigMF

Capabilities



5G NTN



Internet of Things



Emergency services



SDR-based Technology



6G Ready

Why work with us



Affordability



Scalability



Flexibility



Lasting
software

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CeleoS

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