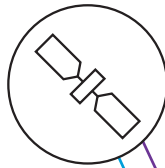


SAT5G DEMO

Content Server



SES
ASTRA 2F



About the SaT5G Demo: Satellite and Terrestrial Network for 5G: Demonstration of Satellite Integration in 5G

The demonstration presents the integration of an SDN / NFV / MEC-enabled pre-5G construction testbed, with an in-orbit geostationary satellite system. The demonstration will showcase satellite backhauling features and efficient edge delivery of multimedia content in pre-5G networks, which act as Proof-of-Concepts for integration of those features into a full 5G network.

SES will power the space segment of the demo with its existing ASTRA 2F geostationary satellite system connected to its teleport located in Betzdorf, Luxembourg. SES will provide end-to-end connectivity from the satellite to the terrestrial network, interconnecting the remote eNodeB to the University of Surrey testbed, with associated on-site installation, support and maintenance of the remote site.

MEC Platform

- Broadpeak SW
- mABR

Visualised Infrastructure (Satellite GW)

- NFV Computer Server
- NFV & SDN Controllers
- Intranet, Servers App, Web & Video



VPN

SES Teleport, Betzdorf

- Antenna
- HUB
- SAT RAN
- Set Core Network 3GPP

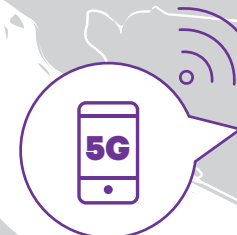
iDirect X7-EC Remote

- Antenna
- iDirect X7-EC Remote



MEC Platform

- mABR
- Broadpeak SW



Live
HLS/DASH

ABOUT SaT5G & SES NETWORKS

SaT5G

SaT5G is a European Commission H2020 5G PPP Phase 2 funded project, whose vision is to develop a cost effective “plug-and-play” satcom solution for 5G to enable telcos and network vendors to accelerate 5G deployment across all geographies and multiple use cases. Among other objectives,

the SaT5G project aims to demonstrate selected key 5G features and use cases across three main EU testbeds, currently under development, two of which involving geostationary (GEO) and nongeostationary (MEO) in-orbit satellites.

SES NETWORKS

An industry leader in cellular backhaul solutions, SES Networks leverages the industry’s only multi-orbit, multi-band satellite fleet and global terrestrial network to deliver highly flexible, end-to-end backhaul solutions.

As demonstrated by our contributions to SaT5G and the broader networking standards community, we are driving the satellite industry to become a future-proof, mainstream part of a global, cloud-scale network ecosystem.

Collaborating with our partners across the industry, we are delivering intelligent backhaul capacity and turnkey networking services required for a new generation of application-aware services, including the Mobile Edge Compute (MEC) services that will proliferate in the 5G era.

Looking to the future, we are making strategic investments in building a network optimised for the next generation of mobile services, providing MNOs with assurance that today’s backhaul solutions will evolve and scale with their business needs.

Learn more about SES Networks’ full portfolio of services and solutions.
Website: [ses.com/networks](https://www.ses.com/networks)

