



Contribution ID: 40

Type: **Talk**

# SatNOGS - Open source ground station network

*Monday, 24 September 2018 13:00 (20 minutes)*

An overview of the SatNOGS project, a network of satellite ground stations around the world, optimized for modularity, built from readily available and affordable tools and resources.

The trend of Low Earth Orbit (LEO) satellite launches continues and new countries and players join the space journey. SatNOGS provides a scalable and modular platform to track, receive telemetry, monitor and command & control these satellites. SatNOGS technology stack including hardware ground station designs (antennas, rotators, electronics), software for SDR-based communications, scheduling and observations, are developed as open source projects with hundreds of contributors from around the world.

Current operations support VHF and UHF bands, while also experimenting with higher bands like L, S and X. Furthermore SatNOGS provide an easy way to store, access and view increasingly received satellites data. (db.satnogs.org, more than 17 million packets so far)

SatNOGS continues to grow, develop and improve as an infrastructure allowing observers to take advantage of this networked ground segment and remotely operating SatNOGS ground stations around the world.

**Primary author:** DAMKALIS, Fredy (Libre Space Foundation)

**Presenter:** DAMKALIS, Fredy (Libre Space Foundation)

**Session Classification:** Talks

**Track Classification:** Ground Networks, Launchers, and Operations