SatNOGS

Release 0+untagged.66.g9989ff7.dirty

SatNOGS

Jan 13, 2023

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This is the development documentation for the SatNOGS project.

If you are looking for documentation on how to use SatNOGS or build a ground station, please visit our wiki.

CHAPTER

ONE

SATNOGS STATION ARCHITECTURE

1.1 Installed components

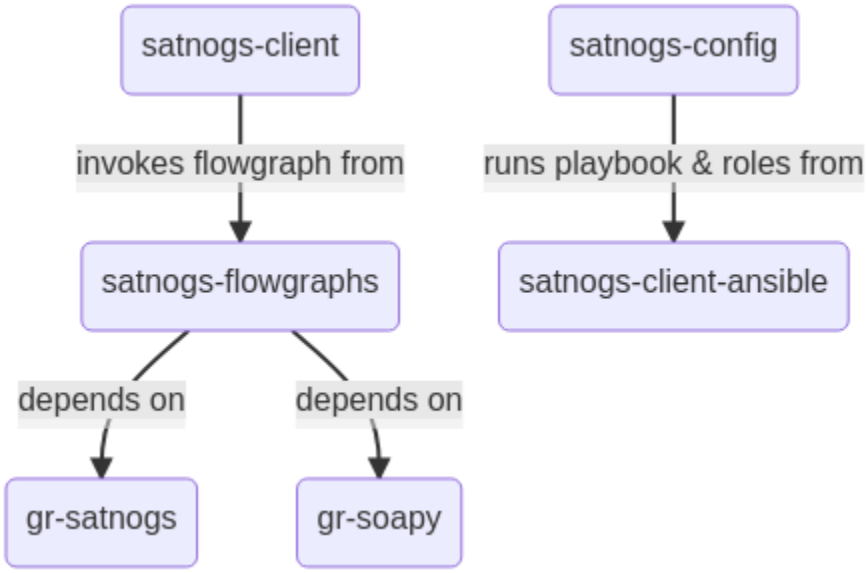

Fig. 1: SatNOGS Station Components Overview

- satnogs-flowgraphs: Provide the generic & satellites specific Gnuradio flowgraphs.
- gr-soapy: A GNURadio wrapper for the SoapySDR library.
- gr-satnogs: Gnuradio Out-Of-Tree Module with blocks required by satnogs-flowgraphs, e.g. a waterfall sink.
- satnogs-client-ansible: The ansible playbook & roles for setting up and configuring a SatNOGS Station.
- satnogs-config: SatNOGS client system configuration utility. Invokes roles from satnogs-client ansible for applying the actual setup & configuration.
- satnogs-client: Python Daemon which fetches jobs from SatNOGS network, controls rotators (via hamlib), invokes flowgraphs from satnogs-flowgraphs for reception and finally uploads the observation results to satnogs-network. Optionally also uploads "SatNOGS artifacts" to satnogs-db.

1.2 Related components

- satnogs-pi-gen: Tool used to create SatNOGS Raspbian images

CHAPTER

TWO

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