SatNOGS

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SatNOGS

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CONTENTS:

This is the development documentation for the SatNOGS project.

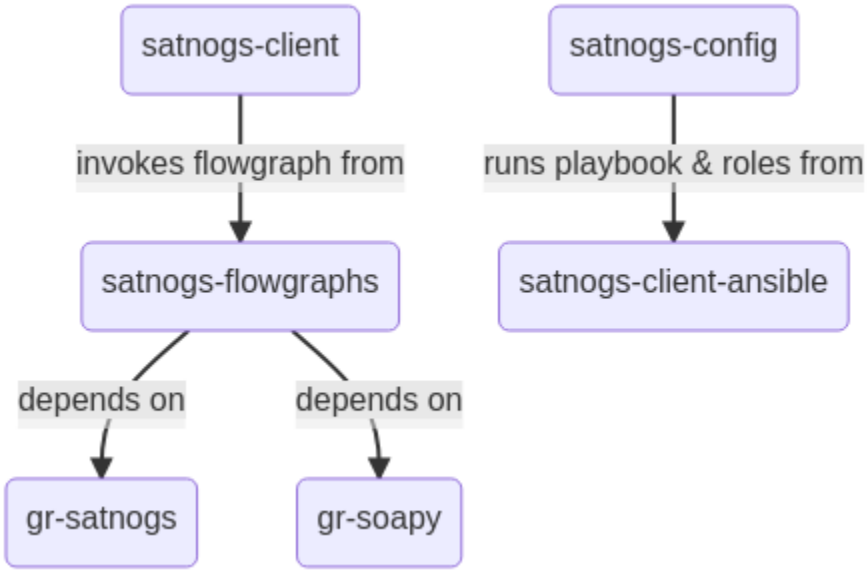
If you are looking for documentation on how to use SatNOGS or build a ground station, please visit the wiki.

CHAPTER

ONE

SATNOGS STATION ARCHITECTURE

1.1 Installed components



- satnogs-flowgraphs: Provide the generic & satellites specific GNU Radio flowgraphs.
- gr-soapy: A GNU Radio wrapper for the SoapySDR library.
- gr-satnogs: GNU Radio Out-Of-Tree Module with blocks required by satnogs-flowgraphs, for example 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

INDICES AND TABLES

- genindex
- search