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# loop-dhs Documentation

*Release unknown*

**Scott Classen**

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This is the documentation of **loop-dhs**.

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**Note:** This is the main page of your project’s [Sphinx](#) documentation. It is formatted in [reStructuredText](#). Add additional pages by creating `rst`-files in `docs` and adding them to the [toctree](#) below. Use then [references](#) in order to link them from this page, e.g. [Contributors](#) and [Changelog](#).

It is also possible to refer to the documentation of other Python packages with the [Python domain syntax](#). By default you can reference the documentation of [Sphinx](#), [Python](#), [NumPy](#), [SciPy](#), [matplotlib](#), [Pandas](#), [Scikit-Learn](#). You can add more by extending the `intersphinx_mapping` in your Sphinx’s `conf.py`.

The pretty useful extension [autodoc](#) is activated by default and lets you include documentation from docstrings. Docstrings can be written in [Google style](#) (recommended!), [NumPy style](#) and [classical style](#).

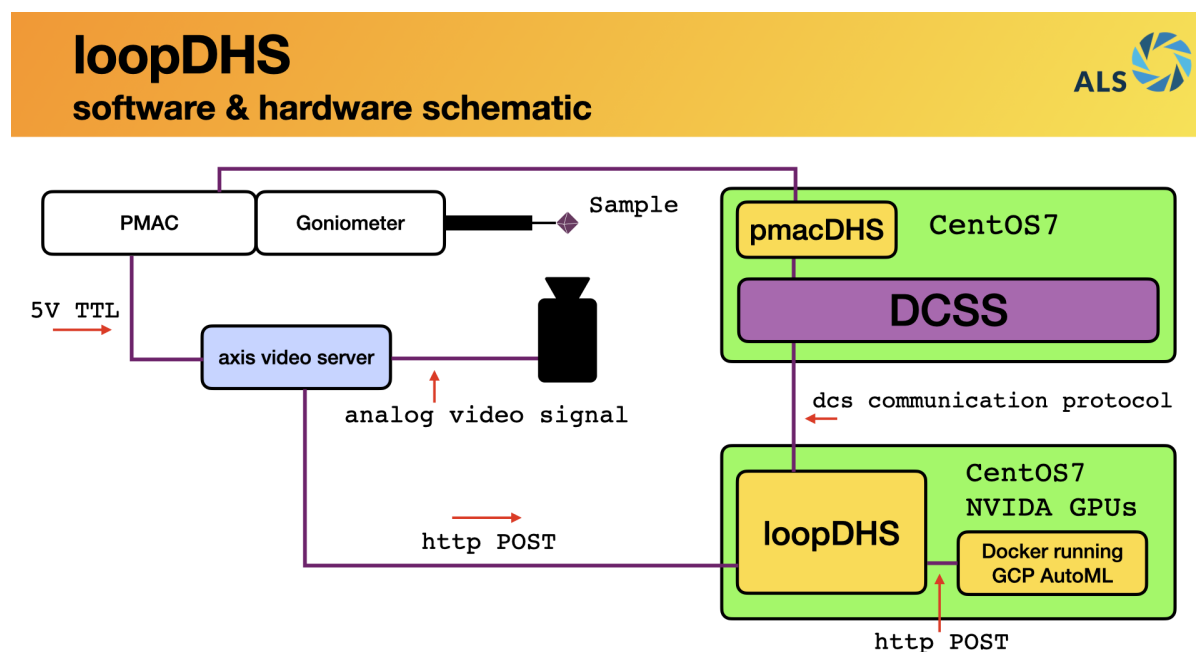
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### 1.1 Installation

loop-dhs is not a standalone software project. It is designed to work in conjunction with [DCSS](#) Control system, a properly configured [AXIS Video](#) server, and an edge-deployed Google [AutoML](#) inference model running on a local docker instance.



This shows a conceptual schematic of how the various pieces of hardware and software are configured at beamline 8.3.1 to support loopDHS.

### 1.1.1 Dependencies

- virtualenv
- python 3.8 (might work on 3-6-3.7, I haven't tested)
- pydhsfw

### 1.1.2 Install

Checkout the code from [GitHub](#):

```
$ git clone git@github.com:dsclassen/loop-dhs.git
$ cd loop-dhs
```

Setup and source a python virtualenv:

```
$ virtualenv -p python3.8 .env
$ source .env/bin/activate
$ pip install --upgrade pip
```

Install into local python environment:

```
$ pip install -e .
```

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**Note:** I have not yet figured out how to add pydhsfw to the install dependencies in setup.cfg. You need to install pydhsfw dependency manually for now.

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Install [pydhsfw](#) manually for now:

```
$ cd some_working_dir
$ git clone git@github.com:tetrahedron-technologies/pydhsfw.git
$ cd pydhsfw
$ pip install -e .
```

## 1.2 loop\_dhs

### 1.2.1 loop\_dhs package

#### Submodules

#### loop\_dhs.loopDHS module

#### Module contents

## 1.3 License

The MIT License (MIT)

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## 1.4 Contributors

- Scott Classen <[sclassen@lbl.gov](mailto:sclassen@lbl.gov)>

## 1.5 Changelog

### 1.5.1 Version 0.1

- Feature A added
- FIX: nasty bug #1729 fixed
- add your changes here!



## INDICES AND TABLES

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- `modindex`
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