

# **Padme dcs**

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# Goals and technology choice

#### Goals

Easy to manage the experiment assets

Configuration

Version control

Validity

Operation conditions monitoring

Single point operations management

"Easy" to write

Easy to add features

Adequate

## **Technologies**

Python3

Bottle (https://bottlepy.org)

SQL database and simple ORM

Vue.js (https://vuejs.org/)

#### **Deliverables**

Command module

Monitoring and logging of operational data

Web interface, alerts, emergency actions

# **Functionality detail**

#### Configuration management:

Default configuration/multiple versions

Device configuration/multiple versions

Device connections topology

#### Monitoring:

Heartbeats

Op conditions data collection and display

Monitoring of parameter deviations

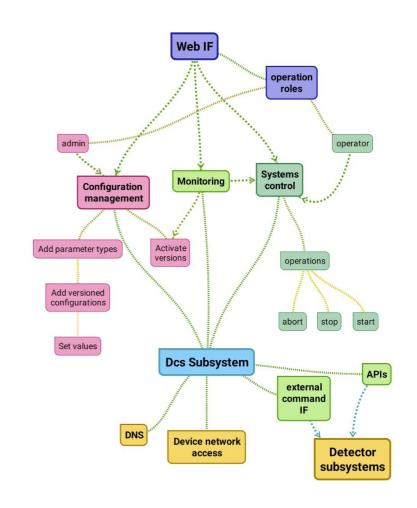
Logging and reaction

#### Systems control:

Interface with current text-based utilities or libraries

#### Access control:

Users and roles



## **Architecture overview**

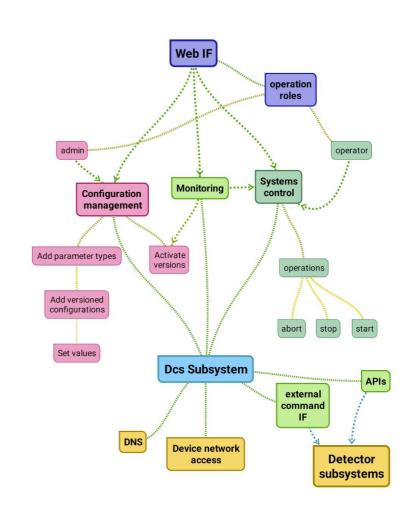
Web service - UI
Configuration store (database)
Operation parameters collection
Operation parameters monitor
Command system
Dependencies

Addressing schemes

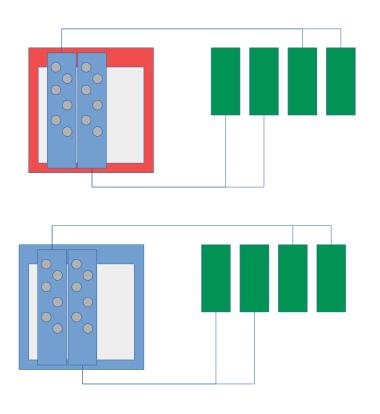
General

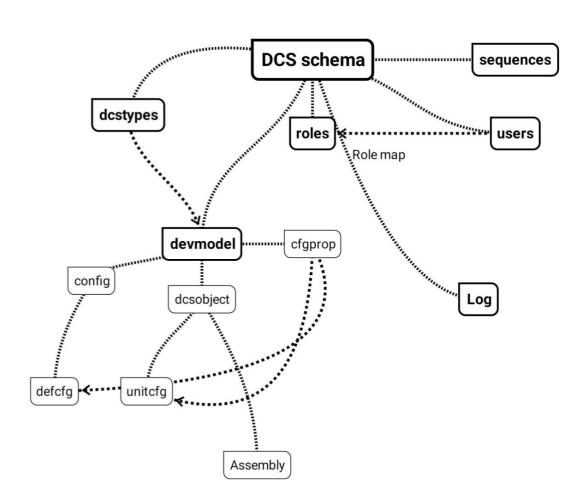
Network

Project APIs and utilities' interfaces



# Database: user mgmt, device topology and configuration





## Schedule

## How long?

Hopefully by next Friday

User management

Configuration system

Command backend

A prototype working with the SiPM detector controllers

Simple Monitor backend

A prototype working with the SiPM detector monitoring capability

Some documentation (how to add new command modules)

Complete system and Documentation

End of September?