

OpFlex

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Introduction

The OpFlex project seeks to provide reference implementations of the OpFlex protocol, which is a protocol for implementing a distributed control system based on a declarative policy model. In the OpFlex protocol, some number of policy elements locally enforce policy that is provided by a logically centralized policy repository. The protocol represents this policy as a tree of managed objects.

There are three main pieces that we currently provide:

- libopflex - a library for interacting with managed objects over the opflex protocol, resolving policy and subscribing to updates.
- genie - a code generation framework for converting a generic model into a model library suitable for use with libopflex
- agent-ovs - an policy agent that works with OVS to enforce a group-based policy networking model with locally attached virtual machines or containers. The policy agent is designed to work well with orchestration tools like OpenStack.

Documentation

User Guide

- [Installation Guide](#)

Developer Guide

- [Building and Running](#)
- [Opflex RFC:](#)

Other Documents

- [Project Proposal](#)
- [Release Plan - Helium](#)

Requirements

Project Facts

Project Creation Date: May 2, 2014

Lifecycle State: Incubation

Primary Contact: Tom Flynn
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Committers:

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- Rob Adams <readams@readams.net>
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Mailing List: opflex-dev@lists.opendaylight.org
Archives: [mailing list archives](#)

Meetings: See [Community Meetings](#)

Repository: git clone <https://git.opendaylight.org/gerrit/opflex>

Jenkins: [jenkins silo](#)

Gerrit Patches: [code patches /reviews](#)

Bugs:

- [open bugs](#)

Release Planning

Release Notes