

ODL-SDNi App

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Introduction

The OpenDaylight- SDN Interface Application project aims at enabling inter-SDN controller communication by developing SDNi (Software Defined Networking interface) as an application(ODL-SDNi App). The SDN application is deployable on OpenDaylight-Helium.

Project Facts

Project Creation Date: May 8th, 2014

Lifecycle State: Incubation

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Committers:

- Kiran Kotaru kotaru.kiran@tcs.com
- Shahid Shaik shahid.b@tcs.com
- Rafat Jahan rafat.jahan@tcs.com
- Sirisha Sangam sirisha.sangam@tcs.com
- Divya Charitha Kuppili kuppili.dcharitha@tcs.com

Mailing List: dev@lists.opendaylight.org

Archives: [mailing list archives](#)

Meetings: See [Community Meetings](#)

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

Jenkins: [jenkins silo](#)

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

Bugs:

- [open bugs](#)

Documentation

Getting Started with ODL-SDNi

We are still in development and have needs from developers to network guys or anywhere in between. All contributions from upstream code to docs and tutorials. Tutorials and getting started links will be added shortly.

High-Level Design

For High Level Design and Architecture please refer the project proposal page for more details.

- [Project Proposal](#)

Example Usage

ODL-SDNi App can be used for Bandwidth on demand across inter-SDN Federated Controllers

[blocked URL](#)

- In the multi-vendor environment, network traffic would need to be orchestrated across intra-/inter-domain subnets of the SDN controllers.
- The mandate is of a east-west communication that enables SDN controllers across subnets to exchange network information within the purview of defined policies
- Inter-SDN controller (multi-vendor) communication – exchange of network parameters needs to be per pre-agree interface specifications

Clone The ODL-SDNi repository

```
git clone https://git.opendaylight.org/gerrit/sdninterfaceapp.git
OR
git clone ssh://<username>@git.opendaylight.org:29418/sdninterfaceapp
```

People

- Rafat Jahan <rafat.jahan@tcs.com>
- Shahid Shaik<shahid.b@tcs.com>
- Sirisha Sangam<sirisha.sangam@tcs.com>
- Swetha Singadi<swetha.s8@tcs.com>

Issues

1. The ODL-SDNi App needs an SDNiWrapper which will have a BGP protocol implemented. The plan is to use the current BGP library being developed for an end to end session between multiple controllers.
2. Using this library to establish a session is being investigated upon.
3. Modification needs to be done on top of this library for data exchange.
4. End to End Testing will be on hold as long as the BGP session establishment is not figured out.

Technical Overview

Please refer to User and Developer guide.

- [User Guide](#)
- [Developer Guide](#)

Project Information

Check the user guide for each release.

Requirements

Release Planning

Release	Release Plan	Release Notes	Release Review	User Guide	Developer Guide	Feature Tests
Hydrogen	-	-	-	-	-	-
Helium	Release Plan	Release Notes	Release Review	User Guide	Developer Guide	-
Lithium	Release Plan	Release Notes	Release Review	User Guide	Developer Guide	-
Beryllium	Release Plan	Release Notes	Release Review	User Guide	Developer Guide	Feature Tests
Boron	Release Plan	-Release Notes	-Release Review	-User Guide	-Developer Guide	-Feature Tests

Release Notes