

# Neutron Northbound

## Welcome to Neutron Northbound

- [Welcome to Neutron Northbound](#)
- [Project Facts](#)
  - [Project Creation Date: 12 Feb 2015](#)
  - [Primary Contact: Achuth Maniyedath](#)
  - [Project Lead: Achuth Maniyedath](#)
  - [Committers:](#)
  - [Mailing List:](#)
  - [Meetings: See Community Meetings](#)
  - [Repository: <https://git.opendaylight.org/gerrit/admin/repos/neutron>](#)
  - [Jenkins: <https://jenkins.opendaylight.org/releng/view/neutron/>](#)
  - [OpenBugs: <https://jira.opendaylight.org/browse/NEUTRON-207?jql=project%20%3D%20neutron%20AND%20resolution%20%3D%20Unresolved%20>](#)
- [Introduction](#)
- [Documentation](#)
- [Release Planning](#)
- [Release Notes](#)

## Project Facts

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Project Lead: [Achuth Maniyedath](#)

Committers:

- [Achuth Maniyedath](#)

Mailing List:

Meetings: See [Community Meetings](#)

IRC: #opendaylight-neutron on freenode (Northbound meeting)

Repository: <https://git.opendaylight.org/gerrit/admin/repos/neutron>

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## Introduction

The neutron northbound project is focused on the communication from the ODL drivers in OpenStack to the ODL neutron service and saves the neutron models into ODL data store for other providers to use. It does not include direct manipulation of low-level network/overlay elements - these are left to the providers that receive information from this project

The goals of this project are

1. To allow the ODL neutron service to evolve in tandem with the evolution of Neutron APIs in OpenStack.
2. Maintain the transparency of the current communication between OpenStack and OpenDaylight.
3. Improve on the current method of passing neutron information to multiple providers.
4. Attract more developer involvement.

## Documentation

Getting Started for Developers

The project comprises of the following packages

- `odl-neutron-service` : This is a top level feature to load Neutron northbound functionality.
- `odl-neutron-northbound-spi` : Provides REST API for OpenStack Neutron

- odl-neutron-spi : Provides the SPI Neutron Northbound feature
- odl-neutron-transcriber : data converter from/to REST API to/from MD\_SAL YANG model
- odl-neutron-hostconfig-ovs : Helper library to support hostconfig for OpenStack service provider with Open vSwitch
- odl-neutron-hostconfig-vpp : Helper library to support hostconfig for OpenStack service provider with VPP
- odl-neutron-logger : Logger on activity on Neutron YANG models

Architecture

<https://docs.opendaylight.org/en/latest/developer-guide/neutron-service-developer-guide.html>

Adding new neutron API support

<https://docs.opendaylight.org/en/latest/developer-guide/neutron-northbound.html>

## Requirements

Related OpenStack resources

- <https://wiki.openstack.org/wiki/Neutron>
- <http://git.openstack.org/cgit/openstack/neutron>
- <https://docs.openstack.org/networking-odl/latest/>

## Release Planning

- [Aluminium Release plan](#)
- [Magnesium Release plan](#)
- [Oxygen Release plan](#)
- [Carbon Release plan](#)
- [Boron Release plan](#)
- [Beryllium Release plan](#)
- [Lithium Release plan](#)

## Release Notes

Previous release reference

- [Nitrogen Release Notes](#)
- [Carbon Release Notes](#)
- [Boron Release Notes](#)
- [Beryllium Release Notes](#)
- [Lithium Release Notes](#)