

# IPv6 Home

## IPv6-enabled OPNFV Project

Welcome to IPv6-enabled OPNFV Project page.

### Introduction

This IPv6-enabled OPNFV project is targeted to produce a meta distribution of IPv6-enabled OPNFV platform. This meta distribution intends to be an easy installable package with de-facto provisioning and configuration of IPv6 and dual-stack support, upon which test harness, additional components and functional blocks and/or tools that need IPv6 functionality can be built and integrated.

In addition, this project intends to analyze the gaps between additional IPv6 features needed by various use cases of industry and the existing IPv6 support in meta distribution, and to propose the ways moving forward to fill in the gaps.

The deliverables of this project include:

- An integrated package consisting of basic components from upstreams: OpenStack Juno, ODL Helium, KVM etc.
- Auto configuration script to automate the configuration and provisioning of IPv6 features (for those that can be automated)
- An Installation Guide and/or User Guide with step-by-step instructions of manual configuration of IPv6 features for those that cannot be automated
- Test cases adapted to IPv6 specific use cases
- Gap analysis and Recommendation for next steps

The lifecycle of the project is intended to maintain IPv6 capabilities of OPNFV during its entire life. The above deliverables may be achieved through various phases. The Phase 1 deliverables will be based on OpenStack Juno Release and Open Daylight Helium Release.

- [Project Proposal](#) approved on November 25, 2014
- [Meetings and Minutes](#)
- **Mailing list:** email the [general OPNFV Tech Discuss group](#) and tag the subject with the [ IPv6 ] prefix

### Key Project Facts

**INFO.yaml** (source from ipv6)

```

---
project: 'IPv6-enabled OPNFV Project (ipv6)'
project_creation_date: 'November 25, 2014'
project_category: 'Integration & Testing'
lifecycle_state: 'Mature'
project_lead: &opnfv_ipv6_ptl
  name: 'Bin Hu'
  email: 'bh526r@att.com'
  id: 'bh526r'
  company: 'att.com'
  timezone: 'UTC-08:00'
primary_contact: *opnfv_ipv6_ptl
issue_tracking:
  type: 'jira'
  url: 'https://jira.opnfv.org/projects/IPVSIX'
  key: 'IPVSIX'
mailing_list:
  type: 'mailman2'
  url: 'opnfv-tech-discuss@lists.opnfv.org'
  tag: '[ipv6]'
realtime_discussion:
  type: irc
  server: 'freenode.net'
  channel: '#opnfv-ipv6'
meetings:
- type: 'zoom+irc'
  agenda: 'https://wiki.opnfv.org/display/meetings/Ipv6'
  url: 'https://zoom.us/j/2362828999'
  server: 'freenode.net'
  channel: '#opnfv-meeting'
  repeats: 'biweekly'
  time: '16:00 UTC'
repositories:
- 'ipv6'
committers:
- <<: *opnfv_ipv6_ptl
tsc:
# yamllint disable rule:line-length
approval: ''
# yamllint enable rule:line-length

```

#### Contributors:

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#### Explore IPv6

- [IPv6 Project Roadmap](#)
- **Hunter Release**
  - [H Release Planning](#) - brainstorming scope and deliverables for Hunter Release
- **Gambia Release**
  - [G Release Planning](#) - brainstorming scope and deliverables for Gambia Release
- **Fraser Release**
  - [F Release Planning](#) - brainstorming scope and deliverables for Fraser Release
- **Euphrates Release**
  - [E Release Planning](#) - brainstorming scope and deliverables for Euphrates Release
- **Danube Release**
  - [D Release Planning](#) - collecting use cases for Danube Release
- **Colorado Release**
  - [C Release Planning](#) - collecting use cases for Colorado Release

- **Brahmaputra Release**
  - [Top Down Use Cases and Gap Analysis](#) - VIM-agnostic IPv6 Capability
  - [IPv6 Gap Analysis with Open Daylight](#)
  - [Bottom Up Exercise](#) - Exploring current IPv6 capability in OpenStack and Open Daylight
    - [PoC Design](#) - An architecture design of IPv6 Proof-of-Concept
- **Exploring OpenStack and OPNFV Releases**
  - [OpenStack IPv6](#) - An information sharing for exploring OpenStack IPv6
  - [Deploy Arno on a Single Laptop](#) - Arno Foreman install on CentOS7 laptop
  - [Basic Git Review 1-2-3](#) - examples from SFC Project. Replace repo name "sfc" with "ipv6" for our IPv6 project

## IPv6 Upstream Contributions

- [IPv6 Upstream Contributions in OpenStack](#)
- [IPv6 Upstream Contributions in Open Daylight](#)
- [Other IPv6 Upstream Contributions](#)

## Communication Channels

- **Mailing list:** email the [general OPNFV Tech Discuss group](#) and tag the subject with the [ IPv6 ] prefix
- **IRC channel of daily project communication:** #opnfv-ipv6 @ Freenode
  - [Web Chat](#); or
  - [IRC Cloud](#)
- **Etherpad:** <https://etherpad.opnfv.org/p/ipv6>
- **Meetings and Minutes:** public regular [meetings](#) take place over Zoom conferencing platforms.
  - Please click [Meetings](#) for scheduled meeting, agenda and minutes.
  - When: **Every Other Friday 8:00-9:00 Pacific Time (16:00-17:00 UTC when US Standard Time or 15:00-16:00 UTC when US Daylight Savings Time)**
  - To join Zoom Meeting:
    - Zoom Meeting: <https://zoom.us/j/2362828999>
    - You can also dial in using your phone:
      - United States (Long distance): +1-669-900-6833 or +1 646 558 8656
      - United States (Toll Free): +1-877-369-0926 or +1-855-880-1246
      - Meeting ID: 236 282 8999
      - International numbers available: <https://zoom.us/zoomconference?m=Xn-Kas4jq2GuyfbCCKYpwvi6FpHEYX8n>
  - More information about OPNFV Conferencing Bridge:
    - [Zoom Meeting info](#)

## Maintainers

- Names and affiliation of the maintainers:
  - Bin Hu (AT&T)
  - Sridhar Gaddam (RedHat)
  - Prakash Ramchandran (Huawei)

## Hunter Release Documentation

- [Draft Release Notes](#)
- [Draft Installation Procedure](#)
- [Draft Configuration Guide](#)
- [Draft User Guide/Gap Analysis](#)

## Gambia Release Documentation

- [Release Notes](#)
- [Installation Procedure](#)
- [Configuration Guide](#)
- [User Guide/Gap Analysis](#)

## Fraser Release Documentation

- [Release Notes](#)
- [Installation Procedure](#)
- [Configuration Guide](#)
- [User Guide/Gap Analysis](#)

## Euphrates Release Documentation

- [Release Notes](#)
- [Installation Procedure](#)
- [Configuration Guide](#)
- [User Guide/Gap Analysis](#)

## Danube Release Documentation

- [Release Notes](#)
- [Installation Procedure](#)
- [Configuration Guide](#)
- [User Guide/Gap Analysis](#)

## Colorado Release Documentation

- [Installation Procedure \(HTML\)](#)
- [Installation Procedure \(PDF\)](#)
- [Configuration Guide \(HTML\)](#)
- [Configuration Guide \(PDF\)](#)
- [User Guide/Gap Analysis \(HTML\)](#)
- [User Guide/Gap Analysis \(PDF\)](#)

## Brahmaputra Release Documentation

- [IPv6 Configuration Guide \(HTML\)](#)
- [IPv6 User Guide \(Gap Analysis\) \(HTML\)](#)

## Setting Up Service VM as IPv6 vRouter Documentation

- [Configuration Guide \(HTML\)](#)
- [Configuration Guide \(PDF\)](#)

## Gap Analysis Documentation

- [Gap Analysis \(HTML\)](#)
- [Gap Analysis \(PDF\)](#)

## Other Resources

- IPv6 presentation at 2016 OpenDaylight India Forum on November 16, 2016 in Bengaluru, India
  - [IPv6 Support in OpenDaylight](#)
- IPv6 presentation at 2016 OPNFV Summit on June 22, 2016 in Berlin, Germany
  - [Road to Multisite IPv6 – Scenarios, Challenges and Perspectives](#)
- IPv6 presentation at 2016 OpenStack Summit on April 28, 2016 in Austin, TX
  - [Using an Service VM as an IPv6 vRouter](#)
- IPv6 presentation at 2016 NFV World Congress on April 22, 2016 in San Jose, CA
  - [IPv6 in OPNFV](#)
- IPv6 presentations at 2016 Linux Foundation Collaboration Summit on March 30, 2016 in Squaw Creek, Olympic Valley, CA
  - [IPv6 – Service VM as a vRouter](#)
- IPv6 and PoC Trail Presentations at OPNFV Summit on November 9-12, 2015 in Burlingame, CA
  - [IPv6 - Setup of a Service VM as an IPv6 vRouter @ Design Summit](#) on November 10, 2015
  - [OPNFV PoC Overview @ OPNFV Summit](#) on November 11, 2015
  - [IPv6 - Service VM as a vRouter @ OPNFV Summit](#) on November 12, 2015
- OPNFV PoC Presentation at Open Networking Summit on June 15, 2015 in Santa Clara, CA
  - [A Multivendor, Interoperable NFV Solution](#)
- IPv6 presentations at 2015 OpenStack Summit on May 18, 2015 in Vancouver, Canada
  - [IPv6 Breakout Session](#) (Bin Hu, AT&T)
  - [IPv6 Fundamentals](#) (Jonne Soininen, Nokia)
  - [IPv6 VM for OPNFV vRouter](#) (Prakash Ramchandran, Huawei)
  - [IPv6 Infrastructure Support in OpenStack](#) (Sridhar Gaddam, RedHat)
- [IPv6-enabled OPNFV](#) presentation at OPNFV Meetup on February 19-20, 2015 in Santa Rosa, CA