# <project> Release Notes

***Release draft (f08c2d5)***

**OPNFV**

February 10, 2016

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CHAPTER

ONE

# OPNFV RELEASE NOTE FOR THE ARNO SR1 RELEASE OF OPNFV WHEN USING FUEL AS A DEPLOYMENT TOOL

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## 1.1 Abstract


This document compiles the release notes for the Arno SR1 release of OPNFV when using Fuel as a deployment tool.


## 1.2 License

<http://creativecommons.org/licenses/by/4.0/>.

## 1.3 Version history

| Date | Ver. | Author | Comment |
|---|---|---|---|
| 2015-06-03 | 1.0.0 | Jonas Bjurel | Arno SR0 release |
| 2015-09-28 | 1.1.3 | Jonas Bjurel | Arno SR1 release |

## 1.4 Important notes

For the first OPNFV release (Arno), these notes introduce use of *OpenStack Fuel <https://wiki.openstack.org/wiki/Fuel>* for the deployment stage of the OPNFV continuous integration (CI) pipeline. The goal of the Arno release and this Fuel-based deployment process is to establish a foundational platform accelerating further development of the OPNFV infrastructure.

Carefully follow the installation-instructions and pay special attention to the pre-deploy script that needs to be run before deployment is started.

## 1.5 Summary

For Arno SR1, the typical use of Fuel as an OpenStack installer is supplemented with OPNFV unique components such as OpenDaylight version Helium as well as OPNFV-unique configurations.

This Arno artefact provides Fuel as the deployment stage tool in the OPNFV CI pipeline including:

- Documentation built by Jenkins - this document (release notes) - installation instructions - build-instructions
- The Arno Fuel installer image (.iso) built by Jenkins
- Automated deployment of Arno with running on bare metal or a nested hypervisor environment (KVM)
- Automated validation of the Arno deployment

## 1.6 Release Data

| | |
|---|---|
| **Project** | genesis/bgs |
| **Repo/tag** | genesis/arno.2015.2.0 |
| **Release designation** | Arno Base Service release 1 (SR1) |
| **Release date** | 2015-10-01 |
| **Purpose of the delivery** | OPNFV Arno Base SR1 release |

### 1.6.1 Version change

#### Module version changes

This is the second tracked release of genesis/fuel. It is based on following upstream versions:

- Fuel 6.1.0
- OpenStack Juno release

- OpenDaylight Litium release

#### Document version changes

This is the second tracked version of the fuel installer for OPNFV. It comes with the following documentation:

- OPNFV Installation instructions for Arno with Fuel as deployment tool
- OPNFV Release Notes for Arno use of Fuel as deployment tool
- OPNFV Build instructions for Arno with Fuel as deployment tool

### 1.6.2 Reason for version

#### Feature additions

| JIRA REFERENCE | SLOGAN |
|---|---|
| JIRA: FUEL-4 | Baselining Fuel 6.0.1 for OPNFV |
| JIRA: FUEL-17 | Integration of OpenDaylight |

#### Bug corrections

**JIRA TICKETS:**

| JIRA REFERENCE | SLOGAN |
|---|---|
| JIRA: BGS-57 | The OpenDaylight Helium release is not fully functional and the resulting Fuel integration is not able to cope with the deficiancies. It is therefore not recommended to to enable this option. A functional integration of ODL version: Lithium is expected to be available in an upcomming service release. |

### 1.6.3 Deliverables

#### Software deliverables

Fuel-based installer iso file <arno.2015.2.0.fuel.iso>

#### Documentation deliverables

- OPNFV Installation instructions for Arno release with the Fuel deployment tool - ver. 1.1.0
- OPNFV Build instructions for Arno release with the Fuel deployment tool - ver. 1.1.0
- OPNFV Release Note for Arno release with the Fuel deployment tool - ver. 1.1.3 (this document)

## 1.7 Known Limitations, Issues and Workarounds

### 1.7.1 System Limitations

**Max number of blades:** 1 Fuel master, 3 Controllers, 20 Compute blades

**Min number of blades:** 1 Fuel master, 1 Controller, 1 Compute blade

**Storage:** Ceph is the only supported storage configuration.

**Max number of networks:** 3800 (Needs special switch config.)

### 1.7.2 Known issues

**JIRA TICKETS:**

| JIRA REFERENCE | SLOGAN |
|---|---|
| JIRA: FUEL-43 | VMs not accessible through SSH due to VXLAN 50 Byte overhead and lack of proper MTU value setting on virtual ethernet devices |
| JIRA: FUEL-44 | Centos 6.5 option has not been enough verified |

### 1.7.3 Workarounds

See JIRA: *FUEL-43 <https://jira.opnfv.org/browse/FUEL-43>*

## 1.8 Test Result

Arno SR1 release with the Fuel deployment tool has undergone QA test runs with the following results: https://wiki.opnfv.org/arno_sr1_result_page?rev=1443626728

## 1.9 References

For more information on the OPNFV Arno release, please see http://wiki.opnfv.org/releases/arno.

**Authors** Jonas Bjurel (Ericsson)

**Version** 1.1.3

**Documentation tracking**

Revision:

Build date: _date_