

# OPNFV Release Note for the Arno SR1 release of OPNFV when using Fuel as a deployment tool

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## Abstract

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

## License

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## 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 |

## 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.

## 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

## Release Data

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

## 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

## 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 deficiencies. It is therefore not recommended to enable this option. A functional integration of ODL version: Lithium is expected to be available in an upcoming service release. |

## 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)

## Known Limitations, Issues and Workarounds

### 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.)

### 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  |

## Workarounds

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

## 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](https://wiki.opnfv.org/arno_sr1_result_page?rev=1443626728)

## References

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

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**Version:** 1.1.3

### Documentation tracking

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