

Release Notes for NorthStar Controller

Release 3.0.1
27 December 2017

These release notes accompany Juniper Networks NorthStar Controller Release 3.0.1.

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Introduction

The Juniper Networks NorthStar Controller is an SDN controller that enables granular visibility and control of IP/MPLS flows in large service provider and enterprise networks. Network operators can use the NorthStar Controller to optimize their network infrastructure through proactive monitoring, planning, and explicit routing of large traffic loads dynamically based on user-defined constraints.

The NorthStar Controller 3.0.1 release is fully supported with Junos OS Release 17.2R1 only.

NorthStar Controller 3.0.1 can be deployed with Junos OS Releases 15.1F6, 16.1R1, and 17.1R1, but the segment routing (SPRING) feature would not be available.

The NorthStar 3.0.1 Analytics features require specific Junos OS Releases to be able to obtain LSP and interface statistics. This is a Junos Telemetry Interface (JTI) dependency. See [Overview of the Junos Telemetry Interface](#) for information on JTI.

NorthStar Controller 3.0.1 can be deployed with Junos OS Releases 14.2R6, 15.1F4, and 15.1R4, but the following features would not be available:

- MD5 authentication for PCEP
- P2MP support
- Administrative group support

By default, the NorthStar Controller Release 3.0 and later require that the external Junos VM be Release 17.2 or later. If you are using an older version of Junos OS, you can change the NorthStar configuration to support it, but segment routing support will not be available. See the *Known Behavior* section for the configuration steps.

Other Junos OS releases are not supported.



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NOTE: The Path Computation Element Protocol (PCEP) configuration on the PCC routers does not persist across upgrades when the SDN package is not part of the installation binary. Before upgrading the Junos OS image to this release, save the existing configuration to a file by using the `save` command. After you upgrade the Junos OS image on each PCC router, use the `load override` command to restore the PCEP configuration.

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The NorthStar Controller is supported on the following Juniper devices: M Series, T Series, MX Series, PTX Series, QFX10008, ACX5000, SRX300, SRX320, SRX340, SRX345, SRX550, SRX550M, SRX1500, SRX4100, SRX4200, and vSRX instances.

Junos OS supports Internet draft draft-crabbe-pce-pce-initiated-lsp-03 for the stateful PCE-initiated LSP implementation (M Series, MX Series, PTX Series, T Series, QFX Series, and ACX Series).

Contents of this Release

Table 1 on page 3 describes the downloadable files.

Table 1: NorthStar Controller 3.0.1 Downloadable Files

File	Description
NorthStar Application NOTE: E-signature also available.	Northstar_Bundle_3_0_1.tar.gz which includes: <ul style="list-style-type: none"> NorthStar Bundle 3.0.1 installation file (.rpm) for use with: <ul style="list-style-type: none"> Bare metal server installation in which the JunosVM will be running as a virtual machine using qemu hypervisor via CLI. Installation onto a CentOS 6 VM running on the OpenStack virtualization platform. Readme file.
NorthStar JunosVM NOTE: E-signature also available.	northstar_junosvm.tar.gz which includes: <ul style="list-style-type: none"> northstar_junosvm.img, a Qcow2 formatted file to be run as a virtual machine on OpenStack. NOTE: The junos_vm file has no configuration. Sample junos_vm configuration file. Sample HEAT templates for use when installing the NorthStar Controller in an OpenStack virtual environment: <ul style="list-style-type: none"> northstar301.heat.official for launching the NorthStar Controller in standalone mode without a floating IP address. northstar301.floating.heat.official for launching the NorthStar Controller in standalone mode with a floating IP address. northstar301.3instances.heat.official for launching the NorthStar Controller in cluster mode without a floating IP address. northstar301.3instances.floating.heat.official for launching the NorthStar Controller in cluster mode with a floating IP address. Readme file.

New Features

There are no new features in the NorthStar Controller Release 3.0.1.

Changes in Behavior

There are no behavior changes in the NorthStar Controller Release 3.0.1.

Known Behavior

There are no new known behaviors in NorthStar Controller Release 3.0.1.

Known Issues

There are no known issues to report in NorthStar Controller Release 3.0.1.

Resolved Issues

Table 2 on page 4 lists resolved issues in NorthStar Controller Release 3.0.1. The identifier associated with each entry is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

Table 2: Resolved Issues in NorthStar Controller 3.0.1

Identifier	Description
1230379	Device Profile might have duplicate entries. It is no longer required to remove the duplicate entries.
1297605	Protection added to prevent constant web UI reloading when duplicate ISO addresses are configured in the network.
1297926	In a race condition, NorthStar TopoServer processes might be restarted.
1300800	NorthStar REST API-based search for LSPs might not be responsive.
1306292	In some circumstances when dealing with very large-scale networks, NorthStar web UI performance can be slow. Caching and state compression were implemented to address the issue.
1306314	If Apache Zookeeper synchronization services is unexpectedly in a corrupted state, failover might not occur.
1306393	The Reset Network Model operation might not always succeed. It is strongly recommended not to use this feature on production networks. This feature is intended for use only on lab networks.
1307032	Admin > Server Status can be displayed as down for PCE, NTAD and PCS during scaled initial loading.
1319662	LDAP authentication failure due to token expiry date. Subsequent logins will now automatically extend the expiration date.
1326945	Segfault (segmentation fault) message might appear when performing supervisorctl stop all and supervisorctl start all . If NorthStar services restart is required, use service northstar restart instead.
1328901	Northstar: OpenSSL 1.0.2n Security Advisory [07 Dec 2017] CVE-2017-3737 (SIR-2017-375). It is advised to update the operating system OpenSSL version to 1.0.2n.

Requesting Technical Support

Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or JNASC support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

Revision History

27 December 2017—NorthStar Controller Release 3.0.1.

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