

# Release Notes for NorthStar Controller

**Release 3.2.1**  
**23 March 2018**

These release notes accompany Juniper Networks NorthStar Controller Release 3.2.1.

## **Contents**

Introduction .....	2
Contents of this Release .....	3
New Features .....	3
Changes in Behavior .....	3
Known Behavior .....	3
Known Issues .....	4
Resolved Issues .....	4
Requesting Technical Support .....	4
Revision History .....	4

## 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 3.2.1 release is fully supported with Junos OS Release 17.2R1 and later.

NorthStar Controller 3.2.1 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 Controller Analytics features require specific Junos OS Releases to be able to obtain LSP and interface statistics. This is a Junos Telemetry Interface (JTI) dependency. We recommend Junos OS Release 15.1F6 or later if you plan to use Analytics.

NorthStar Controller 3.2.1 release 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
- Admin group support

By default, the NorthStar Controller Release 3.0 and later requires 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.



.....

**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.

.....

The NorthStar Controller is supported on the following Juniper platforms: M Series, T Series, MX Series, PTX Series, QFX10008, and ACX5000.

As of Junos OS Release 17.4R1, NorthStar Controller is also supported on QFX5110, QFX5100, and QFX5200, and on SRX platforms (SRX300, SRX320, SRX340, SRX345, SRX550, SRX550M, SRX1500, SRX4100, SRX4200 devices, 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 3.2.1 Downloadable Files**

File	Description
NorthStar Application	Northstar_Bundle_3_2_1_.tar.gz
NOTE: E-signature also available.	
NorthStar JunosVM	northstar_junosvm.tar.gz
NOTE: E-signature also available.	



NOTE: VMDK installation is also supported, but the files needed for this type of installation are not available on the NorthStar software download page. Please request the files from your account team or NorthStar Product Line Manager.

## New Features

There are no new features in this release.

## Changes in Behavior

There are no new changes in behavior in this release.

## Known Behavior

The following behaviors are known to occur in NorthStar Controller Release 3.2.1:

- NorthStar REST API does not return in the REST response the selected routing method:
  - Currently, if a REST API body has routingMethod=Default, the corresponding REST response does not include the routingMethod keyword.
  - NorthStar still computes the ERO properly.
  - In a future NorthStar release, the REST response will properly indicate the selected routingMethod.
- Re-provision LSPs issue:
  - For a Netconf-provisioned P2MP tree, re-provisioning individual sub-LSPs to go around a failed link can fail under the following conditions:

- The user re-provisions sub-LSPs separately.
- The user has a mixture of sub-LSPs with a user-specified strict path and paths computed by NorthStar.
- The workflow is to re-provision all sub-LSPs of a tree together; NorthStar computes sub-LSPs of a tree as a whole, not individually.

## Known Issues

---

[Table 2 on page 4](#) lists known issues in NorthStar Controller Release 3.2.1. The identifier associated with each entry is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

**Table 2: Known Issues in NorthStar Controller 3.2.1**

Identifier	Description
1348012	During a Device Collection, the User Parameters (used for service mapping) associated with an LSP were not saved. As a result, the service mapping statement was not removed; in turn, the LSP was not deleted.
1348015	NorthStar Web UI was not indicating the actual Routing Method that was previously specified when using a REST API call.

## Resolved Issues

---

[Table 3 on page 4](#) lists resolved issues in NorthStar Controller Release 3.2.1. The identifier associated with each entry is the tracking number in the Juniper Networks Problem Report (PR) tracking system.

**Table 3: Resolved Issues in NorthStar Controller 3.2.1**

Identifier	Description
1348014	A P2MP tree was missing in the UI P2MP sub-view when the headend node had Netconf but not PCEP configured.

## 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

---

23 March 2018—NorthStar Controller Release 3.2.1.

Copyright © 2018 Juniper Networks, Inc. All rights reserved.

Juniper Networks, the Juniper Networks logo, Juniper, and Junos are registered trademarks of Juniper Networks, Inc. and/or its affiliates in the United States and other countries. All other trademarks may be property of their respective owners.

Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.