



Preparing for Integrating Cisco RISE with Cisco Prime NAM

This chapter describes how to prepare for integrating the Cisco Remote Integrated Services Engine (RISE) with a Cisco Prime Network Analysis Module (NAM) appliance connected to a Cisco Nexus 7000 Series switch. The Cisco NX-OS software supports the Cisco Nexus 7000 Series switches, which includes the Cisco Nexus 7000 Series switches and Cisco Nexus 7700 Series switches.

This chapter includes the following sections:

- [Finding Feature Information, page 1](#)
- [Information About Preparing for RISE Integration, page 1](#)
- [Licensing for Cisco RISE with Cisco Prime NAM , page 2](#)
- [Guidelines and Limitations for Preparing for Cisco RISE with Cisco Prime NAM, page 3](#)
- [Preparing for Cisco RISE with Citrix Application Delivery Controller \(ADC\) , page 3](#)

Finding Feature Information

Your software release might not support all the features documented in this module. For the latest caveats and feature information, see the Bug Search Tool at <https://tools.cisco.com/bugsearch/> and the release notes for your software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the “New and Changed Information” chapter.

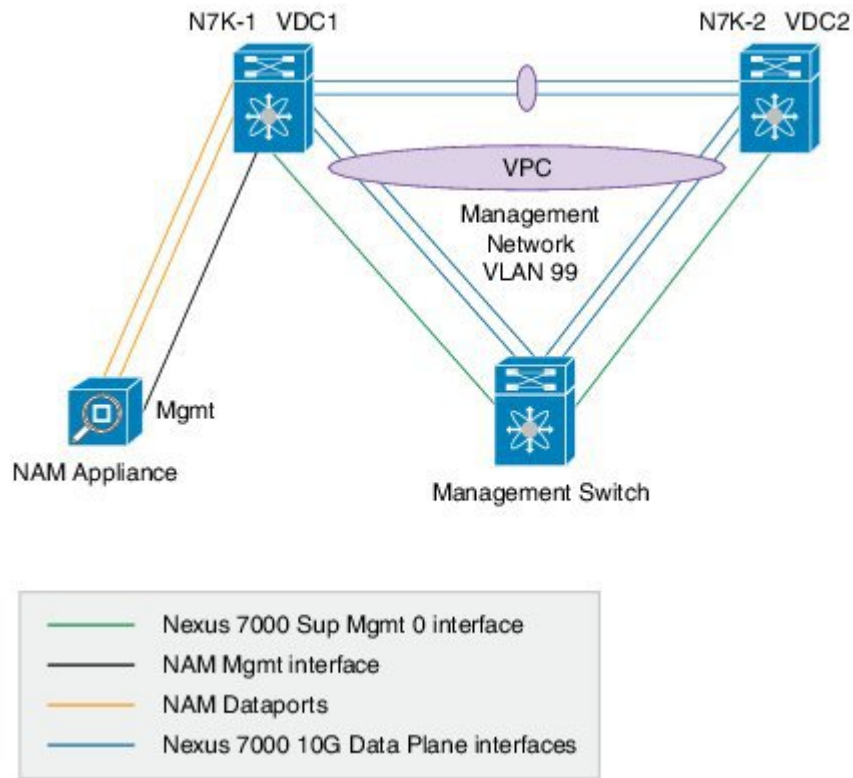
Information About Preparing for RISE Integration

This section includes the following topics:

Connection Modes

The only supported connect mode for the Cisco Remote Integrated Services Engine (RISE) with a Cisco Prime Network Analysis Module (NAM) appliance and Cisco Nexus 7000 Series switches is direct connect. The figure below shows the direct connect topology for the appliance and the switch in a RISE integration.

Figure 1: Direct Connect for RISE with Cisco Prime NAM



Licensing for Cisco RISE with Cisco Prime NAM

The following table shows the licensing requirements for this feature:

Product	License Requirements
Cisco NX-OS	The Cisco Remote Integrated Services Engine (RISE) with Cisco Prime Network Analysis Module (NAM) requires the Enhanced Layer 2 Package on the Cisco Nexus 7000 Series switch. For a complete explanation of the Cisco NX-OS licensing scheme and how to obtain and apply licenses, see the <i>Cisco NX-OS Licensing Guide</i> . For a complete explanation of the Cisco NX-OS licensing scheme, see the <i>Cisco NX-OS Licensing Guide</i>

Guidelines and Limitations for Preparing for Cisco RISE with Cisco Prime NAM

Cisco Remote Integration Services Engine (RISE) for Cisco Network Analysis Modules (NAMs) and Cisco Nexus 7000 Series switches has the following guidelines and limitations:

- The following Cisco Prime NAM Series modules are supported for a Cisco RISE with Cisco Prime NAM deployment:

Cisco Prime NAM Series Model	Control Ports	Data Monitoring Ports
2304	2 x 1 Gb/s	4 x 1 Gb/s
2320	2 x 1 Gb/s	20 x 1 Gb/s

- For the Cisco Nexus 7000 Series switches in a Cisco RISE integration with Cisco Prime NAM, Cisco NX-OS Release 6.2(8) and later releases is required.
- For the Cisco Prime NAM in a Cisco RISE integration, the Cisco Prime NAM 6.0(2) software release is required.

Preparing for Cisco RISE with Citrix Application Delivery Controller (ADC)

This chapter describes how to prepare for integrating the Cisco Remote Integrated Services Engine (RISE) with Citrix Application Delivery Controller (ADC) appliance connected to the Cisco Nexus Series switches. The Cisco NX-OS software supports the Cisco Nexus Series switches, which includes the Cisco Nexus Series switches.

This section includes the following topics:

Installing the Cisco Nexus Series Switch

Perform the following steps to install and configure your Cisco Nexus switch before configuring the Remote Integrated Service Engine (RISE) feature for Cisco Nexus Series switches and service appliances:



Note

For installation and configuration information, see the *Cisco Nexus Series configuration guides*.

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- Step 1** Install the Cisco Nexus Series switches and perform the basic setup such as applying the required licenses. For switch hardware installation instructions, see the *Cisco Nexus Series Hardware Installation and Reference Guide*.
- Step 2** Install the appropriate Cisco NX-OS release software in your environment and create the basic configuration of the Cisco Nexus Series switches, which includes, but is not limited, to the following tasks:

- a) Configure the physical Ethernet interfaces or a port channel for connecting to the service appliance and to allow control and data VLANs.
 - b) Configure the switch virtual interfaces (SVIs) for RISE control and data VLANs.
 - c) Configure the service VLAN groups.
 - d) Enable the RISE feature to allow for RISE integration.
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Installing the Cisco Prime NAM

Perform the following steps to install and configure your Cisco Prime Network Analysis Module (NAM) appliances before configuring the Remote Integrated Service Engine (RISE) feature for Cisco Nexus 7000 Series switches and Cisco Prime NAM.

**Note**

For installation and configuration information, see the [Cisco Prime Network Analysis Module \(NAM\) 2300 Series Appliances Installation and Configuration Guide](#).

The Cisco Prime NAM is typically mounted in a rack and all models ship with rack-rail hardware. Installation can include the following tasks:

- Step 1** Unpack the appliance—The hardware accessories for your particular appliance, such as cables, adapters, and rail kit, can vary depending on the hardware platform that you ordered. Unpack the box that contains your new appliance on a sturdy table with plenty of space and inspect the contents.
 - Step 2** Mount the appliance in the rack—Most appliances can be installed in standard server racks that conform to EIA-310-D specification. The slide rails supplied by Cisco Systems for this appliance do not require tools for installation. The inner rails (mounting brackets) are pre-attached to the sides of the appliance.
 - Step 3** Install your transceiver modules—A Small Form-Factor Pluggable (SFP) is a compact transceiver that can operate at speeds of up to 1 gigabit per second and is available in both copper and fiber types. Inserting a 1 G SFP copper transceiver converts the 1 G SFP port to a 1000BASE-T port. Inserting a 1 G SFP fiber transceiver converts the 1 G SFP port to a 1000BASE-X port. Auto-negotiation is enabled by default on the 1 G SFP port into which you insert your 1 G SFP transceiver. As soon as a link between the port and the network is established, the speed and mode are matched on both ends of the cable.
 - Step 4** Install your 10 G SFP+ transceivers—A 10 Gigabit Small Form-Factor Pluggable (SFP+) is a compact optical transceiver that can operate at speeds of up to 10 gigabits per second.
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What to Do Next

After the appliance is securely mounted on the rack, you are ready to connect the cables. Connect the power cable first. Do not power on the unit yet. Connect the appliance cables next.