



# Release Notes for the NPE-G100 ROMmon Image Release 12.2(22r)S

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This document contains procedures for downloading independent ROM monitor (ROMmon) software onto the NPE-G100 processor. This document contains the following sections:

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## ROM Monitor History

**Table 1**    *ROMmon History*

Version	Feature Content
12.2(22r)S	This is the first upgradeable ROMmon image for the NPE-G100.



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# Compatibility Requirements

Upgrading ROMmon for the NPE-G100 is optional. The built-in ROMmon images are completely functional on any Cisco IOS release, although upgrading to this ROMmon image may be helpful in resolving some caveats. For a list of known caveats that can be corrected by upgrading to this ROMmon image, see the “[Resolved Caveats](#)” section on page 2 of this document.

There are no Cisco IOS restrictions with this ROMmon software image. The NPE-G100 ROMmon software image is compatible with any Cisco IOS image, including non-12.2S Cisco IOS Release images, running the Cisco 7304 router. The Release 12.2(22)S portion of the filename is used only to provide a guideline for when the ROMmon image was released in relation to the Cisco IOS release image.

This ROMmon image can be used only with the NPE-G100 processor on the Cisco 7304 router. For information on the NSE-100 ROMmon image, see the *Release Notes for Cisco 7304 ROMmon Image Release 12.1(12r)EX1* document.

## Upgrading ROMmon

The process for upgrading the ROM monitor software image is available in the “*Upgrading ROMmon*” section of the *Network Processing Engine Installation and Configuration* guide. This section of the *Network Processing Engine Installation and Configuration* guide can be accessed by entering the following URL:

<http://www.cisco.com/univercd/cc/td/doc/product/core/cis7300/fru/npe/o3613c.htm#1022763>

The 12.2(22r)S ROMmon image for the NPE-G100 can be downloaded from the following URL:

<http://www.cisco.com/cgi-bin/tablebuild.pl/7304rommon>

## Caveats

This section documents the known severity 1, 2, and 3 open caveats for this ROMmon image and the caveats that can be resolved by installing this ROMmon image.

### Open Caveats

There are no known severity 1, 2, or 3 caveats associated with the ROMmon image.

### Resolved Caveats

The following caveats can be resolved by upgrading the ROMmon image:

- CSCea62212

While reading or writing to Flash memory, you may see an unexpected status timeout error. There are no known workarounds.

- CSCec28094

A Cisco 7304 using an NPE-G100 that is configured to reboot automatically may not reboot automatically as configured when a fatal exception error is experienced.

Workaround: One workaround is to power cycle the router. A break signal can also be sent using the console connection to the NPE-G100 while the NPE-G100 is in the process of rebooting automatically. After sending the break signal, reset the router from ROMmon.

- CSCed50830

After a watchdog reset, the reason for the reset in various command outputs (such as **show version**) is incorrect. There are no known workarounds.

- CSCee31783

If a router is mistakenly configured to autoboot a Cisco IOS image for a platform other than the Cisco 7304 router, the Cisco 7304 router will hang as a result of a continuous TLB exception loop.

Workaround: Control the router by sending break signals from a Telnet console. If the router does not respond, power cycle the router and retry sending the break signals from the Telnet console. Once you have gotten to the ROMmon prompt, boot the router using a valid Cisco IOS image by entering the **boot system** command.

## Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

### Cisco.com

You can access the most current Cisco documentation at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

You can access international Cisco websites at this URL:

[http://www.cisco.com/public/countries\\_languages.shtml](http://www.cisco.com/public/countries_languages.shtml)

## Ordering Documentation

You can find instructions for ordering documentation at this URL:

[http://www.cisco.com/univercd/cc/td/doc/es\\_inpk/pdi.htm](http://www.cisco.com/univercd/cc/td/doc/es_inpk/pdi.htm)

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Ordering tool:

<http://www.cisco.com/en/US/partner/ordering/index.shtml>

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

## Documentation Feedback

You can send comments about technical documentation to [bug-doc@cisco.com](mailto:bug-doc@cisco.com).

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems  
Attn: Customer Document Ordering  
170 West Tasman Drive  
San Jose, CA 95134-9883

We appreciate your comments.

## Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, Cisco Technical Support provides 24-hour-a-day, award-winning technical assistance. The Cisco Technical Support Website on Cisco.com features extensive online support resources. In addition, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not hold a valid Cisco service contract, contact your reseller.

## Cisco Technical Support Website

The Cisco Technical Support Website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, 365 days a year at this URL:

<http://www.cisco.com/techsupport>

Access to all tools on the Cisco Technical Support Website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

## Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool automatically provides recommended solutions. If your issue is not resolved using the recommended resources, your service request will be assigned to a Cisco TAC engineer. The TAC Service Request Tool is located at this URL:

<http://www.cisco.com/techsupport/servicerequest>

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco TAC engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553 2447

For a complete list of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/techsupport/contacts>

## Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

## Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- Cisco Marketplace provides a variety of Cisco books, reference guides, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:

<http://www.cisco.com/go/marketplace/>

- The Cisco *Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the Cisco Product Catalog at this URL:  
<http://cisco.com/univercd/cc/td/doc/pcat/>
- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:  
<http://www.ciscopress.com>
- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:  
<http://www.cisco.com/packet>
- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:  
<http://www.cisco.com/go/iqmagazine>
- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:  
<http://www.cisco.com/ipj>
- World-class networking training is available from Cisco. You can view current offerings at this URL:  
<http://www.cisco.com/en/US/learning/index.html>

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