

Applying firmware updates

Slide 1

Tivoli

IBM

IBM Security Network Active Bypass

Applying firmware updates



This is a self-running demonstration that shows you how to complete a task.
Controls are available at the bottom of the screen.

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Slide 2



Objectives

When you complete this module, you will be able to:

- Find firmware updates
- Apply a firmware update to the IBM Security Network Active Bypass unit

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Applying firmware updates

- Download updates for the Network Active Bypass (NAB) unit from the [IBM ISS Download Center](#)
- You use the NAB management interface to upload update files to the NAB unit
- Because the unit does not verify the files that are uploaded through the management interface, it is important to verify that the update file applies to the NAB
- Uploading an incorrect file can cause the NAB to:
 - Enter into a restart loop
 - Fail to start

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Applying firmware updates

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The screenshot shows the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "Sign Out", "ISS Worldwide", "MyISS", "Investor Relations", and "Careers". A search bar is labeled "Keyword Search" with a "GO" button. A main navigation bar contains "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

The "Related Info" sidebar on the left includes "Product Documentation" and "日本語ドキュメント". The main content area is titled "Download Center" with a breadcrumb "Home » Download Center".

Under "PRODUCT DOWNLOADS", there is a "Select A Product:" dropdown menu currently set to "Database Scanner" and a "GO" button. A yellow callout bubble points to this area with the text: "To find an update, click the list."

Below this is the "LATEST CONTENT UPDATES" section, which lists several updates with orange arrow icons:

- Internet Scanner 7.0 SP2 - 7.2.97
- Enterprise Scanner Content Update 1.83 (CAM)
- Proventia Network - Content Update 31.070
- Proventia Network - Content Update 31.070
- Proventia and RealSecure Host Content Updates - 31.070 and 2660
- Proventia Network - Content Update 31.060
- Proventia Network - Content Update 31.060
- Security Fusion Content Updates - June 2011
- Internet Scanner 7.0 SP2 - 7.2.96
- Enterprise Scanner Content Update

To the right, the "LATEST UPDATES" section lists:

- Proventia G2000 Firmware Update v1.8
- Proventia G400 Firmware Update v1.8
- Proventia Network Mail Security - 2.5.1 Firmware Update

A purple callout box at the bottom right contains the text: "This demonstration shows how to find firmware updates and apply them to the NAB unit. You must sign in to the Download Center to download product updates. This task has been performed for you."

Applying firmware updates

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IBM Internet Security Systems
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Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers

Keyword Search 60

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Related Info
Product Documentation
日本語ドキュメント

Home » Download Center

Download Center

PRODUCT DOWNLOADS

Select A Product:

- Database Scanner
- Database Scanner
- FIPS enabled systems
- Hosted Vulnerability Management Service Appliance
- IBM Security Server Protection
- Internet Scanner
- NIAP EAL2 - Prov. A/G, Net. Snr, SiteProtect
- NIAP EAL2 Prov. Desktop, Prov. Server, SiteProtect
- NIAP EAL2-PP Proventia GX 1.3 and SiteProtect
- NIAP EAL2PP - Prov. GX6116 ver.2.2, SiteProtect
- Proventia A Series
- Proventia Desktop
- Proventia Desktop Access Control
- Proventia Endpoint Secure Control
- Proventia G Series
- Proventia M Series
- Proventia Mail Filter
- Proventia Management SiteProtector Appliance
- Proventia Network Active Bypass
- Proventia Network Anomaly Detection System
- Proventia Network Enterprise Scanner
- Proventia Network IPS (GX-Series)
- Proventia Network IPS for Crossbeam
- Proventia Network Mail Security System
- Proventia Network Security Controller
- Proventia Server
- Proventia Web Filter

LATEST UPDATES

- ▶ [Server Protection for Windows 2.2 SiteProtector Updates](#)
- ▶ [Proventia 10G Network Active Bypass](#)
- ▶ [MSS VMS CD 1.3](#)
- ▶ [Proventia G2000 Firmware Update v1.8](#)
- ▶ [Proventia G400 Firmware Update v1.8](#)
- ▶ [Proventia Network Mail Security - 2.5.1 Firmware Update](#)

BETA DOWNLOADS

- ▶ None available

Select Proventia Network Active Bypass.

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The screenshot displays the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "Sign Out", "ISS Worldwide", "MyISS", "Investor Relations", and "Careers". A search bar is labeled "Keyword Search" with a "GO" button. A main navigation bar contains links for "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

The "Related Info" sidebar on the left includes "Product Documentation" and "日本語ドキュメント". The main content area is titled "Download Center" and includes a breadcrumb trail: "Home » Download Center".

The "PRODUCT DOWNLOADS" section features a "Select A Product:" dropdown menu. The menu is open, showing a list of products including "Proventia Network Active Bypass", "Internet Scanner", "NIAP EAL2 - Prov. A/G, Net. Snsr, SiteProtecto", "NIAP EAL2 Prov. Desktop, Prov. Server, SitePr", "NIAP EAL2-PP Proventia GX 1.3 and SiteProt", "NIAP EAL2PP - Prov. GX8118 ver.2.2, Site Pr", "Proventia A Series", "Proventia Desktop", "Proventia Desktop Access Control", "Proventia Endpoint Secure Control", "Proventia G Series", "Proventia M Series", "Proventia Mail Filter", "Proventia Management SiteProtector Applian", "Proventia Network Active Bypass", "Proventia Network Anomaly Detection System", "Proventia Network Enterprise Scanner", "Proventia Network IPS (GX-Series)", "Proventia Network IPS for Crossbeam", "Proventia Network Mail Security System", "Proventia Network Security Controller", "Proventia Server", "Proventia Web Filter", "RealSecure Desktop", "RealSecure Network Sensor", "RealSecure Server Sensor", and "SiteProtector".

The "LATEST UPDATES" section lists several updates with orange arrow icons:

- ▶ [Server Protection for Windows 2.2 SiteProtector Updates](#)
- ▶ [Proventia 10G Network Active Bypass](#)
- ▶ [MSS VMS CD 1.3](#)
- ▶ [Proventia G2000 Firmware Update v1.8](#)
- ▶ [Proventia G400 Firmware Update v1.8](#)
- ▶ [Proventia Network Mail Security - 2.5.1 Firmware Update](#)

The "BETA DOWNLOADS" section contains the text: "▶ None available".

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Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers

Keyword Search

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Related Info
Product Documentation
日本語ドキュメント

Home » Download Center

Download Center

PRODUCT DOWNLOADS

Select A Product:
Proventia Network Active Bypass

LATEST CONTENT UPDATES

- ▶ [Internet Scanner 7.0 SP2 - 7.2.97](#)
- ▶ [Enterprise Scanner Content Update 1.83 \(CAM\)](#)
- ▶ [Proventia Network - Content Update 31.070](#)
- ▶ [Proventia Network - Content Update 31.070](#)
- ▶ [Proventia and RealSecure Host Content Updates - 31.070 and 2660](#)
- ▶ [Proventia Network - Content Update 31.060](#)
- ▶ [Proventia Network - Content Update 31.060](#)
- ▶ [Security Fusion Content Updates - June 2011](#)
- ▶ [Internet Scanner 7.0 SP2 - 7.2.96](#)
- ▶ [Enterprise Scanner Content Update](#)

LATEST UPDATES

- ▶ [Server Protection for Windows 2.2 SiteProtector Updates](#)
- ▶ [Proventia 10G Network Active Bypass](#)
- ▶ [MSS VMS CD 1.3](#)
- ▶ [Proventia G2000 Firmware Update v1.8](#)
- ▶ [Proventia G400 Firmware Update v1.8](#)
- ▶ [Proventia Network Mail Security - 2.5.1 Firmware Update](#)

BETA DOWNLOADS

- ▶ None available

Click GO.

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Slide 8

The screenshot shows the IBM Internet Security Systems website. At the top left is the logo "IBM Internet Security Systems Ahead of the threat.™". At the top right are links for "Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers" and a "Keyword Search" box with a "GO" button. Below the logo is a navigation bar with links: "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

On the left side, there is a "Related Info" section with links for "Product Documentation" and "日本語ドキュメント".

The main content area is titled "Enterprise Product Downloads" and includes a breadcrumb trail: "Home » Download Center". Below this is a form with two dropdown menus: "Product" (set to "Proventia Network Active Bypass") and "Version" (set to "-- Please Select a Version ---"). A "GO" button is to the right of the Version dropdown. A yellow callout box with the text "Click the Version list." points to the Version dropdown menu.

Below the form are six buttons: "CONTENT UPDATES", "MINOR FEATURE UPDATES", "MAJOR FEATURE UPDATES", "MAINTENANCE UPDATES", "OTHER UPDATES", and "ALL UPDATES".

At the bottom of the form area, there is a text instruction: "Please select a product and a version and click GO to display files available for download."

At the very bottom of the page, there are links for "Site Map | Privacy Policy | Terms of Use | Trademarks" and a copyright notice: "©2008 IBM Internet Security Systems. All rights reserved worldwide."

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The screenshot shows the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers" and a "Keyword Search" box with a "GO" button. A menu bar contains "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

On the left, a "Related Info" sidebar lists "Product Documentation" and "日本語ドキュメント". The main content area shows a breadcrumb "Home » Download Center" and a section titled "Enterprise Product Downloads".

Under "Enterprise Product Downloads", there are two dropdown menus: "Product" (set to "Proventia Network Active Bypass") and "Version" (set to "-- Please Select a Version --"). A "GO" button is to the right. The "Version" dropdown is open, showing "Proventia Network Active Bypass" as the selected option. A yellow callout box with a pointer to this option contains the text: "Select Proventia Network Active Bypass."

Below the dropdowns are several tabs: "CONTENT UPDATES", "MINOR FEATURE UPDATES", "MAJOR FEATURE UPDATES", "MAINTENANCE UPDATES", and "UPDATES". A message below the tabs says: "Please select a product and a version and click GO to display files available for download."

At the bottom, there are links for "Site Map | Privacy Policy | Terms of Use | Trademarks" and a copyright notice: "©2008 IBM Internet Security Systems. All rights reserved worldwide."

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Slide 10

The screenshot displays the IBM Internet Security Systems website interface. At the top left, the logo reads "IBM Internet Security Systems Ahead of the threat.™". To the right, there are links for "Sign Out", "ISS Worldwide", "MyISS", "Investor Relations", and "Careers". A search bar with the text "Keyword Search" and a "GO" button is also present.

A navigation menu below the header includes links for "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

On the left side, a "Related Info" section contains links for "Product Documentation" and "日本語ドキュメント".

The main content area features a breadcrumb trail: "Home » Download Center". Below this is the "Enterprise Product Downloads" section, which includes a form with two dropdown menus: "Product" (set to "Proventia Network Active Bypass") and "Version" (set to "-- Please Select a Version ---"). A "GO" button is positioned to the right of the version dropdown.

Below the form is a row of six update category buttons: "CONTENT UPDATES", "MINOR FEATURE UPDATES", "MAJOR FEATURE UPDATES", "MAINTENANCE UPDATES", "OTHER UPDATES", and "ALL UPDATES".

A text instruction below the buttons reads: "Please select a product and a version and click GO to display files available for download."

At the bottom of the page, there are links for "Site Map", "Privacy Policy", "Terms of Use", and "Trademarks", followed by the copyright notice: "©2008 IBM Internet Security Systems. All rights reserved worldwide."

Applying firmware updates

Slide 11

The screenshot shows the IBM Internet Security Systems website. At the top, the logo reads "IBM Internet Security Systems Ahead of the threat.™". Navigation links include "Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers" and a "Keyword Search" box with the number "60". A menu bar contains "ABOUT US", "PRODUCTS", "SERVICES", "RESEARCH", "SUPPORT", "TRAINING", "PARTNERS", and "CONTACT US".

On the left, a "Related Info" sidebar lists "Product Documentation" and "日本語ドキュメント". The main content area is titled "Enterprise Product Downloads" and includes a breadcrumb "Home » Download Center". Below this is a form with "Product" and "Version" dropdown menus, both set to "Proventia Network Active Bypass", and an "Updating..." button.

A row of tabs is visible: "CONTENT UPDATES", "MINOR FEATURE UPDATES", "MAJOR FEATURE UPDATES", "MAINTENANCE UPDATES", "OTHER UPDATES", and "ALL UPDATES". A yellow callout bubble points to the "MAJOR FEATURE UPDATES" tab with the text "Click the Major Feature Updates tab." Below the tabs, a purple callout bubble contains the text "Firmware updates include major features." The page footer includes a copyright notice "©20..." and a "Use | Trademarks" link.

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Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers

Keyword Search

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Related Info
Product Documentation
日本語ドキュメント

Home » Download Center

Enterprise Product Downloads

Product: Version:

Proventia 10G Network Active Bypass

Release Date: Jun 9, 2011 3:15 PM EDT Bundle Includes:

Proventia Network Active Bypass

Release Date: Dec 9, 2009 3:55 PM EST Bundle Includes:

Click **Continue**.

[Site Map](#) | [Privacy Policy](#) | [Terms of Use](#) | [Trademarks](#)
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Applying firmware updates

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IBM Internet Security Systems
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Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers

Keyword Search 60

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Related Info

Product Documentation
日本語ドキュメント

Home » Download Center

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Please indicate whether you accept or do not accept the following software license agreement(s) by choosing either "I Agree" or "I Do Not Agree" and clicking the "Submit" button.

NOTE: If you do not accept the license agreement(s) for the product you have chosen, you will not be able to download any file for that product.

End User License Agreement

English [en]

By clicking on **I agree**, you agree that (1) you have had the opportunity to review the terms of both the IBM and non-IBM licenses presented below and (2) such terms govern this transaction. If you do not agree, click **I do not agree**.

International Program License Agreement

Part 1 - General Terms

BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT

I agree I do not agree

SUBMIT

Review the End User License Agreement and select **I agree**.

Applying firmware updates

Slide 14

The screenshot shows the IBM Internet Security Systems website. The header includes the logo "IBM Internet Security Systems Ahead of the threat.™" and navigation links for "Sign Out", "ISS Worldwide", "MyISS", "Investor Relations", and "Careers". A search bar is located in the top right corner.

The main navigation menu includes: ABOUT US, PRODUCTS, SERVICES, RESEARCH, SUPPORT, TRAINING, PARTNERS, and CONTACT US.

The "Related Info" sidebar contains links for "Product Documentation" and "日本語ドキュメント".

The main content area features a breadcrumb trail: Home » Download Center. Below this is the "Export Agreement/End User License Agreement" section, which includes a note: "NOTE: If you do not accept the license agreement(s) for the product you have chosen, you will not be able to download any file for that product."

The "End User License Agreement" form is displayed, with a language dropdown set to "English [en]". The text of the agreement is shown in a scrollable area, starting with "International Program License Agreement" and "Part 1 - General Terms". The visible text reads: "BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN 'ACCEPT' BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF YOURSELF OR REPRESENTATIVE".

At the bottom of the form, there are radio buttons for "I agree" (which is selected) and "I do not agree". A yellow callout bubble with the text "Click Submit." points to the "SUBMIT" button.

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IBM Internet Security Systems
Ahead of the threat.™

Sign Out | ISS Worldwide | MyISS | Investor Relations | Careers

Keyword Search 60

ABOUT US | PRODUCTS | SERVICES | RESEARCH | SUPPORT | TRAINING | PARTNERS | CONTACT US

Related Info
Product Documentation
日本語ドキュメント

Home » Download Center

Download Center

[Return to Proventia Network Active Bypass Downloads](#)

Proventia Network Active Bypass Readme

File Size: 9 KB **DOWNLOAD**
Filename: ProventiaNetwork_Active_Bypass_Readme.htm
SHA-1: 4a8b778826dd5183a8723e5e7152507c3ef8b518
MD5: b9fbd9b63a3d42257c6b36912d90a005

Proventia Network Active Bypass

File Size: 13.4 MB **DOWNLOAD**
Filename: vmlinux.64.1.0.849.gz
SHA-1: 7bd48bca2e548b6657f22b17ba48c1a3d48ac618
MD5: 0759d59d8b98bf9201be4e5b7456f5d7

Each update has a corresponding Readme file.

Click **Download** and save the update file.

After the download completes, log out of the IBM ISS Download Center and open the management interface for the Network Active Bypass unit. This task has been performed for you.

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The screenshot shows the IBM Proventia Network Active Bypass management interface. The top navigation bar includes the title 'IBM Proventia Network Active Bypass', a language dropdown set to 'English', and a 'Logout' button. A left-hand navigation menu lists various options under categories like Home, Management, Advanced, and Authentication. The main content area is titled 'Status' and displays system information in a table format. Two callout boxes are present: a yellow one pointing to 'Firmware Update' in the menu, and a purple one providing the default management URL.

System	
Product Name	Proventia NAB
Product ID	Proventia NAB rev 1
Hardware Revision	A160
Firmware Version	NAB_v1.0.849
Management IP	9.55.212.107
E-mail Notifications	Disabled (Don't Send)

Power Supply	
Power 1	Present
	Not Present

Segment 2	
State	Active
Max time allowed between heartbeat acceptance	5000 ms
Number of heartbeats lost to activate bypass	3
Number of accepted heartbeats to get into active mode	?

On the Home page, click **Firmware Update.**

The URL for the Network Active Bypass unit management interface corresponds to the unit's management port IP address. The default URL is `https://192.168.0.111`. This task has been performed for you.

Applying firmware updates

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IBM Proventia Network Active Bypass English Logout

- Home
 - Status
- Management
 - Segment 1
 - Segment 2
 - Segment 3
 - Segment 4
 - Management Port
 - E-mail Notifications
 - SNMP Settings
 - NTP Settings
 - Time Settings
- Advanced
 - Manage Settings
 - Firmware Update**
 - Log Settings
 - Restart
- Authentication
 - Users
 - Remote Authentication

Firmware Update

Firmware Update

Note: It might take up to 5 minutes for the process to be completed. Check the Status page to verify that the new firmware has been applied.

Example: vmlinux14.gz

Click **Browse**.

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The screenshot displays the IBM Proventia Network Active Bypass web interface. The top navigation bar includes the title "IBM Proventia Network Active Bypass", a language dropdown set to "English", and a "Logout" link. A left-hand navigation menu lists various settings categories: Home (Status), Management (Segment 1-4, Management Port, E-mail Notifications, SNMP Settings, NTP Settings, Time Settings), Advanced (Manage Settings, **Firmware Update**, Log Settings, Restart), and Authentication (Users, Remote Authentication). The main content area is titled "Firmware Update".

A "Choose File to Upload" dialog box is overlaid on the interface. The dialog shows the current directory as "updates" and lists the following files and folders: "vmlinux", "ProventiaNetwork_Active_Bypass_Readme.htm", and "vmlinux.64". A yellow callout box with a speech bubble points to the "vmlinux.64" file, containing the text: "Select the firmware update file that you retrieved from the Download Center." The dialog also features a "File name:" field, a "Files of type:" dropdown set to "All Files (*.*)", and "Open" and "Cancel" buttons.

Applying firmware updates

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The screenshot displays the IBM Proventia Network Active Bypass web interface. The top navigation bar includes the title "IBM Proventia Network Active Bypass", a language dropdown set to "English", and a "Logout" link. A left-hand navigation menu lists various settings categories: Home, Management (with sub-items Segment 1-4), Management Port, E-mail Notifications, SNMP Settings, NTP Settings, Time Settings, Advanced (with sub-items Manage Settings, Firmware Update, Log Settings, Restart), and Authentication (with sub-items Users, Remote Authentication). The "Firmware Update" section is currently active. A "Choose File to Upload" dialog box is open, showing the "updates" folder containing "vmlinux", "ProventiaNetwork_Active_Bypass_Readme.htm", and "vmlinux.64". The "vmlinux.64" file is selected. A yellow callout bubble with the text "Click Open." points to the "Open" button in the dialog. The "File name" field contains "vmlinux.64" and the "Files of type" dropdown is set to "All Files (*.*)".

Applying firmware updates

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IBM Proventia Network Active Bypass English | Logout

- Home
 - Status
- Management
 - Segment 1
 - Segment 2
 - Segment 3
 - Segment 4
 - Management Port
 - E-mail Notifications
 - SNMP Settings
 - NTP Settings
 - Time Settings
- Advanced
 - Manage Settings
 - Firmware Update**
 - Log Settings
 - Restart
- Authentication
 - Users
 - Remote Authentication

Firmware Update

Firmware Update

Note: It might take up to 5 minutes for the process to be completed. Check the Status page to verify that the new firmware has been applied.

C:\Documents and Settings Browse... Upload Firmware
Example: vmlinux.64.gz

Click Upload Firmware .

Note that it might take up to five minutes for the update to be uploaded and applied to the Network Active Bypass unit.

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IBM Proventia Network Active Bypass English Logout

Home
Status
Management
Segment 1
Segment 2
Segment 3
Segment 4
Management Port
E-mail Notifications
SNMP Settings
NTP Settings
Time Settings
Advanced
Manage Settings
Firmware Update
Log Settings
Restart
Authentication
Users
Remote Authentication

Status

System	
Product Name	Proventia NAB
Product ID	Proventia NAB rev 1
Hardware Revision	A160
Firmware Version	NAB_v1.0.849
Management IP	9.55.212.107
E-mail Notifications	Disabled (Don't Se

Power Supply	
Power 1	Present
Power 2	Not Present

Segment 1	
State	Active
Max time allowed between heartbeat acceptance	5000 ms
Number of heartbeats lost to activate bypass	3
Number of accepted heartbeats to get into active mode	2
Operation Mode	Normal active bypass
Link fault detection	Enabled

Segment 2	
State	Bypass
Max time allowed between heartbeat acceptance	5000 ms
Number of heartbeats lost to activate bypass	3
Number of accepted heartbeats to get into active mode	2

On the Status page, verify that the appropriate firmware update is displayed in the Firmware Version field.

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