



# Cisco PIX to Cisco ASA 5500 Series Migration Release Notes Version 1.0

---

July, 2008

## Contents

This document includes the following sections:

- [Introduction, page 1](#)
- [System Requirements, page 2](#)
- [Important Notes, page 3](#)
- [Caveats, page 5](#)
- [Related Documentation, page 6](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines, page 6](#)

## Introduction

The Cisco PIX to ASA migration tool assists in migrating the software configuration of a Cisco PIX Security Appliance to a Cisco ASA 5500 Series Adaptive Security Appliance. While these two product families share a common software foundation, some differences exist (such as interface names) that require some work when migrating a configuration from PIX to ASA. The Cisco PIX to ASA migration tool can take a Cisco PIX Software v6.3 or v7.x configuration and convert it to a configuration that is usable on a Cisco ASA 5500 Series appliance.

The Cisco PIX to ASA migration tool supports both GUI and CLI-based operation, giving administrators flexibility in how they use this tool. The graphical interface guides administrators through the entire process, from selecting input/output files, to selecting the migration target platform, to mapping network interfaces, and then to generating the new migrated configuration. The CLI interface enables the same capabilities, but it gives administrators the ability to create scripts to easily perform bulk migrations. This tool will help to expedite the migration process and help to prevent administrators from making common mistakes when performing manual migrations.



---

**Americas Headquarters:**  
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

# System Requirements

The sections that follow list the system requirements for operating a Cisco ASA 5500 Series Adaptive Security appliance. This section includes the following topics:

- [Platform Requirements, page 2](#)
- [Determining the Software Version, page 2](#)

## Platform Requirements

To perform the migration, the ASA platform requires the following:

- The configuration from the PIX source.
- Cisco ASA Software Version 7.2 or later for the converted CLIs.



---

**Note** Cisco ASA Software versions earlier than 7.2(2) may also be specified as targets, but features in later versions (such as PPPoE and others), which are available on some PIX platforms, are not be handled by earlier ASA versions.

---

- Platform that supports Java Runtime Environment version 1.4.2 or later (such as Windows XP, 2003, Mac OS X, Linux, and so on). We recommend that the latest version of either Java 1.4.2, Java 5 (1.5), or Java 6 (1.6) be used. Java downloads may be obtained from <http://www.java.com/downloads> or from links on that page.

The following ASA target types are supported:

- ASA-5505
- ASA-5510
- ASA-5520
- ASA-5540
- ASA-5550
- ASA-5580

## Determining the Software Version

Use one of the following methods to determine the software version of your device:

- Use the **show version** command to verify the software version of your Cisco ASA 5500 Series Adaptive Security Appliance.
- Connect to the device using ASDM, and verify the software version in the Device Information box on the Device Dashboard tab of the Home page.

# Important Notes

This section lists important notes related to the Cisco PIX to ASA migration tool.

## Installation

The Cisco PIX-to-ASA migration tool is supported on Microsoft Windows, Red Hat Linux, or Mac OS X. You must have Java Runtime Environment version 1.4.2 or later installed. We recommend that the latest version of either Java 1.4.2, Java 5 (1.5), or Java 6 (1.6) be used. Java downloads may be obtained from <http://www.java.com/downloads>.



**Note**

Although the PIX-to-ASA migration tool is supported on Microsoft Windows, Red Hat Linux, and Mac OS X only, it may run on other platforms that support the required versions of Java.



**Note**

When you download the installation files shown in these instructions, the names of the downloaded installation files may include a version number. For example, you may download and use PIXtoASASetup\_1\_0.exe in the place of the PIXtoASASetup.exe file.

## Installing on Microsoft Windows

To install the Cisco PIX-to-ASA migration tool on Windows, perform the following steps:

- 
- Step 1** Download the `PIXtoASASetup.exe` file from the Cisco Software Center.
- Step 2** Double-click the `PIXtoASASetup.exe` file.  
The PIX-to-ASA migration tool installation wizard opens.
- Step 3** Click **Next**.  
The Destination Folder screen appears.
- Step 4** (Optional) To change the install location, perform the following steps:
- Click **Change**.
  - Browse to the desired installation location.
  - Click **OK**.
- Step 5** Click **Next**.  
The Setup Type screen appears. Select the setup type you prefer, and click **Next**.  
You can choose between a complete installation and a custom installation:
- Complete Installation—Installs all components. After clicking next, the Ready to Install Program screen appears. Go to [Step 7](#).
  - Custom Installation—You can choose the components you want installed. After clicking Next, the Custom Setup screen appears. Go to [Step 6](#).
- Step 6** (Optional) Select which components that you do not want installed by clicking the disk icon next to the component, selecting **This feature will not be available**, and then clicking **Next**. Click on a component name to see a description of the component.

**Note**


---

By default, all features are selected to be installed.

---

The Ready to Install the Program screen appears.

**Step 7** Click **Install**.

**Step 8** When the installation is complete, click **Finish** to close the Install Wizard.

**Tip**


---

To launch the Cisco PIX-to-ASA migration tool when you close the wizard, check the Launch PIX-to-ASA migration tool checkbox.

---

The Install Wizard adds a Cisco PIX-to-ASA migration tool folder to your Start menu. The folder contains shortcuts to the *Migrating Cisco PIX Configurations to Cisco ASA 5500 Series Configurations* document, the Cisco PIX-to-ASA migration tool, and the PIX-to-ASA migration tool uninstaller.

---

## Installing on Mac OS X

To install the Cisco PIX-to-ASA migration tool on Mac OS X, perform the following steps:

---

**Step 1** Download the `PIX_to_ASA.dmg` disk image file from the Cisco Software Center.

**Step 2** Double-click the `PIX_to_ASA.dmg` disk image file to mount it.

A PIX to ASA folder opens on your desktop. If not, double-click the **PIX to ASA** virtual disk icon that is on the desktop.

**Step 3** (Optional) Create a directory in which to store a permanent copy of the folder contents.

Although you do not need to keep a copy of the extracted files on your system, it is useful if you are going to use the scripting tools.

**Step 4** (Optional) Drag the contents of the folder to the folder you created. You can drag the `PIXtoASA.app` file to the Macintosh Applications folder to install the application.

The archive contains `PIXtoASA.app` (a Macintosh GUI application), an executable JAR for scripts, a Bourne shell script, and the user documentation in PDF format.

---

## Installing on Linux

To install the Cisco PIX-to-ASA migration tool on Red Hat Linux, perform the following steps:

---

**Step 1** Download the `PIXtoASA.zip` file from the Cisco Software Center.

**Step 2** Unpack the file with either the `unzip` or the `gunzip` application to the desired location.

The file contains a PDF file of the user documentation, a Bourne shell script that can be used to launch the application, and an executable JAR file.

---

# Caveats

The following sections describe the caveats for the Version 1.0.

For your convenience in locating caveats in the Cisco Bug Toolkit, the caveat titles listed in this section are drawn directly from the Bug Toolkit database. These caveat titles are not intended to be read as complete sentences because the title field length is limited. In the caveat titles, some truncation of wording or punctuation may be necessary to provide the most complete and concise description. The only modifications made to these titles are as follows:

- Commands are in **boldface** type.
- Product names and acronyms may be standardized.
- Spelling errors and typos may be corrected.



## Note

If you are a registered cisco.com user, view Bug Toolkit on cisco.com at the following website:

<http://www.cisco.com/support/bugtools>

To become a registered cisco.com user, go to the following website:

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

## Open Caveats

Table 1 lists the open caveats for Version 1.0.

**Table 1**      *Open Caveats*

DDTS Number	Caveat
CSCsq64590	It takes more than 2 minutes to convert a config of size 246 KB.
CSCsq64371	GUI hangs sometimes when run on Linux Red Hat.
CSCsq23343	Migrating PIX config to 5505 speed/duplex should be part of physical int Version (Max5): 000.014
CSCsr47540	PIX sub-interfaces to ASA 5505 warning.
CSCsr47542	Multiple context PIX not converted.
CSCsr08009	After copying a configuration through tftp, some commands may need to be rewritten to memory.
CSCs118083	The <b>vpngroup</b> commands are not converted to tunnel-group commands automatically. Even though this defect is resolved, it is not in currently shipping ASA software.
CSCsr52222	Disallow selection of non-default VLAN interfaces on ASA 5505 target.
CSCsr60738	Interface name begins with a numeral, the tool throws up an error.

## Workaround for CSCsq64371

If the processing session began from a shell session, as opposed to starting from double-clicking the JAR in a GUI file viewer, then the session may be suspended from the shell. To suspend a session in the background, some shells have a “foreground” (**fg**) command that will make a background process into a foreground process. With a foreground process, a key sequence, such as **Ctrl-Z**, will suspend the process. When the suspended process is restarted, it then redraws the screen and processes the current source configuration file to completion.

Alternatively, the **kill** command, with appropriate arguments, may be used to suspend and then resume processing. The process ID may be found with the **ps** command.

## Related Documentation

For additional information about the PIX-to-ASA migration tool, see the *Migration Guide for Converting Cisco PIX Configurations to Cisco ASA 5500 Series Configurations*.

For additional information about the Cisco ASA 5500 Series Adaptive Security Appliance, go to the following URL on Cisco.com:

[http://www.cisco.com/en/US/products/ps6120/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps6120/tsd_products_support_series_home.html)

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For any issues encountered during beta testing please notify the beta alias (pixtoasa-beta@cisco.com).

For information on obtaining documentation, obtaining non-beta support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly What's New in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

---

This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section.

CCDE, CCENT, Cisco Eos, Cisco Lumin, Cisco Nexus, Cisco StadiumVision, the Cisco logo, DCE, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn is a service mark; and Access Registrar, Aironet, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, CCVP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MGX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerPanels, ProConnect, ScriptShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0805R)

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

© 2008 Cisco Systems, Inc. All rights reserved.