



Cisco IronPort Encryption Flagging Plug-in User Guide

June, 2009

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

CCDE, CCVP, Cisco Eos, 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, 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, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, 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. (0801R)

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.

Cisco IronPort Encryption Flagging Plug-in User Guide
© 2008 Cisco Systems, Inc. All rights reserved.



CONTENTS

CHAPTER 1

Installing the Plug-In 1-1

What is the Send-Secure Outlook Plug-in for IronPort Encryption? 1-1

Supported Email Clients 1-1

Installing 1-1

Customizing the Product Prior to Installation 1-2

CHAPTER 2

Configuration 2-3

Configuration Parameters 2-3

Configuring Send-Secure Outlook Plug-in for IronPort Encryption 2-4

Method 1 2-4

Method 2 2-5

Switching Between Flagging Mechanisms 2-5

CHAPTER 3

Using the Desktop Plug-In 3-7

Sending a Secure Message 3-7



CHAPTER 1

Installing the Plug-In

Welcome to the Cisco IronPort Encryption Flagging Plug-in User Guide.

This chapter introduces the plug-in and contains instructions for installing Send-Secure Outlook Plug-in for IronPort Encryption. The following topics are covered:

- [What is the Send-Secure Outlook Plug-in for IronPort Encryption?](#)
- [Supported Email Clients](#)
- [Installing](#)

What is the Send-Secure Outlook Plug-in for IronPort Encryption?

The Send-Secure Outlook Plug-in for IronPort Encryption puts a “Send Secure” button in the menu bar of an Outlook mail message to provide an easy way for senders to mark messages to be IronPort encrypted and secured before it leaves the organization. This plug-in depends on the presence and proper configuration of a Cisco IronPort secure email appliance with an encryption license.

Supported Email Clients

The Send-Secure Outlook Plug-in for IronPort Encryption is supported on the following email clients:

- Microsoft Outlook versions 2003 and 2007 on Microsoft XP/Vista

Installing

To install the Send-Secure Outlook Plug-in for IronPort Encryption perform these steps:

- Step 1** Verify that the corresponding mail client is not running prior to starting the install process.
- Step 2** Download the OutlookDesktopFlag.msi installer.
- Step 3** The MSI installer file can be used to install the product or it can be customized prior to installation. Please refer to the section below on how to customize the product prior to installation as well as Chapter 2, Configuration.

- Step 4** Once the customization is done, or you have decided to install without customizations, double-click the .msi file to launch the installer. A message is displayed asking you to close the email client if the installer has detected that it is running. For more information on MSI command line options see:

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/msi/setup/command_line_options.asp

The installer can also be run from the command line (DOS prompt). Two options are available for the command line install:

- To do a normal install, simply invoke the MSI file
- To run in silent mode, add the “-q” parameter. For example:

```
<Installer msi> -q
```

This mode is useful for automatic deployment through packages such as Microsoft SMS.

**Note**

The product is always installed machine-wide for all users of the machine that have access to an email client.

- Step 5** After installation, restart your email client. The installer places a Send Secure button in the Outlook email client.

Customizing the Product Prior to Installation

The Send-Secure Outlook Plug-in for IronPort Encryption can be configured and customized via configuration parameters located in an XML configuration file. This XML configuration file is embedded inside the MSI installer package. The file is named “PostXOutlook.xml.” To customize the product prior to installation you need to do an admin install first, edit the XML configuration file, and then install on all desktops using the modified installer. The following steps outline how to do the admin install, modify the XML configuration file, and use the modified package to complete the installation.

- Step 1** To do an admin installation run the following command:
- ```
msiexec /a <Installer msi file as downloaded>
```
- This installer will ask you for a directory to explode the package. It is recommended that you explode the package to a shared network drive, modify the XML configuration file in this directory and then install from this network drive to all user machines.
- Step 2** Go to the above directory where the installer package has been expanded. Edit the XML configuration file in the IronPort directory under the current user's application data directory (...\\CommonAppData\\IronPort). For instructions on editing this file, refer to Chapter 2, Configuration.
- Step 3** Use the new installer MSI located in the root of the shared directory to complete your installation on all user machines. This installer will now use the modified files from the shared directory and install it on the user's machine.



## CHAPTER 2

# Configuration

This chapter discusses the following topics:

- [Configuration Parameters](#)
- [Configuring Send-Secure Outlook Plug-in for IronPort Encryption](#)

## Configuration Parameters

The Send-Secure Outlook Plug-in for IronPort Encryption is configured via configuration parameters located in an XML configuration file. By default, the file is located in an IronPort directory under the current user's application data directory:

```
.../<installed_username>/Application Data/IronPort
```

If the product is installed for multiple users (AllUsers mode), then the XML configuration file is located at:

```
.../<All Users>/Application Data/IronPort
```

The installer puts the XML file in the All Users directory. Then, the plug-in checks the current user's directory. If a version of the XML file exists in the user's directory, that version is used by the plug-in. If a version is not present, the plug-in copies the file to the current user's directory and uses that copy.

The table in this section contains the configuration parameters associated with the Send-Secure Outlook Plug-in for IronPort Encryption. The configuration file may contain other parameters not used by the Send-Secure Outlook Plug-in for IronPort Encryption.

Please refer to the description to determine if the parameters must be modified. Typically, the majority of parameters do not require editing since they are shipped pre-configured unless so desired.

.

| Parameter      | Default Value | Description                                                                                                           |
|----------------|---------------|-----------------------------------------------------------------------------------------------------------------------|
| SendButtonText | "Send Secure" | Specifies the text on the additional Send button added to the mail compose form.                                      |
| LoggingEnabled | False         | Enables logging for the Send-Secure Outlook Plug-in for IronPort Encryption. This is mainly used for troubleshooting. |

| Parameter         | Default Value | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enabled           | True          | Activates the Send-Secure Outlook Plug-in for IronPort Encryption functionality in the email client. If set to false the “Send Secure” button/action menu item is not shown.                                                                                                                                                                                                                                                                                                                                                |
| FlagForEncryption | True          | Enables flagging the message at the email client level. The flagging mechanism depends on other configuration entries.                                                                                                                                                                                                                                                                                                                                                                                                      |
| PrependToSubject  | [SEND SECURE] | Specifies the string that is prepended to the original email subject when flagging the email for encryption. If the string is empty and “FlagForEncryption” is true, the client uses different internal mechanisms to flag the message which are different for each email client. Please see the section <a href="#">Configuring Send-Secure Outlook Plug-in for IronPort Encryption</a> later in this chapter for more information.<br><br><i>Note:</i> This parameter must be modified to meet your specific environment. |
| SendKeysString    | {&s}          | In Outlook 2003, this is the keyboard shortcut used internally to simulate sending a message. This should only be changed on non-English versions of Outlook that use different shortcuts.                                                                                                                                                                                                                                                                                                                                  |
| FileSendString    | se&nd         | In Outlook 2007, this is menu command used internally to simulate sending a message. This should only be changed on non-English versions of Outlook that use different menu names.                                                                                                                                                                                                                                                                                                                                          |

## Configuring Send-Secure Outlook Plug-in for IronPort Encryption

Send-Secure Outlook Plug-in for IronPort Encryption contains two options for flagging each outgoing email for encryption:

### Method 1

You can prepend a string to the email's subject so that a rule on your IronPort mail gateway can trap the message and encrypt it before sending it out. On an Email Security Appliance (ESA) you can use a Content or Message Filter to match the subject, or on an IronPort Encryption Appliance (IEA) you can use a Subject Matcher.

The default XML configuration file is preconfigured to prepend “[SEND SECURE]” to the subject. You need not make any changes to the configuration if you want to prepend this string. If you want to prepend a different string to the subject, change the PrependToSubject option in the configuration file.



## Method 2

Rather than prepending the subject, you can elect to have the plug-in set the sensitivity flag in Outlook to be “Company-Confidential”

- Exchange will retain this flag for outgoing email and convert it to an Email header. The flagged emails will now have a header: “Sensitivity: Company-Confidential”
- You can set up a rule on your IronPort mail gateway to trap messages with this header and encrypt them before sending. On an Email Security Appliance (ESA) you can use a Content or Message Filter to match the header, or on an IronPort Encryption Appliance (IEA) you can use a Basic Matcher of type Header Equals.

## Switching Between Flagging Mechanisms

To switch between the two flagging mechanisms, you need to edit a section the XML configuration file. The installed XML file supports the subject prepending and therefore no changes are needed for it to work. You can also edit the configuration file and change the prepended subject text to whatever you want.

```
<property name="FlagForEncryption" type="Boolean"><![CDATA
[True]]> </property>

<property name="PrependToSubject" type="String"><![CDATA
[[SEND SECURE]]]> </property>
```

To use the second mechanism, make the "PrependToSubject" property empty. This will force it to use the second mechanism. See below:

```
<property name="FlagForEncryption" type="Boolean"><![CDATA
[True]]> </property>
<property name="PrependToSubject" type="String"><![CDATA[]]>
</property>
```





## CHAPTER 3

# Using the Desktop Plug-In

---

This chapter discusses the following topics:

- [Sending a Secure Message](#)

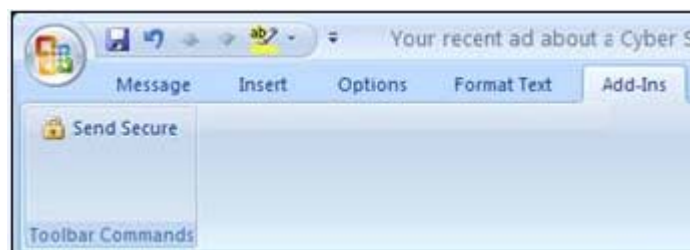
## Sending a Secure Message

The Send-Secure Outlook Plug-in for IronPort Encryption places a Send Secure button in the Outlook email client.

To send a secure message:

- 
- Step 1** Click the Compose New Button within your mail client as you would for any other message.
- Step 2** Click the Send Secure button after you have composed your message. For Outlook 2007, the Send Secure button is located in the Add-Ins tab as shown in [Figure 3-1](#).

**Figure 3-1**      *The Send Secure button on the Add-Ins Tab in Outlook 2007*







## INDEX

---

### A

AllUser mode [2-3](#)

---

### C

configuration parameters [2-3](#)

---

### D

Desktop Flagging Plug-in  
    configuring email subjects [2-4](#)  
Desktop Solution  
    configuration parameters [2-3](#)

---

### E

email clients  
    supported [1-1](#)  
Enabled [2-4](#)

---

### F

FileSendString [2-4](#)  
FlagForEncryption [2-4, 2-5](#)  
flagging mechanisms [2-5](#)

---

### I

installing [1-1](#)

---

### L

LoggingEnabled [2-3](#)

---

### M

Microsoft Outlook  
    versions supported [1-1](#)

---

### O

Operating Systems  
    supported [1-1](#)  
Outlook  
    2007 example [3-7](#)  
    Sensitivity [2-5](#)  
OutlookDesktopFlag.msi [1-1](#)

---

### P

PrependToSubject [2-4, 2-5](#)

---

### S

secure message  
    sending [3-7](#)  
SendButtonText [2-3](#)  
SendKeysString [2-4](#)  
SEND SECURE [2-4, 2-5](#)  
Send Secure button [3-7](#)

