



Email Protection Gateway™ VPG1500 Quick Start Guide

Pre-installation Considerations for Virtual EPGs

Before beginning installation of the virtual EPG, you must have the VMWare virtual server or the VMware ESX server installed on a system. To obtain the necessary information for installing these components, go to <http://www.vmware.com/>. The Abaca Virtual EPG is compatible with VMware Server up to version 1.0.3. It is not supported by VMware Server 1.0.4 due to a bug in the 1.0.4 release associated with the BusLogic drivers.

Installing the Virtual EPG

Installation of the EPG consists of these primary steps:

- Downloading a Virtual image onto your VMware server
- Using the web configuration wizard to configure your EPG
- Performing a final reboot to activate the settings

Verify Firewall Settings

If the virtual EPG is running on a host behind a firewall, verify that the following ports on the firewall are open to allow the EPG to function:

Port	Direction	TCP	UDP	Usage
22	IN	YES	NO	Remote diagnostics by Abaca support staff (recommended)
25	IN/OUT	YES	NO	Email delivery
53	OUT	YES	YES	Domain Name Service (DNS)
80	OUT	YES	NO	Virus signature updates
123	OUT	NO	YES	Network Time Protocol daemon access
7797	OUT	YES	NO	EPG connects to the Abaca Global Server

If the EPG is placed in a DMZ, or behind a firewall protecting the server that contains user email addresses, consult the Abaca document: Installing and Administering ABACA™ Email Protection Gateway. It can be downloaded from Abaca's support site at

http://support.abaca.com/downloads/install_admin_guide.pdf.1

Downloading the Virtual EPG Image¹

Download the V-EPG image from Abaca's support site at

<https://support2.abaca.com/VirtualEPGPortal/>

Step 1: Login

Login with the user name and password provided to you by Abaca. If you do not have your login information, contact Abaca support.

Step 2: Abaca Virtual Appliance Download Center

¹ The Virtual EPG Image can be converted to an ESX Image using the VMWare Converter. See Appendix A.

The next page shows the list of licenses available to you. The license file and the virtual appliance software must be downloaded for the virtual EPG to work properly. If you are in need of a new license, you may request a license by clicking the "Request New License & Configuration File" link. The page will refresh and you will receive an updated license in the Licenses table. Two downloads are required from this page:

- Download the Virtual appliance via the Download Virtual Appliance link above the licenses table. This download contains a compressed directory of files necessary to run the V-EPG in a VMware server environment.
- Download the license file link in the table under the License column to a directory that can be accessed by the VMware server.

Step 3: Logout of Abaca's download portal

The next steps involve uncompressing the download files and making them accessible to the VMware Server.

Uncompressing the Download Files

The downloaded virtual appliance files are contained in a compressed folder. Uncompress the Abaca virtual appliance folder. Next, move the uncompressed files and the license file (with the .vmx extension) to the directory where the VMware Server can access them. Typically, these files are placed under a created "virtual machines" directory. Make sure all four files are moved:

- *.vmd (virtual disk file)
- *.vmx (VMware configuration and Abaca license file)
- *.vmsd (stores information about snapshots)
- nvram (stores the state of the virtual EPG's bios)

Virtual EPGs are configured using a fixed MAC address. If the virtual EPG has MAC address conflicts with other virtual machines on a VMware Server, contact Abaca support to obtain a new virtual EPG configuration file.

Starting the V-EPG image with the VMware Server

From the VMware Server interface, start the virtual EPG machine. This will allow the virtual EPG to boot and prepare itself for use. When the virtual EPG boot sequence is complete, a login prompt is displayed:

```
epgate login:
```

When login prompt appears, the virtual EPG is ready to be configured. Open a web browser and continue the configuration using Abaca's web configuration wizard.

Using the Web Configuration Wizard

The Abaca EPG provides a Web based configuration wizard that allows initial configuration through an IE or Firefox web browser. The wizard is a series of web-based pages that walk you through the steps to set up the EPG, allowing protection from email viruses and spam. The steps involve:

- Adding network configuration
- Accepting the license agreement
- Creating administrative rights
- Setting the email domains to be protected

- Providing inbound and outbound relays
- Configuring the quarantine settings
- Determining the user validation configurations

Step 1. Completing the Network Configuration Page

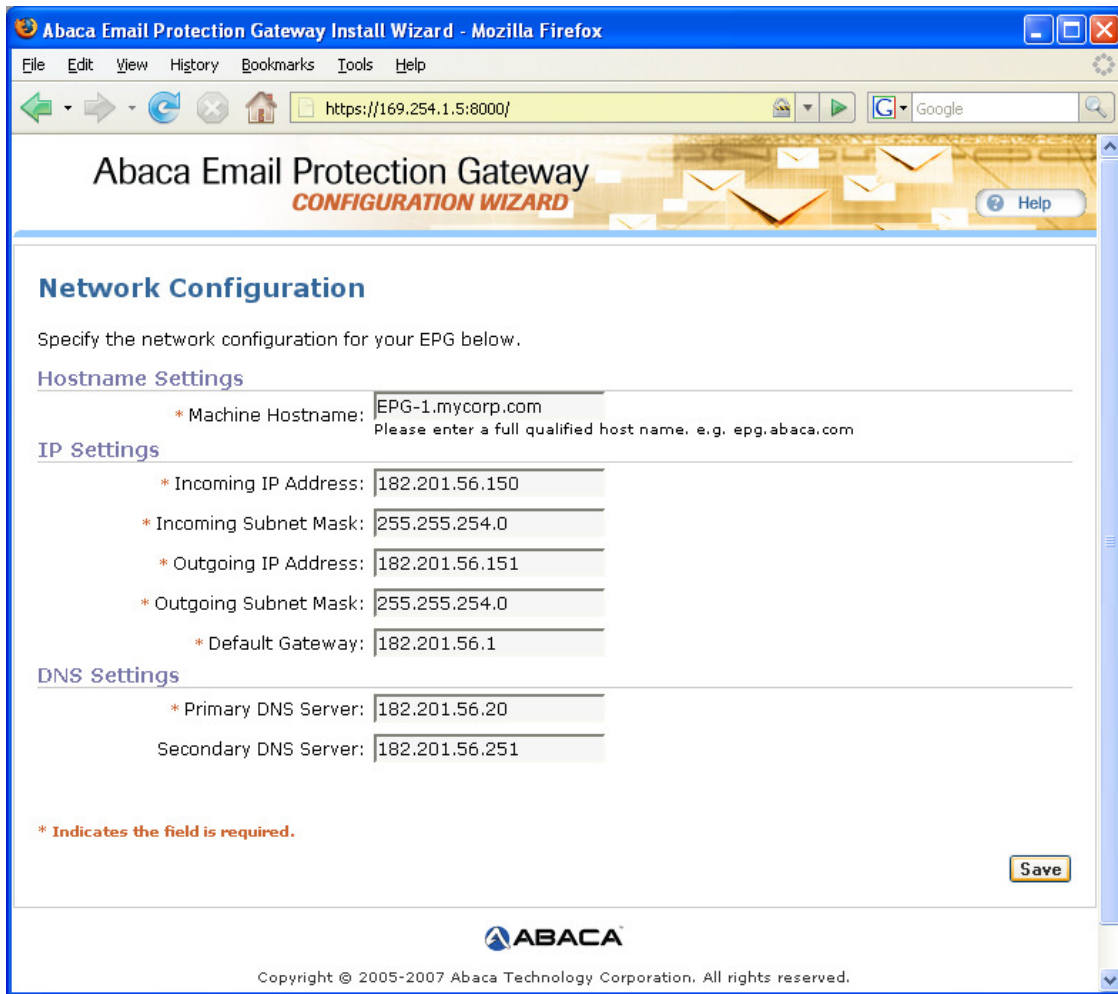
A default IP address has been created to allow web access to the Abaca EPG. The default IP address is **169.254.1.5** and a subnet mask of **255.255.0.0**. To access the EPG, open a web browser from a system that is on the same network as the EPG and insert the default IP address in a secure HTTP connection, accessing port 8000. Make sure the subnet mask of that machine is set to **255.255.0.0** as well:

<https://169.254.1.5:8000>

If the EPG is being serviced by a DHCP server, you need to obtain the address leased to the EPG by the DHCP server and use that address in place of the one above.

This will open the Network Configuration Page and allow you to add the EPG to the network. The information to provide includes:

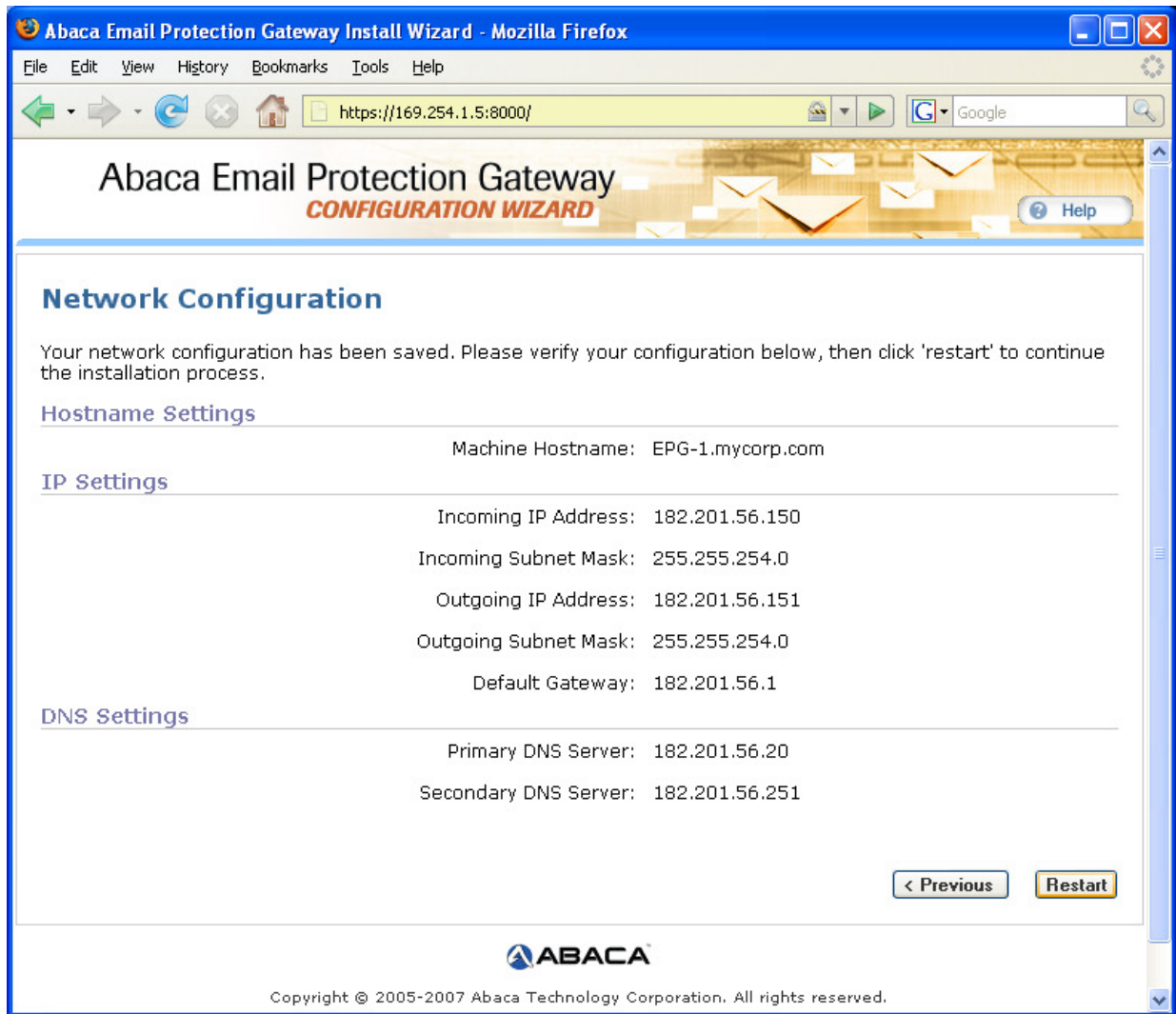
- The hostname
- Incoming IP address – used by the EPG to receive mail from the internet
- Incoming IP's Subnet Mask
- Outgoing IP address – used by the EPG to receive mail from your mail server
- Outgoing IP's Subnet Mask
- Default Gateway
- Primary DNS server
- Secondary DNS server



Refer to your networking policies to determine the proper IP addresses. Once the information is entered, save it by clicking the Save button at the bottom.

Step 2. Restarting the EPG after Completing the Network Configuration Page

After saving the information, a summary of the entered network configuration is displayed. If the information is correct, click on the Restart button to continue the configuration process. If any information is incorrect, click on the Previous button to change the information. Upon a restart, the EPG will now use the entered network settings and take you to the Welcome page.



Step 3. Completing the Welcome Page

The Abaca EPG appliance will restart and automatically take you through the next steps of the configuration process. Upon restart, the Welcome Page and License agreement is shown. Read and accept the terms of the License Agreement before proceeding to the next steps that configure the EPG. To accept the terms of the license, click on the button that says "I accept".

The screenshot shows a Mozilla Firefox browser window titled "Abaca Email Protection Gateway Install Wizard - Mozilla Firefox". The address bar shows the URL "https://182.201.56.150:8000/". The page content includes a header with the title "Abaca Email Protection Gateway CONFIGURATION WIZARD" and a "Help" button. Below the header is a "Welcome!" section with a paragraph of introductory text and a link to an "Installation and Administration Guide". A large text area contains the license agreement text, which is partially obscured by a diagonal hatching pattern. At the bottom of this text area are two buttons: "I Decline" and "I Accept". Below the license agreement text is a paragraph stating that the license agreement can also be found at a specific URL. The footer of the page features the ABACA logo and the copyright notice "Copyright © 2005-2007 Abaca Technology Corporation. All rights reserved."

Step 4. General Information Page

The next page sets the administrative login/password for access to the EPG in order to manage the system through its Administrative Dashboard web interface. Add the correct information to the required fields and click on the "Next" button to access the next web page.

Abaca Email Protection Gateway Install Wizard - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://182.201.56.150:8000/ Google

Abaca Email Protection Gateway CONFIGURATION WIZARD

Help

General Information

Please enter the administrator's email address and desired login name and password for EPG's web-based administration console. Also specify the time zone in which the Email Protection Gateway is located and its external IP address.

* Admin Email:
Alerts from the Email Protection Gateway will be sent to this email address

* Admin Login:

* Admin Password:

* Verify Password:


* Time Zone:

Expected External Inbound IP:

This is external, or public IP address on which the Email Protection Gateway will be accessible outside the private network. Typically, this is the same IP address as the primary MX.

* Indicates the field is required.

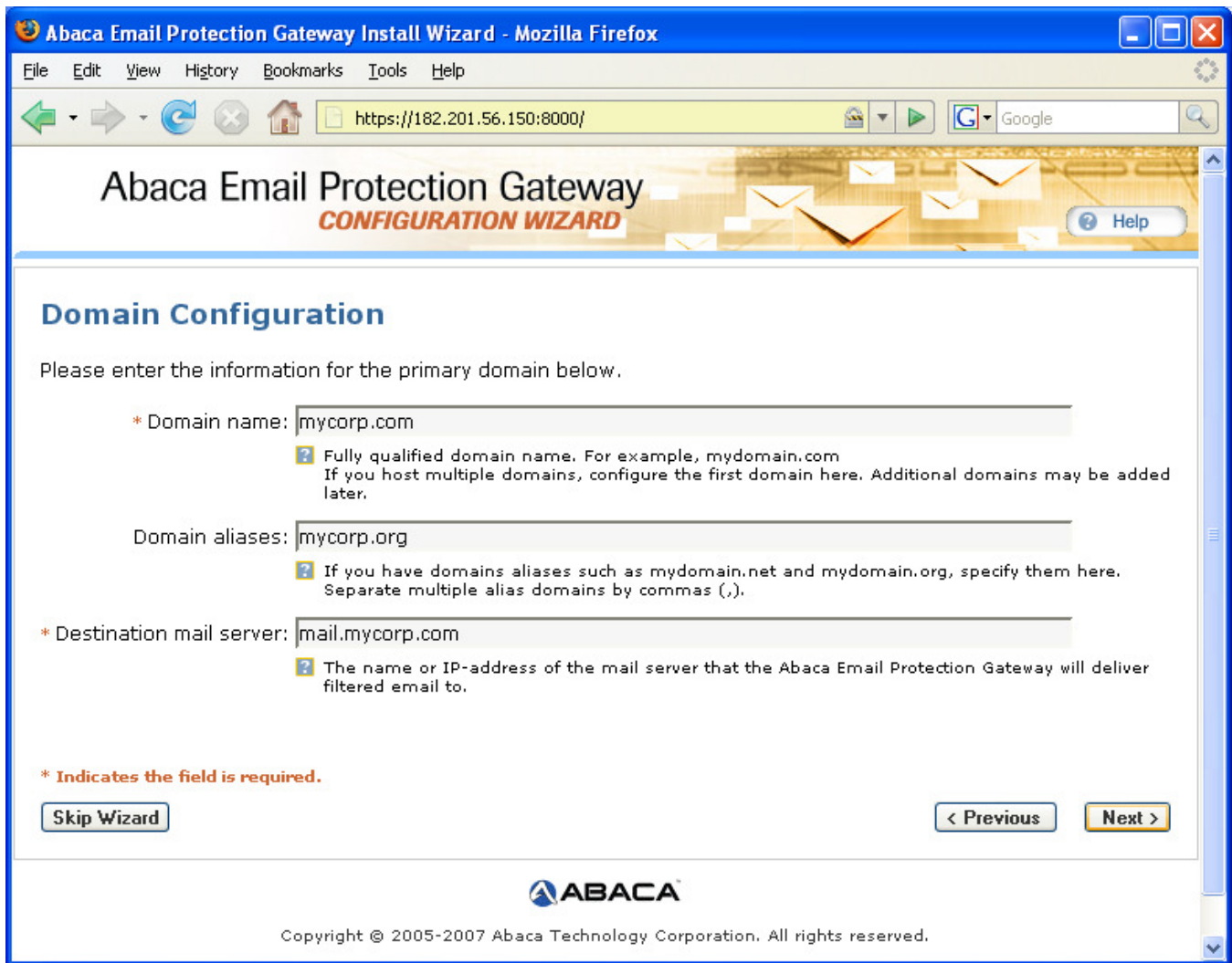
Next >



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Step 5. Domain Configuration Page

This page configures the corporate domain and the email server system name. The text fields can be either IP addresses or fully qualified names that can be resolved by your DNS server. If your domain is known by more than one name, add the additional names in the Domain Alias text field. Add the fully qualified name of the email server whose mail will be protected by the EPG.



Step 6. Relay Configuration Page

This page allows you to connect the EPG to incoming mail relays and outgoing mail relays. Not all networks have an incoming or outgoing relay. If your network has neither, leave the fields blank. Incoming mail relays would be registered MX servers or other SMTP servers in your network that would process incoming email before it is delivered to the actual mail server. Outgoing mail relays could be an ISP server acting as a gateway to the internet.

Abaca Email Protection Gateway Install Wizard - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://182.201.56.150:8000/ Google

Abaca Email Protection Gateway CONFIGURATION WIZARD

Help

Relay Configuration

The Email Protection Gateway must know about all MX servers for the protected domain(s), and any other SMTP gateways that process mail prior to Email Protection Gateway. Such SMTP gateways may be a virus scanner, email archiving solution, etc.

Incoming mail relay IPs:
(Optional)

182.201.55.150, 182.201.55.115

? The IP-address(es) of the registered MX server(s) and any other SMTP server in your network that process email before received by Email Protection Gateway. Separate multiple entries with commas (.).

If all your outgoing mail from EPG is relayed through another mail server, enter the relay server's address below:

Outgoing-Relay server:
(Optional)

182.201.55.250

? If you want to send outbound mail through an ISP (or other relay), specify the IP-address or fully qualified hostname of that relay server. All outbound mail sent from Email Protection Gateway will be relayed through this server. Leave empty if there is no outgoing relay.

* Indicates the field is required.

Skip Wizard < Previous Next >

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Step 7. Quarantine Configuration Page

This page configures the location of the email quarantine and the method by which a mail user accesses their individual quarantined accounts. The authentication options are POP3, LDAP, or using no authentication. The page also provides the ability to establish a master account to access

all of the quarantined email. A common method is to store the quarantine data on the EPG system itself; therefore, you would insert the fully qualified name of the EPG server for the Hostname field

Abaca Email Protection Gateway
CONFIGURATION WIZARD

Quarantine Configuration

By default, Email Protection Gateway stores spam in user quarantine accounts. These accounts can be accessed with a Web browser.

Specify the desired fully qualified hostname for the quarantine. The hostname should be available in your internal DNS and if the quarantine should also be accessible from the Internet, make sure the hostname is also added to the public DNS.

Hostname:

Example: q.par-mail.lab.abaca.com. Make sure the hostname is specified in your external DNS.

use secure connection (HTTPS)

Quarantine User Authentication

To secure access to user quarantine accounts, Email Protection Gateway uses either LDAP or POP3 authentication. If POP3 authentication enabled, Email Protection Gateway passes a user's POP3 credentials to a POP3 server. If the POP3 server accepts the credentials, the user is allowed access to the quarantine. In most cases, the POP3 server is the same as the destination mail server. In the case of LDAP authentication, the Email Protection Gateway must be configured for LDAP for the mail server authentication scheme. The Email Protection Gateway will attempt to connect to the LDAP server using the user's LDAP credentials. If the connection is successful, the user is allowed access to the quarantine. If this option is selected, User Authentication in the next step of this wizard should use LDAP.

POP3 Authentication POP3 server address:

LDAP Authentication

Off

Master Quarantine Authentication

Optionally, you may specify a master quarantine username and password that accesses any user's quarantine.

Master quarantine username:

Master quarantine password:

* Indicates the field is required.

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Step 8. Validation Configuration Page

The next page sets the user validation model used by the mail server so that the EPG can validate if incoming email is intended for actual users of the mail server. Select the type of authentication that your mail server uses. The selection is performed by clicking one of the following options in the web page:

- Active Directory LDAP
- Exchange 5.5 LDAP
- Zimbra LDAP

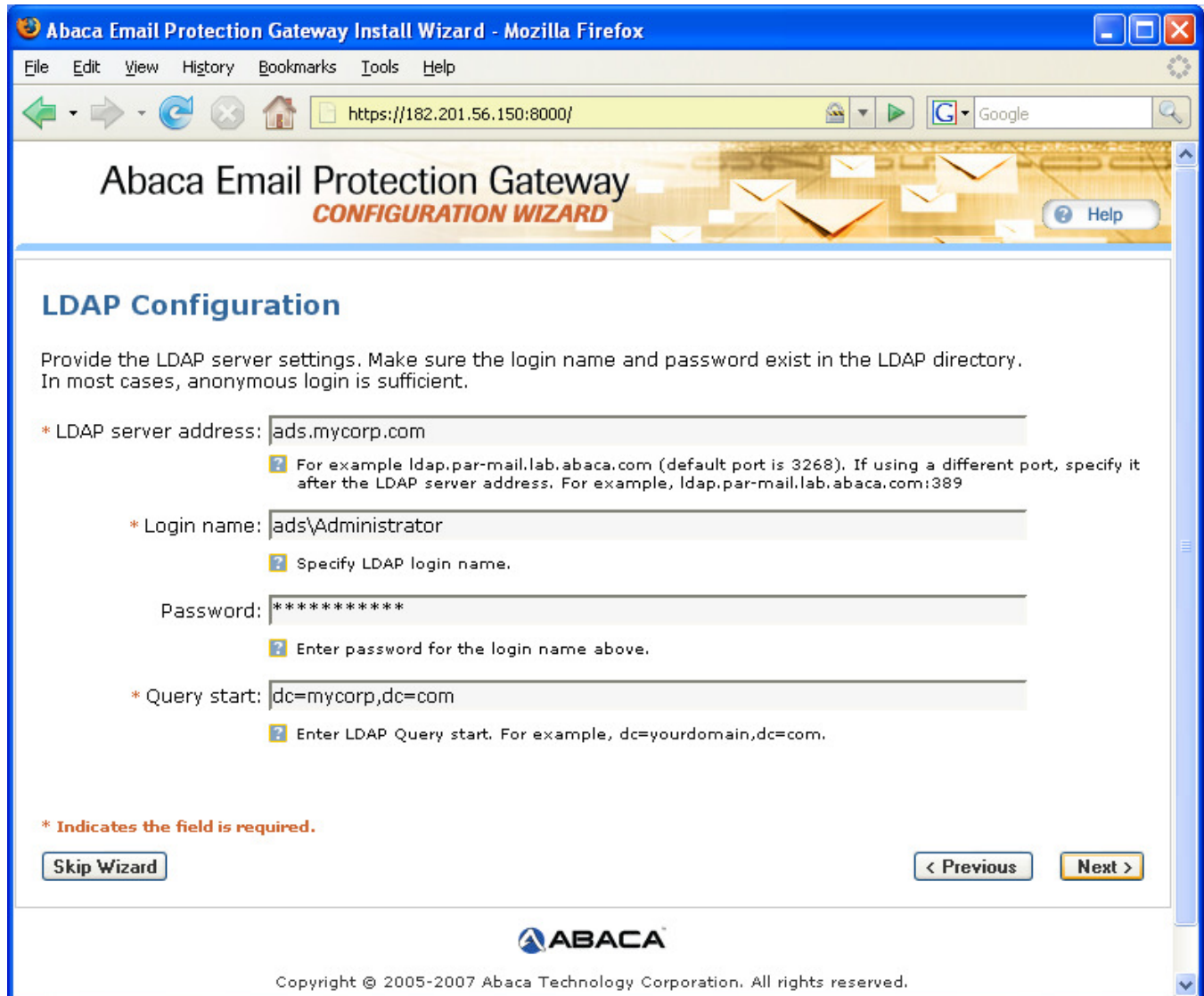
- EXPN/VERFY – recommended for IBM Lotus Domino servers
- Password/Alias authentication – recommended if you don't have any of the above authentication servers

The screenshot shows a Mozilla Firefox browser window titled "Abaca Email Protection Gateway Install Wizard - Mozilla Firefox". The address bar displays "https://182.201.56.150:8000/". The page content includes the title "Abaca Email Protection Gateway CONFIGURATION WIZARD" and a "Help" button. The main section is titled "User Validation Configuration" and contains the following text: "Abaca Email Protection Gateway needs to know the valid email users in your domain. LDAP is the preferred method and is supported by Microsoft Active Directory." Below this text are five radio button options: "Active Directory LDAP" (selected), "Exchange 5.5 LDAP", "Zimbra LDAP", "EXPN/VERFY (recommended for IBM Lotus Domino)", and "Use passwd and aliases files (recommended if your mail server does not support any of the above methods)". A note at the bottom left states "* Indicates the field is required." At the bottom of the wizard are three buttons: "Skip Wizard", "< Previous", and "Next >". The footer features the ABACA logo and the text "Copyright © 2005-2007 Abaca Technology Corporation. All rights reserved."

Step 9. LDAP Configuration Page

This page appears if you use LDAP as the mail server authentication scheme or as the quarantine authentication scheme. If you use the EPG in conjunction with an Exchange Server, this is typically the configuration you would have.

- If you selected EXPN/VRFY in the previous page, you would be directed to the Configuration Complete page.
- If you selected password/alias files, you would be directed to the Password and Alias File Configuration page.



The screenshot shows the 'Abaca Email Protection Gateway CONFIGURATION WIZARD' in a Mozilla Firefox browser window. The URL is https://182.201.56.150:8000/. The page title is 'LDAP Configuration'. Below the title, there is a brief instruction: 'Provide the LDAP server settings. Make sure the login name and password exist in the LDAP directory. In most cases, anonymous login is sufficient.'

The form contains the following fields and instructions:

- * LDAP server address:**
For example ldap.par-mail.lab.abaca.com (default port is 3268). If using a different port, specify it after the LDAP server address. For example, ldap.par-mail.lab.abaca.com:389
- * Login name:**
Specify LDAP login name.
- Password:**
Enter password for the login name above.
- * Query start:**
Enter LDAP Query start. For example, dc=yourdomain,dc=com.

At the bottom left, there is a note: '* Indicates the field is required.' Below this are three buttons: 'Skip Wizard', '< Previous', and 'Next >'. The footer includes the ABACA logo and the text: 'Copyright © 2005-2007 Abaca Technology Corporation. All rights reserved.'

Step 10. Configuration Complete Page

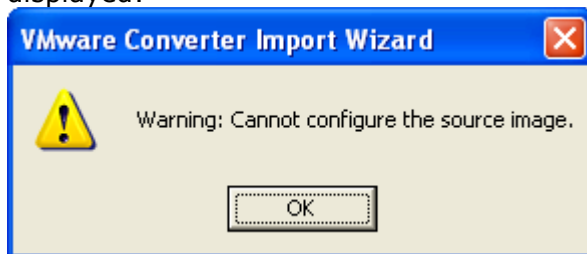
The final page provides additional information that allows the EPG to become integrated within your network. As a final step, click the "Start Now" button, to restart the EPG and allow the configuration to become active.

Once the system has rebooted, you can use the ping command to check if your EPG has been successfully integrated into your network.

Appendix A: Installing the Abaca Virtual EPG image on the ESX Server

The Virtual EPG image downloaded from Abaca is configured for ESX Server compatibility. It cannot however be used exactly as is without being converted using the VMware Converter. The steps below will guide you on converting the Virtual EPG image into an ESX Server image. Please contact Abaca Support support@abaca.com or @ 408-571-6400 if you have questions regarding this process.

1. Download the VMware Converter from <http://www.vmware.com/download/converter/>
2. Install and Run the VMware Converter
3. On the top Left of the VMware Converter window, Press the "Import Machine" button.
4. Press the **Next** button on the first screen
5. At the **Step1: Source** screen select the **Next** button
 - a. **Source Type:** Select "Standalone virtual machine, backup or diskimage", the last option and press **Next**
 - b. **Virtual Machine:** Browse to the location of the Virtual EPG that was downloaded from the Abaca Website
 - c. Select the .vmx file associated with the image (such as abaca_epg_virtual_1500_8384.vmx) and press the **Next** button
 - d. The VMware converter will display a message, "Retrieving Operating System Information", after which the source data screen will be displayed.
 - e. **Source Data:** Leave the option "Import all disks and maintain size" selected and press the **Next** button
6. At **Step2: Destination** screen, select the **Next** button
 - a. **Destination Type:** Leave the "VMware ESX server or VirtualCenter virtual machine" option selected and press the **Next** button.
 - b. **Destination Login:** Enter the information requested to connect to the ESX Server
 - c. **VM Name:** Enter the new name of the Virtual machine on the ESX Server, it is recommended that you use either the words Abaca or EPG in the name to allow you to easily identify the machine at a future date.
 - d. **Host:** Select the host or resource pool that will run the virtual machine
 - e. There will be a message, "Getting the target size", after which it will display the Datastore screen.
 - f. **Datastore:** Select the datastore to be used and press the Next button.
 - g. The following messages will be displayed: "Checking destination availability", "Verifying destination parameters". The following warning dialog may also be displayed:



The warning can be ignored. Press OK to continue.

- h. **Networks:** Select atleast 1 Network Interface Card (NIC) and press **Next** to continue
7. At **Step3: Customization**, select the Next button to continue.
 8. **Ready to Complete**, press Finish button to start the process of converting the Virtual EPG image into an ESX image.
 9. The process should take 15-20 minutes to complete.
 10. After the process is complete, start the virtual machine.
 11. Login to the virtual machine using ssh or from the console
 - a. Login: admin
 - b. Password: SPAM@abaca.com
 12. Run the following command: `/epgate/support/bin/get_box_id` and note the 4 character id that is displayed.

13. Contact Abaca Support support@abaca.com or @ 408-571-6400 and provide the 4 character id to setup the license for the virtual machine.
14. Read the "Using the Configuration Wizard" section of this guide to configure the Virtual Abaca EPG.