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All rights reserved.
This installation guide contains instructions for installing and configuring Candle’s PathWAI™ Editor for Messages product on Windows and UNIX.

Who should read this book

This guide was written for those who install and configure Candle products. Installers should have a working knowledge of the operating system and a basic knowledge of networking.

Installers should know the planned configuration for their Candle products or be able to acquire this information from their System Administrator.

Scope of this guide

This product requires prior purchase and installation of third-party software. It is beyond the scope of this guide to instruct you in how to install or configure non-Candle software.

Documentation set information

In addition to this installation guide, the PathWAI™ Editor for Messages documentation set includes:

- PathWAI Editor for Messages User’s Guide

  Contains instructions for using PathWAI Editor to manage WebSphere MQ and Java Message Service queues and to edit and create messages on the queues.
- *Message Format Editor User’s Guide*

  Introduces the editor used to create the message format definitions PathWAI Editor needs to parse and format messages and provides instructions for using it to create definitions for XML and non-XML message formats.

  These documents are located on the product CD. To access the books, open *Candle.pdf* in the root directory and select the appropriate document. If you want to copy the books to a local machine, copy both *Candle.pdf* and the *docs* directory.

**Where to look for more information**

For more information related to this product and other related products, please see the

- technical documentation information available on the Candle Web site at www.candle.com
- online help provided with this and the other related products
- the resources referenced in the preface to the *PathWAI Editor for Messages User’s Guide*

**We would like to hear from you**

Candle welcomes your comments and suggestions for changes or additions to the documentation set. A user comment form, located at the back of each manual, provides simple instructions for communicating with the Candle Information Development department. You can also send email to UserDoc@candle.com. Please include "PathWAI Editor for Messages Installation Guide" in the subject line.
Adobe Portable Document Format

Printing this book
Candle supplies documentation in the Adobe Portable Document Format (PDF). The Adobe Acrobat Reader will print PDF documents with the fonts, formatting, and graphics in the original document. To print a Candle document, do the following:

1. Specify the print options for your system. From the Acrobat Reader Menu bar, select **File > Page Setup**... and make your selections. A setting of 300 dpi is highly recommended as is duplex printing if your printer supports this option.

2. To start printing, select **File > Print**... on the Acrobat Reader Menu bar.

3. On the Print pop-up, select one of the **Print Range** options for
   - All
   - Current page
   - Pages from: [ ] to: [ ]

4. (Optional). Select the Shrink to Fit option if you need to fit oversize pages to the paper size currently loaded on your printer.

Printing problems?
The print quality of your output is ultimately determined by your printer. Sometimes printing problems can occur. If you experience printing problems, potential areas to check are:

- settings for your printer and printer driver. (The dpi settings for both your driver and printer should be the same. A setting of 300 dpi is recommended.)
- the printer driver you are using. (You may need a different printer driver or the Universal Printer driver from Adobe. This free printer driver is available at www.adobe.com.)
- the halftone/graphics color adjustment for printing color on black and white printers (check the printer properties under **Start > Settings > Printer**). For more information, see the online help for the Acrobat Reader.
- the amount of available memory in your printer. (Insufficient memory can cause a document or graphics to fail to print.)

For additional information on printing problems, refer to the documentation for your printer or contact your printer manufacturer.


Adobe Portable Document Format

Contacting Adobe
If additional information is needed about Adobe Acrobat Reader or printing problems, see the Readme.pdf file that ships with Adobe Acrobat Reader or contact Adobe at www.adobe.com.

Adding annotations to PDF files
If you have purchased the Adobe Acrobat application, you can add annotations to Candle documentation in .PDF format. See the Adobe product for instructions on using the Acrobat annotations tool and its features.
Candle Customer Service and Satisfaction

Background
To assist you in making effective use of our products, Candle offers a variety of easy-to-use online support resources. The Candle Web site provides direct links to a variety of support tools that include a range of services. For example, you can find information about training, maintenance plans, consulting and services, and other useful support resources. Refer to the Candle Web site at www.candle.com for detailed customer service information.

Candle Customer Service and Satisfaction contacts
You will find the most current information about how to contact Candle Customer Service and Satisfaction by telephone or e-mail on the Candle Web site. Go to www.candle.com support section and choose the link to Support Contacts to locate your regional support center.
Introduction

This chapter provides a brief description of the PathWAI Editor for Messages product and specifies the prerequisites for installing and running it.

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PathWAI Editor for Messages is a suite of tools for generating, editing, and managing messages in WebSphere MQ and JMS messaging environments. These tools enable you to quickly and easily create messaging scenarios to test applications before you deploy them and help you diagnose and correct problems with messages sent by applications already in production.

PathWAI Editor comprises:

- **a message editor**
  
  The PathWAI Editor agent acts as a web server, providing browser access to the WebSphere MQ queue managers and JMS providers on its host. This means you can access resources on another system by simply logging on to a PathWAI Editor server on that system.

  When you open a queue, PathWAI Editor lets you view, edit, and create messages in it in meaningful formats, as well as in byte-oriented streams of character or hexadecimal data.

  The message editor is described in detail in the *PathWAI Editor for Messages User’s Guide*, which also contains instructions for using it to edit, create, and manage messages.

- **a message format editor**
  
  PathWAI Editor uses user-provided descriptions of message structures, called message format definitions, to parse, format, and validate messages. You create these definitions using the Message Format Editor. In addition to tools for creating message format definitions, the format editor provides directory services and namespace organization for the metadata repository in which those definitions are stored. The message format definitions in the repository can be shared through a central LDAP server or accessed through local configuration files.

  The format editor and the metadata repository are described in detail in the *Message Format Editor User’s Guide*, which also contains instructions for using the editor to create message format definitions for XML and non-XML messages.
an LDAP directory and supporting software

In order to effectively create, share, and use message formats across the enterprise, an enterprise-wide repository of message format definitions is essential. PathWAI Editor includes an LDAP (light-weight directory access protocol) directory that you can use for this purpose if you do not already have one. If you do not need to share definitions widely, you can store message format definitions in a flat (LDIF) file.

Instructions for managing the LDAP server can be found in the PathWAI Editor for Messages User’s Guide.

Note: The Message Format Editor and the LDAP directory and supporting services are part of a specially packaged toolkit named Candle Application Services Pac, which consists of selective features from Candle’s existing CandleNet eBusiness Platform (eBP) family of products. For this reason, you may see both the terms CASP and CandleNet eBP as you install and configure the product.
Prerequisites

Overview
This section documents the prerequisite software for using PathWAI Editor for Messages and the required user authorizations.

Operating Systems
The PathWAI Editor agent and the LDAP server may be installed on the following operating systems:

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Versions Supported</th>
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<tbody>
<tr>
<td>Windows</td>
<td>Windows NT with Service Pack 5 or higher</td>
</tr>
<tr>
<td></td>
<td>Windows 2000 with Service Pack 1 or higher</td>
</tr>
<tr>
<td>AIX</td>
<td>Version 4.3.3 or higher</td>
</tr>
<tr>
<td>HP-UX</td>
<td>Version 11 or higher</td>
</tr>
<tr>
<td>Solaris</td>
<td>Version 2.7 or higher</td>
</tr>
</tbody>
</table>

The Message Format Editor may be installed only on Windows. The Message Format Editor must be installed on at least one machine in your network if you want to use message format definitions for message display and creation.

The Candle installation scripts require that a Korn shell be installed and operational on a UNIX machine on which you are installing the product, but you do not need to run the Korn shell on your console. You may use any shell that is shipped with the UNIX operating system. Third-party vendor shells such as BASH and TCSH are not supported.
Prerequisites

Third-Party Software

Messaging systems
PathWAI Editor requires that one or both of the following messaging systems be installed:

<table>
<thead>
<tr>
<th>WebSphere MQ</th>
<th>Version 5.2 with IBM Support Pac MA88, or Version 5.3 with the JMS option specified</th>
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<tr>
<td>Any non-IBM JMS implementation</td>
<td>For example, WebLogic or Sun One</td>
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Java Environment
The following Java packages are required:

<table>
<thead>
<tr>
<th>Java Runtime Environment (JRE)</th>
<th>All Language Version 1.3.1 or above</th>
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<tr>
<td></td>
<td>This Java package is required for any PathWAI Editor for Messages installation.</td>
</tr>
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</table>

Browser
You can log on to the PathWAI Editor for Messages server using Internet Explorer Version 6.0 or higher. The browser should be configured to use a Java plug-in at the 1.3.1 level or above.

Permissions
To start the PathWAI Editor for Messages server on Windows and Unix, a user must have full administrative access to WebSphere MQ (that is, must be a member of the mqm group).

On Windows, this user must also have the authority to “Act as part of the operating system” if server security is set to validate the user passwords. On Unix, no special privileges are required. On OS/390, user access rights need to be administered using OAM/RACF.

For validating passwords on UNIX, the required privileges depend on a number of factors. In general, the user that starts the server needs to have the ability to look up user passwords. This may be system or environment...
Prerequisites

dependent. For example, in an NIS environment, no special privileges may be needed. Otherwise, on AIX, the user will need read access to the 
/etc/security/passwd file. You should therefore check with the system administrator to determine what privileges are needed by this user.

Users do not need to belong to the mqm group to log on to the PathWAI Editor for Messages server. Users need only be given access to perform the specific functions they need to. At a minimum, PathWAI Editor users need get, browse, and put access to the SYSTEM.DEFAULT.MODEL.QUEUE.
Introduction

This chapter contains step-by-step instructions for installing PathWAI Editor for Messages on Windows NT/2000.

Before You Begin

Your Windows logon ID must be a member of the Administrators system group.

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Step 1. Start setup.exe

In this step you will start the setup.exe installation program and specify the target directory for the PathWAI Editor for Messages software.

Follow these steps:

1. Log on to Windows and close any running applications.

2. Insert the PathWAI Editor for Messages CDROM into your CDROM drive. Installation begins automatically. (If the installer does not start, go to the CD directory WINDOWS and run setup.exe.) If setup.exe initialization fails, you do not have enough disk space to decompress the setup files. A minimum of 6 Mb of free space is required on your hard drive.

The Setup Options dialog appears.

3. Select (click) Install the Product.

There will be a short wait while Setup prepares the Install Shield wizard.

4. When the Welcome panel opens, click Next to continue.

5. When the Acknowledge Copyrights and Restricted Rights dialog opens, read the software license agreement and click Next to acknowledge its terms.

The Choose Destination Location panel is displayed.

6. Specify the target drive and directory where you want to download the PathWAI Editor for Messages software. The default is:

   C:\Program Files\Candle

   Candle recommends that you use the default directory and the remaining steps in this guide assume the default name. If you change the directory name, make a note of the new name for your reference:

   PathWAI Editor for Messages Directory: ________________________________

7. Click Next to continue.

The Select Component dialog is displayed.
Step 2. Select Components

In this step you will choose the PathWAI Editor for Messages components you want to install locally.

Follow these steps:

1. Select (check) the PathWAI Editor for Messages components that you want to install on this machine. You may install all components at once, any combination of components, or any single component.

The components are described below.

- **PathWAI Editor for Messages**
  This component provides a full-function editor for editing, creating, and managing messages in queue-based messaging environments.

- **Message Format Editor**
  This component provides the editor used to create the message format definitions that define how messages are parsed and formatted by the message editor. Your site should install at least one Message Format Editor.

- **CASP Directory Services**
  This component is an LDAP directory and supporting software that can be used to house the repository of message format and message filter definitions used by the message editor.

  Your site should have at least one directory within your PathWAI Editor for Messages network. You may install the directory locally, or use a directory installed on another machine. You may also use a third-party directory or a flat (LDIF) file to house the definitions, but a directory is recommended.

2. Click **Next** to continue.

   The Select Program Folder is displayed.

3. Candle recommends that you accept the default program folder shown, but this is not required. If you change the program folder name, make a note of the new name for your reference:

   **Program Folder Name:** ________________________________

4. Click **Next** to continue.

   The **Start Copying Files** dialog is displayed.

5. Verify the installation settings shown and click **Next** to continue.

   The PathWAI Editor for Messages software is copied to disk.
Step 2. Select Components

6. When the software has been copied, click OK to configure PathWAI Editor for Messages components.
   The PathWAI Editor for Messages Configuration dialog appears.
Step 3. Configure PathWAI Editor

In this step you will configure PathWAI Editor. Using the PathWAI Editor for Messages Configuration dialog, you will:

- Specify the location of the local Java run-time libraries
- Identify the messaging environment (WebSphere MQ, JMS, or both) and specify the location of the messaging software and queue managers (WebSphere MQ) and/or Java class path (JMS)
- Set security options for the PathWAI Editor server
- Specify the server’s port number
- Identify the directory or file where the repository of message format and filter definitions should be housed

You can reconfigure these settings at any time using the PathWAI Editor configuration tool, as described in the PathWAI Editor for Messages User’s Guide.

Follow these steps:

1. In the **Java Version** field, verify the version number your local JRE installation.
2. Select the messaging environment (WebSphere MQ, JMS, or both).
3. For WebSphere MQ, verify the pathname of the installation directory and the location of the queue managers. For JMS, specify the location of the Java classes for the implementation.
4. Optionally, set the security option described below.
   
   **Enable UserID/Password validation** The user must provide a valid Windows user ID and password to use PathWAI Editor.
5. In the **MsgEdit server port number** field, specify the TCP/IP listening port that you want to assign to the PathWAI Editor server.
6. Specify whether an LDAP Directory or a file will house the repository containing message format and message filter definitions used by PathWAI Editor will be housed.
Step 3. Configure PathWAI Editor

You may use the new local directory installed in Step 2, or you may use an existing directory on the local machine or any other machine in your site’s PathWAI Editor for Messages network. You may also use a local flat (LDIF) file as a repository.

If you select an LDAP directory, verify or specify:

- the host on which the directory is located
- the port number assigned to the LDAP directory
- the user ID and password PathWAI Editor should use to connect to the directory.

If you select a file, a file named msgedit.ldf is created in

<\candlehome>\msgedit\bin.

You can reconfigure the server to use a different directory at a later time.

7. In the **CASP Partition** field, enter the partition name or your site’s domain name or accept the default, candle.com. If you are using your site’s domain name, check **Partition is a Domain Name**.

8. Click **Apply** to continue and wait for this message:

   **Global variables have been set.**

9. Click **OK**.
Step 4. Configure a Local Directory

If you are not installing a local LDAP directory at this time, skip this step and turn to “Step 5. Reboot” on page 24.

In this step you will configure a local LDAP directory. This step is required only if you selected the CASP Directory Services component in “Step 2. Select Components” on page 19.

The Candle PathWAI Editor for Messages Configuration dialog is displayed. Follow these steps:

1. Under Business Directory Configuration, verify or specify the following:
   - **Port Number** The TCP/IP listening port that you want to assign to the directory server.
   - **User ID** The user ID of the directory administrator.
   - **Password** The password for the above ID.

2. In the Business Partition field, accept the candle.com default shown or the partition specified in “Step 3. Configure PathWAI Editor” on page 21.

3. Click OK.
   The installer will ask you if you want to see the results of the seeding operation.
Step 5. Reboot

PathWAI Editor for Messages is installed as a Windows service and is started automatically when you reboot. Candle recommends that you run the server as a service, but you can also start and stop it from the command line. See the PathWAI Editor for Messages User’s Guide for further information on starting and stopping the server.

To start the PathWAI Editor for Messages server, a user ID must have full administrative access to WebSphere MQ. If the server is set to validate user passwords, this user ID must also have the authority to “Act as part of the operating system”.

To reboot the machine:

- Accept the default “Yes, I want to restart my computer now” and click Finish.

You may also elect to reboot the machine yourself at a later time.

When the machine reboots, the PathWAI Editor for Messages server and the LDAP directory services (if installed) are started as Windows services.
Step 6: Set System Environment Variable

**Note:** This step is necessary only if you will be using a client connection to access a WebSphere MQ version 5.3 queue manager on a Windows 2000 machine.

If you will be using PathWAI Editor for Messages to access an MQ 5.3 queue manager on a Windows 2000 machine from another machine using a client connection:

1. Set the following system environment variable on the Windows 2000 machine:
   
   MQNOREMPOOL=1

2. Reboot the machine.
Step 7. Log on to PathWAI Editor for Messages

To log on to a PathWAI Editor server on a remote machine, enter the URL in your browser as:

```
http://hostname:portnumber
```

To log on to the server on the local machine, follow these steps:

1. From the Windows **Start** button, select:
   **Programs > PathWAI Editor for Messages > Access PathWAI Editor for MessagesServer**
   This dialog is displayed:

   ![Enter User ID and Password dialog]

   - **User ID** field: `jsmith`
   - **Password** field: `********`

2. In the **User ID** field, enter your Windows user ID (the user ID on the local machine).

3. If you enabled password security in “Step 3. Configure PathWAI Editor” on page 21 (by checking the **Enable UserID/Password validation** option), a password is required; enter your Windows password (the password on the local machine).

4. Click Login.
   The PathWAI Editor main window opens.
   For complete information about using PathWAI Editor, refer to the *PathWAI Editor for Messages User’s Guide* (XY54-6750).
Step 8. Migrate PQEdit Data (PQEdit Users Only)

If you are not a current PQEdit customer, skip this step.

This step is required only if you have existing PQEdit message formats which you want to migrate into the PathWAI Editor for Messages repository or if you have unloaded messages that you want to load onto a queue and edit using PathWAI Editor.

This step consists of two procedures:
- Migrating message formats
- Migrating file containing unloaded messages

You may perform these procedures at any time.

Migrate message formats (kxyimpfm)

In this procedure you will run the utility to import PQEdit message formats (FORMATS.INI files) into the PathWAI Editor for Messages metadata repository.

1. In a command window, change to the bin directory. For example:
   ```bash
cd program files\candle\msgedit\bin
   ```

2. Run the format import utility:
   ```bash
   kxyimpfm [connection] [options] ini_file
   ```

   If you are using an LDAP server to house the repository containing message format definitions, specify `connection` as:
   ```bash
   -h host -p port -D user -w pwd
   ```

   If you are using a configuration (LDIF) file, specify `connection` as:
   ```bash
   -ldif filename -u user
   ```

   `where`:
   - `-h host` the host on which the LDAP server is running. Default is localhost.
   - `-p port` the port the LDAP server is listening on. Default is 389.
   - `-D user` LDAP user ID for authentication
Step 8. Migrate PQEdit Data (PQEdit Users Only)

The options are:

```
[-ns dest] [-o] [-v |-q] [-?]
```

where

- **-ns dest** is the namespace in the metadata repository into which definitions are imported. By default, `:CandleSamples.MessageEditor` is used. (For more information about the metadata repository and namespaces, see the *Message Format Editor User’s Guide*.)

- `-o` overwrites the existing entries

- `-v` verbose mode on (default)

- `-q` verbose mode off

- `-?` displays help for the command

For example:

```
kxyimpfm -h myhost -p 389 -D cn=manager -w secret
```

If you are using an LDAP server to house the metadata repository, the format definitions will become available to all PathWAI Editor agents configured to use that server. If you are using configuration files, the converted definitions must be made accessible to the agents through a networked file system or manually distributed to the machines on which the agents reside.

**Migrate message files (kxyimpul)**

Files containing previously unloaded PQEdit messages must be converted into files usable by PathWAI Editor before you can load them onto a queue.
Files that contain messages for loading onto a queue must be located in your individual profile directory, in the Messages subdirectory. For example, if your login ID is `jdoe`, these files must be in:

```
c:\Program Files\Candle\MsgEdit\Users\jdoe\Messages
```

**Note:** The Messages directory is not created until a user has logged on to the server.

For WebSphere MQ messages, PathWAI Editor uses the file extension `.pmu`.

1. In a command window, change to the `bin` directory. For example:

```
cd program files\candle\msgedit\bin
```

2. Enter the following command:

```
kxyimpul <old file> <new file>
```

For example:

```
kxyimpul c:\program files\candle\corporation\pqedit\messages\unload.pqu c:\program files\candle\msgedit\users\jdoe\messages\unload.pmu
```
Step 8. Migrate PQEdit Data (PQEdit Users Only)
Installation Steps on UNIX (GUI)

Overview

This chapter contains step-by-step instructions for installing PathWAI Editor for Messages on an AIX, Solaris, or HP/UX workstation using the Candle GUI installation tool.

Unix shell environment

The Candle installation scripts require that a Korn shell be installed and operational on the machine on which you are installing the product, but the Korn shell does not have to be running on your console. You may use any shell that is shipped with the UNIX operating system. Third-party vendor shells such as BASH and TCSH are *not* supported.

Summary of steps

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Step 8. Migrate PQEdit Data (PQEdit Users Only) ............. 43
Step 1. Run the install.sh Script

In this step you will run the install.sh installation script to download the PathWAI Editor for Messages software to the local machine.

Follow these steps:

1. Create a target directory for the PathWAI Editor for Messages software. For example:
   ```
   mkdir candle
   ```
   Make a note of the target directory name here for your reference:
   
   *Candle directory name: ____________________________*

2. Mount the PathWAI Editor CDROM and cd to the mount point directory.

3. Run the installation script as follows:
   ```
   ./install.sh -h <candlehome>
   ```
   where candlehome is your target directory name.
   For example:
   ```
   ./install.sh -h candle
   ```
   This prompt is displayed:
   ```
   CANDLEHOME directory "candle" already exists. OK to use it [ y or n; "y" is default ]?
   ```

4. Enter Y or press Enter to use the directory shown.
   This menu is displayed:
   1) Install products via GUI.
   2) Install products via command line.
   3) Create remote packages via GUI.
   4) Create remote packages via command line.
   5) View readme files.
   6) Exit install.

5. Enter: 1
Step 1. Run the install.sh Script

The installer verifies the amount of available space, unloads the install packages, and checks the Java runtime environment, then presents the license agreement.

6. Read the license agreement and click **Agree** to it.
   The Candle Installation for UNIX dialog is displayed.

7. Click the **INSTALL** button.
   The Candle Installation dialog is displayed.

8. Click **INSTALL** again from the selection bar:

```
| INSTALL | MANAGE | MAINTENANCE | HELP |
```

The product component selection dialog is displayed.
Step 2. Select Components

In this step you will choose the PathWAI Editor for Messages components you want to install locally.

This dialog is displayed:

Follow these steps:

1. Enter the number corresponding to the PathWAI Editor for Messages components that you want to install on this machine:

   **PathWAI Editor for Messages**
   This component provides a full-function editor for creating and managing messages in queue-based messaging environments.

   **CASP Directory**
   This component is an LDAP server and supporting software that can be used to house the repository of message format and message filter definitions used by the message editor.

   Your site should have at least one directory within your PathWAI Editor for Messages network. You may install a directory locally, or use a directory installed on another machine. You may also use a third-party directory or a flat (LDIF) file to house the definitions, but a directory is recommended.

   **2. Click OK to continue.**
Step 2. Select Components

When the selected components have been installed, the PathWAI Editor for Messages Configuration dialog appears.
Step 3. Configure PathWAI Editor

In this step you verify information about the local messaging environment and set server configuration options.

In the dialog PathWAI Editor for Messages Configuration dialog you will:

- Specify the location of the local Java run-time libraries
- Specify the messaging environment (WebSphere MQ, JMS, or both) and specify the location of the messaging software and queue managers (WebSphere MQ) and/or the Java class path (JMS)
- Set security options for the PathWAI Editor server
- Specify the server’s port number

You can reconfigure these settings at any time using the configuration tool described in the *PathWAI Editor for Messages User’s Guide*.

Follow these steps:

1. In the **Java installation path** field, verify the pathname of your local JRE installation.
2. Select the messaging environment (MQSeries, JMS, or both) and verify the pathname(s) of the messaging software installation(s).
3. Optionally, set the security option described below. You may optionally enable either or both of the security options shown in this dialog.
   - **Enable UserID/Password validation?**  The user must provide a valid user ID and password to log on to PathWAI Editor.
4. In the **MsgEdit server port number** field, specify the TCP/IP listening port that you want to assign to the PathWAI Editor server.
5. Click **Save** to continue.
Step 4. Specify Where Product Definitions are Stored

In this step you indicate where PathWAI Editor will store its repository of message format and filter definitions. You may use a new local LDAP server that you are installing at this time, or you may use an existing LDAP server on the local machine or any other machine in your site’s PathWAI Editor for Messages network. You may also use a local flat (LDIF) file as a repository.

This dialog is displayed:

<table>
<thead>
<tr>
<th>Choose from one of the following repositories for Message Format definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) LDIF file</td>
</tr>
<tr>
<td>2) Other LDAP already installed on the same or another machine</td>
</tr>
<tr>
<td>3) Candle LDAP installed with this package</td>
</tr>
</tbody>
</table>

Use which as repository?

Follow these steps:

1. Specify whether an LDAP directory or a flat file in LDIF (LDAP Data Interchange Format) format will house the repository of definitions used by PathWAI Editor by entering either the number or the first word of your selection.

   You may use the new local LDAP directory installed in Step 2, or you may use an existing directory on the local machine or any other machine in your site’s PathWAI Editor for Messages network. You may also use a local flat (LDIF) file as a repository.

   If you select LDIF, a file named kxymsged.ldf is created in
   `<candlehome>/unix/MsgEdit/bin`.

   You can reconfigure the server to use a different directory at a later time.

2. Click OK.
Step 4. Specify Where Product Definitions are Stored

If you are installing the Candle LDAP server, a Repository Configuration dialog appears.

If you are not installing the Candle LDAP server, the installation program tells you how to start the PathWAI Editor for Messages server and where to locate the product documentation. You can also start the server using the instructions in “Step 6. Start the PathWAI Editor Server” on page 41.
Step 5. Configure a Local Directory

If you are not installing a local LDAP server at this time, skip this step.

In this step you will configure the local LDAP server. This step is required only if you selected the **CASP Directory Services** component in “Step 2. Select Components” on page 34.

In the Repository Configuration dialog:

1. Under **Access**, specify the following:
   - **User ID**
     - A user ID for the Directory administrator (1–8 characters, without spaces). This ID must be specified for all future Directory configuration functions, including use of the GUI and the command-line utilities. For more information on configuring the Directory, refer to the *PathWAI Editor for Messages User’s Guide*.
   - **Password**
     - The password associated with the ID.
   - **Node name**
     - The local machine’s host name.
   - **Port number**
     - The TCP/IP listening port that you want to assign to the directory server.
     - **Note:** If you will not be starting the directory server with a superuser (root) ID, set the port number above 1024.

2. In the **LDAP Partition** field, enter a name for the partition or your site’s domain name or accept the **candle.com** default shown.

3. If you are using your site’s domain name as the partition name, click **Yes** for **Is partition a domain name**?

4. Click **Save**.

   The installer starts the LDAP server and provides instructions for starting the PathWAI Editor for Messages server.

   You may also start the server using the instructions given in “Step 6. Start the PathWAI Editor Server” on page 41.
Step 5. Configure a Local Directory

This dialog is displayed:

```
Path to CASP Directory or "DNS"

ldap://puffer:60910/cn=KonaContext,dc=Context
```

5. Click **OK** to accept the default shown.
Step 6. Start the PathWAI Editor Server

To start the PathWAI Editor for Messages server, your user ID must have full administrative access to WebSphere MQ (that is, must be a member of the mqm group).

Use the Candle Manage Services utility to start and stop the PathWAI Editor server.

Follow these steps:

1. Change to the `<candlehome>/bin` directory:
   ```bash
   cd <candlehome>/bin
   ```
2. Enter the following command:
   ```bash
   CandleManage
   ```
   The Manage Candle Services window appears.
3. Do one of the following:
   - Right-click PathWAI Editor for Messages and select Start from the popup menu, or
   - Select (click) PathWAI Editor for Messages, then click 🔄.
Step 7. Log on to the PathWAI Editor Server

In this step you will log on to the PathWAI Editor server you just installed using your browser.

Follow these steps:

1. From Internet Explorer, connect to the PathWAI Editor server using the following URL:
   
   \texttt{http://hostname:port}
   
   where \textit{hostname} is the host name of the machine where the server is running and \textit{port} is the server’s TCP/IP port.

   This dialog is displayed:

   ![Enter User ID and Password]

   \begin{itemize}
   \item [2.] In the \textbf{User ID} field, enter your Unix user ID (the user ID on the local machine).
   \item [3.] If you enabled password security in “Step 3. Configure PathWAI Editor” on page 36 (by selecting the \textbf{Enable UserID/Password validation?} option), a password is required; enter your Unix password (the password on the local machine).
   \item [4.] The PathWAI Editor main dialog opens.
   
   For complete information about using the PathWAI Editor, refer to the \textit{PathWAI Editor for Messages User’s Guide} (XY54-6750).
   \end{itemize}
Step 8. Migrate PQEdit Data (PQEdit Users Only)

If you are not a current PQEdit customer, skip this step.

This step is required only if you have existing PQEdit message formats which you want to migrate into the PathWAI Editor for Messages repository or if you have unloaded messages that you want to load onto a queue and edit using PathWAI Editor.

This step consists of two procedures:
- Migrating message formats
- Migrating file containing unloaded messages

You may perform these procedures at any time.

Migrate message formats (kxyimpfm)

In this procedure you will run the utility to import PQEdit formats (FORMATS.INI files) into the PathWAI Editor for Messages metadata repository.

1. In a command window, change to the `<candlehome>/unix/MsgEdit/bin` directory. For example:
   ```
cd /candle/unix/MsgEdit/bin
   ```
2. Run the format import utility:
   ```
./kxyimpfm.sh [connection] [options] ini_file
   ```
   If you are using an LDAP server to house the repository containing message format definitions, specify `connection` as:
   ```
   -h host -p port -D user -w pwd
   ```
   If you are using a configuration (LDIF) file, specify `connection` as:
   ```
   -ldif filename -u user
   ```
   where:
   ```
   -h host  the host on which the LDAP server is running. Default is localhost.
   -p port  the port the LDAP server is listening on. Default is 389.
   ```
Step 8. Migrate PQEdit Data (PQEdit Users Only)

The options are:

\[-ns \text{ dest}\] \[-o\] \[-v \mid -q\] \[-?\]

where

\[-ns \text{ dest}\] is the namespace in the metadata repository into which definitions are imported. By default, 
:CandleSamples.MessageEditor is used. (For more information about the metadata repository and namespaces, see the Message Format Editor User's Guide.)

\[-o\] overwrites the existing entries
\[-v\] verbose mode on (default)
\[-q\] verbose mode off
\[-?\] displays help for the command

For example:

```
./kxyimpfm.sh -h myhost -p 389 -D cn=manager -w secret
/candle/pqedit/FORMATS.ini
```

If you are using an LDAP server to house the metadata repository, the format definitions will become available to all PathWAI Editor agents configured to use that server. If you are using configuration files, the converted definitions must be made accessible to the agents through a networked file system or manually distributed to the machines on which the agents reside.

Migrate message files (kxyimpul)

Files containing previously unloaded PQEdit messages must be converted into files usable by PathWAI Editor before you can load them onto a queue.
Files that contain messages for loading onto a queue must be located in your individual profile directory, in the Messages subdirectory. For example, if your login ID is \textit{jdoe}, these files must be in:

\texttt{<candlehome>/unix/MsgEdit/Users/jdoe/Messages}.

\textbf{Note:} The Messages directory is not created until a user has logged on to the server.

For WebSphere MQ messages, PathWAI Editor uses the file extension \texttt{.pmu}.

1. In a command window, change to the \texttt{<candlehome>/unix/MsgEdit/bin} directory. For example:
   \texttt{cd /candle/unix/MsgEdit/bin}

2. Enter the following command:
   \texttt{./kxyimpul.sh <old file> <new file>}

For example:

\texttt{kxyimpul /candlecorp/pqedit/message/unload.pqu}
\texttt{/candle/unix/MsgEdit/Users/jdoe/Messages/unload.pmu}
Step 8. Migrate PQEdit Data (PQEdit Users Only)
Overview

This chapter contains step-by-step instructions for installing PathWAI Editor for Messages on an AIX, Solaris, or HP/UX workstation using command line installation utilities.

Unix shell environment

The Candle installation scripts require that a Korn shell be installed and operational on the machine on which you are installing the product, but you do not need to run the Korn shell on your console. You may use any shell that is shipped with the UNIX operating system. Third-party vendor shells such as BASH and TCSH are not supported.

Before you begin

Make sure you have reviewed the prerequisites, including permissions, installation.

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Step 3. Configure the PathWAI Editor Server ............................. 51
Step 4. Configure a Local Directory ........................................... 53
Step 5. Start the PathWAI Editor Server ..................................... 55
Step 6. Log on to the PathWAI Editor Server ............................... 56
Step 7. Migrate PQEdit Data (PQEdit Users Only) ....................... 57
Step 1. Run the install.sh Script

In this step you will run the install.sh installation script to download the PathWAI Editor software to the local machine.

Follow these steps:

1. Create a target directory for the PathWAI Editor software. For example:
   ```
   mkdir candle
   ```
   Make a note of the target directory name here for your reference:
   
   **Candle directory name:** ____________________________________________

2. Mount the PathWAI Editor CDROM and cd to the mount point directory.

3. Run the installation script as follows:
   ```
   install.sh -h candlehome
   ```
   where `candlehome` is your target directory name.

   For example:
   ```
   install.sh -h candle
   ```
   This prompt is displayed:
   ```
   CANDLEHOME directory "candlehome" already exists. OK to use it [ y or n; "y" is default ]?
   ```

4. Enter `Y` or press Enter to use the directory shown. (If you want to change the target directory, enter `N` and the new directory name.)
   This menu is displayed:
   ```
   1) Install products via GUI.
   2) Install products via command line.
   3) Create remote packages via GUI.
   4) Create remote packages via command line.
   5) View readme files.
   6) Exit install.
   ```

5. Enter: **2**
   This prompt is displayed:
**Step 1. Run the install.sh Script**

...Do you agree to the terms of the license in file TERM.AGR on the CD?

6. Enter R and read through the license agreement (several pages) until you see the following prompt:

   Do you agree to the terms of the license in file TERM.AGR on the CD?

7. Enter Y to accept the license agreement.

The installer verifies your environment then presents you with a selection of product components:

1) PathWAI Editor for Messages
2) CASP Directory
3) all of the above

8. Choose either or both of the following components by entering the appropriate number:

   PathWAI Editor for Messages
   This component provides a full-function editor for editing, creating, and managing messages in queue-based messaging environments.

   CASP Directory
   This component is an LDAP directory and supporting software that can be used to house the repository of message format and message filter definitions.

Your site should have at least one directory within your PathWAI Editor for Messages network. You may install the directory locally, or use a directory installed on another machine. You may also use a third-party directory or a flat (LDIF) file to store the definitions, but a directory is recommended.

9. Confirm your selection when prompted.

The installer installs the selected components.
Step 2. Define the Messaging Environment

In this step you verify the location of the local Java run-time libraries, identify the messaging transport or transports you use, and verify the location of the messaging software and queue managers (WebSphere MQ) and/or Java class path (JMS).

After you confirm your component selection, you will see this message:

Starting MsgEdit Command Line Configuration...

This product requires that the Java Runtime Environment (JRE) version 1.3 (or above) must be already installed.

1. At the following prompt, verify or specify the pathname of your local JRE installation:

Path to your Java installation (Default is: <java install path>):

This menu is displayed:

Choose from one of the following messaging environments

1) MQSeries
2) JMS
3) All [of the above]

2. Select the messaging environment (MQSeries, JMS, or both) by entering the appropriate number.

The installer will prompt you for the path where the message software is installed.

3. Accept the path if correct, or enter the correct path.
Step 3. Configure the PathWAI Editor Server

In this step you set the listening port and security options for the PathWAI Editor server and identify the LDAP directory or configuration where its message format definitions are stored.

Follow these steps:

1. At the prompt:
   
   `MsgEdit server port number (Default is: 4444):`
   
   specify the TCP/IP listening port that you want to assign to the PathWAI Editor server.

2. Optionally, select the security option described below:
   
   Enable UserID/Password validation?
   
   The user must provide a valid user ID and password to log on to PathWAI Editor.

   The following menu is displayed:

   Choose from one of the following repositories for Message Format definitions

   1) LDIF file

   2) Other LDAP already installed on the same or another machine

   3) Candle LDAP installed with this package

3. At the following prompt:
   
   `Use which as repository? (Default is: CANDLE):`
   
   specify whether an LDAP directory or a flat file in LDIF (LDAP Data Interchange Format) format will house the repository of definitions used by PathWAI Editor. You may enter either a number or the first word of the menu option (LDIF, Other, or Candle).

   You may use the new local directory installed in Step 2, or you may use an existing directory on the local machine or any other machine in your site’s PathWAI Editor for Messages network. You may also use a local flat (LDIF) file as a repository.
Step 3. Configure the PathWAI Editor Server

If you select **LDIF**, a file named **kxymsged.ldf** is created in **candlehome/unix/MsgEdit/bin**.

You can reconfigure the server to use a different directory at a later time.

You will see the following message:

*Writing configuration data...*

If you are installing the Candle LDAP server, proceed to “Step 4. Configure a Local Directory” on page 53.

If you are not installing the Candle LDAP server, the installation program tells you how to start the PathWAI Editor for Messages server and where to locate the product documentation. You can also start the server using the instructions in “Step 5. Start the PathWAI Editor Server” on page 55.
Step 4. Configure a Local Directory

If you are not installing a local LDAP directory at this time, skip this step.

In this step you will configure a local directory. This step is required only if you selected the CASP Directory component in “Step 1. Run the install.sh Script” on page 48.

Follow these steps:

1. At the following prompt:
   
   **LDAP host address (Default is: <hostname>):**
   
   enter the host name or address. (Depending on your configuration, this may not be the default name supplied by the installer.)

   The following prompt is displayed:
   
   **LDAP port (Default is: 1389):**

2. Specify the TCP/IP listening port that you want to assign to the Directory.
   
   The default port for root is 389; for non-root userids the default is 1389. If you will not be starting the directory server with a superuser (root) ID, set the port number above 1024.

   The following prompt is displayed:
   
   **LDAP partition (Default is: candle.com):**

3. Accept the default name or enter a partition name.
   
   The following prompt is displayed:
   
   **Is partition a domain name? (Default is: y):**

4. If you are using your site’s domain name as the partition name, enter y.
   
   The following prompt is displayed:
   
   **LDAP User ID: (Default is: manager):**

5. Accept the default or enter the ID you want to create for the Directory administrator (1–8 characters, without spaces). This ID must be specified for all future Directory configuration functions, including use of the GUI and the command-line utilities. For more information on configuring the Directory, refer to the PathWAI Editor for Messages User’s Guide.
Step 4. Configure a Local Directory

The following prompt is displayed:

LDAP Password: (Default is: secret):

6. Enter the password to be used with the ID entered in the preceding step.
The installer will configure the directory server and then ask you to confirm
the path to the directory.

7. Accept the path shown or enter the correct path.
The installer starts the LDAP server and tells you how to start the PathWAI
Editor for Messages server and where to locate the product documentation.
You can also start the server using the instructions in “Step 5. Start the
PathWAI Editor Server” on page 55.

You can check to be sure the directory server process kxsserv is running by
entering:

    ps -ef | grep kxsserv

You can also check whether both the Directory server and the PathWAI Editor
server are running by doing the following:

    cd <candlehome>/bin
    cinfo -r
Step 5. Start the PathWAI Editor Server

To start the PathWAI Editor for Messages server, your user ID must have full administrative access to WebSphere MQ (that is, must be a member of the mqm group).

To start the PathWAI Editor server from the command line:

1. Change to the <candlehome>/bin directory:
   
   ```
   cd <candlehome>/bin
   ```

2. Enter the following command:
   
   ```
   CandleAgent start xy
   ```

   When the agent is started successfully, you will see the message, “Agent started . . .”

   –
Step 6. Log on to the PathWAI Editor Server

In this step you will log on to the PathWAI Editor server you just installed using your browser.

Follow these steps:

1. From Internet Explorer or Netscape, connect to the PathWAI Editor server using the following URL:
   
   http://hostname:port

   where hostname is the host name of the machine where the server is running and port is the server’s TCP/IP port.

   This dialog is displayed:

   ![Enter User ID and Password dialog]

   2. In the User ID field, enter your UNIX user ID (the user ID on the server host).

   3. If you enabled password security in “Step 3. Configure the PathWAI Editor Server” on page 51 (by selecting the Enable UserID/Password validation? option), a password is required; enter your UNIX password (the password on the server host).

   4. The PathWAI Editor main dialog opens.

   For complete information about using the PathWAI Editor, refer to the PathWAI Editor for Messages User’s Guide (XY54-6750).
Step 7. Migrate PQEdit Data (PQEdit Users Only)

If you are not a current PQEdit customer, skip this step.

This step is required only if you have existing PQEdit message formats which you want to migrate into the PathWAI Editor for Messages repository or if you have unloaded messages that you want to load onto a queue and edit using PathWAI Editor.

This step consists of two procedures:

- Migrating message formats
- Migrating file containing unloaded messages

You may perform these procedures at any time.

Migrate message formats (kxyimpfm)

In this procedure you will run the utility to import PQEdit formats (FORMATS.INI files) into the PathWAI Editor for Messages metadata repository.

1. In a command window, change to the <candlehome>/unix/MsgEdit/bin directory. For example:
   ```
   cd /candle/unix/MsgEdit/bin
   ```

2. Run the format import utility:
   ```
   ./kxyimpfm.sh [connection] [options] ini_file
   ```

   If you are using an LDAP server to house the repository containing message format definitions, specify connection as:
   ```
   -h host -p port -D user -w pwd
   ```

   If you are using a configuration (LDIF) file, specify connection as:
   ```
   -ldif filename -u user
   ```

   where:
   ```
   -h host      the host on which the LDAP server is running. Default is localhost.
   -p port      the port the LDAP server is listening on. Default is 389.
   -D user      LDAP user ID for authentication
   ```
Step 7. Migrate PQEdit Data (PQEdit Users Only)

The options are:

```
[-ns dest] [-o] [-v | -q] [-?]
```

where

- `-ns dest` is the namespace in the metadata repository into which definitions are imported. By default, `:CandleSamples.MessageEditor` is used. (For more information about the metadata repository and namespaces, see the Message Format Editor User's Guide.)

- `-o` overwrites the existing entries

- `-v` verbose mode on (default)

- `-q` verbose mode off

- `-?` displays help for the command

For example:

```
./kxyimpfm.sh -h myhost -p 389 -D cn=manager -w secret
  /candle/pqedit/FORMATS.ini
```

If you are using an LDAP server to house the metadata repository, the format definitions will become available to all PathWAI Editor agents configured to use that server. If you are using configuration files, the converted definitions must be made accessible to the agents through a networked file system or manually distributed to the machines on which the agents reside.

**Migrate message files (kxyimpul)**

Files containing previously unloaded PQEdit messages must be converted into files usable by PathWAI Editor before you can load them onto a queue.
Step 7. Migrate PQEdit Data (PQEdit Users Only)

Files that contain messages for loading onto a queue must be located in your individual profile directory, in the Messages subdirectory. For example, if your login ID is jdoe, these files must be in:

`<candlehome>/unix/MsgEdit/Users/jdoe/Messages`.

Note: The Messages directory is not created until a user has logged on to the server.

For WebSphere MQ messages, PathWAI Editor uses the file extension .pmu.

1. In a command window, change to the
   `<candlehome>/unix/MsgEdit/bin` directory. For example:
   ```bash
   cd /candle/unix/MsgEdit/bin
   ```

2. Enter the following command:
   ```bash
   ./kxyimpul.sh <old file> <new file>
   ```
   For example:
   ```bash
   kxyimpul /candlecorp/pqedit/message/unload.pqu
   /candle/unix/MsgEdit/Users/jdoe/Messages/unload.pmu
   ```
Step 7. Migrate PQEdit Data (PQEdit Users Only)
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