



BEA eLink Foundation Installation Guide

BEA eLink Foundation 1.2
Document Edition 1.2
January 2000

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1 Installing the BEA eLink Foundation

This section discusses the following topics:

- Installing on UNIX Platforms
- Installing on Windows NT
- Installing Your Product License
- Uninstalling the BEA eLink Foundation

Installing on UNIX Platforms

To install the BEA eLink Foundation on a UNIX platform, complete the following procedures. Make sure you install the software in the file system in which the BEA eLink Platform executables run.

Note: If your system does not have a directly-connected CDROM reader, you can mount the CDROM on a remote system, share (export) the CDROM file system, and then mount the remote file system. Alternatively, you can mount the CDROM on a remote system, copy the contents of the CDROM directory for your platform to the system in which you plan to install the eLink Foundation, and continue with the rest of the installation procedure. Table 1-1 lists the directory names for the various UNIX platforms.

1 Installing the BEA eLink Foundation

Table 1-1 CDROM Directory Names for UNIX System Platforms

Directory	Platform
hp/hpux1020	HP UX 10.20 on HP 9000 Series 800
hp/hpux11	HP UX v11 on HP 9000 Series 800
ibm/aix43	IBM AIX v4.3 on RS/6000 and SP2
sun5x/sol26	Sun OS 5.6 Solaris v2.6 on UltraSPARC
sun5x/sol27	Sun OS 5.7 Solaris v2.7 on UltraSPARC

To install the eLink Foundation on UNIX platforms, run the `install.sh` script. This script installs all the necessary software components.

Perform the following steps to install the eLink Foundation on a supported UNIX platform.

1. Log on as root.

```
$ su -  
Password:
```

2. Access the CDROM device.

```
# ls -l /dev/cdrom  
total 0  
brw-rw-rw- 1 root sys 27, 0 January 27 10:55 c1b0t010
```

3. Mount the CDROM.

```
# mount -r -F cdfs /dev/cdrom/c1b0t010 /mnt
```

4. Change the directory to your CDROM device.

```
# cd /mnt
```

5. List the CDROM contents.

```
# ls  
install.sh hp
```

6. Execute the installation script.

```
# sh ./install.sh
```

7. The installation script runs and prompts you for responses. Listing 1-1 is an example of the installation script. The entries in bold represent user responses.

Listing 1-1 Install.sh Example

```
cmadm@dalibm3:/cmhome/dist/banjo-1 sh install.sh | tee >&2 j.out
01) hp/hpux1020                02) hp/hpux11
03) ibm/aix43                  04) sun5x/sol26
05) sun5x/sol27

Install which platform's files? [01-5, q to quit, l for list]: 3

** You have chosen to install from ibm/aix43 **

BEA Foundation Release 1.2

This directory contains the BEA Foundation System for
AIX 4.3 on RS/6000

Is this correct? [y,n,q]: y
/cmhome/dist/banjo-1/ibm/aix43

To terminate the installation at any time
press the interrupt key,
typically <del>, <break>, or <ctrl+c>.

The following packages are available:

    1      cfgex                BEA eLink ConfigExpert for Foundation
    2      jolt                 BEA Jolt

Select the package(s) you wish to install (or 'all' to install
all packages) (default: all) [?,?,q]:
/cmhome/dist/banjo-1/ibm/aix43/cfgex

BEA eLink ConfigExpert for Foundation
(rs6000) Release 1.2
Copyright (c) 2000 BEA Systems, Inc.
All Rights Reserved.
Distributed under license by BEA Systems, Inc.
BEA eLink is a trademark of BEA Systems, Inc.

Directory where ConfigExpert files are to be installed
(Enter your ConfigExpert directory path) [?,q]: /work/cmadm

Using /work/cmadm as the ConfigExpert base directory
```

1 *Installing the BEA eLink Foundation*

```
Determining if sufficient space is available ...
10576 blocks are required
6706576 blocks are available to /work/cmadm

Unloading /cmhome/dist/banjo-1/ibm/aix43/cfgex/CFGEXT65.Z ...

ConfigExpert/ConfigExpert.jar
.
.
.
ConfigExpert/templates/unix/tuxstop.tmpl
doc/acropdf/cfighelp.pdf
.
.
.
doc/shared/sharsnap/newhelp.gif
jre/HP/HPUX1020/bin/PA_RISC/green_threads/jre
.
.
.
jre/HP/HPUX11/lib/serialver.properties

... finished

Changing file permissions...
... finished

Directory where JDK v1.1.6 files are installed
Enter location of JDK v1.1.6 files) [?,q]: /work/cmadm/good

Using /work/cmadm/good as the JDK v1.1.6 base directory

If your license file is accessible, you may install it now.
Install license file? [y/n]: n

Please don't forget to use lic.sh located in your product bin
directory to install the license file from the enclosed floppy.
Refer to your product Release Notes for details on how to do this.

Installation of BEA eLink ConfigExpert for Foundation was
successful
/cmhome/dist/banjo-1/ibm/aix43/jolt

BEA Jolt
(rs6000) Release 1.2
Copyright (c) 1997-1999 BEA Systems, Inc.
Portions * Copyright 1986-1997 RSA Data Security, Inc.
All Rights Reserved.
```


Distributed under license by BEA Systems, Inc.
TUXEDO is a registered trademark.
BEA Jolt is a trademark of BEA Systems, Inc.
BEA WebLogic Enterprise is a trademark of BEA Systems, Inc.

The following installation options are available:

1	all	Install Jolt server, rad, and client
2	server	Install the server only
3	rad	Install the relay back-end only
4	client	Install the client only
5	compat	Install the Jolt 1.1 Client compatibility classes

Select an option (default: all) [?,??,q]:

Note that the jolt server will be installed into an existing TUXEDO or WLE directory. You MUST have previously installed TUXEDO version 6.4 or 6.5 or WLE 4.2 to attempt this installation.

Base directory of existing TUXEDO installation [?,q]:
/work/cmadm/tux65

Determining if sufficient space is available ...
3007 blocks are required
6728208 blocks are available to /work/cmadm/tux65

Using /work/cmadm/tux65 as the TUXEDO base directory

Unloading /cmhome/dist/banjo-1/ibm/aix43/jolt/joltclt.z ...
udataobj/jolt/JoltBeanDev.jar
udataobj/jolt/JoltBeanDevAwt.jar
udataobj/jolt/JoltBeanDevSwing.jar
udataobj/jolt/JoltBeanDevSwing11.jar
udataobj/jolt/JoltBeanRt.jar
udataobj/jolt/JoltBeanRtAwt.jar
udataobj/jolt/JoltBeanRtSwing.jar
udataobj/jolt/JoltBeanRtSwing11.jar
udataobj/jolt/jolt.jar
udataobj/jolt/joltadmin.jar
udataobj/jolt/joltasp.jar
udataobj/jolt/joltatm.jar
udataobj/jolt/joltjse.jar
udataobj/jolt/RE.html
udataobj/jolt/examples/asp/bankapp/bankapp.properties
udataobj/jolt/examples/asp/bankapp/depositForm.htm
udataobj/jolt/examples/asp/bankapp/inquiryForm.htm
udataobj/jolt/examples/asp/bankapp/transferForm.htm
udataobj/jolt/examples/asp/bankapp/withdrawalForm.htm

1 *Installing the BEA eLink Foundation*

```
udataobj/jolt/examples/asp/bankapp/tellerForm.asp
udataobj/jolt/examples/asp/bankapp/tlr.asp
udataobj/jolt/examples/asp/bankapp/web_templates.inc
udataobj/jolt/examples/asp/bankapp/web_admin.inc
udataobj/jolt/examples/asp/bankapp/web_start.inc
udataobj/jolt/examples/asp/bankapp/webadmin.asp
udataobj/jolt/examples/asp/bankapp/templates/deposit.temp
udataobj/jolt/examples/asp/bankapp/templates/inquiry.temp
udataobj/jolt/examples/asp/bankapp/templates/transfer.temp
udataobj/jolt/examples/asp/bankapp/templates/withdrawal.temp
udataobj/jolt/examples/asp/bankapp/templates/error.temp
udataobj/jolt/examples/asp/bankapp/templates/nosession.temp
udataobj/jolt/examples/asp/bankapp/templates/syserror.temp
udataobj/jolt/examples/jolt/atm/Atm.class
udataobj/jolt/examples/jolt/atm/AtmArrow.class
udataobj/jolt/examples/jolt/atm/AtmCenterTextCanvas.class
udataobj/jolt/examples/jolt/atm/AtmClock.class
udataobj/jolt/examples/jolt/atm/AtmStatus.class
udataobj/jolt/examples/jolt/atm/AtmScreen.class
udataobj/jolt/examples/jolt/atm/AtmButton.class
udataobj/jolt/examples/jolt/atm/AtmServices.class
udataobj/jolt/examples/jolt/atm/Atm.html
udataobj/jolt/examples/jolt/atm/Atm.java
udataobj/jolt/examples/jolt/atm/audio/dot.au
udataobj/jolt/examples/jolt/atm/audio/ring.au
udataobj/jolt/examples/jolt/atm/audio/splat.au
udataobj/jolt/examples/jolt/atm/images/beatLogo.gif
udataobj/jolt/examples/jolt/atm/images/left.gif
udataobj/jolt/examples/jolt/atm/images/right.gif
udataobj/jolt/examples/jolt/atm/images/surround.gif
udataobj/jolt/examples/jolt/servlet/simpapp/SimpAppServlet.class
udataobj/jolt/examples/servlet/simpapp/simpapp.html
udataobj/jolt/examples/servlet/simpapp/simpapp.properties
udataobj/jolt/examples/servlet/simpapp/SimpAppServlet.java
udataobj/jolt/examples/servlet/simpapp/README
udataobj/jolt/examples/servlet/bankapp/depositForm.html
udataobj/jolt/examples/servlet/bankapp/inquiryForm.html
udataobj/jolt/examples/servlet/bankapp/tellerForm.html
udataobj/jolt/examples/servlet/bankapp/transferForm.html
udataobj/jolt/examples/servlet/bankapp/withdrawalForm.html
udataobj/jolt/examples/servlet/bankapp/DepositServlet.jhtml
udataobj/jolt/examples/servlet/bankapp/InquiryServlet.jhtml
udataobj/jolt/examples/servlet/bankapp/TransferServlet.jhtml
udataobj/jolt/examples/servlet/bankapp/WithdrawalServlet.jhtml
udataobj/jolt/examples/servlet/bankapp/bankapp.properties
udataobj/jolt/examples/servlet/bankapp/README
udataobj/jolt/examples/servlet/admin/PoolList.jhtml
udataobj/jolt/examples/servlet/admin/PoolAdmin.jhtml
udataobj/jolt/examples/servlet/admin/README
```

```
udataobj/jolt/doc/AllNames.html
.
.
.
udataobj/jolt/doc/bea.jolt.pool.servlet.weblogic
.SessionPoolManagerAdminBeanInfo.html
... finished

Unloading /cmhome/dist/banjo-1/ibm/aix43/jolt/joltcmp.z ...
850 blocks
udataobj/jolt/classes/bea/jolt/ApplicationException.class
.
.
.
udataobj/jolt/classes/bea/jolt/UrlInfo.class
udataobj/jolt/jolt.zip
... finished

Unloading /cmhome/dist/banjo-1/ibm/aix43/jolt/joltrad.z ...
160 blocks
bin/JRAD
locale/CATNAMES
locale/C/JRAD_CAT
locale/C/JRAD.text
... finished

Unloading /cmhome/dist/banjo-1/ibm/aix43/jolt/joltsvr.z ...
860 blocks
bin/JREPSVR
bin/JSL
bin/JSH
lib/libjconv.a
include/jotypes.h
locale/CATNAMES
locale/C/JOLT_CAT
locale/C/JOLT.text
udataobj/jrep.f32
udataobj/jwsladmin.f32
udataobj/jolt/repository/jrepository
... finished

Please don't forget to manually append the contents of the license
file from the enclosed floppy to
'/work/cmdm/tux65/udataobj/lic.txt'.
Refer to the BEA Jolt manual for details on how to do this.

Changing file permissions...
... finished
```

1 Installing the BEA eLink Foundation

Installation of BEA Jolt was successful

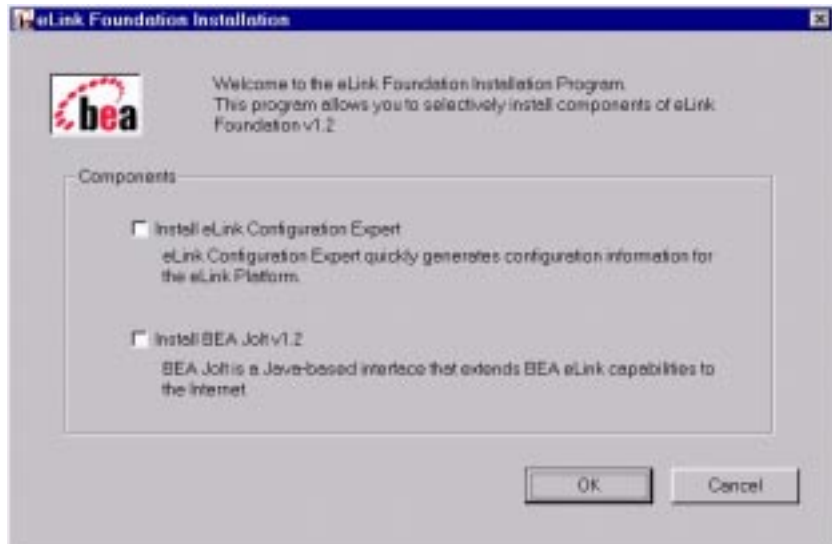
Please don't forget to fill out and send in your registration card
cmadm@dalibm3:/cmhome/dist/banjo-1

Installing on Windows NT

To install the eLink Foundation on a Windows NT platform, complete the following procedure.

1. Insert the product CDROM and click the **Run** option from the **Start** menu. The **Run** window displays. Click **Browse** to select the CDROM drive. Change directories to the winnt directory and select the Setup.exe program. Click **OK** to run the executable and begin the installation. The following **Welcome** screen displays. Click **Next** to continue with the installation.

Figure 1-1 BEA eLink Foundation Installation Welcome Screen



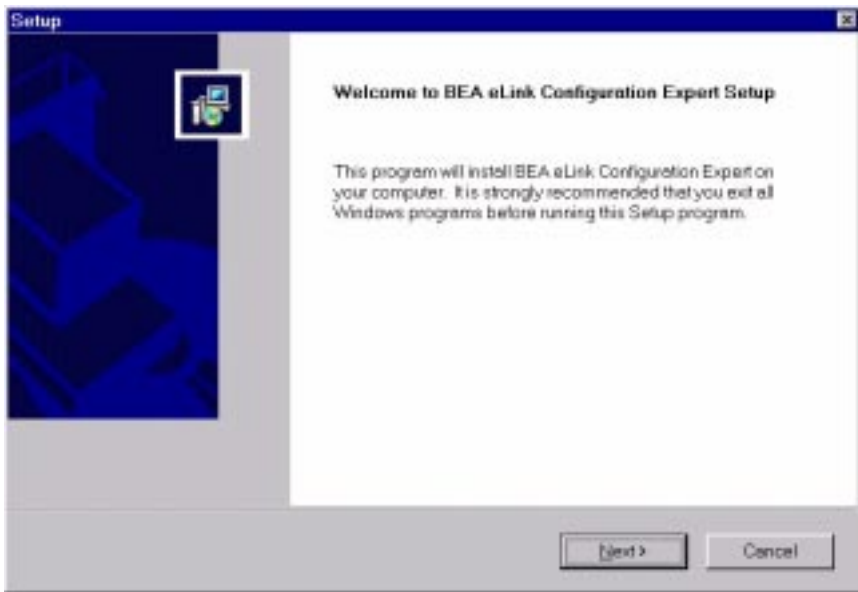
2. Choose one or both eLink Foundation components by clicking in the associated check box(es) and click **OK**.

Note: If both boxes are checked, the Configuration Expert is installed first.

If you chose to install BEA Jolt 1.2 only, proceed with Step 12. Otherwise, proceed with Step 3.

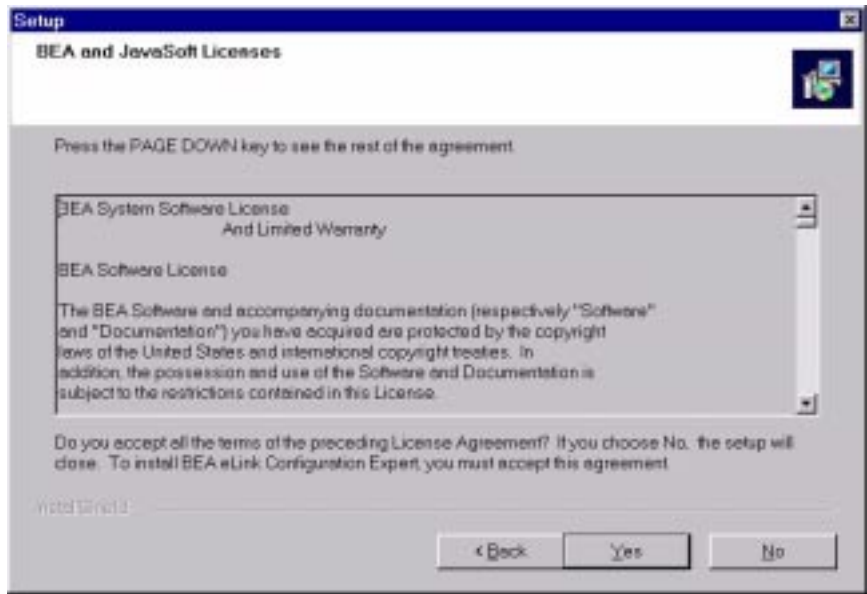
3. The Configuration Expert Setup Welcome screen displays.

Figure 1-2 Configuration Expert Setup Welcome Screen



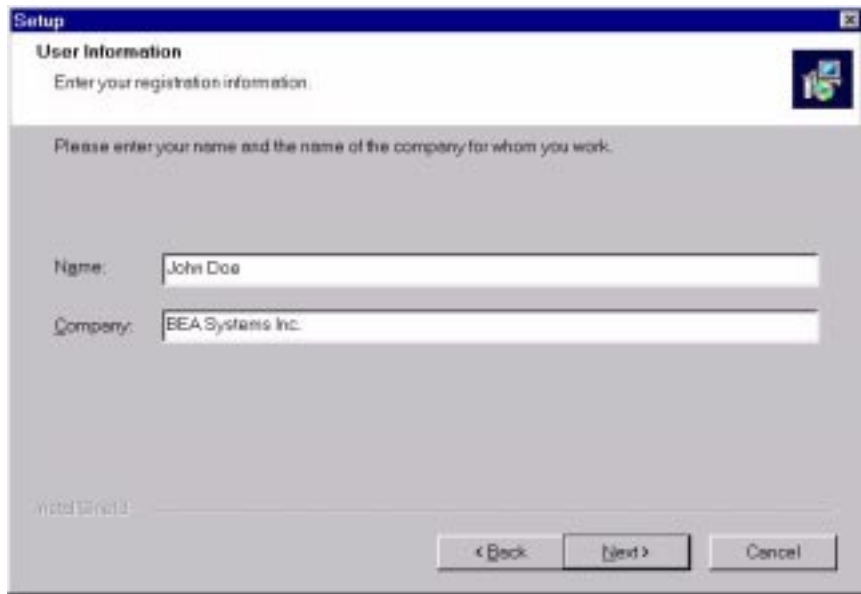
4. Click **OK**. The BEA and JavaSoft License screen displays.

Figure 1-3 BEA and JavaSoft License Screen



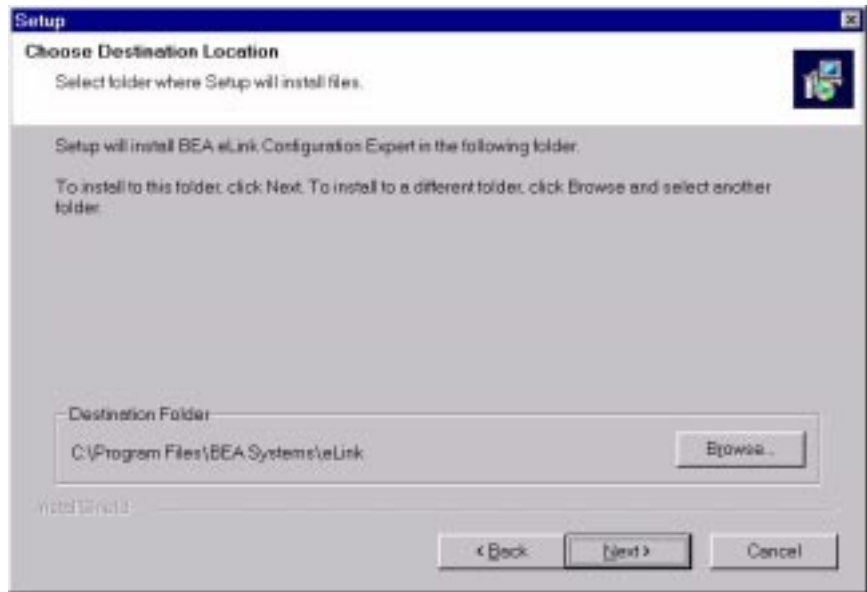
5. Read the License Agreement. Click **Yes** to accept the terms of the agreement and continue with the product installation, or click **No** to exit the installation process. If you click **Yes**, the User Information screen displays.

Figure 1-4 User Information Screen



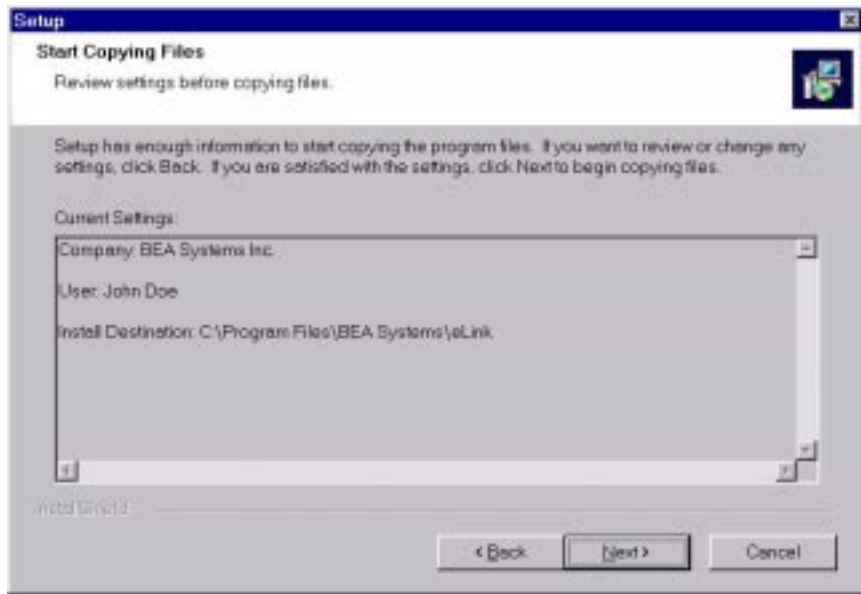
6. Enter your user information and click **Next**. The Choose Destination Location screen displays.

Figure 1-5 Choose Destination Location Screen



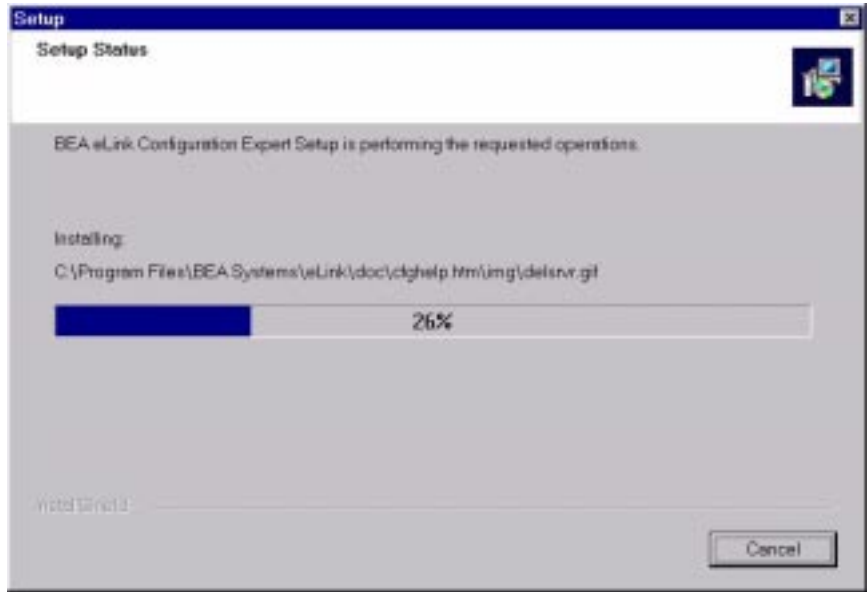
7. Click **Browse** and choose the location where you want to install the Configuration Expert and click **Next**. The Start Copying Files screen displays.

Figure 1-6 Start Copying Files Screen



8. Verify the information is correct. If not, click **Back** and make the necessary corrections. If the information is correct, click **Next**. The Status screen displays.

Figure 1-7 Status Screen

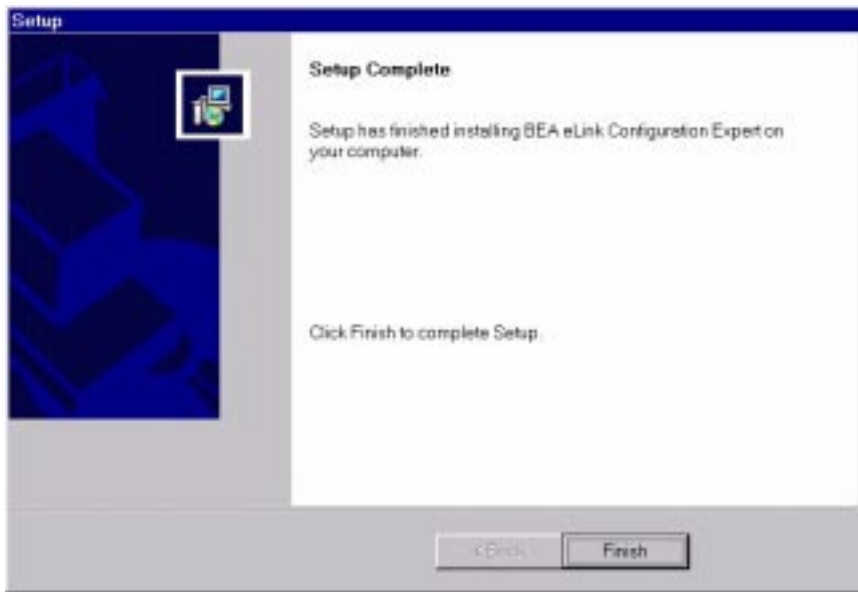


9. This screen displays the status of the installation as it progresses. When the installation process is completed, an Information message displays.



10. This message serves as a reminder that you need to enter the information about your development environment machines, and instructs you how to do so. When you have read the message, click **OK**. The Setup Complete screen displays.

Figure 1-8 Setup Complete Screen



11. Click Finish. If you chose to install BEA Jolt 1.2, continue with Step 12. If you chose to install only the Configuration Expert, the process is complete.
12. The Jolt 1.2 Installation Welcome screen displays.

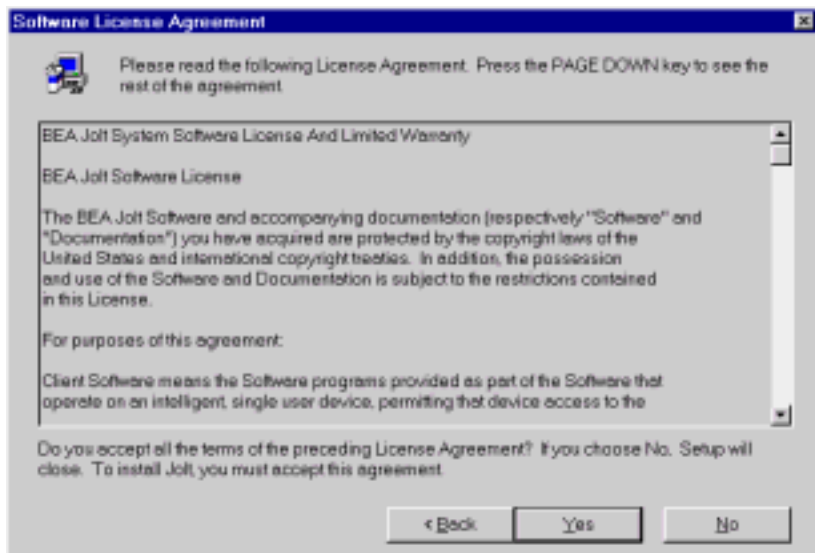
1 Installing the BEA eLink Foundation

Figure 1-9 Jolt 1.2 Installation Welcome Screen



13. Click **Next**. The Jolt License Agreement screen displays.

Figure 1-10 Jolt License Agreement Screen



14. Read the License Agreement. Click **Yes** to accept the terms of the agreement and continue with the product installation, or click **No** to exit the installation process. If you click **Yes**, the Select Components screen displays.

Figure 1-11 Select Components Screen



15. Select the components you want to install by clicking in the check box next to each component. Only the checked components will be installed. To deselect a checked component, click in the check box to remove the check mark.
16. If you want to change the destination folder, click **Browse** and select the desired folder.
17. When you have selected all the desired components and the destination folder, click **Next**. The Jolt 1.2 Relay Front-End Destination screen displays.

Figure 1-12 Jolt 1.2 Relay Front-End Destination Screen



18. Click **Browse** and choose the location where you want to install the Jolt 1.2 Relay Front-End. Click **Next**. The Jolt 1.2 Relay Back-End Destination screen displays.

Figure 1-13 Jolt 1.2 Relay Back-End Destination Screen



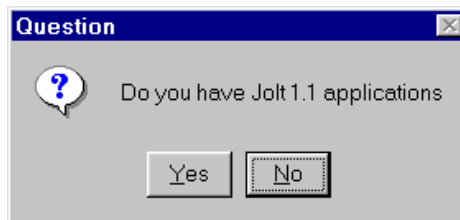
19. Click **Browse** and choose the location where you want to install the Jolt 1.2 Relay Back-End. Click **Next**. The Jolt 1.2 Client Destination screen displays.

Figure 1-14 Jolt 1.2 Client Destination Screen



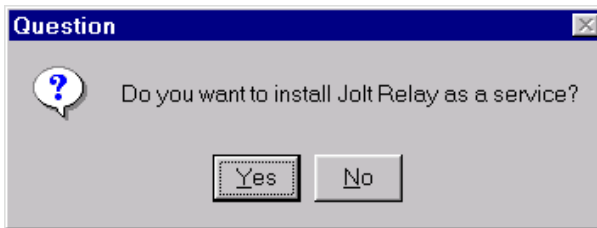
20. Click **Browse** and choose the location where you want to install the Jolt 1.2 Client. Click **Next**. A message displays asking if you have Jolt 1.1 applications.

Figure 1-15 Jolt 1.1 Question



21. Click **Yes** if you have Jolt 1.1 applications, or **No** if you do not. The installation process begins. A message displays, asking if you want to install Jolt Relay as a service.

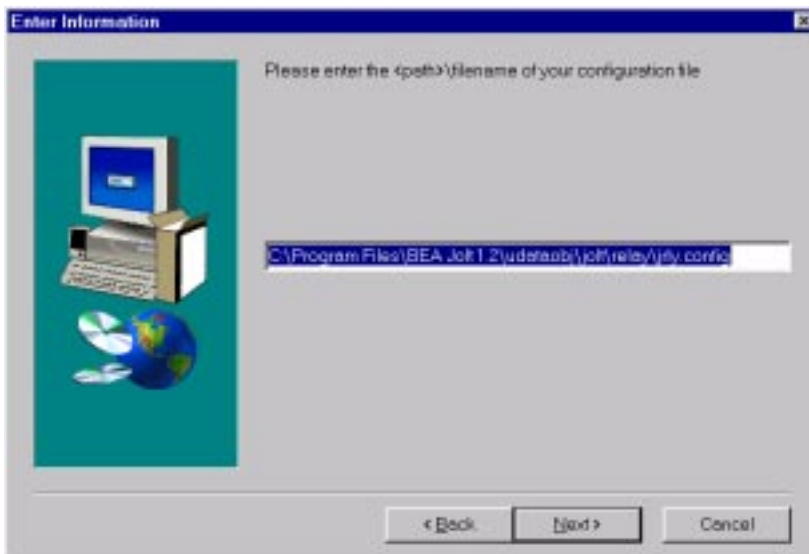
Figure 1-16 Jolt Relay Question



22. Click **Yes** if you want to install Jolt Relay as a service and continue with Step 23. Click **No** if you do not want to install Jolt Relay as a service and continue with Step 25.

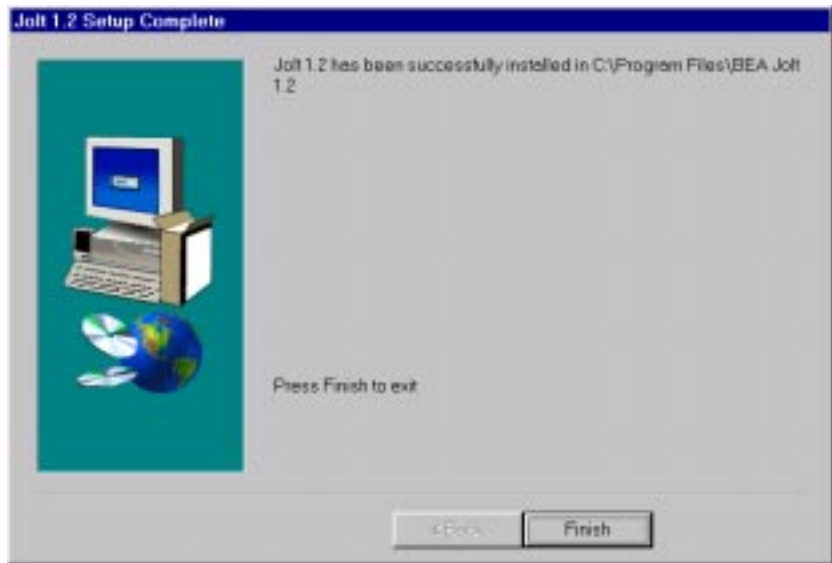
23. If you selected to install Jolt Relay as a service, the Configuration File Path screen displays.

Figure 1-17 Configuration File Path screen



24. Enter the path where you want to install the Jolt 1.2 configuration file and click Next. The Setup Complete screen displays.

Figure 1-18 Setup Complete Screen



25. Click Finish. The Jolt 1.2 installation is complete.

Installing Your Product License

Your product license was delivered on the floppy diskette that you received on the box with the software CDROM.

Installing the Product License on UNIX Platforms

1. Install the contents of the floppy diskette on your machine.

Note: The floppy diskette cannot be read on a computer running the UNIX system. If you are using a UNIX platform, read the floppy onto a Windows machine and transfer the license file to the UNIX machine. To verify that the UNIX system has accepted the file, run the `tmadmin -v` command.

2. Make a copy of the new portion of your license file and append it to the existing license file in `$TUXDIR/udataobj/lic.txt`.

Caution: Make certain not to overwrite any existing license you may have already installed for another BEA Systems, Inc. product. This may invalidate it and the eLink Foundation license.

Installing the Product License on NT Platforms

1. Install the contents of the floppy on your machine.
2. Respond to prompts directing you to move your product license file to `$TUXDIR/udataobj/lic.txt`.

Uninstalling the BEA eLink Foundation

If you need to uninstall the BEA eLink Foundation, use the uninstall procedure appropriate for your operating system.

Uninstalling on UNIX Platforms

To uninstall the eLink Foundation on a UNIX system:

1. Make sure that any BEA Jolt-related applications are shut down.
2. Enter the UNIX command (`rm`) to remove the Configuration Expert and Jolt program files.

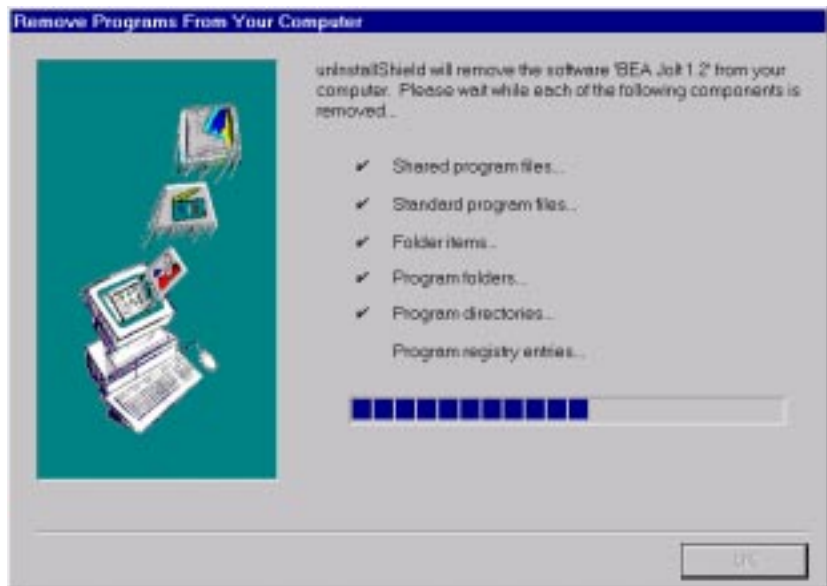
Uninstalling on Windows NT

To uninstall the eLink Foundation on a Windows NT system:

1 *Installing the BEA eLink Foundation*

1. Click the Start button, and then point to **Settings**. Point to the folder that contains **Control Panel**, and then click **Control Panel**.
2. Double click on the **Add/Remove Programs** option from the **Control Panel** listings to access the **Add/Remove Programs** properties window.
3. In the **Add/Remove Program** properties window, select **BEA Jolt 1.2** or **Configuration Expert** from the program list and click the **Add/Remove** button.
4. The uninstall process begins. The **Remove Programs From Your Computer** screen displays. Click **OK** to complete the uninstall process.

Figure 1-19 Remove Programs From Your Computer Screen



2 Configuring the BEA eLink Foundation

Now that you have successfully installed the BEA eLink Foundation software packages, you must set up parts of the BEA eLink Platform system software to prepare for developing or installing your application. This section gets you started with configuring the BEA eLink Platform.

Creating a UBBCONFIG File

Each BEA eLink Platform (BEA Tuxedo) system application has a configuration file, commonly called the UBBCONFIG file, which specifies the application parameters that are installation dependent. The configuration file should have a name that begins with something mnemonic and ends with `ubb`, (for example, `myapp.ubb`). Usually, you must edit this file before you can boot the application.

The eLink Foundation includes the Configuration Expert. This tool provides an efficient way to generate the BEA Tuxedo configuration information without having to bother with the configuration syntax details. The Configuration Expert offers a fast, intuitive method of configuring BEA Tuxedo as an alternative to (or a very productive starting point for) editing the UBBCONFIG file.

The Configuration Expert is a java application that generates BEA eLink Platform configurations for all supported operating systems.

Based on your input and direction, the Configuration Expert performs the following functions:

- Creates the application configuration `ubbconfig` file.
- Creates the scripts that describe the required operations that must be performed manually if multiple machines are involved in the configuration (start the `tlisten` processes, create the transaction log files on other machines)

If run on a server platform, the Configuration Expert also allows you to:

- Load the text configuration file (`ubbconfig`) into the binary `TUXCONFIG` file, using the `tmloadcf` command.
- Create the transaction log (TLOG) file on the master machine if this is required—that is, if the configuration requires transactions.
- Boot and/or shut down the application.

Starting the Configuration Expert

Perform the appropriate steps for your operating system platform.

Windows NT Platforms

On Windows NT platforms, from the **Start** menu on the Windows Taskbar, choose **Start>Programs>BEA eLink>Configuration Expert** or **Start>Programs>BEA eLink>Configuration Expert Setup**.

If you have set up a shortcut to the Configuration Expert, simply double-click on the icon on your desktop.

1. Use Configuration Expert Setup first to define machines.
2. Use Configuration Expert to establish application configurations.

UNIX Platforms

On UNIX platforms (Bourne shell), change directories (`cd`) to `<install_directory_name>/ConfigExpert/bin/`.

Enter the following command to define machines (one time only):

```
sh ./ConfigInstall
```

Enter the following command to set up application configurations:

```
sh ./ConfigExpert
```

Enter the following command to update machine definitions:

```
sh ./ConfigEditor
```

For information on working with the Configuration Expert, refer to the online help in the Configuration Expert application (or on the eLink Foundation Documentation CDROM).

Sample Configuration File

This section uses the `UBBCONFIG` file from the `simpapp` application as a sample configuration file. The `simpapp` application is the simple BEA Tuxedo application delivered with BEA eLink Platform, found in `$TUXDIR/apps/simpapp`. The configuration file is called `ubbsimple`.

Listing 3-1 shows `ubbsimple` as delivered.

A tutorial on configuring `simpapp` may be found in the Configuration Expert online documentation, Sample: Configuring `simpapp`.

Listing 2-1 The `ubbsimple` Configuration File

```
#ident "@(#)apps:simpapp/ubbsimple 60.3"
#Skeleton UBBCONFIG file for the TUXEDO Simple Application.
#Replace the bracketed <> items with the appropriate values.
*RESOURCES
IPCKEY <Replace with a valid IPC Key>
```

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```
#Example:
#IPCKEY 123456
MASTER simple
MAXACCESSERS 5
MAXSERVERS 5
MAXSERVICES 10
MODEL SHM
LDBAL N
*MACHINES
DEFAULT:
APPDIR="<Replace with the current directory pathname>"
TUXCONFIG="<Replace with your TUXCONFIG Pathname>"
TUXDIR="<Directory where TUXEDO is installed>"
#Example:
# APPDIR="/home/me/simpapp"
# TUXCONFIG="/home/me/simpapp/tuxconfig"
# TUXDIR="/usr/tuxedo"
<Machine-name> LMID=simple
#Example:
#beatux LMID=simple
*GROUPS
GROUP1
LMID=simple GRPNO=1 OPENINFO=NONE
*SERVERS
DEFAULT:
CLOPT="-A"
simpserv SRVGRP=GROUP1 SRVID=1
*SERVICES
TOUPPER
```

Edit the configuration file for your application to replace the strings enclosed in angle brackets with values specific to your installation. Here is a description of the kinds of values you need to provide:

IPCKEY

carries a numeric key that identifies the shared memory segment where the structures used by your application are located. The value must be greater than 32,768 and less than 262,143.

machine_name

is the node name of the machine. To obtain the node name on a UNIX system, run the `uname -n` command. If you are using an NT platform and you do not know the node name of your machine, see your system administrator.

APPDIR = string_value

refers to directories in which application and administrative servers will be booted. *string_value* is the absolute path name of that directory, optionally followed by a colon-separated list of other directory path names, on the machine being defined.

TUXCONFIG = string_value

is the binary version of the UBBCONFIG file, produced by `tmloadcf(1)`. *string_value* is the absolute path name of the file or device of the TUXCONFIG file.

TUXDIR = string_value

names the base directory of the BEA Tuxedo system software. It must be an absolute path name.

If you need to look up other values when editing your configuration file, the complete syntax can be found on the `ubbconfig(5)` reference page. This can be found on the BEA eLink Platform Documentation CDROM.

Note: The configuration file must be edited before you use `tmloadcf(1)` to verify the IPC requirements, or `tmloadcf(1)` will fail with syntax errors.

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