SUN SEEBEYOND

JAVA™ COMPOSITE APPLICATION PLATFORM SUITE INSTALLATION GUIDE

Release 5.1.1

Sun microsystems

Version 20060626152432

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Chapter 1

Introduction

The introduction to the Sun Microsystems, Inc. Java™ Composite Application Platform Suite (Java CAPS) describes the general purpose, scope, and organization of the product. It also provides sources of related documentation and information.

What's in This Chapter

1.1 About eGate 5.1.1

This section provides an overview of the operation, structure, architecture, and components of the Sun SeeBeyond eGate™ Integrator (eGate) system.

1.1.1 eGate Basics

The purpose of the eGate system is to translate, transform, and route data between multiple external systems, and translate that data from one to many formats. eGate offers these features:

- **Client/Server Architecture**
  eGate leverages a Java-based client/server architecture that is open and flexible.
- **Effective Communication**
  eGate uses protocols and adapters that you select to communicate with and link multiple applications and databases across different operating systems.
- **Versatile Performance**
  eGate can interact with a large number of hardware systems, operating systems, message standards, communication protocols, and databases.

- **Multi-mode Operation**
  eGate operates in both real-time and batch/scheduled integration modes.
- **Convenient Bridges**
  eGate can bridge between older and newer systems, resulting in a centrally managed and unified enterprise.

1.1.2 eGate Integrator Components

The eGate system consists of:

- A Java 2 Platform Enterprise Edition (J2EE)-compatible middleware services (Sun SeeBeyond Integration Server)
- A messaging server (JMS)
- Data repositories
- Repository server
- Java Composite Application Platform Suite Installer (hereafter: Suite Installer)
- Enterprise Manager
- Enterprise Designer GUI
- Logical Host

For an in-depth description of the eGate components and how they function, see the *Sun SeeBeyond eGate Integrator User's Guide*.

1.1.3 Resource Considerations

eGate 5.1.1 functions can be distributed across various types of systems, as described below. Although the same system can act in three or all four capacities simultaneously, the expectation is that all machines may be distributed and communicating via TCP/IP.

The roles for systems in an eGate environment are:

Repository server: The Repository server stores the setup, components, and configuration information for the elements of an eGate Project (see the Enterprise Designer note, below). It also stores the product binary files that are required at run time by the Logical Hosts. Communication between the Repository and other Composite Application Platform Suite components can be configured to use either HTTP or HTTPS. The Enterprise Designer and Enterprise Manager clients can communicate with the Repository through a firewall.

The eGate run-time components, which include the Enterprise Manager, Logical Hosts, and any Projects or components deployed to them, provide their full functionality independent of the Repository.

A Repository server can run on any of the operating system platforms supported by eGate.

- **Suite Installer**: A Web-enabled application used for uploading Composite Application Platform Suite products into the Repository, and then downloading and installing the products from the Repository onto your system.

Note: *The Composite Application Platform Suite documentation is accessible through the Suite Installer.*

- **Sun SeeBeyond Enterprise Manager**: A Web-enabled application used for monitoring, managing, and configuring Java 2 Enterprise Edition (J2EE) and Schema Runtime Environment (SRE) applications that are running. It also enables deployment of Composite Application Platform Suite applications onto third-party servers. Enterprise Manager is independent from the Repository and for most tasks it is not necessary to have the Repository running.

Note: *An online Help system is accessible through Enterprise Manager.*

- **Sun SeeBeyond Enterprise Designer**: A graphical user interface (GUI) that is used to design and configure the logical components and physical resources of an eGate Project. Through this GUI, you develop Projects to process and route data through an eGate system. The major features of the Enterprise Designer are the Enterprise Explorer, which displays two views of the system in a typical Windows Explorer tree structure format, and the Project Editor, which displays various editors as you proceed through the development process of an eGate Project.

  Enterprise Designer only runs on Windows.

Note: *A Project organizes the files and packages and maintains the settings that comprise an eGate system. For instructions on how to set up and run a simple eGate Project, see the* ***Sun SeeBeyond eGate Integrator Tutorial****.*

- **Logical Host**: An instance of the eGate run-time environment that is installed on a host hardware platform, and contains one or more Integration Servers. It can also contain multiple messaging servers and external applications. Logical Hosts handle routing, translation, and transformation of data. Most sites should tune their Logical Hosts to maximize throughput; this usually translates to plenty of RAM, fast cache, and fast I/O.

  Domains can have only one IS and JMS. However, Logical Hosts, as created in the Environment Explorer, can have more than one IS, as well as more than one JMS. However, these must be configured to point to different domains.

  A Logical Host can run on any of the operating system platforms supported by eGate.

  For hardware/software resource requirements, see **"Supported Operating Systems" on page 20**.

1.2 About This Document

This section provides a chapter overview, purpose and scope of the installation guide, the intended audience, the writing conventions used in this document, and a screenshot disclaimer.

1.2.1 What's in This Document

This document is organized topically as follows:

- **Chapter 1 "Introduction"** gives a general preview of this document, its purpose, scope, and organization.
- **Chapter 2 "Overview of Installation"** gives you an overview of the installation process.
- **Chapter 3 "Installation Instructions for Repository"** provides instructions on how to upload and install an eGate Repository.
- **Chapter 4 "Installation Instructions for Uploading Files to the Repository"** provides instructions on how to upload product files to the eGate Repository.
- **Chapter 5 "Installation Instructions for Enterprise Manager"** provides instructions on how to install Enterprise Manager.
- **Chapter 6 "Installation Instructions for Enterprise Designer"** provides instructions on how to install Enterprise Designer on a Windows system. The Enterprise Designer GUI can only be installed on Windows.
- **Chapter 7 "Installation Instructions for Logical Host"** provides instructions on how to download and install the Logical Host.
- **Chapter 8 "Installation Instructions for ESRs"** provides instructions on how to install Emergency Software Releases (ESRs).
- **Chapter 9 "Upgrading to 5.1.1"** provides instructions on how to update your 5.0.x ICAN Repository to 5.1.1.
- **Chapter 11 "Installing New Product Components"** provides instructions on how to upload and install new product components (SAR files) onto a Repository that has already been installed.
- **Chapter 10 "Troubleshooting"** describes issues that may arise during the installation process and provides tips and solutions to resolve these issues.
- **Appendix A** lists the recommended and certified patches for UNIX and Linux systems.

1.2.2 Scope

This installation guide describes the procedures necessary to install the eGate product.

After the product is installed, you must customize it to execute your site-specific business logic and to interact with your other systems as required. The steps necessary

to perform those operations are discussed in the eGate documentation set and online Help systems.

1.2.3 Intended Audience

This guide is intended for experienced computer users who have the responsibility of helping to set up and maintain a fully functioning Java Composite Application Platform Suite system. This person must also understand any operating systems on which the Java Composite Application Platform Suite will be installed (Windows and UNIX), and must be thoroughly familiar with Windows-style GUI operations.

1.2.4 Text Conventions

The following conventions are observed throughout this document.

Table 1 Text Conventions

Text Convention	Used For	Examples
Bold	Names of buttons, files, icons, parameters, variables, methods, menus, and objects	▪ Click **OK**. ▪ On the **File** menu, click **Exit**. ▪ Select the **eGate.sar** file.
`Monospaced`	Command line arguments, code samples; variables are shown in ***bold italic***	`java -jar ***filename***.jar`
Blue bold	Hypertext links within document	See **Text Conventions** on page 17
Blue underlined	Hypertext links for Web addresses (URLs) or email addresses	http://www.sun.com

1.2.5 Screenshots

Depending on what products you have installed, and how they are configured, the screenshots in this document may differ from what you see on your system.

1.3 Related Documents

The following Sun documents provide additional information about the eGate Integrator system as explained in this guide:

- *Sun SeeBeyond eGate Integrator JMS Reference Guide*
- *Sun SeeBeyond eGate Integrator Release Notes*
- *Sun SeeBeyond eGate Integrator System Administration Guide*
- *Sun SeeBeyond eGate Integrator User's Guide*

- *Sun SeeBeyond eGate Integrator Tutorial*
- *Java Composite Application Platform Suite Deployment Guide*
- *Java Composite Application Platform Suite Primer*

See the *Java Composite Application Platform Suite Primer* for a complete list of eGate-related documentation. You can also refer to the appropriate Microsoft Windows or UNIX documents, if necessary.

For information on how to use a specific add-on product (for example, an eWay Intelligent Adapter), see the user's guide for that product.

1.4 Online Documents

The documentation for the Java Composite Application Platform Suite is distributed as a collection of online documents. These documents are viewable with the Acrobat Reader application from Adobe Systems. Acrobat Reader can be downloaded from:

http://www.adobe.com

1.5 Sun Microsystems, Inc. Web Site

The Sun Microsystems web site is your best source for up-to-the-minute product news and technical support information. The site's URL is:

http://www.sun.com

1.6 Documentation Feedback

We appreciate your feedback. Please send any comments or suggestions regarding this document to:

CAPS_docsfeedback@sun.com

Chapter 2

Overview of Installation

The overview lists system requirements and discusses the installation process.

What's in This Chapter

2.1 Overview

The major components of the installation are:

- Repository Server
- Suite Installer
- Sun SeeBeyond Enterprise Manager
- Sun SeeBeyond Enterprise Designer
- Logical Host
- Add-on components, such as eWays

Although you can install the Repository, Enterprise Manager, and Logical Host on any supported platform, you must install the Enterprise Designer on a Windows system. After installing and starting the Repository, use your browser to connect to the Suite Installer. From the Suite Installer you can:

- Upload products to the Repository.
- Download components.
- View product information home pages.

Once the Suite Installer is installed, use it to upload and download components required to run eGate, such as the Enterprise Manager, Enterprise Designer, and the Logical Host.

Before installing the Repository, Enterprise Designer, and Logical Host on your system, please read the following sections to ensure a smooth and error-free installation.

2.2 Supported Operating Systems

This section lists the supported operating system requirements for each platform. The **Readme.txt** file (located in the root directory of the three Repository ISO images and and DVD Part No. 708 0157-10) contains the most up-to-date operating system requirements for the supported platforms. The requirements listed in the following sections are in addition to the supported operating requirements.

eGate Integrator is available on these operating systems:

- Sun Solaris 8, 9, and 10 with required patches (SPARC)
- Sun Solaris 10 (AMD Opteron)
- HP Tru64 V5.1A and V5.1B with required patches
- HP-UX 11.0 and 11i (11.11) on PA-RISC, and 11i v2.0 (11.23) on Itanium with required patches and parameter changes
- IBM AIX 5L, versions 5.2 and 5.3 with required Maintenance level patches
- Red Hat Enterprise Linux AS 2.1 (Intel x86) and AS 3 (Intel x86)
- Red Hat Enterprise Linux AS 3 (AMD Opteron)
- SUSE Linux Enterprise Server 8 and 9 (Intel x86)
- Windows 2000 SP3 and SP4, Windows XP SP1a and SP2, and Windows Server 2003 SP1
- Japanese Sun Solaris 8, 9, and 10 with required patches (SPARC)
- Japanese HP-UX 11.0, 11i (PA-RISC), and 11i v2.0 (11.23) on Itanium with required patches and parameter changes
- Japanese IBM AIX 5L, versions 5.2 and 5.3 with required Maintenance level patches
- Japanese Windows 2000 SP3 and SP4, Windows XP SP1a and SP2, and Windows Server 2003 SP1
- Korean Sun Solaris 8, 9, and 10 with required patches (SPARC)
- Korean HP-UX 11.0, 11i (PA-RISC), and 11i v2.0 (11.23) on Itanium with required patches and parameter changes
- Korean IBM AIX 5L, version 5.2 with required Maintenance level patches
- Korean Windows 2000 SP3 and SP4, Windows XP SP1a and SP2, and Windows Server 2003 SP1

2.3 System Requirements

Your system configuration depends upon which systems you use and how you intend to use eGate. The following sections describe what you need to use eGate.

2.3.1 Internet Explorer Version

You must use Internet Explorer 6 with Service Pack 1 or Service Pack 2 to access Enterprise Manager.

2.3.2 Integration Server Directory and Domain Names Limitation

The installation directory of the Sun SeeBeyond Integration Server plus the Domain name of the Integration Server is limited to 100 characters.

2.3.3 Repository and Logical Host Firewall Port Requirements

When you have a firewall in place between a Repository Server and a Logical Host, selected ports must be open in order for monitoring to function properly.

- For Repository ports, ensure that the following monitor-side ports are open:
  - Base port +4 (RMI Connector)
  - Base port +5 (HTTP Connector)

  For example, if the default port is 12000, the RMI Connector port would be 12004 and the HTTP Connector port would be 12005.
- For Logical Host ports, ensure that the following Logical Host-side ports are open:
  - Base port +0 (HTTP Connector)
  - Base port +1 (RMI)
  - Base port +2

  For example, if the default port is 18000, the HTTP Connector port would be 18000, the RMI port would be 18001.

2.3.4 Windows System Requirements

The following tables list the minimum requirements for installing and running each of the eGate components on a Windows system. The RAM and disk space requirements do not take into consideration the RAM and disk space required by the operating system. For the best performance, you should install these components on different systems. However, if you choose to install some or all of these components on the same

machine (for example, in a test environment), keep in mind that the requirements for each additional component are cumulative.

Table 2 Windows System Requirements

Component	CPU	RAM	Disk Space
Enterprise Designer	1.2 GHz Pentium class	768 MB	250 MB
Repository	1.2 GHz Pentium class	240 MB	1.2 GB
Enterprise Manager	1.2 GHz Pentium class	400 MB	170 MB
Logical Host	1.2 GHz Pentium class	270 MB	250 MB

Additionally, to use eGate on Windows, you need:

- A TCP/IP network connection.
- Internet Explorer 6.0 with Service Pack 1 or Service Pack 2.

Additional considerations

- The disk space requirement listed for the Logical Host does not include space for the queues and log files that are created by the user as Integration and Message Services are executed.
- For additional information regarding sizing of a test or production system, consult the *Java Composite Application Platform Suite Deployment Guide*.
- eGate GUI is supported when using Microsoft Terminal Services©, but not with other "remote" Windows tools.

2.3.5 UNIX System Requirements

The following tables list the minimum requirements for installing the Repository and Logical Host on various UNIX systems. The RAM and disk space requirements do not take into consideration the RAM and disk space required by the operating system. For the best performance, you should install these components on different systems. However, if you choose to install both of these components on the same machine (for example, in a test environment), keep in mind that the requirements for each additional component are cumulative.

Dual (or multi) CPUs are recommended for best performance of the Logical Host, especially if you run the Repository and the Logical Host on the same system.

Table 3 HP Tru64 System Requirements

Component	CPU	RAM	Disk Space
Repository	667 MHz	380 MB	1000 MB
Enterprise Manager	667 MHz	400 MB	150 MB
Logical Host	667 MHz	320 MB	350 MB

Table 4 HP-UX Itanium and PA-RISC System Requirements

Component	CPU	RAM	Disk Space
Repository	540 MHz	280 MB	1150 MB
Enterprise Manager	540 MHz	400 MB	400 MB
Logical Host	540 MHz	450 MB	500 MB

Table 5 IBM AIX System Requirements

Component	CPU	RAM	Disk Space
Repository	450 MHz	180 MB	900 MB
Enterprise Manager	450 MHz	400 MB	180 MB
Logical Host	450 MHz	300 MB	450 MB

Table 6 Red Hat and SuSE Linux System Requirements

Component	CPU	RAM	Disk Space
Repository	1.2 GHz	240 MB	900 MB
Enterprise Manager	1.2 GHz	400 MB	180 MB
Logical Host	1.2 GHz	360 MB	350 MB

Table 7 Sun Solaris System Requirements

Component	CPU	RAM	Disk Space
Repository	400 MHz	240 MB	850 MB
Enterprise Manager	400 MHz	400 MB	210 MB
Logical Host	400 MHz	360 MB	400 MB

The Enterprise Designer can only be installed on Windows systems.

Additionally, to use eGate on UNIX, you need:

- A TCP/IP network connection.
- FTP and Telnet capabilities.

HP-UX

Sun only supports HP-UX running on 9000/8xx machines. 9000/8xx is 64 bits, but can also run in 32-bit mode. To determine if the system is 32 or 64 bits, type: **getconf KERNEL_BITS** at the command prompt. This returns either 32 or 64. Only 64-bits mode is supported.

Threads

The default values for HP-UX 11.0 and HP-UX 11i (11.11) on PA-RISC are set too low for most Java applications. Two kernel parameters need to be set so that the limit of the maximum number of threads per process is not encountered. Usually this problem

appears as a Java Out of Memory error. To fix the problem, set the value of the **max_thread_proc** higher than the expected maximum number of simultaneously active threads for your application. You can check the number of threads in your process by using the **-eprof** option available as of JDK 1.1.8. Analyze the **Java.eprof** file using **HPjmeter** by selecting the threads metric.

max_thread_proc (suggested value: 2000)
The maximum number of threads allowed in each process. The minimum value (and default) is 64, often too low for most Java applications. The maximum value is the value of **nkthread**.

nkthread (suggested value: 5000)
The total number of kernel threads available in the system. This parameter is similar to the **nproc** tunable except that it defines the limit for the total number of kernel threads able to run simultaneously in the system. The value must be greater than **nproc**. The default is approximately twice that of **nproc**. The maximum is 30000. The suggested value of **nkthread** is **2*max_thread_proc**. If you have many Java processes running and each running process uses many threads, you should increase this value.

IBM AIX

On IBM AIX, the Composite Application Platform Suite supports both 32- and 64-bit platforms. For your system to function properly, ensure that you install the correct SAR file:

- **logicalhost-AIX32.sar** (32-bit platforms)
- **logicalhost-AIX64.sar** (64-bit platforms)

Sun Solaris

If you intend to run the Sun SeeBeyond Integration Server in 64-bit mode on a Sun Solaris system, you must use Sun Solaris 9 or 10 and set the **-d64** argument. See the *Java Composite Application Platform Suite Deployment Guide* for instructions on how to set the **-d64** argument.

Note: *Only 64-bit kernels on Sun Solaris are supported.*

To Start Domains on Sun Solaris 8 Computers

Before you install the Logical Host on a Sun Solaris 8 computer, ensure that the computer has the correct 64-bit C++ standard library. The library is called **libCstd.so.1**, and it must be located in the **/usr/lib/64** directory. This library is included in the required Solaris 8 patch **108435-13**. If this library is missing, then you will not be able to start Domains on the computer. For additional information see **"Sun Solaris 8, 9, and 10 Patches" on page 172**.

Sun Java System Application Server 8.1 Enterprise Edition and Sun Solaris 10 Patches

For patch information see **"Sun Solaris 10 Patches" on page 173**.

Additional considerations

- The disk space requirement listed for the Logical Host does not include space for the queues and log files that are created by the user as Integration and Message Services are executed.
- For additional information regarding sizing of a test or production system, consult the *Java Composite Application Platform Suite Deployment Guide.*

2.4 Before You Install

The following sections explain issues to consider before you begin your eGate installation.

2.4.1 Windows Pre-Installation

Exit from all Windows programs prior to running the setup.

You need Administrator privileges to install eGate.

Default User Names and Passwords

For eGate's default user name and password, see the **Readme.txt** file.

2.5 About the Installation

Note: *If you are installing eGate components on the same system (including installing upgrades to existing installations), you must install the Repository (which includes the Suite Installer)* ***first****, followed in any order by the Enterprise Manager, Enterprise Designer, Logical Host, and add-ons.*

The installation is a multi-stage process that includes:

1. Installing the eGate Repository and Suite Installer.
2. Uploading the product files to the Repository via the Suite Installer.
3. Installing the Sun SeeBeyond Enterprise Manager via the Suite Installer.

   The Enterprise Manager installation procedure consists of downloading an archive file from a Web site and extracting it to a folder within your local machine.
4. Installing the Enterprise Designer GUI via the Suite Installer.

   The Enterprise Designer installation procedure consists of downloading an archive file from a Web site and extracting it to a folder within your local machine.

Important: *The eGate GUIs must be installed on a Windows system. See* **Chapter 6** *for more information.*

5 Installing the eGate Logical Host(s) from the Repository via Suite Installer.

The Logical Host installation procedure consists of downloading an archive file from a Web site and extracting it to a folder on your local machine.

6 Installing add-on components (such as eWays) via Suite Installer.

2.5.1 Installation Media

There are three ways to install Java CAPS products:

- Use the supplied URL to install online using the Sun Download Center.
- Use DVDs to install.
- Use ISO images to install that you downloaded to your system.

2.5.2 Contents of the Installation ISO Images

The following bullets list the ISO images and gives a general overview of the contents of each folder. The ISO image files are available to download from the web site; if desired, use the ISO files to create your own set of CD-ROMs (see Table 10 for a complete listing of what is in each ISO image):

- java-caps-5_1_1-repositoryCD1.iso (Windows/Sun Solaris)
  This ISO image contains the SAR files for installing the Repository for Windows and the named UNIX platforms along with the **Readme.txt** and **CAPS_Install_Guide.pdf** files.
- java-caps-5_1_1-repositoryCD2.iso (HP-UX/Tru64)
  This ISO image contains the SAR files for installing the Repository for the named UNIX platforms along with the **Readme.txt** and **CAPS_Install_Guide.pdf** files.
- java-caps-5_1_1-repositoryCD3.iso (IBM AIX/Linux)
  This ISO image contains the SAR files for installing the Repository for the named UNIX platforms along with the **Readme.txt** and **CAPS_Install_Guide.pdf** files.
- java-caps-5_1_1-products-cd1.iso
  This ISO image contains platform-nonspecific files for eGate Integrator, such as **eGate.sar** itself, documentation (**eGateDocs.sar**), and third-party source JAR files (such as WebLogic).
- java-caps-5_1_1-products-cd2.iso
  This ISO image contains the SAR files for installing Sun SeeBeyond eInsight™ Business Process Manager, Sun SeeBeyond eVision™ Studio, Sun SeeBeyond eBAM™ Studio, Sun SeeBeyond eTL™ Integrator, Sun SeeBeyond eView™ Studio, Alert Agent, CBO OTD Library, and eGate API Kit.
- java-caps-5_1_1-products-cd3.iso
  This ISO image contains the SAR files for installing all the eWays, the H7 OTD Library, the Swift OTD Library, and the SNMP Agent.

- java-caps-5_1_1-windows.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for all Windows platforms, and third-party source JAR files.
- java-caps-5_1_1-solaris.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for all the Sun platforms.
- java-caps-5_1_1-hp_ux.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for the HP-UX Itanium and PA-RISC platforms.
- java-caps-5_1_1-tru64.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for the HP Tru64 platforms.
- java-caps-5_1_1-aix.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for the AIX 32- and 64-bit platforms.
- java-caps-5_1_1-linux_amd64.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for the Linux AMD64 (AMD Opteron) platforms.
- java-caps-5_1_1-linux_x86.iso
  This ISO image contains the SAR files for installing the Enterprise Manager and Logical Host for the Linux *x*86 (Intel) platforms.

2.5.3 Contents of the Installation DVDs

There are two installation DVDs. The following bullets give a general overview of the contents of each DVD (see Table 11 for a complete listing):

- DVD - Part No. 708 0157-10
  The disc contains the SAR files for installing the eGate Repository for all platforms, all core products, all add-on products, all documentation, and the Windows versions of Enterprise Manager, Logical Host, and stcuddi.
- DVD - Part No. 708 0158-10
  The disc contains the SAR files for installing Enterprise Manager, Logical Host, and stcuddi for all platforms other than Windows.

2.5.4 Overview of the Installation Process

The installation process is divided into phases (see Figure 1).

- Step 1 installs the **Repository** and **Suite Installer** from the ISO images or DVD - Part No. 708 0157-10. The Repository stores and manages the setup, component, and configuration information for eGate Projects. Suite Installer is the tool from which you upload files to the Repository and download products to your system.
- Step 2 starts the Repository.

- Step 3 uploads **eGate.sar**, add-on applications (as needed), and the Enterprise Manager and Logical Host files to the Repository from the ISO images or the DVDs via Suite Installer.

Note: *Before you download and install components to your system, you must first upload them to the Repository.*

- Step 4 downloads and installs on your system:
  - **Enterprise Manager**, which enables you to deploy and monitor Projects.
  - **Enterprise Designer**, which enables you to configure the eGate system.
  - **Logical Host**, from which you control **Domains**.
  - **Add-on components**, such as eWay adapters for communication with specific external systems or OTD libraries.

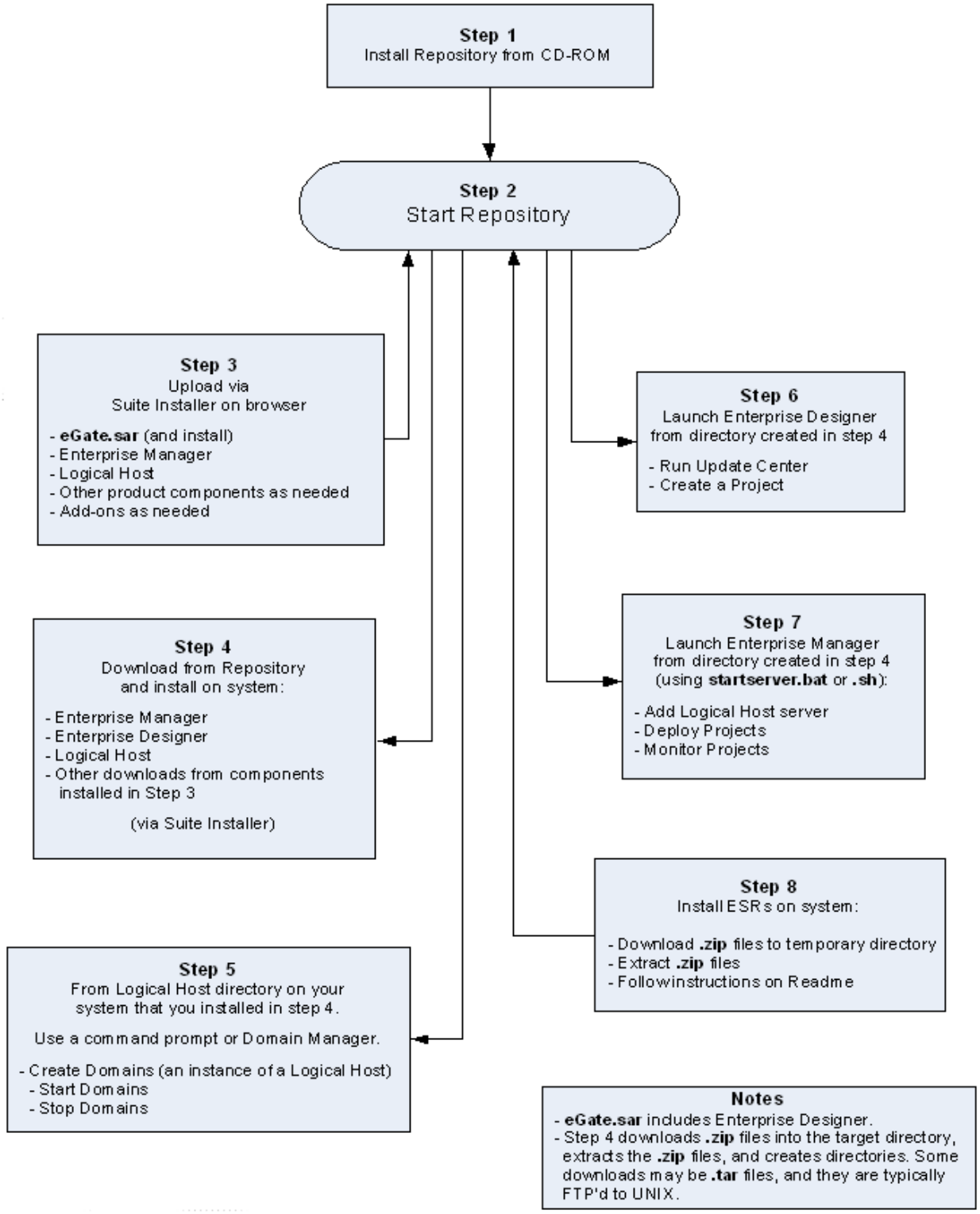
Note: *Before downloading and installing components from the Repository to your system via Suite Installer, you must first upload them to the Repository (see* **Step 3***).*

- Step 5 allows you to create, start, and stop Domains using **Domain Manager** or a command prompt.

  A Domain is an instance of a Logical Host, which is the eGate run-time environment that contains the software and other installed components that are required at run time, such as:
  - The **Sun SeeBeyond Integration Server**, which provides middleware services for security and state maintenance, data access and persistence, and transactions.
  - The **System Management Service**, which manages and monitors eGate deployments that may comprise other application servers in addition to the Sun SeeBeyond Integration Server.
  - The **Sun SeeBeyond JMS IQ Manager**, which provides JMS messaging.

  Although the Logical Host installation also includes the components necessary for basic communication between the eGate system and files, communications with databases and other products require that you add on components.
- Step 6 launches Enterprise Designer, runs Update Center, and creates a Project. See the *Sun SeeBeyond eGate Integrator Tutorial* and *Sun SeeBeyond eGate Integrator User's Guide* for detailed information on how to complete these tasks.
- Step 7 launches Enterprise Manager, which allows you to add a server (created in step 5), and then deploy and manage Projects. See the *Sun SeeBeyond eGate Integrator Tutorial* and *Sun SeeBeyond eGate Integrator System Administration Guide* for detailed information on how to complete these tasks.
- Step 8 allows you to install Emergency Software Releases (ESRs). You must first download the ESR ZIP file to a temporary directory and then extract the files to your system (see **Chapter 8** for detailed instructions). ESRs are updates that resolve known issues.

Figure 1 Overview of eGate Installation



Installation Flexibility

eGate Integrator 5.1.1 allows you to:

- Install more than one Logical Host on a single system.
- Manage multiple Projects on a single environment.
  - The separation of design from deployment makes it possible to use the same components in more than one Project.
- Centralize your software distribution.
  - After uploading software (including ESRs) into "software packages," Administrators select which physical server or groups of physical servers receive the software.
  - HTTP connections are used to upload and download the software to and from the Repository.

2.5.5 Repository Names and User Names

eGate maintains its own list of Repository names and user names; it does not poll the operating system or network to obtain or validate user names or Repository names. To simplify system administration, Sun recommends that you use your current naming conventions for Repository and user names.

eGate Repository and user names (as well as passwords) are case sensitive, even on Windows systems. Although there is no limitation on the length of the names, Sun recommends that you keep them a reasonable length. Valid characters include all letters and numbers, dashes, and underscores.

Important: *Periods, spaces, and other punctuation are not valid characters for any eGate user name, password, or component name.*

Default "Administrator" User Name

For eGate's default user name and password, see the **Readme.txt** file.

2.5.6 Environment Names

After you complete a Project, you must set up an Environment and deploy it. An Environment is a collection of Logical Host(s) that house Project components and information about external systems. You set up an Environment and deploy it after completing a Project. A deployment Environment includes:

- Logical Host (an instance of the eGate runtime environment)

- Sun SeeBeyond Integration Server
- Sun SeeBeyond JMS IQ Manager

- External Systems

Environment names can contain letters, numbers, dashes, and underscores. There is no character limit. Spaces and punctuation marks are not valid characters for Project names.

2.6 Preparing for Installation

The following sections list important information that you must decide upon before you install eGate.

2.6.1 What Must Be Determined Before You Install eGate

Before you install eGate, you must determine the following:

1. Select the system that will host the Repository.
2. Select the system(s) that will serve as Logical Hosts. It is possible for the same system to serve both as a Repository and a Logical Host. Whether you decide to do this depends on the requirements of your installation. Contact Sun Support if you need assistance making this determination.
3. Select the Windows system(s) that will host the Enterprise Designer.
4. Determine which add-on applications you require.
5. Ensure that each system that you select meets the system requirements for eGate. See the resource requirements in each of the following chapters for more information.

2.6.2 Information Required Before You Install eGate

You must have the following information at hand before you start the installation process:

1. The default eGate "Administrator" password for Windows installations (see **"Default "Administrator" User Name" on page 30**).
2. The name of each system where a Repository or Logical Host will be installed (see **"Repository Names and User Names" on page 30**).
3. Confirmation that you have ports available for the installation (see step 6B in **"To install the Repository on Windows using the GUI" on page 34**

The installation process will prompt you for the directory in which to install each eGate component.

2.6.3 Upgrading to 5.1.1

Upgrading from 5.1.0 to 5.1.1 is an in-place upgrade while upgrading from ICAN 5.0.5 or earlier requires installing the 5.1.1 Repository to a new location and then exporting from ICAN and importing into 5.1.1. See **Chapter 9** for instructions on how to complete a successful upgrade.

Note: *If you are upgrading from 5.0.0 to 5.0.1 (which must be performed before upgrading to 5.0.5), the* ***Migration ToolReadme.txt*** *file is located in the* ***Utilities*** *directory on both of the 5.0.1 Repository installation discs ("SeeBeyond ICAN Suite Repository Disc 1 for Windows/Solaris/AIX/Linux" and "SeeBeyond ICAN Suite Repository Disc-2 for HP-UX/Tru64"), as are the* ***MigrationTool.zip*** *and* ***MigrationTool.tar*** *files.*

Chapter 3

Installation Instructions for Repository

The following procedures provide the steps to install the eGate Repository. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

3.1 Overview

The following sections lead you through the steps to successfully install the Repository on the various platforms.

You can install the Repository on any eGate supported platform using one of three ISO images (which can be used to create CD-ROMs) or DVD Part No. 708 0157-10 mounted on the system on which the Repository is to be installed.

Important: *Underscores are not supported as the host name of the system running the Repository per specification RFC-1123.*

The Repository installation scripts are not the same on all of the Repository ISO images. See Table 8 for the location of the installation script that is correct for your installation.

Table 8 Repository DVD and ISO Image Install Files

Repository DVD Part Number and ISO Images	Install Files	Platforms on DVD and ISO Images
DVD Part No. 708 0157-10	install.bat install.sh	Windows All UNIX/Linux platforms
java-caps-5_1_1-repositoryCD1.iso	install.bat install.sh	Windows Sun Solaris
java-caps-5_1_1-repositoryCD2.iso	install.sh	HP-UX HP Tru64

Table 8 Repository DVD and ISO Image Install Files

Repository DVD Part Number and ISO Images	Install Files	Platforms on DVD and ISO Images
java-caps-5_1_1-repositoryCD3.iso	install.sh	IBM AIX Linux
Note: All three Repository ISO images and DVD Part No. 708 0157-10 contain the *Java Composite Application Platform Suite Installation Guide* (**CAPS_Install_Guide.pdf**) and **Readme.txt**. You should print and read these documents.		

3.2 Windows Installation of Repository

The following provides instructions for uploading and installing the Repository from an ISO image (or DVD). Although this installation focuses on the ISO image installation, the directions are the same for the DVD (**install.bat** is located on DVD Part No. 708 0157-10). There are two ways to install the Repository on a Windows system: using the GUI and using command line prompts.

Important: *For your Repository server running on Windows XP to receive incoming connections, configure your Windows XP Firewall so that the port to the Repository is open. See your Windows XP documentation for instructions on configuring the Windows XP Firewall.*

Note: *For instructions about how to set up failover support for the Repository using Microsoft Windows 2000 and Windows Server 2003 clustering technologies, see "Deploying eGate in a Windows Clustering Environment" in the* ***Java Composite Application Platform Suite Deployment Guide****.*

To install the Repository on Windows using the GUI

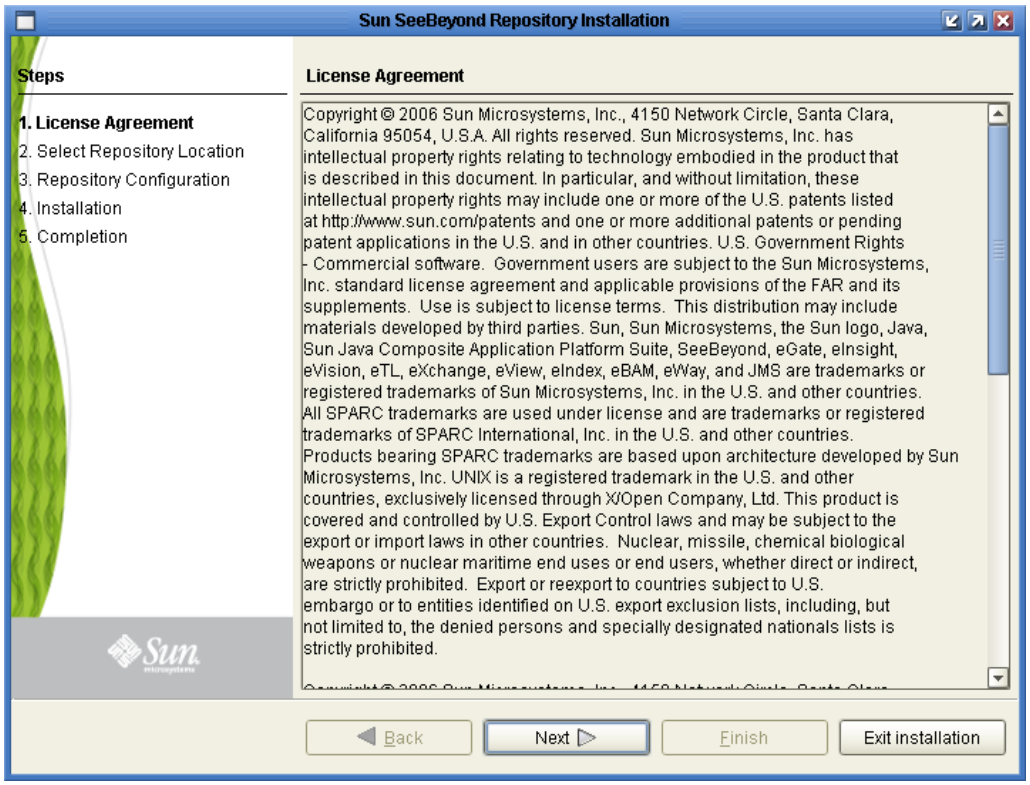
1. Exit from all Windows programs.
2. Open the **java-caps-5_1_1-repositoryCD1.iso** (Windows/Sun Solaris) folder and double-click **install.bat** at the top level of the directory.

   Or

   Insert **DVD Part No. 708 0157-10** in the DVD drive. The install wizard appears shortly after inserting the DVD.

   The **License Agreement** dialog box appears (see Figure 2).

Figure 2 License Agreement



3 Click **Next** after reading the license and agreeing to its conditions. The **Select Repository Location** dialog box appears (see Figure 3).

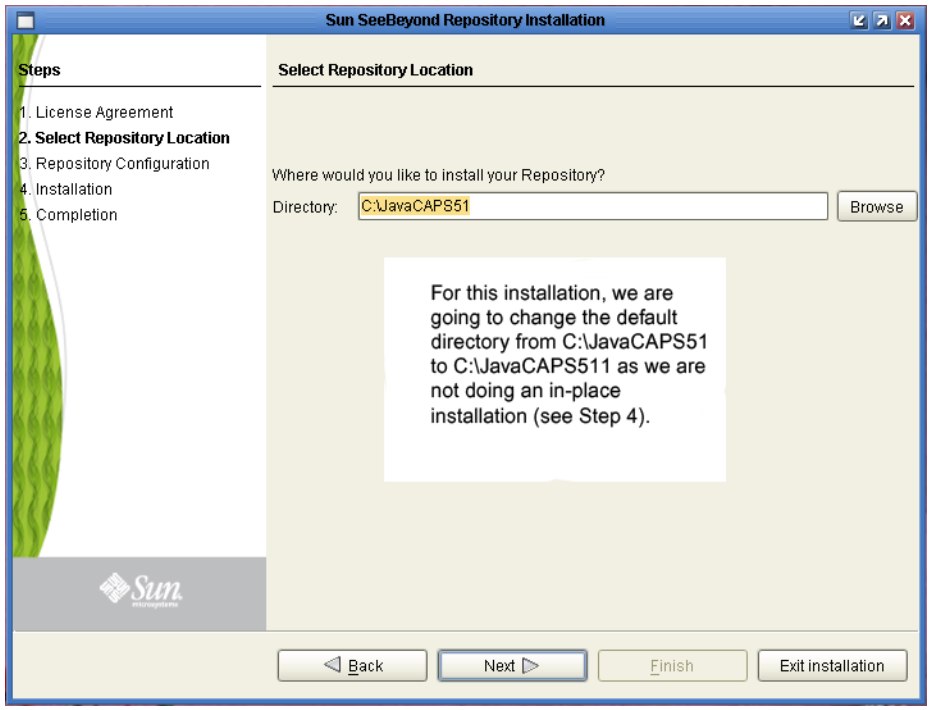
4 Specify a location that will be used as the "root" for the eGate installation. For example, if you accept the default (**C:\JavaCAPS51**), the Repository installation will create the **C:\JavaCAPS51** directory and install the Repository to **C:\JavaCAPS51\repository**.

Important: *If you are upgrading from 5.1.0 you install 5.1.1 on top of your 5.1.0 directory (and accept the default as stated in step 4, above). However, you must install the 5.1.1 Repository in a new directory if you are upgrading from any of the ICAN versions (for example: 5.0.3 or 5.0.5). For details, see* **Chapter 9**.

If you want to install the Repository server in a different location, click **Browse** or type in a new location. For the following installation, we are going to install the Repository to a new root directory, **C:\JavaCAPS511**, which in turn installs the Repository to **C:\JavaCAPS511\repository**.

Note: *You must enter a full path, including the drive letter, for your Repository location. Also note that there can be no spaces in Java CAPS path names. Because of a Java limitation, Project activation can fail on Windows if the path is too long (for example, deeply nested Composite Application Platform Suite installation and/or Projects). Sun recommends that you install in the default path wherever possible and avoid deeply nesting your Projects.*

Figure 3 Select Repository Location



Click **Next** when ready. The **Repository Configuration** dialog box appears (see Figure 4).

Important: *Depending upon your firewall, you may see a Windows Security Alert window. If you do, you must click* ***Unblock*** *to continue with the installation. This alert can appear a number of times during the Repository installation.*

5 Enter the following information:

A A name for the Repository in the **Name** box. The Repository name is the identifier for your eGate installation.

Note: *Do not name the Repository "repository." For more information, see* **"Naming the Repository" on page 157***.*

Record the name that you select. You will need it later.

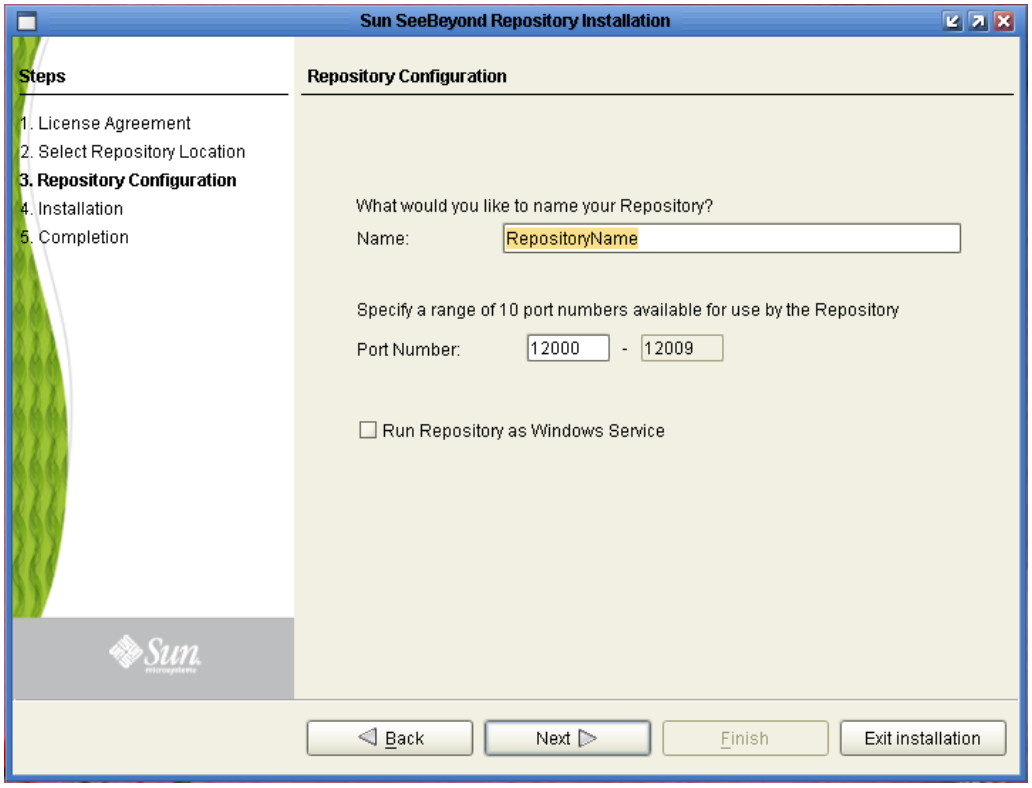
B The **Port Number** box automatically lists 10 consecutive available ports (12000–12009 is the default). You will need the base port number later when you connect to the Repository. For more information about the 10 consecutive ports, see the *Sun SeeBeyond eGate Integrator System Administration Guide*.

Note: *Make sure that the port number is not in use. To determine which ports are in use, type* ***netstat -a | find "<port_number>"*** *at a command prompt; this will return the name of any process using that port number. During the installation, the system selects nine additional port numbers which are sequentially above the port number you entered (for example:* ***12001*** *through* ***12009****). Be aware that the port checking*

performed at the time of the installation only detects ports that are in use at the time of the installation. This means that the installation will not detect ports that are configured to be used by other applications which are currently not running.

C Select the **Run repository as Windows Service** check box if you want the server to start automatically upon system reboot. If you do not select this option at this time, you can enable it later (see **"Starting the Repository as a Windows Service" on page 42**), but must otherwise start the Repository manually. Use the Repository Service Manager to set the Repository to run as a service after completing the installation.

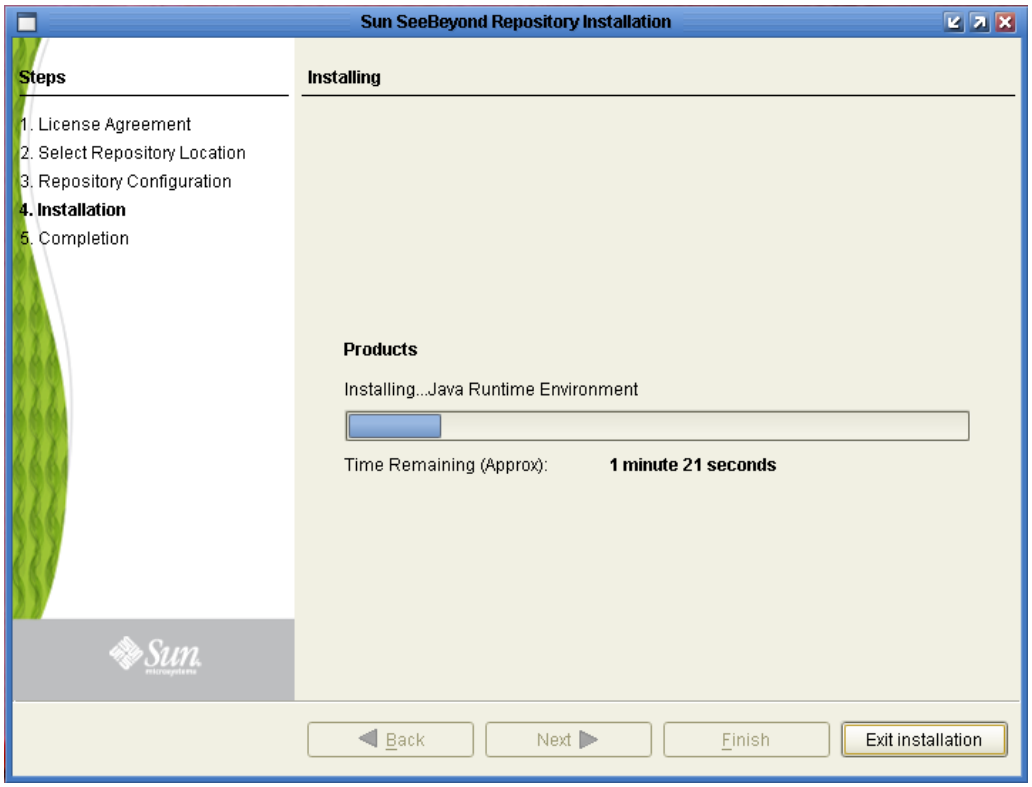
Figure 4 Repository Configuration



Note: *After installing, you must either reboot or go to the Control Panel and select* ***Administrative Tools*** *and* ***Services*** *to start the Repository for the first time if it is going to run as a Windows Service.*

D Click **Next** when ready. The **Installation** dialog box appears (see Figure 5). A progress bar indicates the approximate time remaining.

Figure 5 Installation

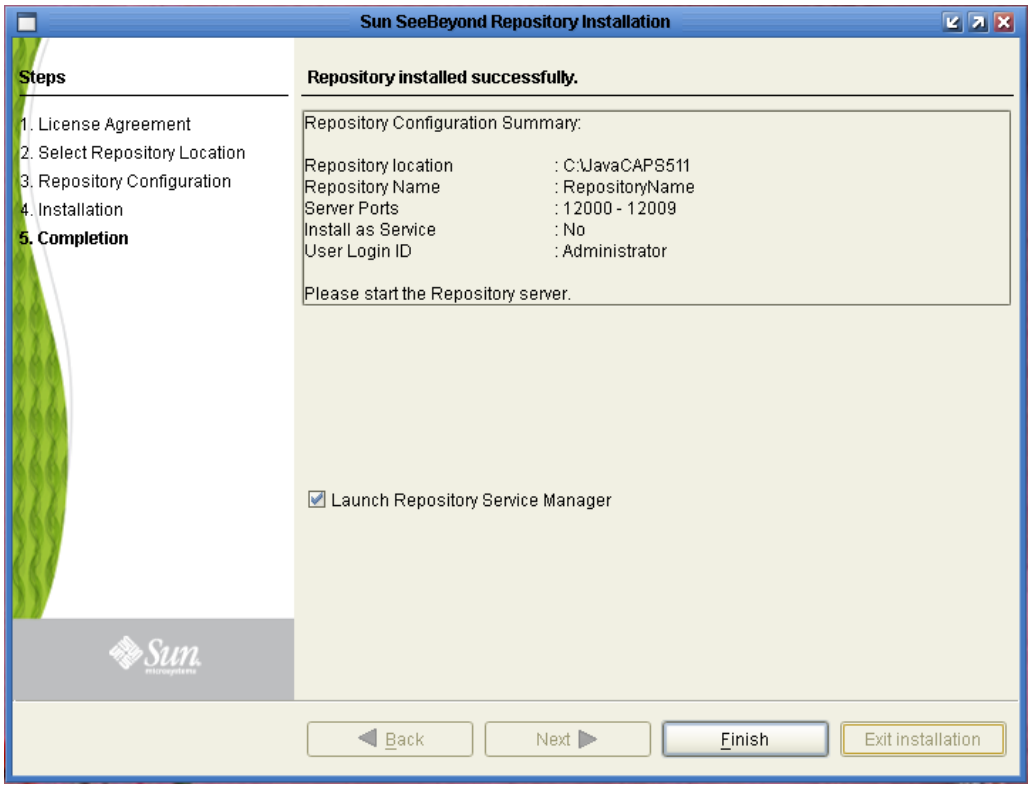


6 Click **Next** when the installation is complete. The **Completion** dialog box appears and informs you that the Repository installed successfully (see Figure 6), listing your selections during the installation:

- Repository location
- Repository Name
- Server Ports
- Install as Service
- User Login ID

Note: *Sun recommends you record the contents of this screen for future reference.*

Figure 6 Completion



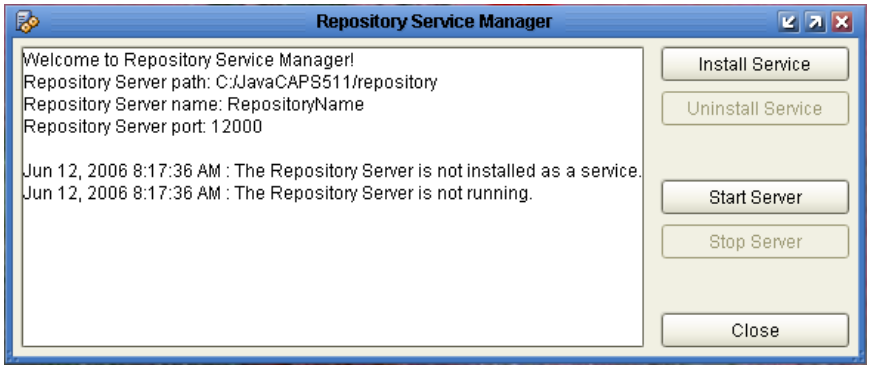
The default is set to **Launch Repository Service Manager**, which allows you to start the Repository server and set the Repository to run as a service.

7 Click **Finish**.

An installation log (**install.log**) is created in <*directory_path*>**\repository\logs**. Use this log file to view details about any problems you may encounter during the installation process.

The **Repository Service Manager** dialog box appears (see Figure 7).

Figure 7 Repository Service Manager



8 Click **Start Server** to start your Repository server. The server must be running to complete the installation.

Note: *See* **"To start and stop the Repository on Windows" on page 41** *for an alternate way to start and stop the Repository server.*

The Repository Service Manager also gives you the capability to do the following:

A Click **Stop Server** if the Repository is running and you want to shut it down.

B Click **Install Service** to set your Repository to start as a Windows Service. If you install the Repository to start as a Windows service, the Repository automatically starts at system startup and restarts after an abnormal shutdown. The Repository must be stopped before you can install it as a Windows Service.

- Click **Stop Server** to shut down the Repository if it is installed and running as a Windows service and you no longer want it to run as a service.
- Click **Uninstall Service** after you are informed that the server is no longer running.

Note: *See* **"Starting the Repository as a Windows Service" on page 42** *for an alternate way to start, stop, and uninstall the Repository as a Windows service.*

C Click **Close** to close the dialog box after your system informs you that the Repository server is running.

D Navigate to **<*C:\JavaCAPS511*>\repository** and double-click **servicemanager.bat**. to reopen the **Repository Service Manager** dialog box after the initial installation of the Repository.

where:

<*C:\JavaCAPS511*> is the directory where you installed CAPS.

To install the Repository on Windows using command line prompts

1 Insert the Repository - Disc 1 (Windows/Solaris) CD-ROM in the CD-ROM drive (or DVD1).

2 At the command prompt, navigate to the top level of the CD-ROM and enter: **install.bat -text**. The following prompt appears:

```
Please enter the base directory to install the Repository:
```

Type the full drive and path location (for example, **C:\JavaCAPS511**) and press **Enter**.

The location that you specify here will be used as the "root" for the eGate installation. For example, if you specify **C:\JavaCAPS511**, the Repository installation will create the **C:\JavaCAPS511** directory and install the Repository to **C:\JavaCAPS511\repository**.

Note: *This must be a full path, including the drive letter. Also note that there can be no spaces in Java CAPS path names. Because of a Java limitation, Project activation can fail on Windows if the path is too long (for example, deeply nested Composite Application Platform Suite installation and/or Projects). Sun recommends that you install in the default path wherever possible and avoid deeply nesting your projects.*

3 The next prompt displays the following message:

```
Please enter name of the Repository:
```

Type the name to be used for your Repository and press **Enter**. The Repository name is the identifier for your eGate installation.

4 The next prompt displays the following message:

```
The Repository needs a range of 10 consecutive tcpip ports
for http and related services.  Please enter the starting
port number:
```

Enter a Repository port number such as 12000. You will need the port number later when you connect to the Repository. For more information about the 10 consecutive ports, see the *Sun SeeBeyond eGate Integrator System Administration Guide*.

Note: *Make sure that the port number is not in use. To determine which ports are in use, type* ***netstat -a | find "<port_number>"*** *at a command prompt; this will return the name of any process using that port number. During the installation, the system selects nine additional port numbers which are sequentially above the port number you entered (for example:* ***12001*** *through* ***12009****). Be aware that the port checking performed at the time of the installation only detects ports that are in use at the time of the installation. This means that the installation will not detect ports that are configured to be used by other applications which are currently not running.*

Note: *If you select* ***y****, see* **"Starting the Repository as a Windows Service" on page 42** *to perform the steps necessary to start the Repository as a Windows service.*

To start and stop the Repository on Windows

1 Navigate to the directory where you installed the Repository (for example: **C:\JavaCAPS511\repository**).

2 Double-click **startserver.bat** to start the Repository on the port that you specified during installation.

You can redirect Repository server console messages to a text file by using the following command:

```
startserver.bat > ServerLog.txt 2>&1
```

3 Double-click **stopserver.bat** to stop the Repository.

Wait until the system prompts you that the server has started. You are then ready to upload product files to the Repository. Continue to **Chapter 4 "Installation Instructions for Uploading Files to the Repository" on page 47**.

3.2.1 JAVA_HOME

For certain utilities to work after they have been installed, such as the Enterprise Manager Command-Line Client and Command Line Code Generation, you must set the JAVA_HOME environment variable.

From the command prompt (or Terminal window in UNIX), type:

set JAVA_HOME=<*JavaCAPS_install_dir*>\<*installed_component*>\jre\1.5.x>

where:

<*JavaCAPS_install_dir*> is the directory where you installed 5.1.1 Java CAPS.

<*installed_component*> is the subdirectory name of the portion of 5.1.1 Java CAPS you installed (for example: "repository," "emanager," or "edesigner").

<1.5.x> is the runtime Java 1.5 that is installed when you installed 5.1.1 Java CAPS.

Note: *If you are running on a UNIX system, instead of using* ***set****, you would use* ***set env*** *or* ***export*** *when setting your JAVA_HOME environment variable.*

3.2.2 Starting the Repository as a Windows Service

Installing the Repository as a Windows service configures the Repository to automatically start up at system startup. This makes it possible for the Repository to automatically restart after an abnormal system shutdown.

You must have Administrator rights to the local Windows machine in order to configure the Repository to start as a service. The installation script writes to the Windows Registry; this cannot be done without Administrator rights.

Note: *The Repository Service Manager can also be used to install or uninstall the service.*

To start the Repository as a Windows Service

1. Use Windows Explorer to navigate to the Repository directory (for example, **C:\JavaCAPS511\repository**).
2. Double-click **installwinsvc.bat**.

   This runs the script that configures the Windows service to automatically run the Repository at system startup. The service will have the same name as the installed Repository.
3. Manually start the service the first time that you use it (this is prior to running Enterprise Manager).
   - A. Open the Windows **Control Panel**.
   - B. Double-click **Administrative Tools**.

     Double-click **Services**, and then locate **<*name_of_repository*>**
     where:
     <*name_of_repository*> is the name of the Repository that you want to start as a service.
   - C. Right-click **<*name_of_repository*>** and select **Properties**.
   - D. Ensure that the **Startup type** is **Automatic**, and then click **Start**.

Note: *From this time forward, the Repository will start automatically at system startup or whenever the system is rebooted.*

To remove the Repository Windows Service

1. With the Repository running, shut it down manually or use the Repository Service Manager. If manually:
   A. Open the Windows **Control Panel**.
   B. Double-click **Administrative Tools**.

      Double-click **Services**, and then locate ***<name_of_repository>***
      where:
      <name_of_repository> is the name of the Repository that you want to start as a service.
   C. Right-click ***<name_of_repository>*** and select **Properties**.
   D. Click **Stop**.
2. Use Windows Explorer to navigate to the Repository directory (for example, **C:\JavaCAPS511\repository**).
3. Double-click **uninstwinsvc.bat**. This runs the script that removes the Windows service that automatically starts the Repository at system startup.

You are now ready to upload product files to the Repository. Continue to **"Installation Instructions for Uploading Files to the Repository" on page 47**.

3.3 UNIX Installation of Repository

The following explains how to install the eGate Repository on your UNIX system. You can mount the CD-ROM (or DVD) on your UNIX system or FTP the installation files to your UNIX system via a Windows system. See **"UNIX System Requirements" on page 22** for additional information and installation requirements before proceeding.

To install the Repository on UNIX

1. If it is a UNIX system, log in as either a non-root or root user on the workstation containing the CD-ROM (or DVD) drive, and insert the Composite Application Platform Suite Repository - Disc 1, Composite Application Platform Suite Repository - Disc 2 CD-ROM, or Composite Application Platform Suite Repository - Disc 3 (depending on which UNIX platform you are using), or DVD1 into the drive.

Note: *To mount the CD-ROM or DVD, you must have root privileges. If the directory that you want to mount over does not exist, you must create it. Once this directory is created, mount the CD-ROM or DVD, using the appropriate command. The correct arguments for the mount command vary for each operating platform. See the following table for the recommended mounting commands.*

Table 9 Mounting a CD-ROM or DVD Drive Locally

Platform	Mount Command
HP Tru64	**mount -t cdfs -r -o noversion -o rrip /dev/rz<extension>/cdrom**

Table 9 Mounting a CD-ROM or DVD Drive Locally (Continued)

Platform	Mount Command
HP-UX 11i v2.0 (11.23) on Itanium HP-UX 11i (11.11) and HP-UX 11.0 on PA-RISC	**pfs_mount -t rrip -o ro /dev/dsk/c0t<extension> /cdrom** where **/cdrom** is the mount point.
IBM AIX 5L, versions 5.2 and 5.3	**mount -V cdrfs -r /dev/cd<extension> /cdrom**
Red Hat Linux and SUSE Linux	**mount -t iso9660 /dev/cdrom /cdrom** (On Linux systems, you may have to change the CD-ROM drive configuration from read-only to execute. By default, on Linux systems, CD-ROM drives have read-only permission.)
Sun Solaris 8, 9, 10 (SPARC), and 10 (AMD Opteron)	**mount -F hsfs -o ro /dev/dsk/c0t<extension> /cdrom** (On Sun Solaris systems, the CD-ROM drive mounts automatically if the volume manager is running.)
Note: Mounting of the CD-ROM or DVD on a Sun Solaris machine is automatic; for all other platforms you must be logged in as root to mount the CD-ROM or DVD. Note: The mounting commands listed above work for both CD-ROMs and DVDs.	

2 Navigate to the root directory of the CD-ROM on your UNIX system.

3 Type **sh install.sh** and press **Enter** to install the Repository. The following prompt appears:

```
Please enter the base directory to install the Repository:
```

Type the full path location (for example, ***<JavaCAPS511>***) and press **Enter**.

The location that you specify here will be used as the root for the eGate installation. For example, if you specify ***<JavaCAPS511>***, the Repository installation will create the ***<JavaCAPS511>*** directory and install the Repository to ***<JavaCAPS511>*/repository**.

Important: *If you are upgrading you must install the Repository in a new directory; it cannot be installed on top of a previously installed version (for example: 5.0.3 or 5.0.5). For details, see* **Chapter 9**.

4 The next prompt displays the following message:

```
Please enter name of the Repository:
```

Type the name to be used for your Repository and press **Enter**. The Repository name is the identifier for your eGate installation.

Note: *Do not name the Repository "repository." For more information, see* **"Naming the Repository" on page 157**.

Record the name that you select. You will need it later.

5 The next prompt displays the following message:

```
The Repository needs a range of 10 consecutive tcpip ports
for http and related services. Please enter the starting
port number:
```

Enter a Repository port number such as 12000. You will need the port number later when you connect to the Repository.

Note: *Make sure that the port number is not in use. To determine whether a port is available, type* ***netstat -a | grep <port_number>*** *at a command prompt; this will return the name of any process using that port number. During the installation, the system selects nine additional port numbers which are sequentially above the port number you entered (for example:* ***12001*** *through* ***12009****). Be aware that the port checking performed at the time of the installation only detects ports that are in use at the time of the installation. This means that the installation will not detect ports that are configured to be used by other applications which are currently not running.*

6. Change the directory to the location where you installed the Repository after the installation completes. For example:

   cd ***<JavaCAPS511>/repository***

7. Run the following command *before* starting the Repository if you installed on HP Tru64 and the shell is **csh**:

   ```
   unlimit
   ```

   Run the following command *before* starting the Repository if you installed on HP Tru64 and the shell is **bash**:

   ```
   ulimit -Sd 1048576
   ```

8. To start the Repository, type **sh startserver.sh**. The Repository server starts in the background. To confirm that the Repository server has started, use your Web browser to type the URL and port number, for example:

   http://***<server_name>***:***<port_number>***

   where:

   <server_name> is the name of the UNIX server where you installed the Repository and

   <port_number> is the port you specified previously.

   Use a text editor such as **vi** to view the contents of ***<JavaCAPS511>*/repository/server/logs/catalina.out** to see the Repository server console messages. This is a useful way to view the progress of the Repository server startup process.

Important: *The Repository is a separate process from your shell; unlike Windows, it continues to run after you log off from your UNIX account. To stop the Repository, you must run* ***sh stopserver.sh****.*

3.3.1 Starting the Repository as a UNIX Daemon

You can have the Repository start automatically upon startup of the UNIX system. To do this, create an init script that calls the **nohup** command with the **startserver.sh** script. For example:

nohup /home/*jsmith*/JavaCAPS511/repository/startserver.sh &

This script creates a UNIX Daemon that runs in the background for the following platforms:

- HP Tru64 V5.1A and V5.1B
- HP-UX 11.0 and 11i (11.11) on PA-RISC, and 11i v2.0 (11.23) on Itanium
- IBM AIX 5L versions 5.2 and 5.3
- Red Hat Enterprise Linux AS 2.1 (Intel x86)
- Red Hat Enterprise Linux AS 3 (Intel x86)
- Sun Solaris 8, 9, and 10
- SUSE Linux Enterprise Server 8 (Intel x86)

All Repository startup and shutdown command line information is sent to an output text file called **nohup.out**, which is located in the directory where you installed the Repository (for example: **/home/*jsmith*/JavaCAPS511/repository**). For additional details, see the system administration documentation for the specific UNIX platform.

You are now ready to upload product files to the Repository. Continue to **"Installation Instructions for Uploading Files to the Repository" on page 47**.

Chapter 4

Installation Instructions for Uploading Files to the Repository

The process of uploading files to the eGate Repository are discussed in the following sections. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

4.1 Overview

Before Java CAPS products can be installed on client systems, the product installation files must be uploaded from the ISO images or DVDs to the eGate Repository. This step only needs to be performed one time for each product.

Regardless of what operating system your Repository is running on, you must upload the product installation files from a Windows machine to your Repository.

After you upload the product installation files to the Repository, the products will be available for downloading to the client systems.

4.2 Uploading Files to the Repository

In the following procedures, you will use the Suite Installer, a Web-based application, to upload files from the ISO images or DVDs to the Repository.

The product SAR files must be uploaded to the Repository in the proper sequence. The following procedures indicate which order to upload the product SAR files.

Note: *Before uploading product SAR files to the Repository, see* **"Improving Upload Performance" on page 157** *for a tip on how to improve upload performance.*

These SAR files are required for all Repositories:

- **eGate.sar**

- **Enterprise_Manager-<*platform*>.sar**

  where:

  <*platform*> is the platform name of the Enterprise Manager SAR file.

- **logicalhost-<*platform*>.sar**

  where:

  <*platform*> is the platform name of the Logical Host SAR file.

Note: *In versions 5.0.5 and earlier the* ***logicalhost-win32.sar*** *file for Windows was automatically installed in the Repository by default; this is no longer the case. For whatever system on which you intend to run a Logical Host, you must install the specific Logical Host* SAR *file. See Table 13 for a complete list of Logical Host* SAR *files.*

- Any product SAR files, for example:
  - **JMSClientToSREJMSIQMgr.sar** (provides backward compatibility for e*Gate 4.5.x JMS)
  - The **Enterprise_Manager_SVGPlugin-win32.sar** file is not required for viewing Connectivity Maps in Enterprise Manager. However, installing this SAR file enhances the Connectivity Map's capabilities. See **"Enterprise Manager Recognition of Adobe SVG Viewer Plug-in" on page 159** and **"Enterprise_Manager_SVGPlugin-win32 SAR File" on page 159** for additional information.
  - **CBO_OTD_v1_0.sar** (a horizontal business language that provides an open interface for interaction with vertical industry standards)

Note: *See the* ***Sun SeeBeyond eGate Integrator User's Guide*** *for information about the Canonical Business Object (CBO) OTD Library.*

- Any Add-on SAR files (such as eWays)
  - When installing an eWay, include the following, for example:
    - **<*name_of*>eWay.sar**
    - **<*name_of*>eWayDocs.sar** (includes documentation **.pdf** files, sample Projects, and JavaDocs)
    - **FileeWay.sar**

Note: *Before you can begin this procedure, your Composite Application Platform Suite Repository server must be running. See* **Chapter 3 "Installation Instructions for Repository" on page 33** *for instructions on starting your Repository server.*

To start Suite Installer

1. Start Internet Explorer.
2. Type **http://<*hostname*>:<*port_number*>** in the **Address** line

   where:

hostname is the TCP/IP host name of the server where you installed the Repository—not the name of the Repository itself.

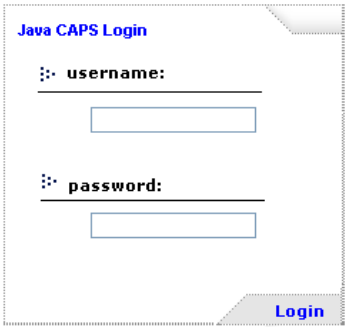
port_number is the port number that you specified during the installation of the Repository.

Note: *The host name must be valid.*

3 Press **Enter** when ready.

The **Java CAPS Login** window of the Suite Installer appears (see Figure 8). The Suite Installer serves as an update center, management center, and a dashboard to gain access to available applications. In addition, system administrators use the Suite Installer to upload components to the Repository server.

Figure 8 Java CAPS Login window



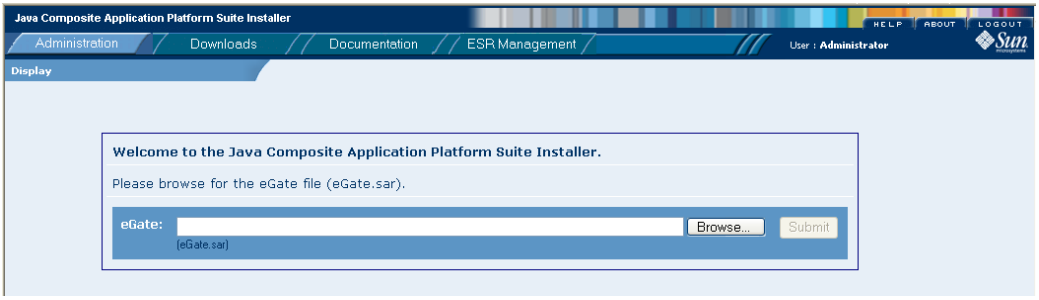
4 Enter your **username** and **password** and click **Login**. Note that this is your Composite Application Platform Suite administrator username and password, not your operating system/network username and password. See the **Readme.txt** file on the root directory of the Repository ISO images or DVD Part No. 708 0157-10 for the default username and password.

The Suite Installer appears with the **Administration** tab active.

To upload products to the Repository

The eGate.sar screen appears (see Figure 9). You are now ready to select and submit (upload) the **eGate.sar** file.

Figure 9 Select eGate.sar File

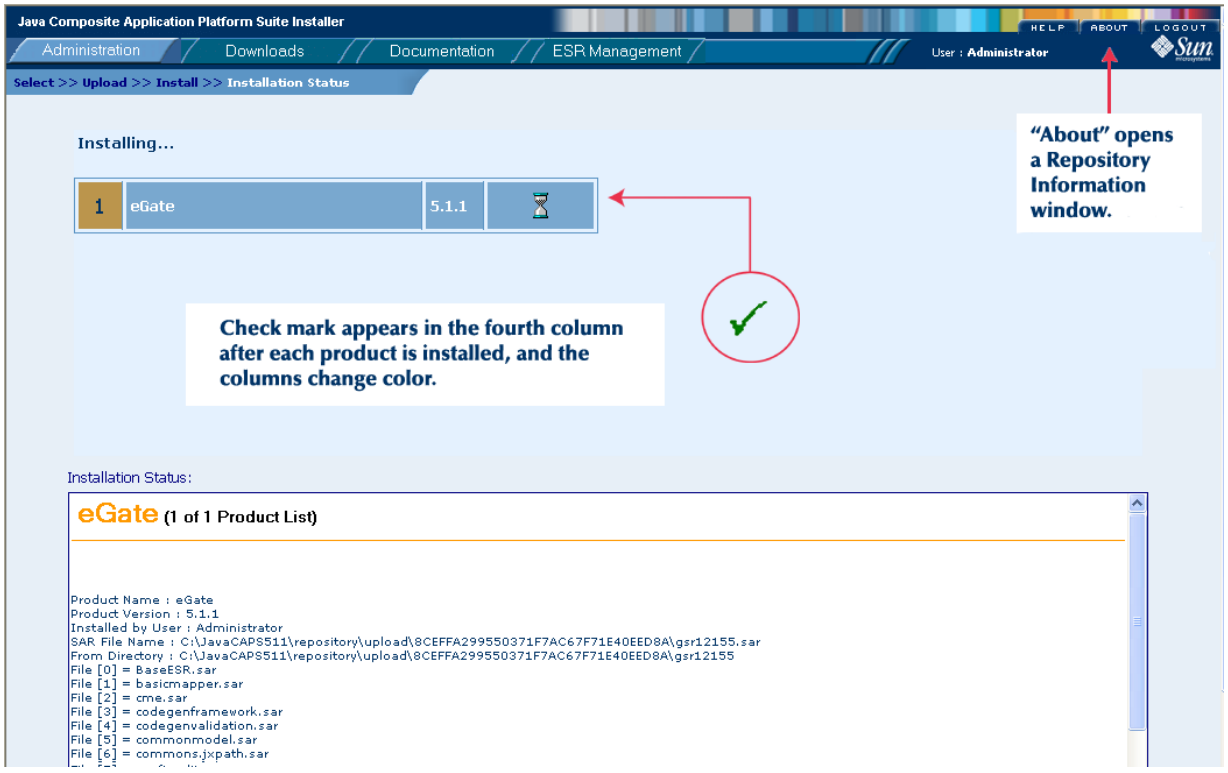


1 Click **Browse** to navigate to **eGate.sar**. This file is located in the java-caps-5_1_1-products-cd1.iso folder or DVD Part No. 708 0157-10. Select it and click **Submit**. **eGate.sar** begins to install.

The Installation Status screen appears (see Figure 10), informing you what is installing. As a product component installs, a check mark appears in the fourth column.

The lower portion of the screen informs you which product is installing, displays Installation Status details for the product, and lets you know how many products are in the queue to install.

Figure 10 Installation Status



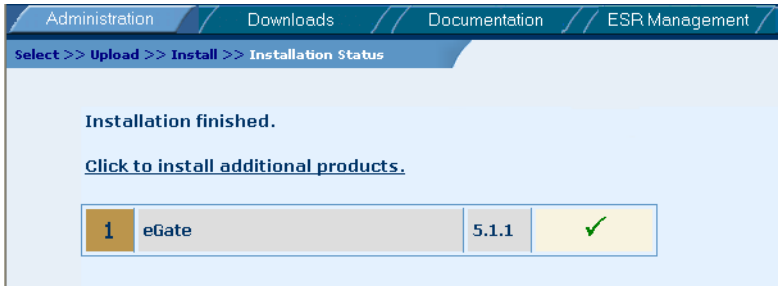
eGate.sar is a large file, and uploading it may take several minutes.

As product SAR files are uploaded to the Repository, two actions take place:

- The product SAR file is uploaded to the Repository server from your installation media. The length of time required for the file transfer depends on the size of the file and the speed of your network.
- The product SAR file is decompressed and installed into the Repository.

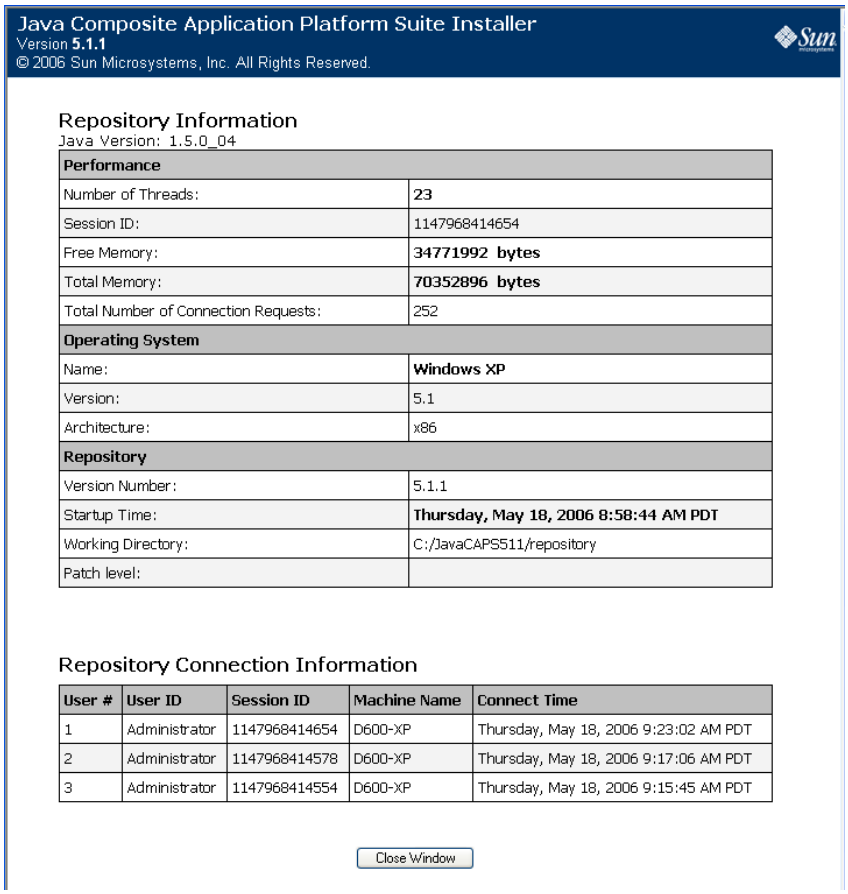
The hour glass twirls until the **eGate.sar** upload finishes. At that point a check mark appears in the fourth column under **Installing Files** (see Figure 11).

Figure 11 Installation Finished



2 (optional): To see additional information about your Repository such as performance, working directory, connection information, and the version of Java, Click **About** (see Figure 10).

Figure 12 Repository Information



Java Composite Application Platform Suite Installer
Version 5.1.1
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Repository Information
Java Version: 1.5.0_04

Performance	
Number of Threads:	23
Session ID:	1147968414654
Free Memory:	34771992 bytes
Total Memory:	70352896 bytes
Total Number of Connection Requests:	252
Operating System	
Name:	Windows XP
Version:	5.1
Architecture:	x86
Repository	
Version Number:	5.1.1
Startup Time:	Thursday, May 18, 2006 8:58:44 AM PDT
Working Directory:	C:/JavaCAPS511/repository
Patch level:	

Repository Connection Information

User #	User ID	Session ID	Machine Name	Connect Time
1	Administrator	1147968414654	D600-XP	Thursday, May 18, 2006 9:23:02 AM PDT
2	Administrator	1147968414578	D600-XP	Thursday, May 18, 2006 9:17:06 AM PDT
3	Administrator	1147968414554	D600-XP	Thursday, May 18, 2006 9:15:45 AM PDT

Close Window

- Click **Close Window** to return to the Installation Status screen when you finish looking at the information.

3 Select **Click to install additional products** to continue.

The Administration page now displays a list of the Composite Application Platform Suite products available to upload by category (see Figure 13). It is an extensive listing of all the product components that are available to install, including all the Logical Host and Enterprise Manager-Monitoring and Runtime Administration platform-specific selections (which are mandatory uploads for eGate to function properly).

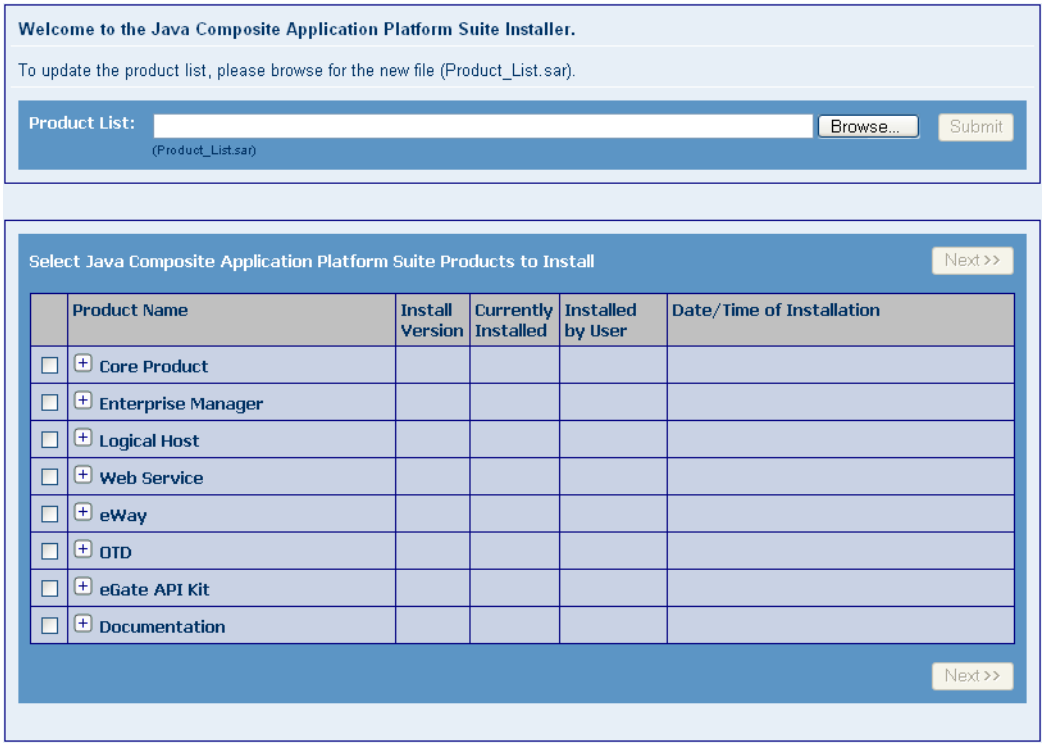
- Use the "+" button to expand a category.
- Use the "-" button to contract a category.

The four additional columns on the screen provide information:

- **Install Version** lists the version number of the installed component (for example: 5.1.1).
- **Currently Installed** timestamps when the component was installed.
- **Installed by User** lists the name of the user who performed the installation (for example: Administrator).

- **Date/Time of Installation** lists the date and time when the component was installed.

Figure 13 Java CAPS Product List by Category



For eGate to function properly at a minimum you need to install the following bulleted items:

- Enterprise Manager
  For additional installation information see: **"To upload Enterprise Manager files" on page 61** and **"Installation Instructions for Enterprise Manager" on page 65**.
- Logical Host
  For additional installation information see: **"To upload Logical Host files" on page 62** and **"Installation Instructions for Logical Host" on page 96**.
- eWays
- Appropriate documentation

Note: *The **Enterprise_Manager_SVGPlugin-win32.sar** file is required for the Adobe SVG Viewer plug-in for Windows.*

To upload additional product components, see **"Uploading Additional Products to the Repository" on page 54**.

Uploading Additional Products to the Repository

Each Java CAPS product requires one or more product SAR files to be uploaded to the Repository. For example, to install the File eWay, you must upload **FileeWay.sar**. Follow the steps in **"To upload additional products to the Repository" on page 59** to upload and install your product SAR files. See Table 10 (ISO images) and Table 11 (DVDs) for the location of the SAR files.

Note: *Sun recommends that you upload the SAR files for the Composite Application Platform Suite documentation.*

Table 10 ISO Image Locations of SAR Files

SAR File Names	ISO Images
Third Party Sources directory (source .jar files)	java-caps-5_1_1-products-cd1.iso
eGate.sar and documentation (eGateDocs.sar)	java-caps-5_1_1-products-cd1.iso
JMSClientToSREJMSIQMgr.sar	java-caps-5_1_1-products-cd1.iso
weblogic90.sar	java-caps-5_1_1-products-cd1.iso
weblogicjmsmessageServer90.sar	java-caps-5_1_1-products-cd1.iso
AlertAgent.sar	java-caps-5_1_1-products-cd2.iso
CBO-OTD_v1_0.sar	java-caps-5_1_1-products-cd2.iso
eBAM.sar (and third party license readme)	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_AIX32.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_AIX64.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_HP-UX-Itanium.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_HP-UX-PA_RISC.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_Java.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_RedHat_AMD64_Linux_AS3.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_RedHat_Intel_Linux_AS21.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_SunOS.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_SunOS-AMD64.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_SuSE8_Linux.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_Tru64.sar	java-caps-5_1_1-products-cd2.iso
eGate_APIKit_win32.sar	java-caps-5_1_1-products-cd2.iso
eInsight.sar	java-caps-5_1_1-products-cd2.iso
eTL.sar (and third party license readme)	java-caps-5_1_1-products-cd2.iso
eView.sar	java-caps-5_1_1-products-cd2.iso
eVision.sar (and third party license readme)	java-caps-5_1_1-products-cd2.iso
Note: java-caps-5_1_1-products-cd2.iso also includes the appropriate Third Party Sources and Documentation for the products.	

Table 10 ISO Image Locations of SAR Files (Continued)

SAR File Names	ISO Images
Third Party Sources directory (source .jar files)	java-caps-5_1_1-windows.iso
Enterprise_Manager_SVGPlugin-win32.sar	java-caps-5_1_1-windows.iso
Enterprise_Manager-Win32.sar	java-caps-5_1_1-windows.iso
logicalhost-win32.sar	java-caps-5_1_1-windows.iso
stcuddi_Win32.sar	java-caps-5_1_1-windows.iso
Enterprise_Manager-HPUX_Itanium.sar	java-caps-5_1_1-hp_ux.iso
Enterprise_Manager-HPUX_PARISC.sar	java-caps-5_1_1-hp_ux.iso
logicalhost-HPUX_Itanium.sar	java-caps-5_1_1-hp_ux.iso
logicalhost-HPUX_PARISC.sar	java-caps-5_1_1-hp_ux.iso
Enterprise_Manager-Tru64.sar	java-caps-5_1_1-tru64.iso
logicalhost-Tru64.sar	java-caps-5_1_1-tru64.iso
Enterprise_Manager-AIX32.sar	java-caps-5_1_1-aix.iso
Enterprise_Manager-AIX64.sar	java-caps-5_1_1-aix.iso
logicalhost-AIX32.sar	java-caps-5_1_1-aix.iso
logicalhost-AIX64.sar	java-caps-5_1_1-aix.iso
Enterprise_Manager-Linux_AMD64.sar	java-caps-5_1_1-linux_amd64.iso
logicalhost-Linux-RedHat-AS3_AMD64.sar	java-caps-5_1_1-linux_amd64.iso
stcuddi-Linux_AMD64.sar	java-caps-5_1_1-linux_amd64.iso
stcuddi-Linux.sar	java-caps-5_1_1-linux_amd64.iso
Enterprise_Manager-Linux_x86.sar	java-caps-5_1_1-linux_x86.iso
logicalhost-Linux-RedHat-8_x86.sar	java-caps-5_1_1-linux_x86.iso
logicalhost-Linux-RedHat-AS2_x86.sar	java-caps-5_1_1-linux_x86.iso
logicalhost-Linux-SuSE8_x86.sar	java-caps-5_1_1-linux_x86.iso
stcuddi-Linux.sar	java-caps-5_1_1-linux_x86.iso
Enterprise_Manager-Solaris_AMD64.sar	java-caps-5_1_1-solaris.iso
Enterprise_Manager-Solaris_SPARC.sar	java-caps-5_1_1-solaris.iso
logicalhost-Solaris_AMD64.sar	java-caps-5_1_1-solaris.iso
logicalhost-Solaris_SPARC.sar	java-caps-5_1_1-solaris.iso
stcuddi-Solaris_AMD64.sar	java-caps-5_1_1-solaris.iso
stcuddi-Solaris_SPARC.sar	java-caps-5_1_1-solaris.iso

Table 10 ISO Image Locations of SAR Files (Continued)

SAR File Names	ISO Images
All eWay SAR files included in delivery	java-caps-5_1_1-products-cd3.iso
All OTD Library SAR files included in delivery	java-caps-5_1_1-products-cd3.iso
SNM PAgent.sar (includes documentation)	java-caps-5_1_1-products-cd3.iso
Note: All three Repository ISO Images contain the *Java Composite Application Platform Suite Installation Gu ide* (**CAPS_Install_Guide.pdf**) and **Readme.txt**. You should print and read these documents. Note: Third Party License Readme text files are included on the three Repository ISO Images and on java-caps-5_1_1-products-cd3.iso for specific eWays.	

Table 11 DVD Location of SAR Files

SAR File Names	DVD
Documentation directory	Part No. 708 0157-10
Third Party Sources directory	Part No. 708 0157-10
AlertAgent.sar	Part No. 708 0157-10
BatcheWay.sar (and third party license readme)	Part No. 708 0157-10
CAPS_Install_Guide.pdf	Part No. 708 0157-10
CBO-OTD_v1_0.sar	Part No. 708 0157-10
CICSeWay.sar	Part No. 708 0157-10
CobolCopyBook.sar	Part No. 708 0157-10
COMeWay.sar	Part No. 708 0157-10
DB2ConnecteWay.sar	Part No. 708 0157-10
DB2eWay.sar	Part No. 708 0157-10
eBAM.sar (and third party license readme)	Part No. 708 0157-10
eGate.sar (and third party license readme)	Part No. 708 0157-10
eGate_APIKit_AIX32.sar	Part No. 708 0157-10
eGate_APIKit_AIX64.sar	Part No. 708 0157-10
eGate_APIKit_HP-UX-Itanium.sar	Part No. 708 0157-10
eGate_APIKit_HP-UX-PA_RISC.sar	Part No. 708 0157-10
eGate_APIKit_Java.sar	Part No. 708 0157-10
eGate_APIKit_RedHat_AMD64_Linux_AS3.sar	Part No. 708 0157-10
eGate_APIKit_RedHat_Intel_Linux_AS21.sar	Part No. 708 0157-10
eGate_APIKit_SunOS.sar	Part No. 708 0157-10
eGate_APIKit_SunOS-AMD64.sar	Part No. 708 0157-10
eGate_APIKit_SuSE8_Linux.sar	Part No. 708 0157-10

Table 11 DVD Location of SAR Files (Continued)

SAR File Names	DVD
eGate_APIKit_Tru64.sar	Part No. 708 0157-10
eGate_APIKit_win32.sar	Part No. 708 0157-10
eInsight.sar	Part No. 708 0157-10
EmaileeWay.sar	Part No. 708 0157-10
Enterprise_Manager_SVGPlugin-win32.sar	Part No. 708 0157-10
Enterprise_Manager-Win32.sar	Part No. 708 0157-10
eTL.sar (and third party license readme)	Part No. 708 0157-10
eView.sar	Part No. 708 0157-10
eVision.sar	Part No. 708 0157-10
HL7OTDLibrary21.sar	Part No. 708 0157-10
HL7OTDLibrary22.sar	Part No. 708 0157-10
HL7OTDLibrary23.sar	Part No. 708 0157-10
HL7OTDLibrary24.sar	Part No. 708 0157-10
HL7OTDLibrary25.sar	Part No. 708 0157-10
HL7OTDLibrary231.sar	Part No. 708 0157-10
HTTPeWay.sar (and third party license readme)	Part No. 708 0157-10
IMSeWay.sar	Part No. 708 0157-10
install.bat (Windows Repository)	Part No. 708 0157-10
install.sh (UNIX/Linux Repository)	Part No. 708 0157-10
JMSeWay.sar	Part No. 708 0157-10
JDBCeWay.sar	Part No. 708 0157-10
JMSClientToSREJMSIQMgr.sar	Part No. 708 0157-10
LDAPeWay.sar (and third party license readme)	Part No. 708 0157-10
logicalhost-win32.sar	Part No. 708 0157-10
MFS.sar	Part No. 708 0157-10
MQSerieseWay.sar	Part No. 708 0157-10
OracleeWay.sar	Part No. 708 0157-10
PeopleSofteWay.sar (and third party license readme)	Part No. 708 0157-10
Readme.txt	Part No. 708 0157-10
SAPALEeWay.sar	Part No. 708 0157-10
SAPBAPIeWay.sar	Part No. 708 0157-10
SiebelEAIeWay.sar (and third party license readme)	Part No. 708 0157-10
SNAeWay.sar	Part No. 708 0157-10
SQLServereWay.sar	Part No. 708 0157-10
stcuddi_Win32.sar	Part No. 708 0157-10

Table 11 DVD Location of SAR Files (Continued)

SAR File Names	DVD
SunJavaSystemeWay.sar	Part No. 708 0157-10
SwiftOTDLibrary2001.sar	Part No. 708 0157-10
SwiftOTDLibrary2002.sar	Part No. 708 0157-10
SwiftOTDLibrary2003.sar	Part No. 708 0157-10
SwiftOTDLibrary2005.sar	Part No. 708 0157-10
SybaseeWay.sar	Part No. 708 0157-10
TCPIPeWay.sar	Part No. 708 0157-10
VSAMeWay.sar	Part No. 708 0157-10
WebLogiceWay.sar	Part No. 708 0157-10
weblogic90.sar	Part No. 708 0157-10
weblogicjmsmessageServer90.sar	Part No. 708 0157-10
Enterprise_Manager-AIX32.sar	Part No. 708 0158-10
Enterprise_Manager-AIX64.sar	Part No. 708 0158-10
Enterprise_Manager-HPUX_Itanium.sar	Part No. 708 0158-10
Enterprise_Manager-HPUX_PARISC.sar	Part No. 708 0158-10
Enterprise_Manager-Linux_AMD64.sar	Part No. 708 0158-10
Enterprise_Manager-Linux_x86.sar	Part No. 708 0158-10
Enterprise_Manager-Solaris_AMD64.sar	Part No. 708 0158-10
Enterprise_Manager-Solaris_SPARC.sar	Part No. 708 0158-10
Enterprise_Manager-Tru64.sar	Part No. 708 0158-10
logicalhost-AIX32.sar	Part No. 708 0158-10
logicalhost-AIX64.sar	Part No. 708 0158-10
logicalhost-HPUX_Itanium.sar	Part No. 708 0158-10
logicalhost-HPUX_PARISC.sar	Part No. 708 0158-10
logicalhost-Linux-RedHat-8_x86.sar	Part No. 708 0158-10
logicalhost-Linux-RedHat-AS2_x86.sar	Part No. 708 0158-10
logicalhost-Linux-RedHat-AS3_AMD64.sar	Part No. 708 0158-10
logicalhost-Linux-SuSE8_x86.sar	Part No. 708 0158-10
logicalhost-Solaris_AMD64.sar	Part No. 708 0158-10
logicalhost-Solaris_SPARC.sar	Part No. 708 0158-10
logicalhost-Tru64.sar	Part No. 708 0158-10
stcuddi-Linux_AMD64.sar	Part No. 708 0158-10
stcuddi-Linux.sar	Part No. 708 0158-10
stcuddi-Solaris_AMD64.sar	Part No. 708 0158-10
stcuddi-Solaris_SPARC.sar	Part No. 708 0158-10

To upload additional products to the Repository

In this example, we are going to upload the File eWay and the eGate documentation. Remember, you must upload the product components before you can download and install them (including the Enterprise Manager and Logical Host).

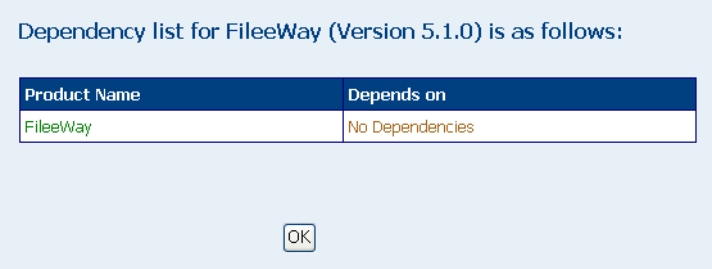
1 Expand one of the categories on the Select Composite Application Platform Suite Products to Install list, such as "eWay" (see Figure 13).

Note: *"Core Product" expands a list of all eGate-related component products.*

2 With a category list expanded (in this example, we expanded "eWay"), click a product component (such as **FileeWay**) to see if it has dependencies (see Figure 14). If there are dependencies, the dependencies are required and must also be uploaded to the Repository.

Important: *If you select a product component that has dependencies, you cannot "Skip" the product or the dependencies during the upload process.*

Figure 14 Component Dependencies



3 Click **OK** to return to the list of available Composite Application Platform Suite product components available to upload (see Figure 13).

4 Expand the category in the list that you previously expanded (in this example, we expanded "eWay"), and select **FileeWay** by clicking the box in front of the component (your selection is selected when a check mark appears in the box).

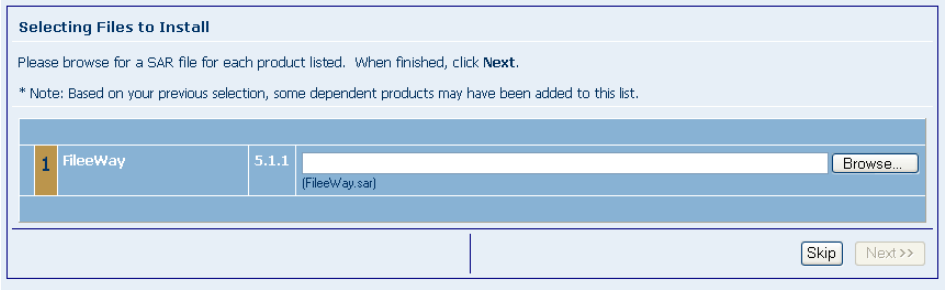
5 Continue selecting additional components you want to upload by placing check marks in the box next to the component names. You can select as many components as you want. In our example, we are only going to select one additional component by doing the following:

- Expand "Documentation."
- Select e**GateDocs** (it is near the bottom of the list).

You are now ready to upload your selected product components.

6 Click **Next** after you have selected all the product components you want to install. Each Composite Application Platform Suite product requires one or more product SAR files to be uploaded to the Repository. The Selecting Files to Install screen appears (see Figure 15).

Figure 15 Selecting Files to Install



7 Click **Browse** (see Figure 15) for a selected product component to navigate to the appropriate SAR file. For example, to install the File eWay, you must upload **FileeWay.sar**. (the eWay SAR files are located on the "Composite Application Platform Suite Products - Add-ons_CD" CD-ROM or DVD1).

Notice that there is a **Skip** button. If a product in the list (see Figure 15) has dependencies, this button is disabled. If a product does not have dependencies (such as the File eWay), the button is active. If you want to continue the installation, but not install a product that does not have dependencies, click **Skip**. This moves you to the next file to install.

Note: *The **Skip** button must be present to skip a product or product dependencies during the upload process.*

8 After locating the SAR file, select it and then click **Open**.

9 Click **Next**. The next product component you selected appears in the **Selecting Files to Install** list (in our example, **eGateDocs**).

Figure 16 Returning to Selecting Files to Install

10 Click **Browse** for the next selected product component to navigate to the appropriate SAR file (in our example, e**GateDocs**).

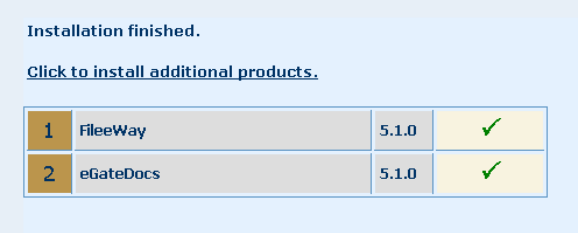
Note: *Documentation SAR files are located on the same CD-ROMs or DVDs that contain the products they document.*

11 After locating the SAR file, select it and then click **Open**.

12 When you have selected all the product SAR files (in our example, we are uploading two product SAR files), click **Next** to upload them to the Repository.

The product SAR files are uploaded. When the upload completes, the Installation finished screen appears (see Figure 17).

Figure 17 Installation Finished



13 Select **Click to install additional products** to return to the list of the Composite Application Platform Suite products that are available to upload.

Note: *If you uploaded any documentation or samples, you can access them from the* ***Documentation*** *tab.*

To upload Enterprise Manager files

- Repeat the steps in the previous procedure to upload the appropriate Enterprise Manager SAR file. See Table 12 to determine the correct Enterprise Manager file(s) for your environment. See Table 10 to locate the ISO image (or Table 11 to locate the DVD) that contains the Enterprise Manager SAR files you need to upload.

Important: *With releases prior to 5.1.0, the Windows Enterprise Manager was installed with the Repository. This is no longer the case; you separately upload the Enterprise Manager SAR file—****Enterprise_Manager-*.sar****—for every platform.*

Sun recommends that you upload the Enterprise Manager SAR file at this time so that you do not have to return to the uploading process when you are downloading the Enterprise Manager (see **Chapter 5**).

Table 12 Enterprise Manager SAR Files

Enterprise Manager Platforms	Enterprise Manager SAR Files
Windows	Enterprise_Manager-Win32.sar
IBM AIX 5L, versions 5.2 and 5.3 - 32 bit	Enterprise_Manager-AIX32.sar
IBM AIX 5L, versions 5.2 and 5.3 - 64 bit	Enterprise_Manager-AIX64.sar
HP-UX 11*i* v2.0 (11.23) on Itanium	Enterprise_Manager-HPUX_Itanium.sar
HP-UX 11.0 and HP-UX 11*i* (11.11) on PA-RISC	Enterprise_Manager-HPUX_PARISC.sar

Table 12 Enterprise Manager SAR Files (Continued)

Enterprise Manager Platforms	Enterprise Manager SAR Files
HP Tru64 V5.1A and V5.1B	Enterprise_Manager-Tru64.sar
Red Hat Enterprise Linux AS 3.0 (Intel *x*86)	Enterprise_Manager-Linux_AMD64.sar
Red Hat Enterprise Linux AS 2.1 and AS 3.0 (Intel *x*86)	Enterprise_Manager-Linux_x86.sar
Sun Solaris 10 on AMD Opteron	Enterprise_Manager-Solaris_AMD64.sar
Sun Solaris 8, 9, and 10	Enterprise_Manager-Solaris_SPARC.sar
SUSE Linux Enterprise Server 8 and 9 (Intel *x*86)	Enterprise_Manager-Linux_x86.sar

To upload Logical Host files

- Repeat the steps in the previous procedure to upload the appropriate Logical Host SAR file. See Table 13 to determine the correct Logical Host file(s) for your environment. See Table 10 to locate the ISO image (or Table 11 to locate the DVD) that contains the Logical Host SAR files you need to upload.

Important: *With releases prior to 5.1.0, the SAR file for the Windows Logical Host was packaged within the* ***eGate.sar*** *file. This is no longer the case; you separately upload the Logical Host SAR file—****logicalhost-*.sar****—for every platform.*

Sun recommends that you upload the Logical Host SAR file at this time so that you do not have to return to the uploading process when you are downloading the Logical Host (see **Chapter 7**).

Table 13 Logical Host SAR Files

Logical Host Platform	Logical Host SAR File
Windows	logicalhost-win32.sar
HP-UX 11i (11.11) on PA-RISC	logicalhost-HPUX_PARISC.sar
HP-UX 11i v2.0 (11.23) on Itanium	logicalhost-HPUX_Itanium.sar
HP Tru64 V5.1A and V5.1B	logicalhost-Tru64.sar
IBM AIX 5L, versions 5.2 and 5.3 - 32 bit	logicalhost-AIX32.sar (For 32-bit platform; see **"IBM AIX" on page 24**.)
IBM AIX 5L, versions 5.2 and 5.3 - 64 bit	logicalhost-AIX64sar (For 64-bit platform; see **"IBM AIX" on page 24**).
Red Hat Enterprise Linux AS 2.1 (Intel x86)	logicalhost-Linux-RedHat-AS2_x86.sar

Table 13 Logical Host SAR Files (Continued)

Logical Host Platform	Logical Host SAR File
Red Hat Enterprise Linux AS 3.0 (Intel x86)	logicalhost-Linux-RedHat-AS3_AMD64.sar
Red Hat Linux 8 (Intel x86)	logicalhost-Linux-RedHat-8_x86.sar
SUSE Linux Enterprise Server 8 and 9 (Intel x86)	logicalhost-Linux-SuSE8_x86.sar
Sun Solaris 8, 9, and 10	logicalhost-Solaris_SPARC.sar
Sun Solaris 10 on AMD Opteron and Sun Solaris Intel-EMT	logicalhost-Solaris_AMD64.sar

Continue to **"Installation of Enterprise Manager" on page 66** for instructions for installing Enterprise Manager on your development PCs.

4.2.1 Uploading Customer-generated eWays

Sun provides the t ools and support for you to create your own eWays. The process to upload eWays that you create is different than the uploading process documented in **"Uploading Additional Products to the Repository" on page 54**.

To upload customer-generated eWays

1. Build your own eWay using the build tool supplied by Sun. This generates two SAR files:
   - **Product_List.sar**
   - **eDKCustomerAeWay.sar**
     This is the SAR file for the eWay you created and is proprietary to your company, and as such does not exist in the Composite Application Platform Suite Products list (see Figure 13).
2. To add **eDKCustomerAeWay.sar** to the "eWays" sub-category in the Composite Application Platform Suite Products list (see Figure 13), click the Product List field **Browse** button.
3. After locating **Product_List.sar**, select it and then click **Open**.
4. Click **Submit**. The **eDK CustomerA eWay** is now available to upload under the "eWays" sub-category in the Composite Application Platform Suite Products list.
5. Expand the "eWays" category on the Select Composite Application Platform Products list and then select the **eDKCustomerAeWay**.
6. Click **Next**. The Selecting Files to Install window appears.
7. Click **Browse** to locate the **eDKCustomerAeWay.sar** file.
8. After locating the SAR file, select it and then click **Open**.
9. Click **Next** to upload the file to the Repository.

The **eDKCustomerAeWay.sar** file is uploaded. When the upload completes, the Installation finished screen appears.

10 Select **Click** to install additional products to return tot he list of the Composite Application Platform Suite products that are available to install.

Chapter 5

Installation Instructions for Enterprise Manager

The following sections provide instructions on how to install Sun SeeBeyond Enterprise Manager. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

5.1 Overview

Enterprise Manager has two separate functions:

- Monitoring: Enterprise Manager
- Administration: Suite Installer

You can install Enterprise Manager on Windows and UNIX systems. After uploading the product files to the Repository (see **Chapter 4**), you can download Enterprise Manager from the Suite Installer and install it on all Windows clients that will be used to administrate and monitor Composite Application Platform Suite Projects. Unlike previous versions, Enterprise Manager, a Web-based interface you use to manage Java CAPS applications, no longer requires a Repository to be up and running—Enterprise Manager now functions on a standalone server.

Enterprise Manager requires an eWay specific "plug-in" for each eWay you install. These plug-ins enable Enterprise Manager to target specific alert codes for each eWay type, as well as start and stop the inbound eWays.

Note: *An extraction program, such as WinZip, must be installed on the Windows client prior to beginning the installation of the Enterprise Manager.*

You can have multiple Enterprise Manager Servers running on a single host, but they must have a different environment and require their own installation/unzip directory. For example, you can install two Enterprise Managers on the same host:

- **C:\JavaCAPS511_test\emanager** (with port 15000)
- **C:\JavaCAPS511_production\emanager** (with port 25000)

Note: *You cannot create multiple instances by running* ***install.bat*** *a second time.*

5.2 Installation of Enterprise Manager

The following instructions provide the steps to download the Enterprise Manager from the Suite Installer.

Note: *Before you can begin this procedure, your Repository must be running for the Suite Installer. See* **Chapter 3 "Installation Instructions for Repository" on page 33** *for instructions for starting your Repository server.*

1. Open a Web Browser (Internet Explorer) to access the Suite Installer.
2. In the **Address** line, type **http://<*hostname*>:<*port_number*>**

   where:

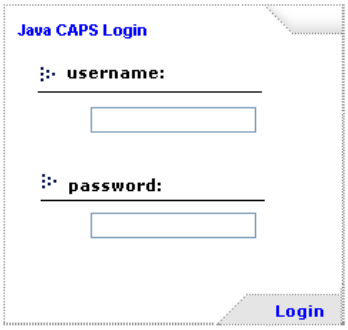
   hostname is the TCP/IP host name of the server where you installed the Repository—not the name of the Repository itself.

   port_number is the port number that you specified during the installation of the Repository.

Note: *The host name must be valid.*

3. Press **Enter**. The **Java CAPS Login** window appears (see Figure 18).

Figure 18 Java CAPS Login window



4. Enter your **username** and **password** (which are case sensitive). See the **Readme.txt** file for the default username and password.

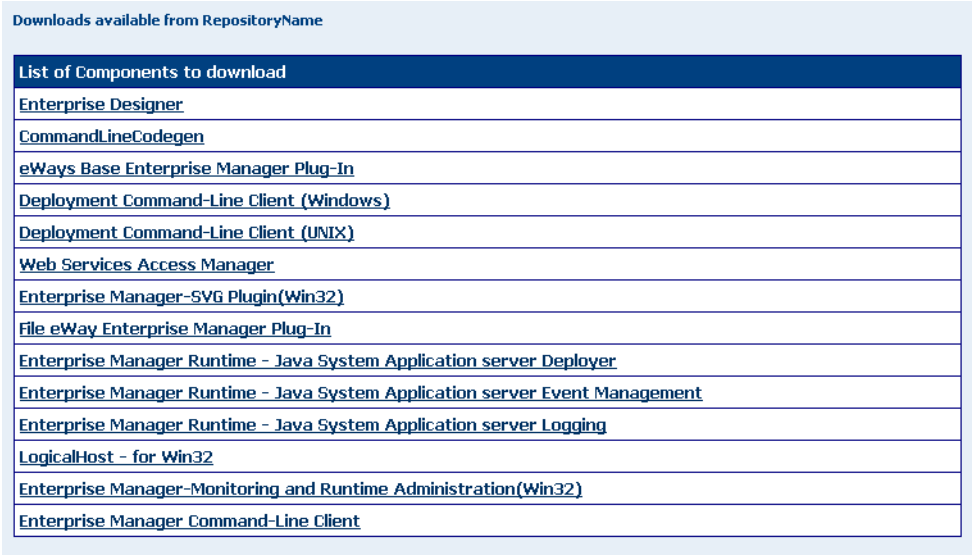
5 Click **Login**. The Suite Installer appears with the **Administration** tab active.

To install Enterprise Manager

This procedure assumes you have already uploaded the Enterprise Manager-Monitoring and Runtime Administration platform-specific SAR file. If you have not already completed this procedure, see **"To upload Enterprise Manager files" on page 61** for information about Enterprise Manager files, and then see **"Uploading Additional Products to the Repository" on page 54** for the location of the SAR file on the ISO image or DVD sets and detailed instructions on uploading files.

1 Click the **Downloads** tab. The **Downloads available from <*repository_name*>** window appears.

Figure 19 Downloads available from <repository_name>



The number of product components that appear in **List of Components to download** varies, depending upon what you have uploaded.

Note: *For prerequisites before initiating the deployment process and complete instructions on how to configure the Sun Java Application Server see the* ***Sun SeeBeyond eGate Integrator System Administration Guide****.*

This chapter focuses on the following components:

- **Enterprise Manager-Monitoring and Runtime Administration(win32)** is required for deploying, monitoring, and managing all the product components in the Composite Application Platform Suite, as well as administrating (configuration, deployment, and user management) of the Composite Application Platform Suite on a Windows system.
- **Enterprise Manager-Monitoring and Runtime Administration <*(UNIX platform)*>** is required for monitoring and managing all the product components in the Composite Application Platform Suite, as well as

administrating (configuration, deployment, and user management) of the Composite Application Platform Suite on a UNIX system.

- **Enterprise Manager-SVG Plugin(Win32)** is not required for viewing Connectivity Maps in Enterprise Manager. However, installing it enhances the Connectivity Map's capabilities (for example, it allows you to zoom in and out).
- **Enterprise Manager Command-Line Client** is required to check status from the command line.

Note: *The Enterprise Manager Command-Line Client is included with each Enterprise Manager SAR file (Windows, Sun Solaris, etc.), and is automatically placed in the Downloads section of the Suite Installer.*

- **CommandLineCodegen** is required to generate an **.ear** file from the command line without having Enterprise Designer running.
- **eWays Base Enterprise Manager Plug-In** is required to view and manage eWays using a monitor. You must install this Plug-In before you install eWays.

Note: *You must install the eWays Base Enterprise Manager Plug-In before you install eWays (see* **"Installing eWay Plug-ins Using Enterprise Manager" on page 84***). Actually this process installs the eWays Base Enterprise Manager Plug-in, all eWays you have uploaded, and the Web Services Access Manager.*

The following bulleted items are product components that we do not deal with in the installation guide:

- **Sun SeeBeyond UDDI Server** is required for publishing Web Services, and displaying each entry on the Sun Web Services page, including:
  - The Composite Application Platform Suite environment name.
  - The actual web service name.
  - The URL for the associated WSDL file.
- **Deployment Command-Line Client (Windows)** is required to deploy a Project using a command line on a Windows client.
- **Deployment Command-Line Client (UNIX)** is required to deploy a Project using a command line on a UNIX client.
- **WSM ACL Web Application** is required to control user/group access to WSDL that are published to the Sun SeeBeyond UDDI Server registry.

To continue with the installation of one of the Enterprise Manager components, jump to the appropriate section:

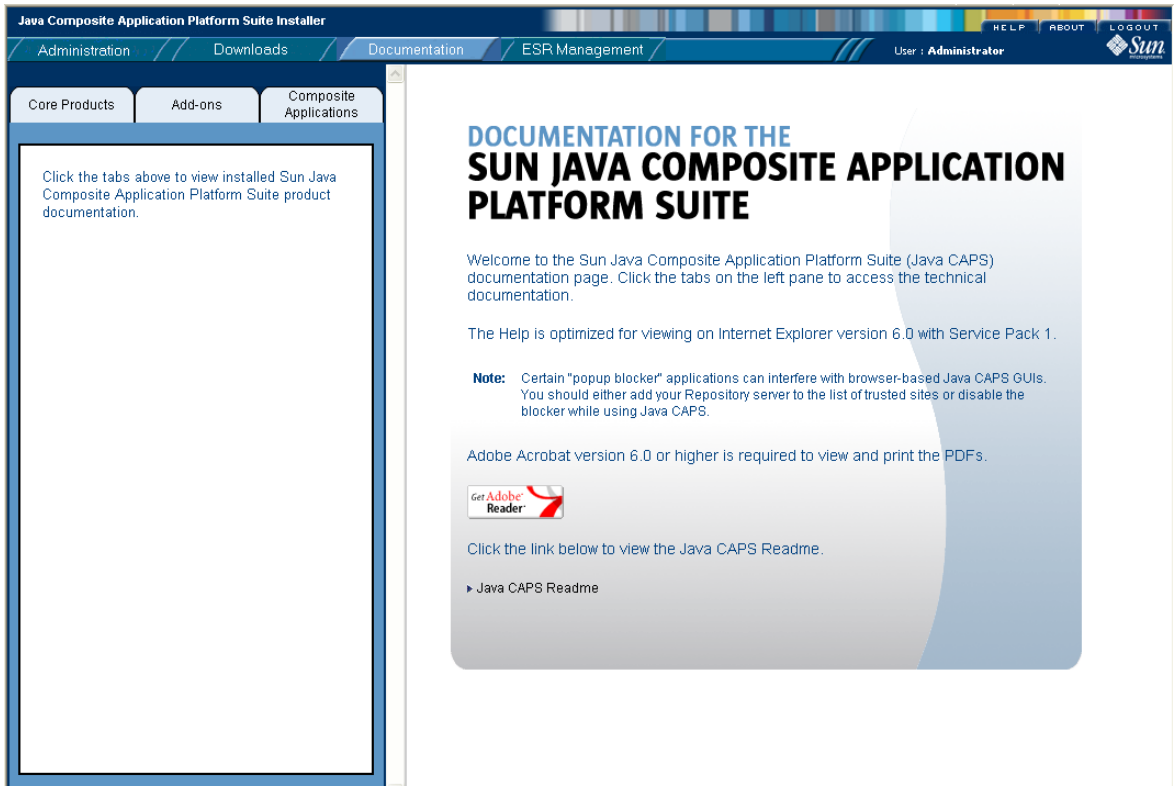
- **"Monitoring and Runtime Administration (Windows)" on page 71**
- **"Monitoring and Runtime Administration (UNIX)" on page 75**
- **"SVG Plugin (Win32)" on page 77**
- **"Command-Line Client" on page 77**
- **"Installing eWay Plug-ins Using Enterprise Manager" on page 84**

Note: *See* **Chapter 6** *for information on the Enterprise Designer installation.*

Online Documentation

Assuming you have uploaded at least one documentation SAR file (for example: **eGateDocs.sar**) or sample, it is now available to view by clicking the **Documentation** tab (see Figure 20).

Figure 20 Documentation Tab



There are three tabs in the left pane:

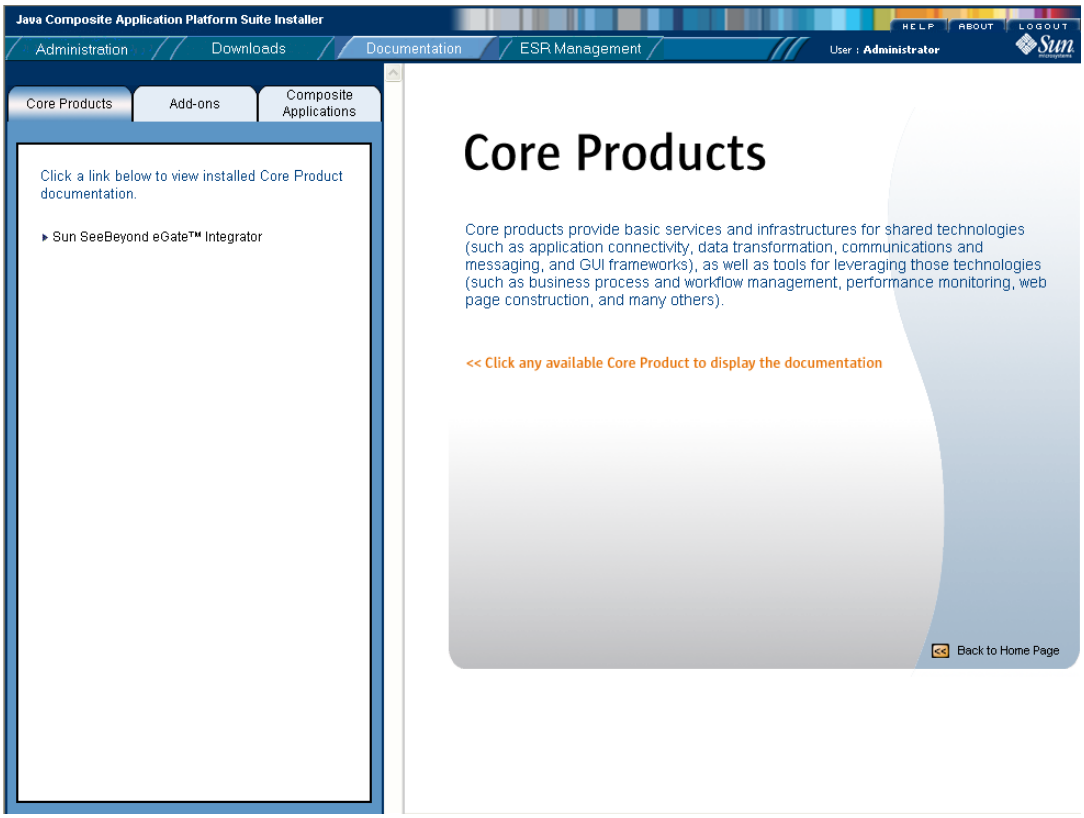
- **Core Products** lists the documentation for Core products (for example: *Java Composite Application Platform Suite Installation Guide*).
- **Add-ons** lists the documentation for Add-on products (for example: *Batch eWay Intelligent Adapter User's Guide*).
- **Composite Applications** lists the documentation for Composite Application products (for example: *eIndex™ Single Patient View User's Guide*).

Note: *You must have uploaded the appropriate SAR files prior to viewing any documentation.*

To View a PDF File or HTML Help File for a Product or Readme

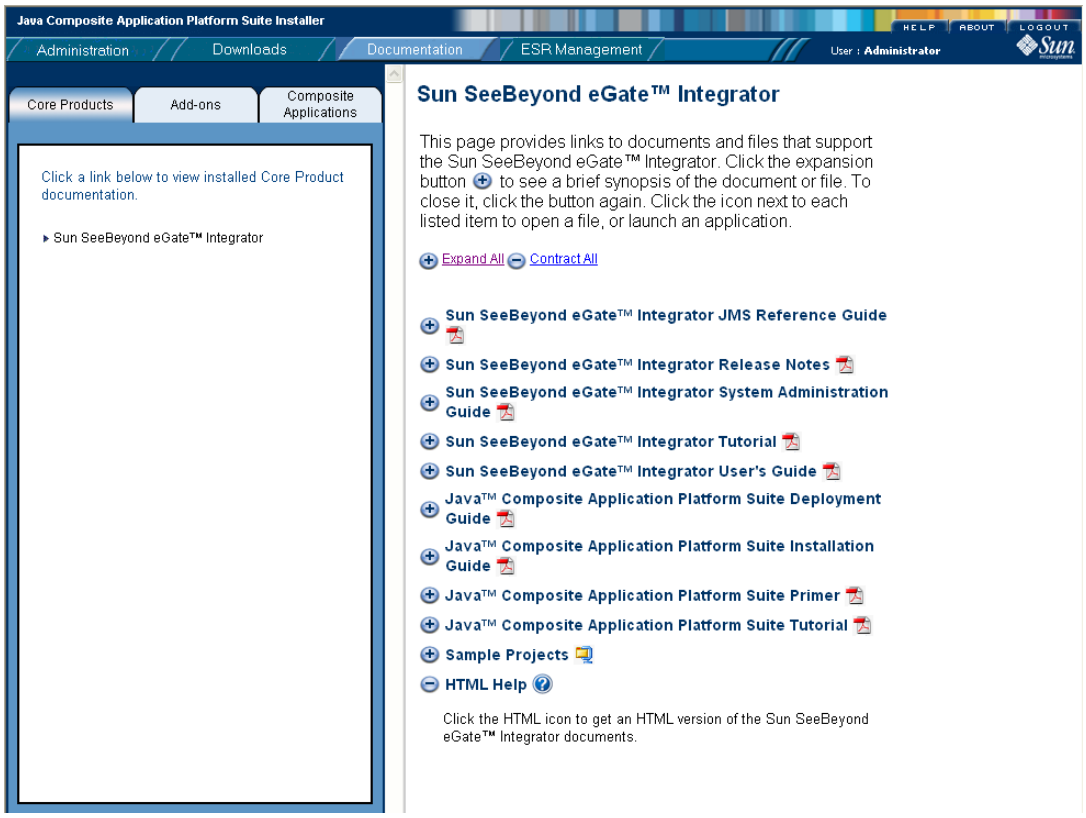
1 In the left pane select the appropriate tab; for example: **Core Products** (see Figure 21). In the example only eGate Integrator appears in the left pane. This is because only one core documentation SAR file has been uploaded: **eGateDocs.sar**.

Figure 21 Documentation Page for Core Products



2 Click **Sun SeeBeyond™ eGate Integrator**. The right pane is populated with all the PDF files, Readme.txt, HTML Help files, Javadocs, and sample projects that are associated with the selected product (see Figure 22).

Figure 22 Documentation Page After Selecting eGate Integrator



3 To open a PDF file, Readme file, HTML Help file, Javadoc, or sample project, click the appropriate icon.

To Make Selections in the Right Pane

- Click the "+" icon to the left of a specific title to display a short overview.

Note: *To close the overview click the "-" button.*

- Click the "PDF" icon to the right of a specific title to open the manual in PDF format.
- Scroll down to locate HTML Help, and then click the "?" icon open a list of Help files in HTML format.

  If you click an HTML Help icon ("?") and an HTTP 404 error occurs, you must shut down the Repository and re-start it before you are able to access the Help file. After the Repository has restarted, start a new browser session, log into the Suite Installer, and click the link to the Help file.

5.2.1 Monitoring and Runtime Administration (Windows)

The following instructions complete the installation of Enterprise Manager (monitoring and runtime administration). Although the step numbers begin with step 1, it is a continuation from **"Installation of Enterprise Manager" on page 66**, and assumes you

have the Suite Installer open with the **Downloads** tab selected (see Figure 19) and have completed all the steps to reach this portion of the installation.

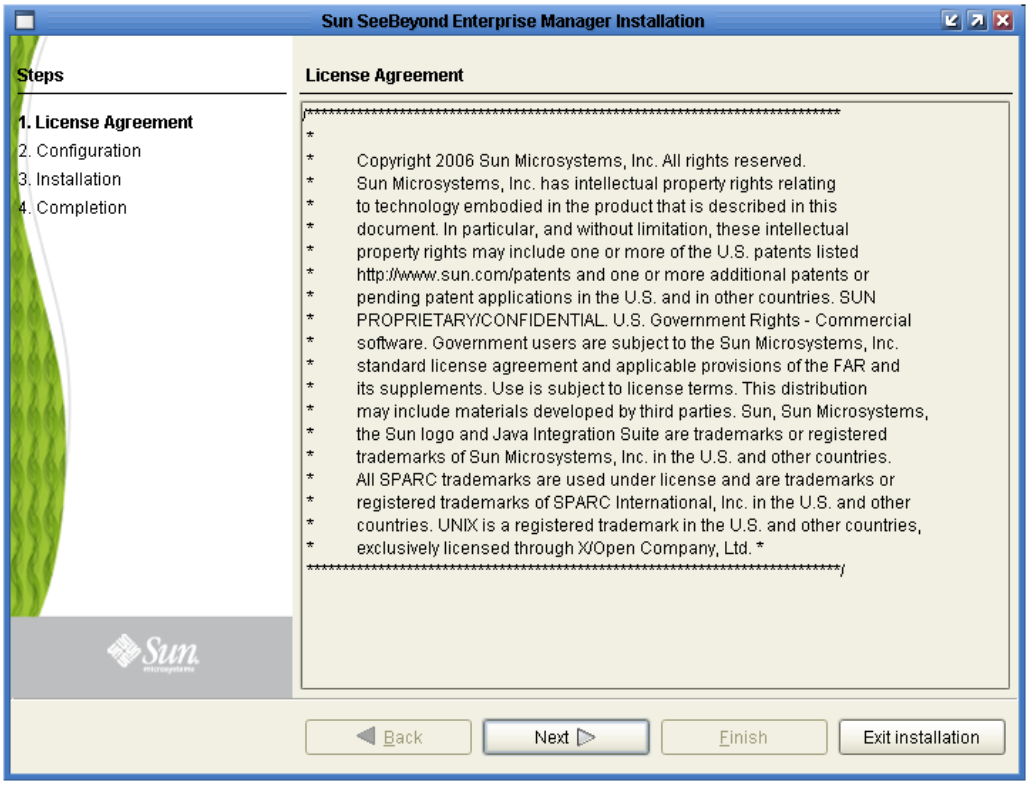
To install Enterprise Manager on Windows system

1. Click the **Enterprise Manager-Monitoring and Runtime Administration(win32)** link to download and expand the **emanager-Win32.zip** file.
2. Click **Open** after the **File Download** dialog box appears. The **emanager-Win32.zip** file is opened by an extraction program (such as WinZip).
3. Extract all the files to the client directory (such as **C:\JavaCAPS511**). The **\emanager** subdirectory is created when the file is unzipped.

Important: *Spaces are not allowed in Java CAPS path names.*

4. Navigate to the directory where you installed the Enterprise Manager files (for example: **C:\JavaCAPS511\emanager**).
5. Double-click **install.bat** to install Enterprise Manager. The **License Agreement** dialog box appears (see Figure 23).

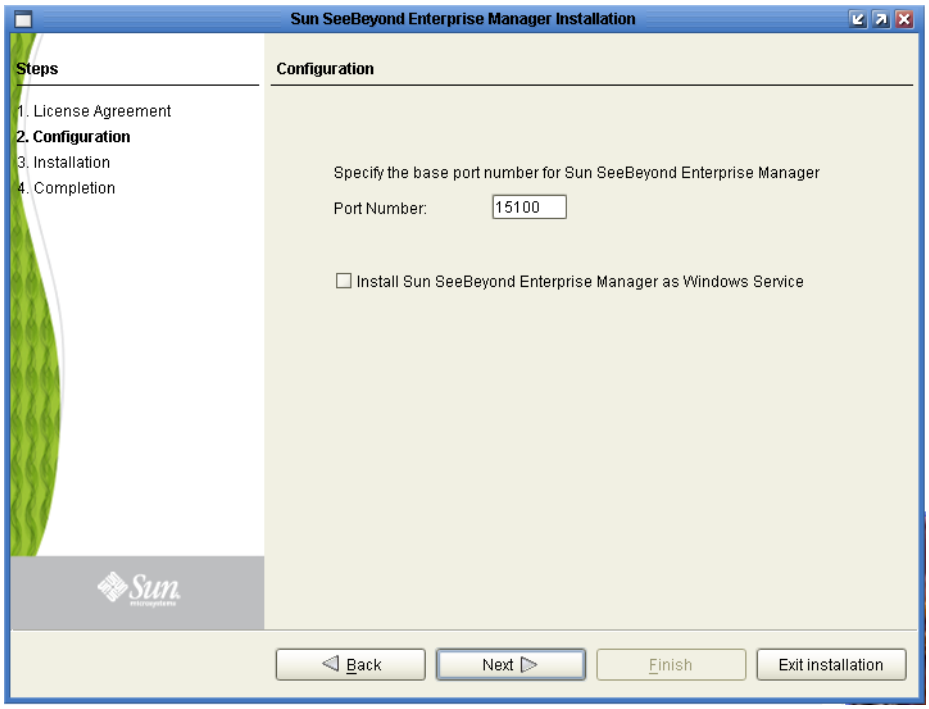
Figure 23 License Agreement



6. Click **Next** after reading the license and agreeing to its conditions. The **Enterprise Manager Configuration** dialog box appears (see Figure 24).

Important: *Depending upon your firewall, a Windows Security Alert window may appear. If it does, you must click* ***Unblock*** *to continue with the installation. This alert can appear a number of times during the Enterprise Manager installation.*

Figure 24 Enterprise Manager Configuration



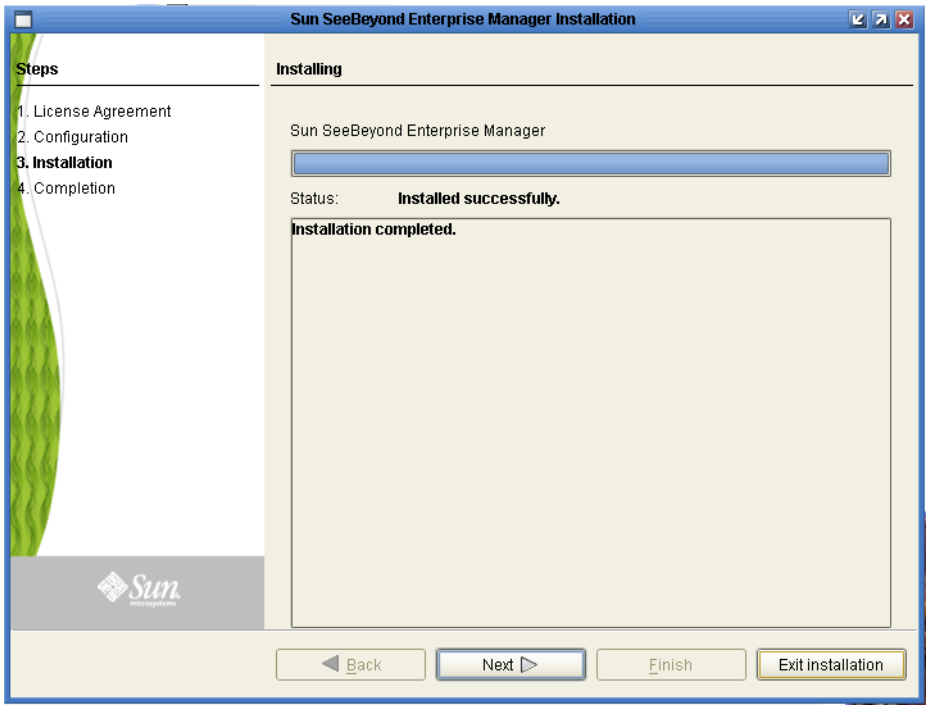
7 Enter a port number for the Enterprise Manager in the **Enterprise Manager Configuration** dialog box. The port number can be between 12000 and 65530; however, it must be an available port number; if the number you enter is unavailable, the **Next** button is grayed out until you select a number that is available. Also, you need six available port numbers in a row (for example: 15100-15105).

A Click the **Install Enterprise Manager as Windows Service** check box if you want Enterprise Manager to start as a service at system startup. The option also makes it possible for Enterprise Manager to automatically restart after an abnormal system shutdown. After selecting this option, you must manually start the service the first time you use it (see **"Running Enterprise Manager as a Windows Service" on page 79**).

Note: *This feature, which you do not have to set at this time, is only available on Windows systems. See* **"Running Enterprise Manager as a Windows Service" on page 79** *for instructions on how to set Enterprise Manager to start as a Windows Service after the initial installation.*

8 Click **Next**. The Enterprise Manager Installing dialog box appears (see Figure 25). As soon as the installation completes, the **Status** changes to "Installed successfully."

Figure 25 Enterprise Manager Installing

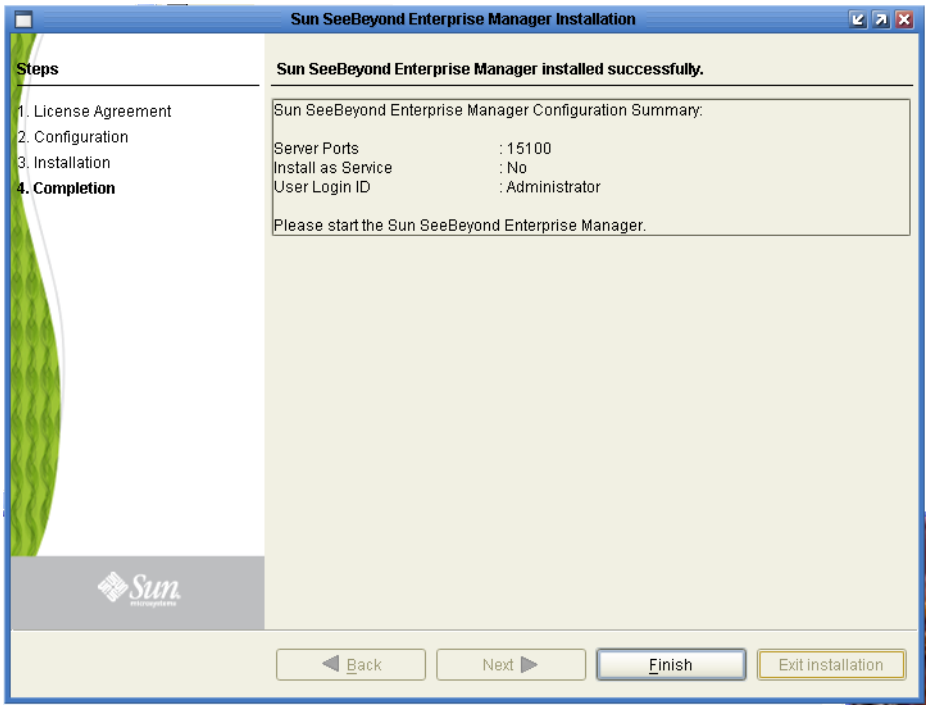


9 Click **Next**. The Enterprise Manager Configuration Summary dialog box appears (see Figure 26).

The dialog box lists the following bulleted items:

- The server port you set for Enterprise Manager.
- If Enterprise Manager is installed as a Windows Service.
- The User Login ID.

Figure 26 Enterprise Manager Configuration Summary



10 Click **Finish** to complete the installation.

11 Return to the Suite Installer **Downloads** tab (see Figure 19) to install any other components that you have uploaded and are available to download, such as:

- Enterprise Manager SVG Plugin (Win32); see **"SVG Plugin (Win32)" on page 77**
- Enterprise Manager Command-Line Client for Windows
- Enterprise Manager Runtime - Java System Application server Deployer (which deploys the Sun Java System Application Server)

To download and install the following product components:

- Enterprise Designer (see **Chapter 6**)
- Logical Hosts (see **Chapter 7**)

You are now ready to start and stop Enterprise Manager (see **"Starting and Shutting Down Enterprise Manager" on page 80**).

5.2.2 Monitoring and Runtime Administration (UNIX)

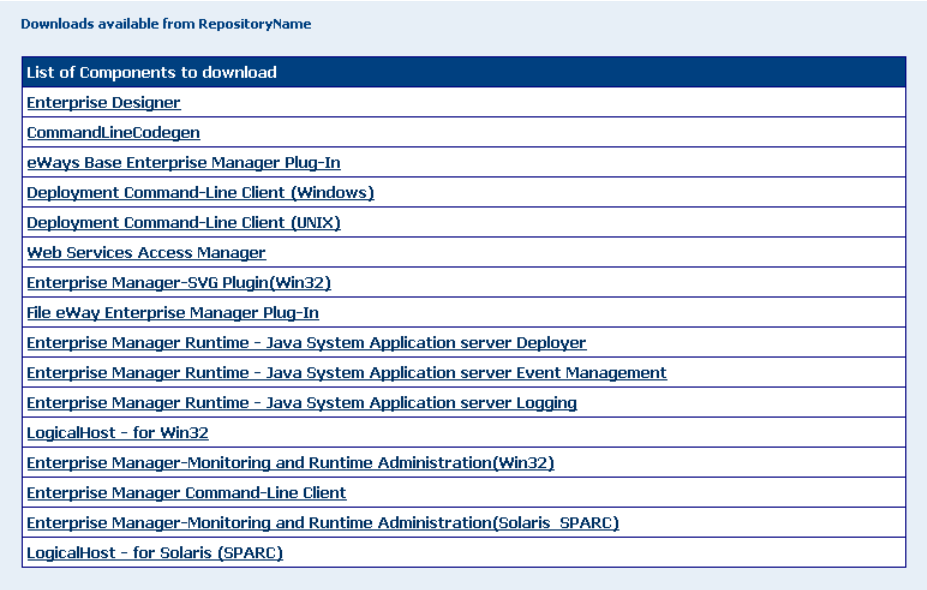
The following instructions complete the installation of Enterprise Manager (monitoring and runtime administration). Although the step numbers begin with step 1, it is a continuation from **"Installation of Enterprise Manager" on page 66**, and assumes you have the Suite Installer open with the **Downloads** tab selected (see Figure 27) and have completed all the steps to reach this portion of the installation.

To install Enterprise Manager on UNIX system

1 Right click the **Enterprise Manager-Monitoring and Runtime Administration <UNIXplatform>** link to download the emanager-**<UNIXplatform>** file to your Composite Application Platform Suite directory (for example: **/home/username/JavaCAPS511**).

Note: *<UNIXplatform> stands for any of the supported UNIX platforms (such as "Solaris_SPARC" or "HPUX_PARISC"). See Table 10 for a complete listing of the Enterprise Manager SAR files.*

Figure 27 Downloads available from <repository_name>



2 Click **Save Target As**.

3 Enter the directory where you want to save the **.tar.gz** file in the **Save As** dialog box (such as **/home/username/JavaCAPS511**) and click **Save**.

4 Open a command prompt on the target UNIX system.

5 Change the directory to your base Composite Application Platform Suite directory (for example: **/home/username/JavaCAPS511**).

6 Type: **gunzip emanager-Solaris_SPARC.tar.gz** (assuming you downloaded Enterprise Manager for Solaris_SPARC).

gunzip unzips **.gz** files in the base directory.

Note: *Make sure that **gunzip** is in the path.*

7 Type: **tar xvf emanager-Solaris_SPARC.tar**.

This command expands Sun Solaris Enterprise Manager files in the base directory.

8 Change the directory to: **/home/username/JavaCAPS511/emanager** (**/home/username/JavaCAPS511/** is the example directory we used, and **emanager** was created when you untarred the file).

9 Type: **sh install.sh**.

This command begins the installation and the following prompt appears:

```
Enter a base port number 12000 to 65530: [15000]
```

Note: *"12000 to 65530" is the port number range and "15000" is the default.*

10 To select the default, press **Enter**.

or

To select another port number, type the number and press **Enter**.

Note: *The system checks to see if the port number is already in use; if so, it prompts you to select another port number.*

You are now ready to start Enterprise Manager (see **"Starting Enterprise Manager on a UNIX System" on page 82**).

5.2.3 SVG Plugin (Win32)

This section completes the installation of SVG Plugin (Win32). Although the step numbers begin with step 1, this installation is a continuation from **"Installation of Enterprise Manager" on page 66**, and assumes you have the Suite Installer open with the **Downloads** tab selected (see Figure 19) and have completed all the steps to reach this portion of the installation.

Note: *If you uploaded the **Enterprise_Manager_Plugin-win32.sar** file, you must download **Enterprise Manager-SVG Plugin(Win32)** from the **products available to download from <repository_name>** window for the Adobe SVG Viewer plug-in to function properly.*

To install the SVG Plugin (Win32)

1 Click the **Enterprise Manager-SVG Plugin(Win32)** link to download and expand the file (**SVGView.exe**).

2 Click **Run** when asked if you want to Run or Save the file.

3 [optional] If a security warning asks: **Do you want to run this software?**, click **Run**.

No additional action is required by you as Suite Installer completes the installation.

5.2.4 Command-Line Client

This section completes the installation of Command-Line Client for Windows and UNIX systems. Although the step numbers begin with step 1, this installation is a continuation from **"Installation of Enterprise Manager" on page 66**, and assumes you

have the Suite Installer open with the **Downloads** tab selected (see Figure 19) and have completed all the steps to reach this portion of the installation.

Note: *To use this standalone utility you must first have Java installed on the system on which you intend to use the program, and JAVA_HOME must be set (**"JAVA_HOME" on page 41**). For additional information, see the **Sun SeeBeyond eGate Integrator User's Guide**.*

To install Enterprise Manager Command-Line Client

1. Click the **Enterprise_Manager_Command-Line Client** link to download and expand the **em-cmdline-client.zip** file.
2. Click **Open** after the **File Download** dialog box appears. The **em-cmdline-client.zip** file is opened by an extraction program (such as WinZip).
3. Extract all the files to the client directory (such as **C:\JavaCAPS511**). After unzipping the files, the **\em-client** subdirectory is created (for example: **C:\JavaCAPS511\em-client**).

To open Enterprise Manager Command-Line Client

1. Open a command prompt and navigate to the directory where you installed the Enterprise Manager Command-Line Client files (for example: **C:\JavaCAPS511\em-client**).
2. Type **em-cmdline-client.bat** (or **sh em-cmdline-client.sh** on UNIX systems) and press **Enter** to open and use the Command-Line Client.

   The Command-Line Client appears, listing the available parameters:

```
-P <parameter=value  Value for a given method parameter
-s, --service        Service name
-h, --help           Displays basic usage
-l, --host           Host name
-m, --method         Method name (such as getStatus)
-p, --port           Port number
-n, --signatures     Displays signatures only
-t, --timeout        HTTP request timeout (milliseconds)
-u, --userid         User id (such as Administrator)
-v, --validate       Runs with parameters validation
-w, --password       User password
```

Note: ***host***, ***port***, ***userid***, *and* ***password*** *are required. To view the available services, enter* ***-s*** *at the prompt.*

3. Enter the required parameters to run the program, for example:

```
-u <userid> -w <password> -l <host> -p <port_number> -s
<service>
```

When ready, press **Enter**. The Command-Line Client opens running the service you requested.

Note: *Which command-line parameters are available are dependent upon the service you chose to use. After opening the Command-Line Client, use the* ***help*** *command to view the available parameters.*

5.3 Running Enterprise Manager as a Windows Service

Installing Enterprise Manager as a Windows service configures Enterprise Manager to automatically start up at system startup. This makes it possible for the Enterprise Manager to automatically restart after an abnormal system shutdown.

You must have Administrator rights to the local Windows machine in order to configure Enterprise Manager to start as a service. The installation script writes to the Windows Registry; this cannot be done without Administrator rights.

5.3.1 Setting Enterprise Manager to Run as Windows Service

To set Enterprise Manager to run as Windows Service

1. Use Windows Explorer to navigate to the Enterprise Manager directory (for example, **C:\JavaCAPS511\emanager**).
2. Double-click **installservice.bat**.

   This runs the script that configures the Windows service to automatically run Enterprise Manager at system startup. The service will have the same name as the installed Enterprise Manager.
3. Manually start the service the first time that you use it (this is prior to running Enterprise Manager).
   A. Open the Windows **Control Panel**.
   B. Double-click **Administrative Tools**.
   C. Double-click **Services**, and then locate **Enterprise Manager 5.1.1**.
   D. Right-click **Enterprise Manager 5.1.1** and select **Properties**.
   E. Ensure that the **Startup type** is **Automatic**, and then click **Start**.

Note: *From this time forward, Enterprise Manager starts automatically at system startup or whenever the system is rebooted.*

5.3.2 Removing Enterprise Manager as a Windows Service

You do not need to stop the Windows service before removing it.

To remove Enterprise Manager as a Windows Service

1. Use Windows Explorer to navigate to the Enterprise Manager directory (for example, **C:\JavaCAPS511\emanager**).
2. Double-click **removeservice.bat**. This runs the script that removes the Windows service that automatically starts Enterprise Manager at system startup.

5.4 Starting and Shutting Down Enterprise Manager

The following section describes how to start and shut down Enterprise Manager.

5.4.1 Starting Enterprise Manager on a Windows System

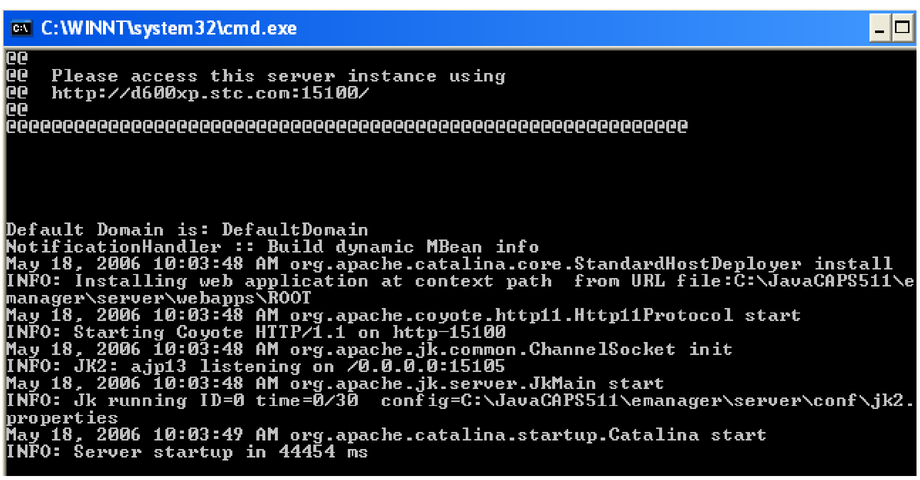
Use the following instructions to start Enterprise Manager.

Note: *Enterprise Manager runs on a standalone server and does not require a running Repository in order to start.*

To start Enterprise Manager on Windows system

1. Navigate to the directory where you installed Enterprise Manager (for example: **C:\JavaCAPS511\emanager**).
2. Double-click **startserver.bat** to start the Enterprise Manager Server. The server takes a short amount of time to start (see Figure 28).

Figure 28 Access Server via Port Number



Your system name and the port number you selected during the installation appear on the screen.

Important: *Depending upon your firewall, a Windows Security Alert window may appear. If it does, you must click* ***Unblock*** *to continue with the installation.*

3 Open a Web Browser (Internet Explorer).

4 In the **Address** line, type **http://<*hostname*>:<*port_number*>**

where:

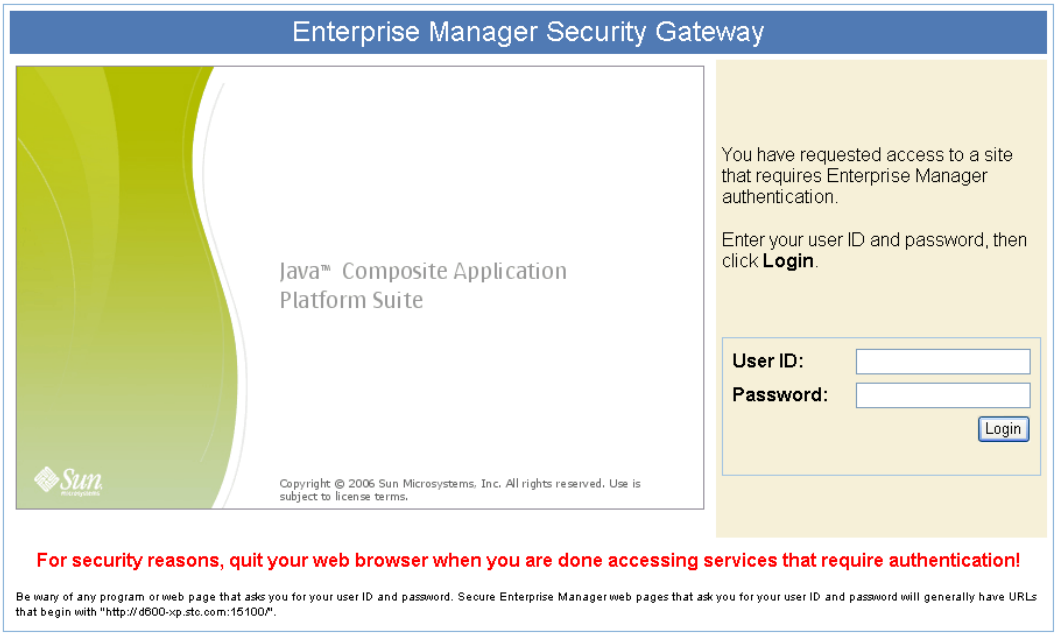
hostname is the TCP/IP host name of the server where you installed Enterprise Manager—not the name of Enterprise Manager itself.

port_number is the port number that you specified during the installation of Enterprise Manager.

Note: *The host name must be valid.*

5 Press **Enter**. The **Enterprise Manager Security Gateway** window appears (see Figure 29).

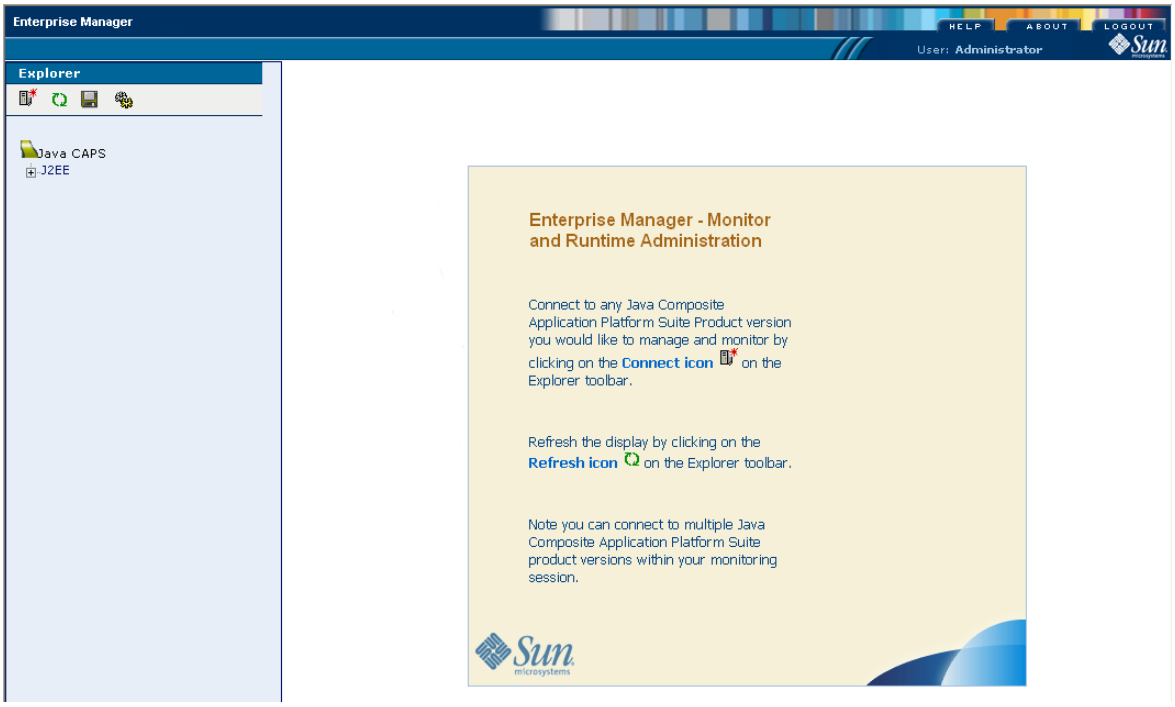
Figure 29 Enterprise Manager Security Gateway



6 Enter your **User ID** and **Password** (which are case sensitive). See the **Readme.txt** file for the default username and password.

7 Click **Login**.

Figure 30 Enterprise Manager



For detailed instructions on how to use the Enterprise Manager (monitor and runtime administration tool) and the Deploy and Manage Applications tool, see the ***Sun SeeBeyond eGate Integrator System Administration Guide***.

Important: *Before you can add a J2EE Application Server, you must first install a Logical Host and create a Domain. For instructions see* **Chapter 7**.

5.4.2 Shutting Down Enterprise Manager on a Windows System

To shut down Enterprise Manager on a Windows system

1. Click **LOGOUT**.
2. Navigate to the directory where you installed Enterprise Manager (for example: **C:\JavaCAPS511\emanager**).
3. Double-click **stopserver.bat** to stop the Enterprise Manager Server. The server takes a short amount of time to shut down.

5.4.3 Starting Enterprise Manager on a UNIX System

To start Enterprise Manager on a UNIX system

1. Change to the directory where you installed Enterprise Manager (for example: **/home/username/JavaCAPS511/emanager/**).
2. Type: **startserver.sh**.

Note: *It may take a few seconds before the Enterprise Manager Server starts. However, the monitor.log does not inform you that the server is up and ready for use.*

3 To ensure that the Enterprise Manager Server is running:

A Change directories to **emanager/server/logs**.

B Open the **catalina.out** file to view text that informs you that the Enterprise Manager Server is running and ready to use. It looks similar to:

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@
@@ The Enterprise Manager Server is up and ready for use.
@@
@@ Please access this server instance using
@@ http://<hostname>:15000/
@@
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
```

where:

<hostname> is the host where the Enterprise Manager Server is installed.

15000 is the port where the Enterprise Manager Server is installed.

4 With the Enterprise Manager Server running, open a Web Browser (Internet Explorer).

5 In the **Address** line, type **http://<*hostname*>:<*port_number*>**

where:

hostname is the TCP/IP host name of the server where you installed Enterprise Manager—not the name of Enterprise Manager itself.

port_number is the port number that you specified during the installation of Enterprise Manager.

Note: *The host name must be valid.*

6 Press **Enter**. The **Enterprise Manager Security Gateway** window appears (see Figure 29).

7 Enter your **User ID** and **Password** (which are case sensitive). See the **Readme.txt** file for the default username and password.

8 Click **Login**. The Sun SeeBeyond Enterprise Manager appears (see Figure 30).

- Use the **View available systems** icon on the Explorer toolbar to add the SRE runtime system to the Monitor.

Note: *For detailed instructions on how to use the Enterprise Manager, see the* ***Sun SeeBeyond eGate Integrator System Administration Guide****.*

5.4.4 Shutting Down Enterprise Manager on UNIX System

To shut down Enterprise Manager on a UNIX system

1. Change to the directory where you installed Enterprise Manager (for example: **/home/username/JavaCAPS511/emanager/**).
2. Type: **stopserver.sh** to stop the Enterprise Manager Server. The server takes a short amount of time to shut down.

5.5 Installing eWay Plug-ins Using Enterprise Manager

Although you can download and install the eWay plug-ins from the Suite Installer (from the **List of Components to Download** under the **Downloads** tab, you can also install them without extracting them using the Enterprise Manager.

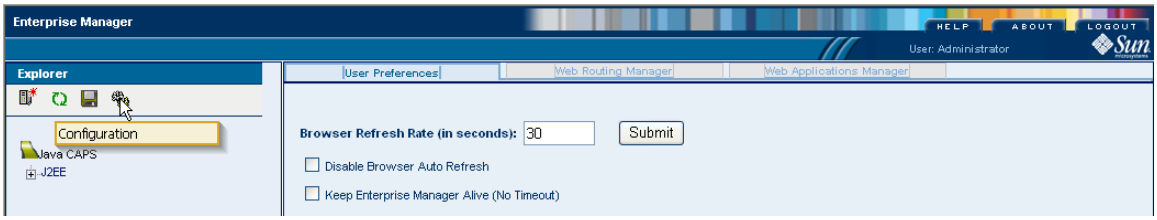
In addition to the plug-ins for your specific eWays, you must also install the **eWays Base Enterprise Manager Plug-in**.

To install eWay Plug-Ins from the Enterprise Manager

1. Start the Sun SeeBeyond Enterprise Manager (see **"Starting Enterprise Manager on a Windows System" on page 80** or **"Starting Enterprise Manager on a UNIX System" on page 82**).
2. Logon to the Sun SeeBeyond Enterprise Manager (see Figure 29).

   The Sun SeeBeyond Enterprise Manager appears (see Figure 30).
3. From the **Explorer** pane, click the **Configuration** icon (see Figure 31).

Figure 31 Configuration Icon/Web Applications Manager Tab



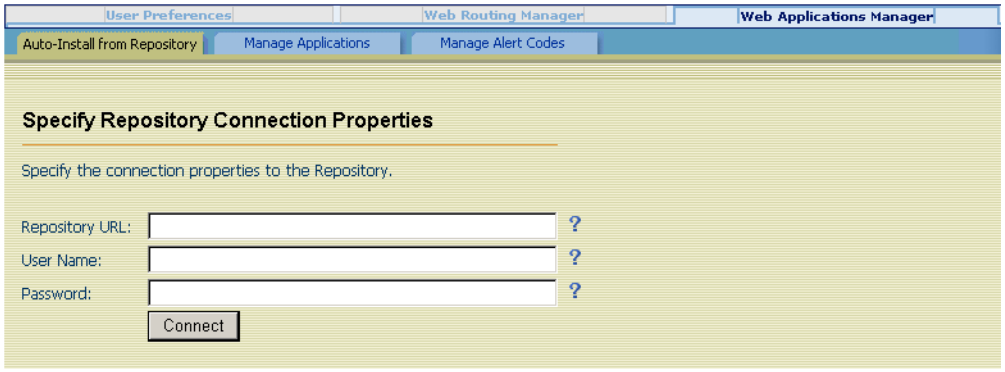
The Web Applications Manager tab appears in the right pane.

4. Click the **Web Applications Manager** tab. The Auto-Install from Repository tab appears (see Figure 32).

Figure 32 Web Applications Manager/Auto-Install from Repository Tabs

5. Click the **Auto-Install from Repository** tab. The Specify Repository Connection Properties dialog box appears (see Figure 33).

Figure 33 Specify Repository Connection Properties

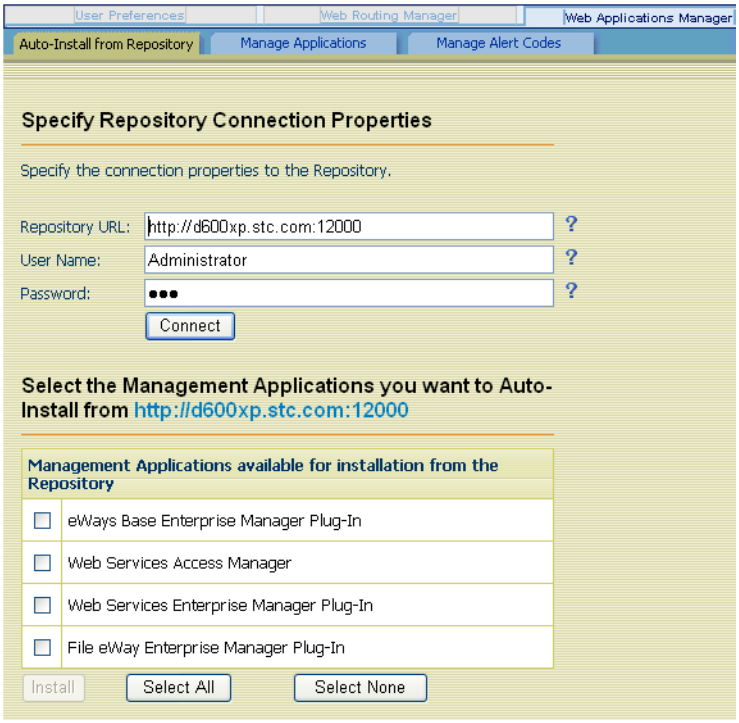


6 On the Specify Repository Connection Properties dialog box, enter the following information:

- **Repository URL**
  For example:
  http://<*computer_name*>:<*port_number*>
  where:
  <*computer_name*> is the name of the computer where the Repository is installed.
  <*port_number*> is the port number the Repository uses.
- **Username**
  This is your Java CAPS administrator username.
- **Password**
  This is your Java CAPS administrator password.

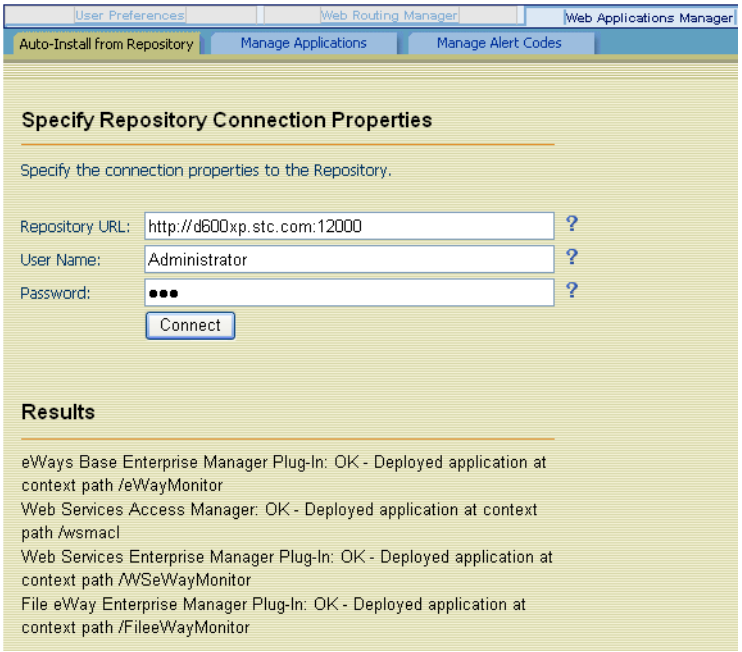
When ready, click **Connect** (to connect to the Repository). The Specify Repository Connection Properties dialog box expands to include the available eWay plug-ins (see Figure 34).

Figure 34 Specify Repository Connection Properties with Available eWay Plug-ins



7 Select the application plug-ins you want to install and click **Install**. The results are listed at the bottom of the Specify Repository Connection Properties dialog box (see Figure 35).

Figure 35 Specify Repository Connection Properties with eWay Plug-in Results



Chapter 6

Installation Instructions for Enterprise Designer

The following sections provide instructions on how to install the Sun SeeBeyond Enterprise Designer on a Windows system. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

Note: *Enterprise Designer can only be installed on Windows systems.*

What's in This Chapter

6.1 Overview

The Enterprise Designer must be installed on a Windows system. After uploading the product files to the Repository (see **Chapter 4**), you can download the Enterprise Designer from the Repository and install it on all Windows clients that will be used to build and configure eGate Projects. Although the Enterprise Designer must be installed on Windows PCs, the Enterprise Designer can connect to Repositories on any supported platform.

Important: *Spaces in the Enterprise Designer directory structure cause errors; do not use spaces when setting your directory structure.*

Note: *An extraction program, such as WinZip, must be installed on the Windows client prior to beginning the installation of the Enterprise Designer.*

6.2 Installation of Enterprise Designer

The following instructions provide the steps to download the Enterprise Designer from the Repository via the Enterprise Manager.

Note: *Before you can begin this procedure, your Repository must be running. See* **Chapter 3 "Installation Instructions for Repository" on page 33** *for instructions for starting your Repository server.*

To log on to the Enterprise Manager

1. Start Internet Explorer.
2. In the **Address** line, type **http://<*hostname*>:<*port_number*>**

   where:

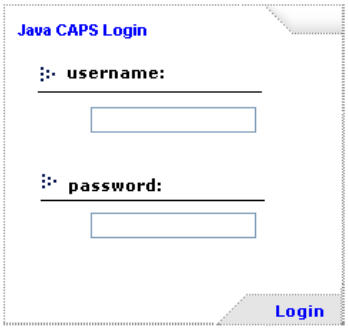
   hostname is the TCP/IP host name of the server where you installed the Repository—not the name of the Repository itself.

   port_number is the port number that you specified during the installation of the Repository.

Note: *The host name must be valid.*

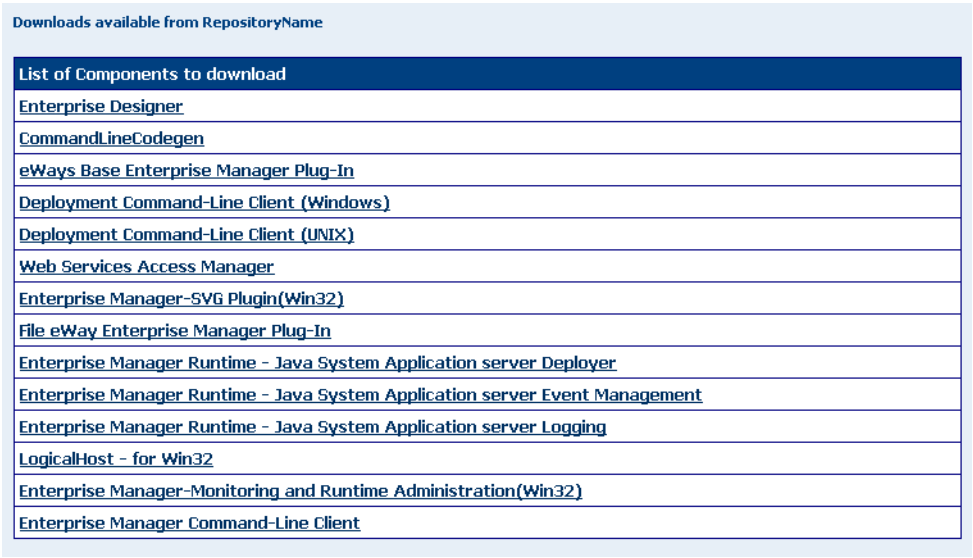
3. Press **Enter**. The **Java CAPS Login** window appears (see Figure 36).

Figure 36 Java CAPS Login window



4. Enter your **username** and **password** (which are case sensitive). See the **Readme.txt** file for the default username and password.
5. Click **Login**. The Suite Installer appears.
1. Click the **Downloads** tab. The **Downloads available from <*repository_name*>** window appears (see Figure 37).

Figure 37 Downloads available from <repository_name>



The number of product components available to download varies; the following installation instructions deal with Enterprise Designer, which is required to run the Product design tool within eGate:

2 Click **Enterprise Designer**.

3 Click **Open** after the **File Download** dialog box appears. The **edesigner.zip** file is opened by an extraction program (such as WinZip).

4 Extract all the files to the client directory (such as **C:\JavaCAPS511**). The **\edesigner** subdirectory is created when the file is unzipped.

5 Repeat this process to install any other components that you have uploaded and are now available to download.

Note: *If you uploaded the **Enterprise_Manager_SVGPlugin-win32.sar** file, you must download **Enterprise Manager-SVG Plugin(Win32)** from the **products available to download from <repository_name>** window for the Adobe SVG Viewer plug-in to function properly.*

*Selecting **Logical Host Command Line Utilities** to download provides command-line activation and deactivation. However, to use this standalone utility you must first have Java installed on the system on which you intend to use the program, and JAVA_HOME must be set (see* **"JAVA_HOME" on page 41***). For additional information, see the **Sun SeeBeyond eGate Integrator User's Guide**.*

6 When finished, close the extraction program and Internet Explorer.

6.2.1 Command Line Code Generation

This section completes the installation of the Command Line Code Gen tool, which allows you to generate an EAR file from the command line without having Enterprise

Designer running. Although the step numbers begin with step 1, this installation is a continuation from **"Installation of Enterprise Designer" on page 88**, and assumes you have the Suite Installer open with the **Downloads** tab selected (see Figure 37) and have completed all the steps to reach this portion of the installation.

To install Command Line Code Generation

1. Click the **CommandLineCodegen** link to download and expand the **Commandlinecodegen.zip** file.
2. Click **Open** after the **File Download** dialog box appears. The file is opened by an extraction program (such as WinZip).
3. Extract all the files to the client directory (such as **C:\JavaCAPS511**). The **C:\JavaCAPS511\commandlinecodegen** subdirectory is created when the file is unzipped.

Note: *For additional information on how to set up your system to use Command Line Code Generation see the* ***Sun SeeBeyond eGate Integrator User's Guide****.*

6.2.2 Starting Enterprise Designer and Installing Required eGate Modules

After you start the Enterprise Designer for the first time, you must install all the modules required to run the program.

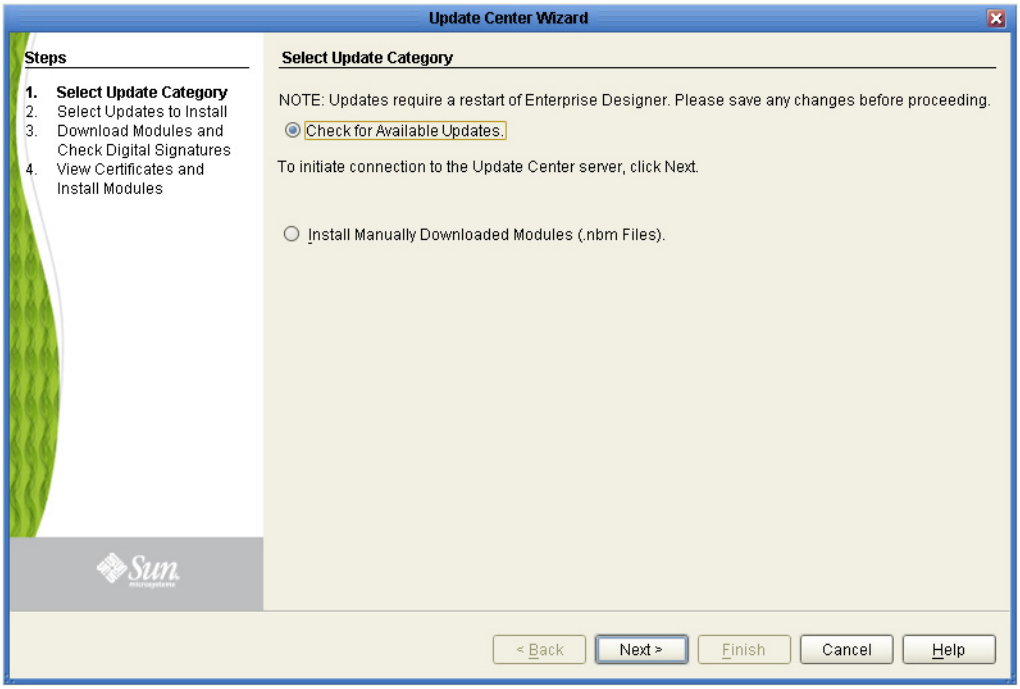
To start Enterprise Designer and install required modules

1. Navigate to **<*C:\JavaCAPS511*>\edesigner\bin** and double-click **runed.bat** to start Enterprise Designer.

Note: *You may want to create a shortcut to Sun SeeBeyond Enterprise Designer on the desktop.*

2. You must download the modules, check their signatures, and then install the modules. On the **Tools** menu, click **Update Center**. The **Update Center Wizard - Select Update Category** dialog box appears (see Figure 38).

Figure 38 Update Center Wizard - Select Location of Modules



Under **Select Update Category** there is one selection:

- **Check for Available updates**

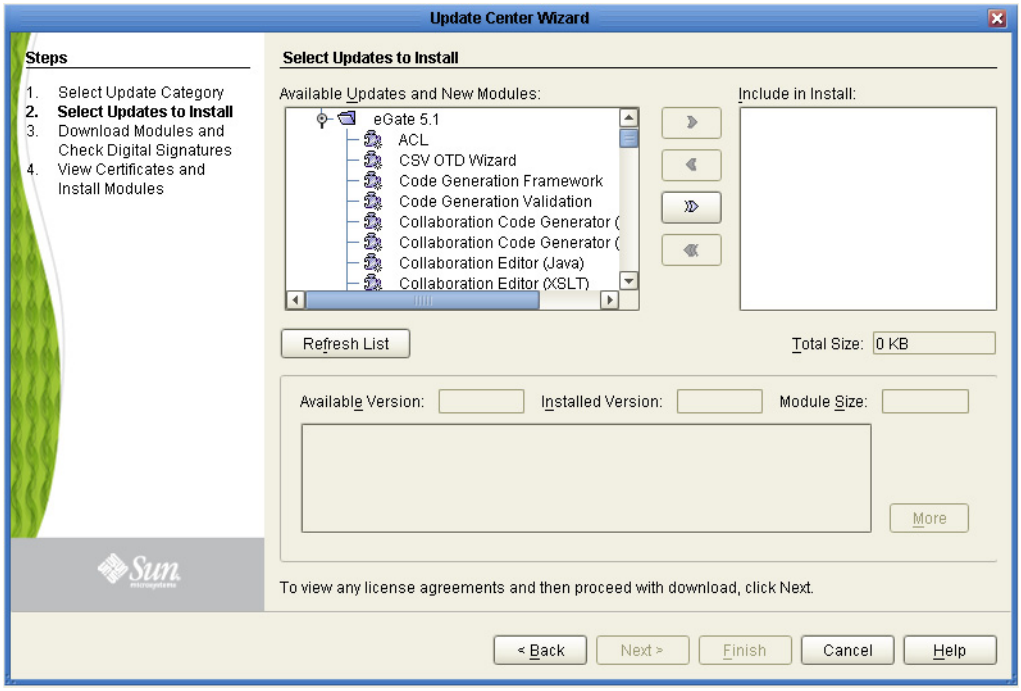
3 Ensure that **Check for Available updates** is selected and then click **Next**. The **Update Center Wizard - Select Updates to Install** dialog box appears (see Figure 39).

4 Click the **Add All** button (double-arrow button that is the third arrow button from top) *only if there are no ESRs present* in the **Available Updates and New Modules** area. All of the modules are moved to the **Include in Install** list.

If there are ESRs present in the **Available Updates and New Modules** area, you must use the single-arrow button to move only product modules into the **Include in Install** list.

Note: *Alternately, you can click the **Add All** button to move all the modules to the **Include in Install** list, and then singularly move the ESRs back to the **Available Updates and New Modules** list. The **Add All** button is the only button that is active in Figure 39.*

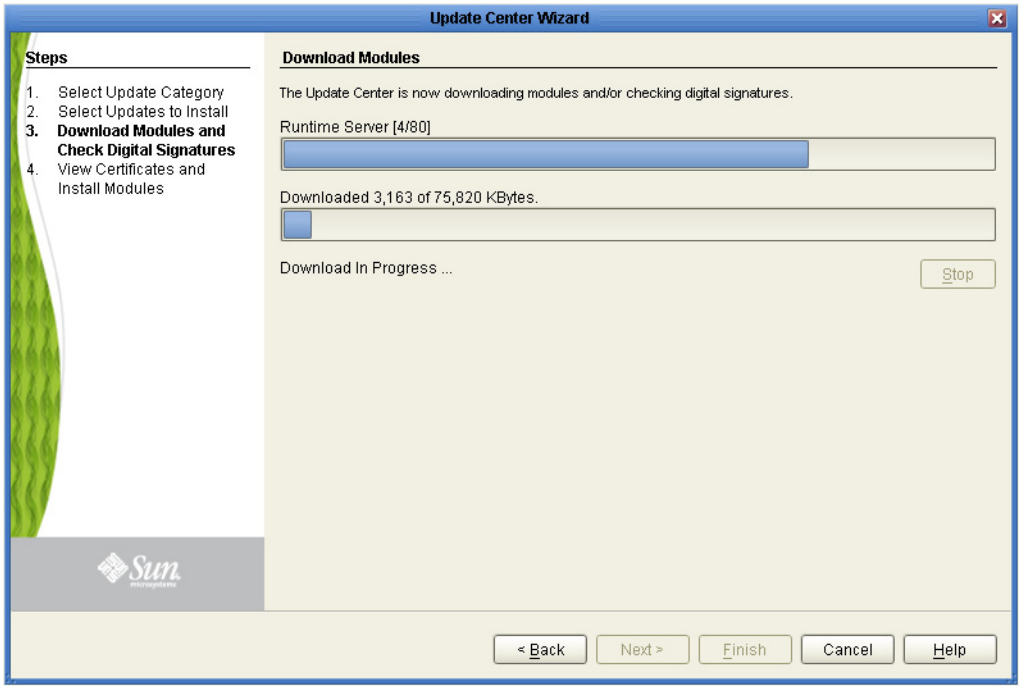
Figure 39 Update Center Wizard - Select Updates to Install



5 Click **Next**.

6 Click **Accept** when the **License Agreement** appears. The **Update Center Wizard - Download Modules** dialog box appears (see Figure 40).

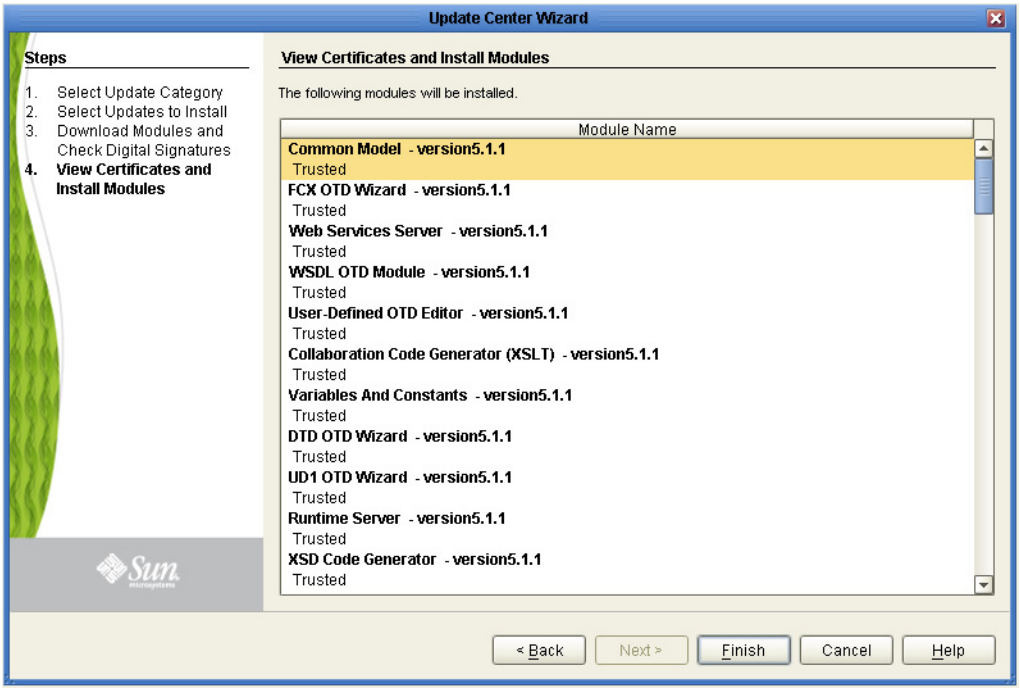
Figure 40 Update Center Wizard - Download Modules



7 Click **Next** when the progress bar reaches 100 percent and "Done" appears below the bar.

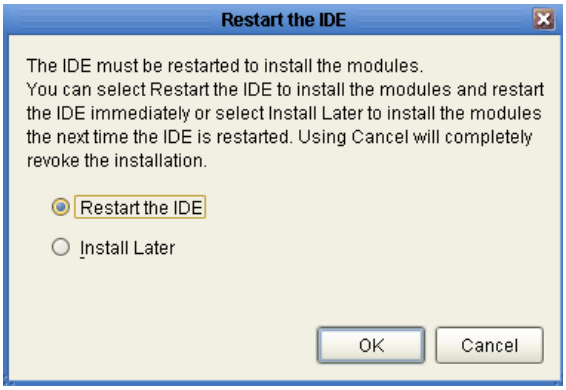
The **Update Center Wizard - View Certificates and Install Modules** dialog box appears (see Figure 41). All of the modules must be installed for Enterprise Designer to fully function.

Figure 41 Update Center Wizard - View Certificates and Install Modules



8 Click **Finish** to accept the certificates and install the modules. The **Restart the IDE** dialog box appears (see Figure 42).

Figure 42 Restart the IDE dialog box



The modules that were installed in **step 8** must be reloaded before Enterprise Designer functions properly.

9 Ensure that the **Restart the IDE** option is selected, then click **OK** to restart the IDE and install the modules. The Enterprise Designer **Login** dialog box appears (see Figure 43).

10 Enter your **Login ID** and **Password** and then click **Login**. The Login ID is the same as the username. Sun recommends that you log in as "Administrator" the first time you log in; the Administrator can then create additional Login IDs (usernames).

When the **Sun SeeBeyond Enterprise Designer** window appears, you can begin using Enterprise Designer.

Note: *See the **Sun SeeBeyond eGate Integrator Tutorial** and the **Sun SeeBeyond eGate Integrator User's Guide** for detailed instructions on using eGate.*

6.2.3 Starting Enterprise Designer After Initial Logon

This section provides instructions for logging in for subsequent sessions of eGate.

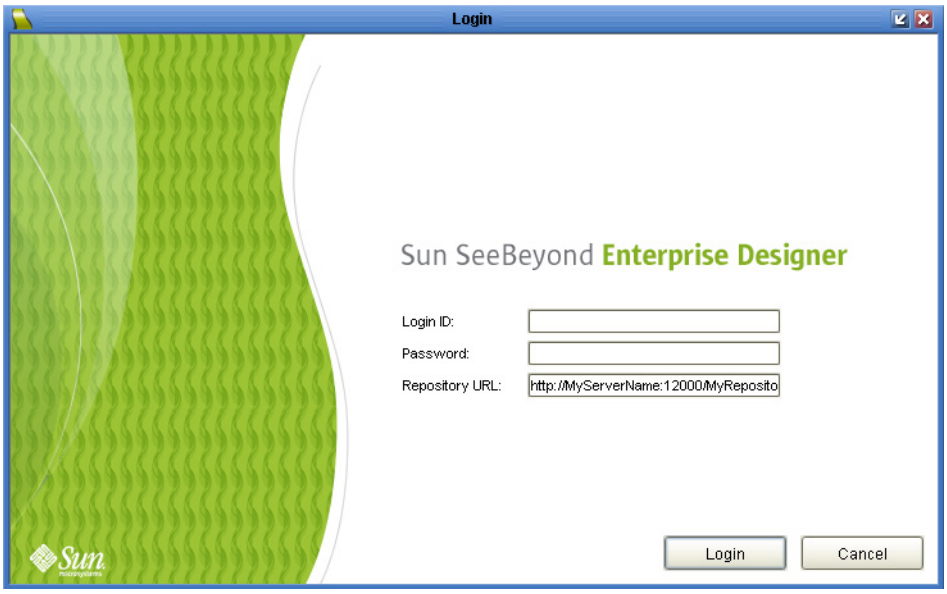
Before logging in for subsequent sessions of eGate, the Sun SeeBeyond Repository server must be running.

To start Enterprise Designer

1 Navigate to **<*C:\JavaCAPS511*>\edesigner\bin** and double-click **runed.bat**.

The Enterprise Designer **Login** dialog box appears (see Figure 43).

Figure 43 Enterprise Designer Login dialog box



2 Enter your **Login ID** and **Password**, and then click **Login**.

Note: *On succeeding logins the Login ID field is automatically populated.*

The **Sun SeeBeyond Enterprise Designer** window appears.

To exit Enterprise Designer

- Click the "X" in the upper right corner of the window.

or

- On the **File** menu, click **Exit**.

Chapter 7

Installation Instructions for Logical Host

The following sections provide instructions on how to install a Logical Host. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

7.1 Overview

Before deploying a Project created in the Enterprise Designer, you must first install a Logical Host. This chapter provides instructions for downloading and installing a Logical Host from the Suite Installer. It assumes that you have already uploaded the Logical Host product-specific SAR files to the Repository (see **Chapter 4**).

A Logical Host can be installed on any eGate supported platform. Since the installation process is different on a Windows system than it is on a non-Windows system, the installation procedures documented in this chapter are divided into two sections:

- Installation on a Windows system (see **"Logical Host Installation on Windows" on page 97**)
- Installation on a non-Windows system (see **"Logical Host Installation on All non-Windows Platforms" on page 99**), which includes:
  - UNIX systems
  - Linux systems

7.2 Logical Host Installation on Windows

This section lists the necessary steps to create a directory that can contain Domains on a Windows system. The procedure includes the following steps:

- Download the **logicalhost-win32.zip** file (see **"Downloading and Expanding a ZIP File" on page 97**)
- Expand the **logicalhost-win32.zip** file in the target directory (see **"Downloading and Expanding a ZIP File" on page 97**)
- Create an instance of a Logical Host (see **"Creating an Instance of a Logical Host" on page 98**)

Note: *Before you can begin this procedure, your Repository must be running for the Suite Installer. See* **Chapter 3 "Installation Instructions for Repository" on page 33** *for instructions for starting your Repository server.*

7.2.1 Downloading and Expanding a ZIP File

This procedure assumes that you have already uploaded the SAR file.

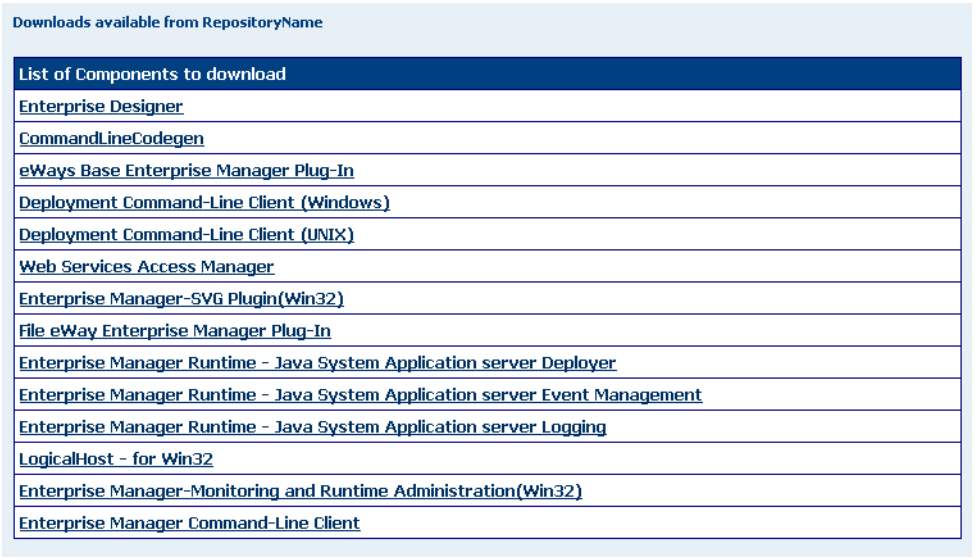
To download and expand ZIP file

1. Open a Web Browser (such as Internet Explorer) to access the Suite Installer (see **"To start Suite Installer" on page 48**).

Note: *If you have not already uploaded the Logical Host SAR file, see* **"To upload Logical Host files" on page 62** *for information about Logical Host files, and then see* **"Uploading Additional Products to the Repository" on page 54** *for the location of the SAR file on the ISO image or DVD set and detailed instructions on uploading files.*

2. Select the **Downloads** tab. The **List of Components to download** window appears (see Figure 44).

Figure 44 List of Components to Download



The number of product components that appear in the **List of Components to download** varies, depending upon what you have uploaded. This chapter focuses on Logical Host components.

3 Click the **LogicalHost - for Win32** link to download and expand the **logicalhost-win32.zip** file.

4 Click **Open** after the **File Download** dialog box appears. The **logicalhost-win32.zip** file is opened by an extraction program (such as WinZip).

5 Extract all the files to the target directory (for example: **C:\JavaCAPS511**). The **\logicalhost** subdirectory is created when the file is unzipped.

You are now ready to create an instance of a Logical Host.

7.2.2 Creating an Instance of a Logical Host

The **logicalhost** subdirectory you just created (see **"Downloading and Expanding a ZIP File" on page 97**) can contain one or more Domains, which are instances of a Logical Host. When the subdirectory is created it does not contain any Domains—you must create them.

To create an instance of a Logical Host

1 Navigate to the subdirectory where you installed the runtime files (for example: **C:\JavaCAPS511\logicalhost**).

The **\logicalhost** subdirectory contains scripts that allow you to create a Domain (which is an instance of a Logical Host) from the command prompt or from the Domain Manager.

- **createdomain.bat** is a Windows script that creates a Domain using the first available ports starting with 18000 incrementing by 1000 for each subsequent one (that is: 18000, 19000, 20000, etc.). There is also a **createdomain.sh** script that

runs on non-Windows platforms and creates a Domain using the first available ports.

Note: *If you have difficulty creating a Domain using* ***createdomain.bat****, see* **"Problems Creating Domains" on page 161**.

- **domainmgr.bat** opens the Domain Manager, which is included with the Windows installation of the Logical Host. Use the Domain Manager to perform a number of Domain-related tasks, such as creating a Domain or setting a Domain to run as a Windows Service. For additional information, see the *Sun SeeBeyond eGate Integrator System Administration Guide*.

2 Create an instance of a Logical Host by double-clicking **createdomain.bat** or **domainmgr.bat**.

Note: *To start a Domain, see* **"Starting and Stopping a Domain on Windows Systems" on page 104**.

7.3 Logical Host Installation on All non-Windows Platforms

Before running a Project you created in Enterprise Designer, you must create a directory that can contain Domains on a non-Windows system.

Assuming that the Logical Host SAR file for the UNIX or Linux platform you intend to install on has been uploaded from the appropriate ISO image (or DVD - Part No. 708 0158-10) to the Repository, the installation includes the following steps:

- Download the **.tar.gz** file; there are two ways to this:
  - Use a browser to copy the **.tar.gz** file to the target directory (see **"To download using the Browser" on page 100**)

    or
  - Use FTP to place the **.tar.gz** file in the target directory (see **"To download using the FTP feature" on page 101**)

Note: *If you have not previously uploaded the SAR file (for example:* ***logicalhost-Solaris_SPARC.sar****), see* **"Uploading Files to the Repository" on page 47**.

- Untar and expand the TAR file in the target directory (see **"Untarring the File" on page 101**)
- Create an instance of a Logical Host (see **"Creating an Instance of a Logical Host" on page 102**)

7.3.1 Downloading the TAR File

To download using the Browser

1. Open a Web Browser (such as Internet Explorer) to access the Suite Installer (see **"To start Suite Installer" on page 48**).
2. With the Suite Installer open, click the **Downloads** tab. The List of Components to download window appears (see Figure 45).

Figure 45 List of Components to Download

The number of product components that appear in the **List of Components to download** varies, depending upon what you have uploaded. This chapter focuses on Logical Host components.

3. Right click the Logical Host you want to download (for example: **LogicalHost for Solaris (SPARC)**) to download the TAR file (for example: **logicalhost-Solaris_SPARC.tar.gz**) to your Composite Application Platform Suite directory (for example: **/home/username/JavaCAPS511**).
4. Click **Save Target As**.
5. Enter the directory where you want to save the **.tar.gz** file in the **Save As** dialog box (such as **/home/username/JavaCAPS511**) and click **Save**.
6. Click **Close** after the download completes.
7. Open a command prompt.
8. Change the directory to your base Composite Application Platform Suite directory (for example: **/home/username/JavaCAPS511**).
9. Type: **gunzip logicalhost-Solaris_SPARC.tar.gz** (assuming you downloaded LogicalHost for Solaris_SPARC).

   gunzip unzips **.gz** files in the base directory.

Note: *Make sure that **gunzip** is in the path.*

The next step is to untar the file (see **"Untarring the File" on page 101**).

To download using the FTP feature

Use the FTP feature of the Repository to download the Logical Host TAR file for a particular UNIX or Linux platform.

1. Telnet into the UNIX or Linux system and change to the directory where you want to install the Logical Host/Domain.
2. Connect to the Repository FTP server by typing: **ftp <*repository_hostname*> <*ftp_port_number*>**

   where:

   <*repository_hostname*> is the TCP/IP host name of the server where you installed the Repository—not the name of the Repository itself.

   <*ftp_port_number*> is the base port number that you entered during the installation of the Repository plus **8**. That is, if the base port number is **12000**, then the FTP server port number would be **12008**.
3. Press **Enter**.
4. Log in using your Java CAPS administrator username and password.

   A. At the prompt, type **<*username*>** and press **Enter**.

Note: *This is your Java CAPS administrator username, not your operating system/network username. See the* ***Readme.txt*** *file on the root directory of the Repository ISO images (or DVD - Part No. 708 0157-10) for the default username.*

   B. At the prompt, type **<*password*>** and press **Enter**.

Note: *This is your Java CAPS administrator password, not your operating system/network password. See the* ***Readme.txt*** *file on the root directory of the Repository ISO images (or DVD - Part No. 708 0157-10) for the default password.*

5. Type: **bin** and press **Enter** to enter binary mode, otherwise you will download in ASCII.
6. To browse for the downloadable Logical Host, type **ls** and press **Enter**.
7. To begin the download, type **get <*logicalhost-filename*>**

   where:

   <*logicalhost-filename*> is the name of the **.tar.gz** file name that contains the Logical Host that you want to install (for example: **logicalhost-Solaris_SPARC.tar.gz**).
8. Quit the FTP session by typing: **quit** and then pressing **Enter**.

The next step is to untar the file (see **"Untarring the File" on page 101**).

7.3.2 Untarring the File

This is a continuation from **"To download using the Browser" on page 100** or **"To download using the FTP feature" on page 101**.

To untar the file on all systems

1. Type **tar xvf logicalhost-Solaris_SPARC.tar** (assuming you downloaded and unzipped LogicalHost for Solaris_SPARC).

   This command expands Sun Solaris Logical Host files in the base directory.

2. Press **Enter**. This creates a directory named "logicalhost" inside the target directory where the **tar** command was executed and expands the Logical Host files in the target directory.

3. Change the directory to: **/home/username/JavaCAPS511/logicalhost** (**/home/username/JavaCAPS511/** is the example directory we used in **"To download using the Browser" on page 100** and **"To download using the FTP feature" on page 101**, and **logicalhost** was created when you untarred the file).

   The **logicalhost** subdirectory can contain one or more Domains. Currently the directory does not contain any Domains. You need to create one.

   The next step is to create a Domain (see **"Creating an Instance of a Logical Host" on page 102**).

7.3.3 Creating an Instance of a Logical Host

The **logicalhost** subdirectory you just created can contain one or more Domains, which are instances of a Logical Host. When the subdirectory is created it does not contain any Domains—you must create them.

For HP-UX only

Before creating a Domain, you must ensure that **/usr/lib** is in the **SHLIB_PATH** environment variable. To do this, enter:

export SHLIB_PATH=/usr/lib

For HP Tru64 only

- If you installed the Logical Host on HP Tru64 and the shell is **csh**, you should run the following command *before* creating an instance of the Logical Host:

  ```
  unlimit
  ```

- If you installed the Logical Host on HP Tru64 and the shell is **bash**, you should run the following command *before* creating an instance of the Logical Host:

  ```
  ulimit -Sd 512000
  ```

To create an instance of a Logical Host on a non-Windows system

1. Navigate to the subdirectory where you installed the runtime files. For example: **/home/username/JavaCAPS511/logicalhost**,

   where:

   /home/username/JavaCAPS511 is the target directory we used,

   /logicalhost was created when you untarred the file.

   The **/logicalhost** subdirectory contains the following script that allows you to create a Domain from the command prompt:

- **createdomain.sh** is a non-Windows script that creates a Domain using the first available ports.

2 To create an instance of a Logical Host, type: **createdomain.sh** at the command prompt and follow the prompts.

During the installation, the system checks to see if any port numbers are already in use; if so, it prompts you to select another port number for the specified ports. The ports in question (with examples of default port numbers) are:

`adminport (default 18000)`	Administrative server port that accepts Hyper Text Transfer Protocol (HTTP) requests to access the Runtime Server of a Domain. To open the administration console, specify this port number in your Web browser when you access the Domain.
`instanceport (default 18001)`	Application server port that accepts requests of HTTP and can access HTTP requests that are not related to administrative requests.
`orbport (default 18002)`	Server port that accepts Internet Inter-Orb Protocol (IIOP) requests used by the built-in object request broker to bootstrap the Domain and accept IIOP requests.
`imqport (default 18003)`	This port is no longer in use; will be disabled.
`httpsport (default 18004)`	HTTP secure socket layer (SSL) port that accepts requests of HTTP and can access HTTP requests that are not related to administrative requests. Required for Web applications that are configured for secure communications.
`orbsslport (default 18005)`	Server port that listens with IIOP used by the built-in Object Request Broker (ORB) to bootstrap the Domain and accept SSL IIOP requests. The system selects this port number.
`orbmutualauthport (default 18006)`	ORB mutual authentication port that requires the client to authenticate itself to the server and the server to authenticate itself to the client. It provides client credentials.
`stcmsiport (default 18007)`	The Sun SeeBeyond JMS IQ Manager port that is used to authenticate a client and server.
`stcmsisslport (default 18008)`	The Sun SeeBeyond JMS IQ Manager SSL port that is used to authenticate a client and server. Required for Web applications that are configured for secure communications.

Once the system is satisfied that all the ports have been assigned valid port numbers, it installs the Domain, which is an instance of a Logical Host (for example: **domain1**).

Note: *If you have difficulty creating a Domain using* ***createdomain.sh****, see* **"Problems Creating Domains" on page 161**.

You are now ready to start the Domain (see **"Starting and Stopping a Domain on UNIX and Linux Systems" on page 105**).

7.4 Starting Domain Manager

The following procedure describes how to start the Domain Manager, which opens a GUI that allows you to create a new instance of a Logical Host (Domain) or open an existing instance of a Logical Host (Domain). For instructions on how to use Domain Manager, see the *Sun SeeBeyond eGate Integrator System Administration Guide*.

Note: *Domain Manager only runs on Windows-based systems.*

7.4.1 Starting Domain Manager

To start Domain Manager

1. Navigate to the directory where you installed the Logical Host (for example: **C:\JavaCAPS511\logicalhost**).
2. Double-click **domainmgr.bat**. Domain Manager opens.

7.5 Starting and Stopping Domains

The following section provides instructions on how to manually start and stop Domains.

7.5.1 Starting and Stopping a Domain on Windows Systems

To start a Domain on a Windows system

1. Navigate to the directory where you installed the Domain (for example: **C:\JavaCAPS511\logicalhost**).
2. Double-click **start_<*domain_name*>.bat**

   Where:

   <*domain_name*> is the name of the Domain you want to start (for example: **start_domain1.bat**).

To stop a Domain on a Windows system

1. Navigate to the directory where you installed the Domain (for example: **C:\JavaCAPS511\logicalhost**).
2. Double-click **stop_<*domainName*>.bat**

Where:

<*domainName*> is the name of the Domain you want to stop (for example: **stop_domain1.bat**).

7.5.2 Starting and Stopping a Domain on UNIX and Linux Systems

To start a Domain on UNIX and Linux systems

1. Navigate to the directory where you installed the Logical Host (for example: **/home/username/JavaCAPS51/logicalhost**).
2. Type: **start_<*domainName*>.sh** and press **Enter**

   Where:

   <*domainName*> is the name of the Domain you want to start (for example: **start_domain1.sh**).

In addition, be aware of the following bulleted items:

- If you installed the Logical Host on HP Tru64 and the shell is **csh**, you must run the following command *before* starting the Logical Host:

  ```
  unlimit
  ```

- If you installed the Logical Host on HP Tru64 and the shell is **bash**, you must run the following command *before* starting the Logical Host:

  ```
  ulimit -Sd 512000
  ```

To stop a Domain on UNIX and Linux systems

1. Navigate to the directory where you installed the Domain (for example: **/home/username/JavaCAPS511/logicalhost**).
2. Type: **stop_<*domainName*>.sh** and press **Enter**

   Where:

   <*domainName*> is the name of the Domain you want to stop (for example: **stop_domain1.sh**).

Chapter 8

Installation Instructions for ESRs

The following sections provide instructions on how to install Emergency Software Releases (ESRs), which are updates that resolve known issues. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

8.1 About ESRs

ESRs are bundled as distribution ZIP files named **ESR0*nnnnnn*-dis**t.zip, where *nnnnnn* is the number of the ESR.

ESRs update one or more of the following Composite Application Platform Suite components:

- **Enterprise Designer**
  These ESRs resolve issues for Enterprise Designer components. An Enterprise Designer ESR is provided as an **ESR0*nnnnnn*.sar** file included in the distribution ZIP file.
- **Logical Host**
  These ESRs resolve issues for Logical Hosts, Sun SeeBeyond JMS IQ Manager, Management Agents (STCMA), and Integration Servers. A Logical Host ESR is provided as an **ESR*nnnnnn*.sar** file included in the distribution ZIP file.
- **Repository**
  These ESRs resolve issues for the Repository. A Repository ESR is provided as an **ESR*nnnnnn*.zip** file included in the distribution ZIP file.
- **Enterprise Manager**
  These ESRs resolve issues related to Enterprise Manager. An Enterprise Manager ESR is provided as an **ESR*nnnnnn*.zip** file included in the distribution ZIP file.
- **Non-eGate product rollup upgrades**
  These ESRs are product upgrades that can be installed on eGate, and are released as a rollup upgrade and *not* a patch. If the non-eGate product already has ESRs installed against it, you may be required to download and run a script (BAT file) that removes any patches that were previously installed. This is a one-time task, as all subsequent ESRs are installed as rollup upgrades. The non-eGate product rollup upgrades are provided as an **ESRRU*nnnnnn*.sar** file included in the distribution ZIP file. These ESRs overwrite previous versions of the product, and, once installed, cannot be uninstalled.

Note: *After installing certain ESRs, you may have to restart the Repository.*

Important: *If you install ESRs in a clustered environment, follow the appropriate ESR procedures to complete the installation. There are no instructions that are specific to installing ESRs to a clustered environment.*

8.1.1 ESR Distribution ZIP File Contents

ESR distribution ZIP files (**ESR0*nnnnnn*-dist.zip**) include the files listed below. Distribution files can include any combination of the files listed in Table 14. It depends on whether the ESR updates Enterprise Designer, Logical Host, Repository, and/or Enterprise Manager, components, and non-eGate product version upgrades.

Table 14 Contents of ESR Distribution ZIP File

ESR file	Packaged with ESR	Purpose
ESR0*nnnnnn*.sar	Enterprise Designer	Resolves Enterprise Designer issues. ▪ Enterprise Designer ESRs are installed on each system that has Enterprise Designer installed.

Table 14 Contents of ESR Distribution ZIP File (Continued)

ESR file	Packaged with ESR	Purpose
ESR*nnnnnn*.sar	Logical Host	Resolves Logical Host issues. ▪ Logical Host ESRs are installed on each system that has Logical Hosts installed. You must decide which ESRs you want to install on each Logical Host.
ESRRU*nnnnnn*.sar	non-eGate product rollup upgrade	Installs non-eGate product rollup upgrades. ▪ Installs non-eGate product rollup upgrades by overwriting the previous version. Once installed, the ESR cannot be uninstalled. *Note: The first time that this ESR is applied to a specific non-eGate product, you may be required to download and run a script (BAT file) that removes previous ESRs applied against the product.*
ESR*nnnnnn*.zip	Repository	Resolves Repository issues. ▪ Repository ESRs are installed on the system where the Repository runs.
ESR*nnnnnn*.zip	Enterprise Manager	Resolves Enterprise Manager issues. ▪ Enterprise Manager ESRs are installed on the system where the Enterprise Manager runs.
ESR<*number*>Filelist.txt	Enterprise Designer Logical Host Repository	Lists all files associated with this ESR.
ESR<*number*>Readme.txt	Enterprise Designer Logical Host Repository	Describes the issue(s) resolved by this ESR, lists superseded ESRs (if any), and provides general installation information

8.2 Quick Start Guide to Installing ESRs

The installation procedure for ESRs depends on the type(s) of Composite Application Platform Suite components that are being updated. The ESR Readme file,

ESR<number>Readme.txt, which is included in the ESR distribution file, provides a brief outline of the installation process for the ESR. This chapter provides the details for each installation step.

To provide you with a quick overview, the procedure below describes each possible step in the installation process and refers you to the section in this chapter that provides the details for the step.

Important: *You must install ESRs in build-date order.*

Some ESRs may require all steps, and others may require less. The ESR Readme file lists which steps are required for the particular ESR you want to install.

1. Extract the **ESR0*nnnnnn*-dist.zip** file to a temporary directory as described in **"Extracting ESR Distribution ZIP Files" on page 109**.
2. If the distribution file includes a Repository ZIP file (**ESR*nnnnnn*.zip**), install the ZIP file as described in **"Installing Repository ESRs" on page 124**.
3. If the distribution file includes an Enterprise Manager ZIP file (**ESR*nnnnnn*.zip**), install the ZIP file as described in **"Installing Enterprise Manager ESRs" on page 126**.
4. If the distribution file includes SAR files, upload the files to the Repository as described in **"Uploading Enterprise Designer and Logical Host ESRs From the Suite Installer" on page 110**.
5. If the ESR Readme file instructs you to do so, download and extract any available **edesigner_ESR0*nnnnnn*.zip** and/or **logicalhost_ESR0*nnnnnn*.zip** files as described in **"Downloading and Extracting Enterprise Designer and Logical Host ESR ZIP Files" on page 121**.
6. If the ESR Readme file instructs you to do so, install Enterprise Designer ESRs using the Update Center in the Enterprise Designer as described in **"Installing Enterprise Designer ESRs and non-eGate Product Rollup Upgrades" on page 113**.

8.3 Extracting ESR Distribution ZIP Files

The first step in the ESR installation process is to extract the ESR distribution ZIP file named ***ESR0nnnnnn-dist.zip***, where *nnnnn* is the ESR ticket number. The procedure below describes how to extract the ESR distribution ZIP file.

To extract distribution ESR ZIP files

1. Create a temporary directory.
2. Use WinZip (or another tool) to extract the ESR ZIP file to a temporary directory.

   See Table 14 for a listing of what ESR files are packaged within each ESR distribution ZIP file.

8.4 Uploading Enterprise Designer and Logical Host ESRs From the Suite Installer

Before you can install an Enterprise Designer or Logical Host ESR, you must extract the ESR ZIP file as described in **"Extracting ESR Distribution ZIP Files" on page 109** and then upload the ESR SAR file to the Repository (Enterprise Designer, Logical Host, and non-eGate product version upgrade ESRs are distributed as SAR files).

Important: *There may be more than one SAR file to upload. You need to upload all the SAR files. Do not forget that when you install ESRs, you must install them in build-date order.*

You first upload Enterprise Designer and Logical Host ESRs from the Suite Installer, and then install Enterprise Designer ESRs using the Enterprise Designer Update Center (see **"Installing Enterprise Designer ESRs" on page 118**).

- The ESR number for Enterprise Designer SAR files contains seven digits and are zero padded (**ESR0*nnnnnn*.sar**).
- The ESR number for Logical Host SAR files contains five digits (**ESR*nnnnn*.sar**).

Only Enterprise Designer and Logical Host ESRs are uploaded to the Repository.

Important Information

- You cannot upload an ESR if the base product is not installed.

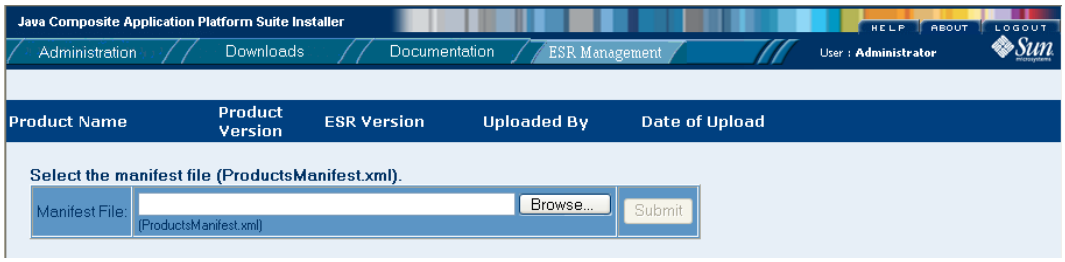
Note: *Base products are non-ESR Enterprise Designer product modules.*

- You cannot upload an ESR if the version of the ESR does not match the version of the base product.
- You cannot install base products from the **ESR Management** tab. You must install base products from the **Select Composite Application Platform Suite Products to Install** list under the **Administration** tab.

To Upload Enterprise Designer ESRs from the ESR Management Tab

1. With the Suite Installer running, select the **ESR Management** tab. The ESR Management window appears (see Figure 46).

Figure 46 ESR Management Window



The following fields help you track the ESRs that you install:

- **Product Name** is the name of the product component.
- **Product Version** is the version number of the product.
- **ESR Version** is the version of the ESR.
- **Uploaded By** is the name of the person who uploaded the ESR.
- **Date of Upload** is the timestamp of the ESR upload.

2 Click **Browse** to locate the manifest file for the ESR you want to install.

- Select the manifest file and click **Open**. The **Manifest File** field populates (see Figure 47).

Figure 47 Products.Manifest.xml

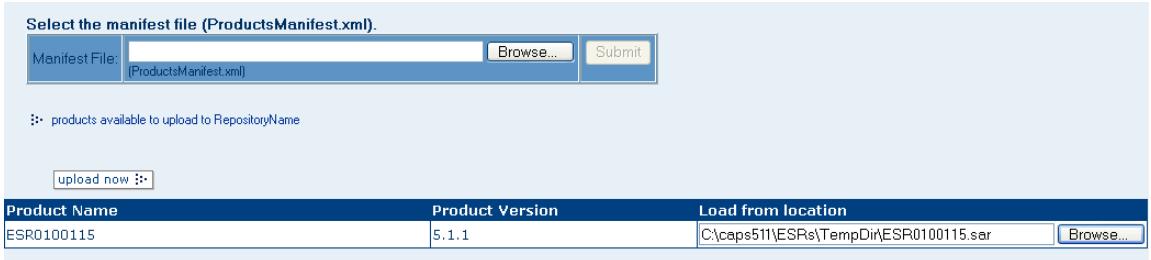
3 Click **Submit**. The Suite Installer expands to show a product list of available ESRs (see Figure 48). The available ESRs are listed by Product Name and Product Version.

Figure 48 Suite Installer with Product List of Available ESRs

4 Click **Browse** to locate the SAR file for the ESR you want to install.

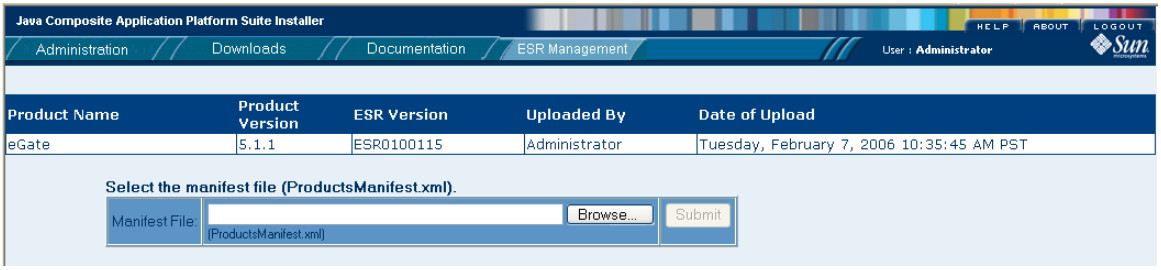
- Select the SAR file and click **Open**. The **Load from location** field populates with the selected SAR file (see Figure 49).

Figure 49 Selected Product .sar File



5 Click **upload now**. When upload completes, ESR Management tool informs you that the ESR upload has finished (see Figure 50).

Figure 50 Upload Finished



The ESR is placed in the ESR Management list, which, for identity purposes, includes the following information:

- Product Name
- Product Version
- ESR Version
- Uploaded By
- Date of Upload

6 To add another ESR, click **Browse** to locate the Products Manifest file, and then repeat the process you just followed to install the first ESR.

7 To complete the installation of Enterprise Designer and Logical Host ESRs, see:

- **"Installing Enterprise Designer ESRs" on page 118**

8.5 Downloading and Running the non-eGate Product Version Upgrade Script

Before you install a non-eGate product version upgrade that has previous ESRs installed against it, you must first download a supplied script (BAT file) that removes all previously-installed patches from the product. The script uploaded to the Repository when you uploaded the non-eGate product version upgrade ESR (see **"Uploading Enterprise Designer and Logical Host ESRs From the Suite Installer" on page 110**). You *must* perform this task before you use the Enterprise Designer Update Center (see **"Installing Enterprise Designer ESRs and non-eGate Product Rollup Upgrades" on page 113**).

Note: *This task only needs to be performed once—the first time you upgrade a non-eGate product that has previous ESRs installed.*

To download and run the script

1 With Enterprise Manager running, click the **Downloads** tab. The **products available to download from <*repository_name*>** window appears.

2 Click **<*ProductName*>ESRpatch_Cleanup_command**.

3 Click **Open** after the **File Download** dialog box appears. The **<*ProductName*>ESRpatch_Cleanup_command.zip** file is opened by an extraction program (such as WinZip).

4 Extract the file to the client directory (such as **C:\JavaCAPS511**).

5 Navigate to the client directory (such as **C:\JavaCAPS511**), and double-click ***<non-eGate_upgrade_script>*.bat**. All the ESRs previously installed against the non-eGate product are removed. You are ready to install the non-eGate product version upgrade (see **"Installing Enterprise Designer ESRs and non-eGate Product Rollup Upgrades" on page 113**).

8.6 Installing Enterprise Designer ESRs and non-eGate Product Rollup Upgrades

This section describes how to install ESRs for Enterprise Designer components and non-eGate product rollup upgrades using the Update Center.

Before following the procedure below to install the ESR, you must have first uploaded the ESR to the Repository as described in **"Uploading Enterprise Designer and Logical Host ESRs From the Suite Installer" on page 110**.

Important: *You must install ESRs in build-date order and one at a time.*

8.6.1 Special Case for Downloading ZIP File

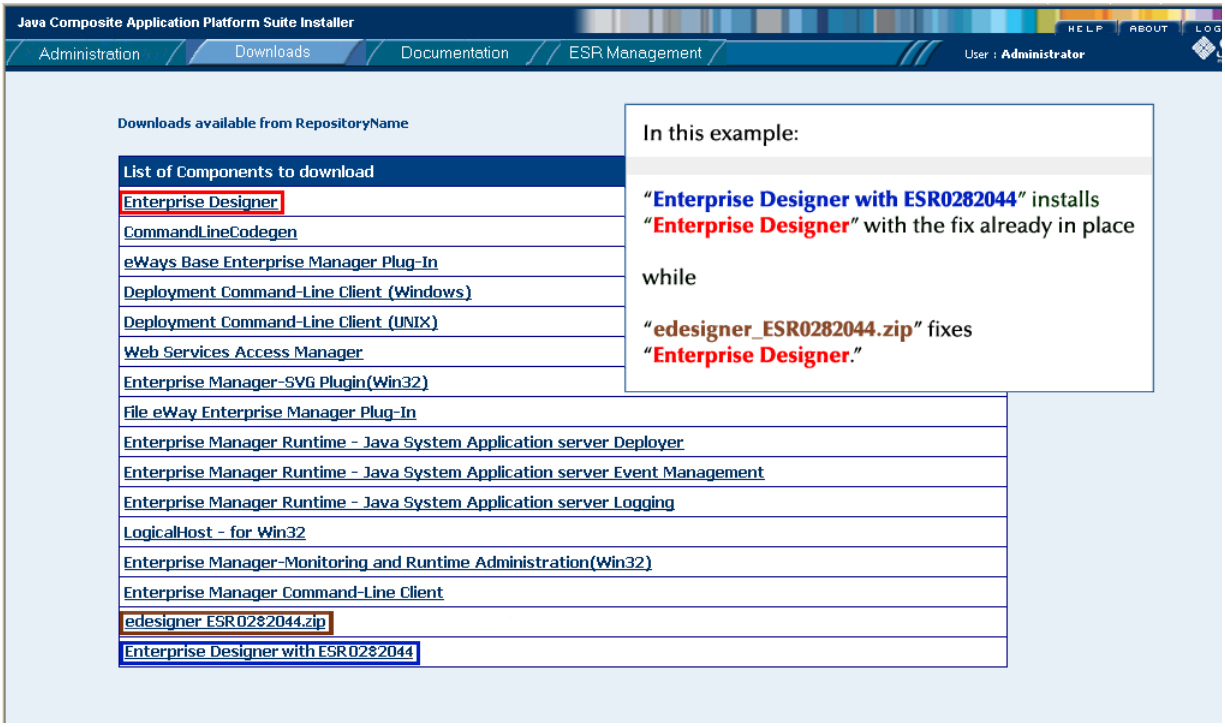
Some fixes need to be applied to the Enterprise Designer that was previously downloaded and they cannot be applied through the Update Center. These changes are handled by placing a ZIP file in the **Downloads** section of Enterprise Manager. You download and unzip the file into the same directory where you unzipped Enterprise Designer.

For some ESRs, two ZIP files are created, **edesigner_ESR0xxxxx.zip** and **edesigner_with_ESRxxxxx.zip**.

- **edesigner_ESR00xxxxx.zip** patches an existing Enterprise Designer installation.
- **edesigner_with_ESRxxxxx.zip** installs a new Enterprise Designer with all the fixes already applied. Note that this ZIP file appears as **Enterprise Designer with ESRxxxxx** in Enterprise Manager (see Figure 51).

You can chose either one of these ZIP files depending on what you are doing, patching an existing Enterprise Designer installation or installing a new Enterprise Designer.

Figure 51 Enterprise Manager with Downloads Tab Active



In this example, if you already have Enterprise Designer installed, you would select **edesigner_ESR0282044.zip**. However, if you have not yet installed Enterprise Designer, you would select **Enterprise Designer with ESR0282044** as it installs Enterprise Designer with the fix already in place. In our example procedures, we are going to download **Enterprise Designer with ESR0282044**.

To download Enterprise Designer ZIP files

1. With Enterprise Manager running, click the **Downloads** tab. The **products available to download from <*repository_name*>** window appears.
2. Click **Enterprise Designer with ESR0282044**.
3. Click **Open** after the **File Download** dialog box appears. The ZIP file is opened by an extraction program (such as WinZip).
4. Extract all the files to the client directory (such as **C:\JavaCAPS511**). The **\edesigner**). subdirectory is created when the file is unzipped.

Note: *If you downloaded **edesigner_ESR0282044.zip**, you would extract the files to the same directory where you installed Enterprise Designer. For example, if you extracted **edesigner.zip** to your C:\JavaCAPS511 directory, you would extract **edesigner_ESR0282044.zip** to your C:\JavaCAPS511 directory as well.*

8.6.2 Installing Non-eGate Product Rollup Upgrades

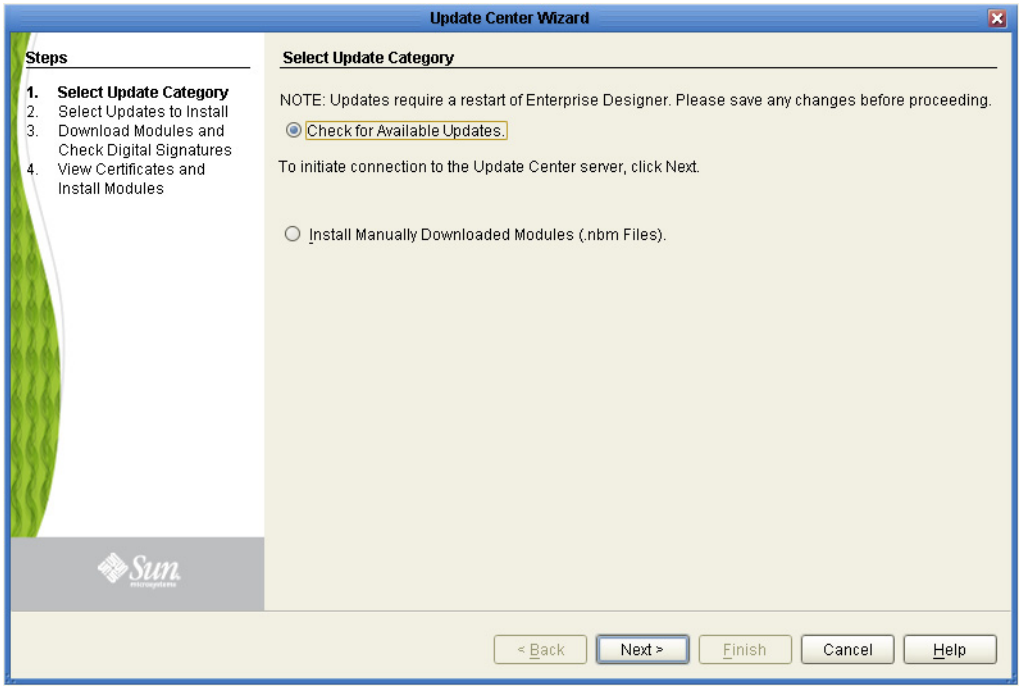
Non-eGate product rollup upgrades must be installed before Enterprise Designer ESRs are installed.

Note: *To successfully install a product rollup upgrade, the name of the product and version must match.*

To install all non-eGate product rollup upgrades

1. Start Enterprise Designer (see **"Starting Enterprise Designer After Initial Logon" on page 94**).
2. On the **Tools** menu, click **Update Center**. The **Update Center Wizard - Select Update Category** dialog box appears (see Figure 52).

Figure 52 Update Center Wizard - Select Update Category

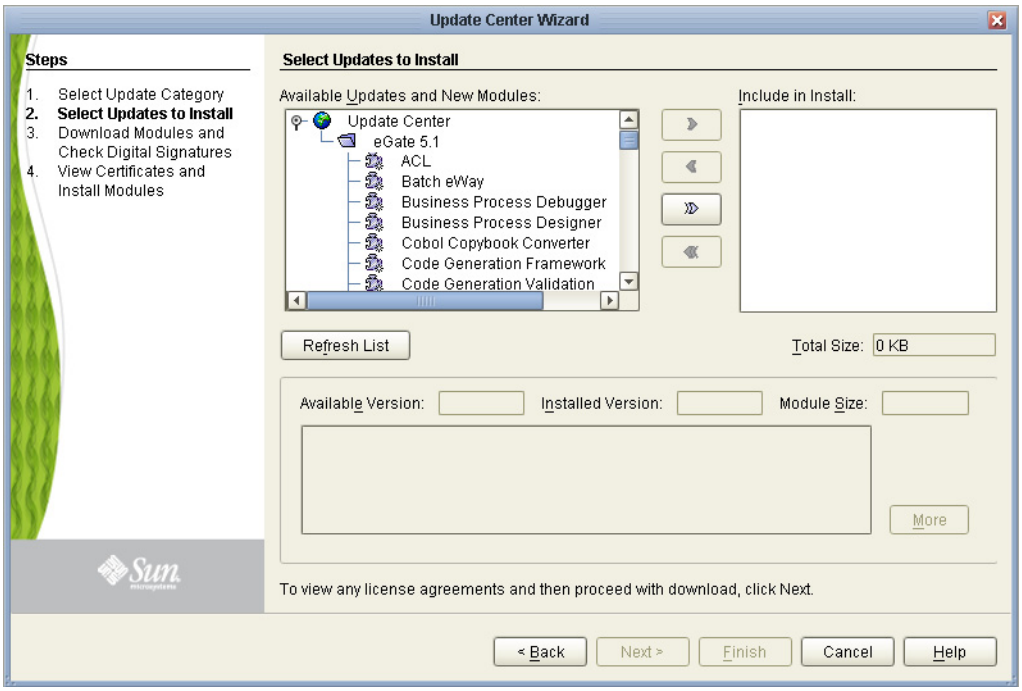


Important: *Do not apply any ESRs until the Update Center Wizard has completed this process, all non-ESR Enterprise Designer product modules have been installed, and you have restarted Enterprise Designer.*

3. Ensure that this option is selected:
   - **Check for Available updates**

   When ready, click **Next**. The **Update Center Wizard - Select Updates to Install** dialog box appears (see Figure 53). The available updates and modules are listed in the **Available Updates and New Modules** box.

Figure 53 Update Center Wizard - Select Updates to Install



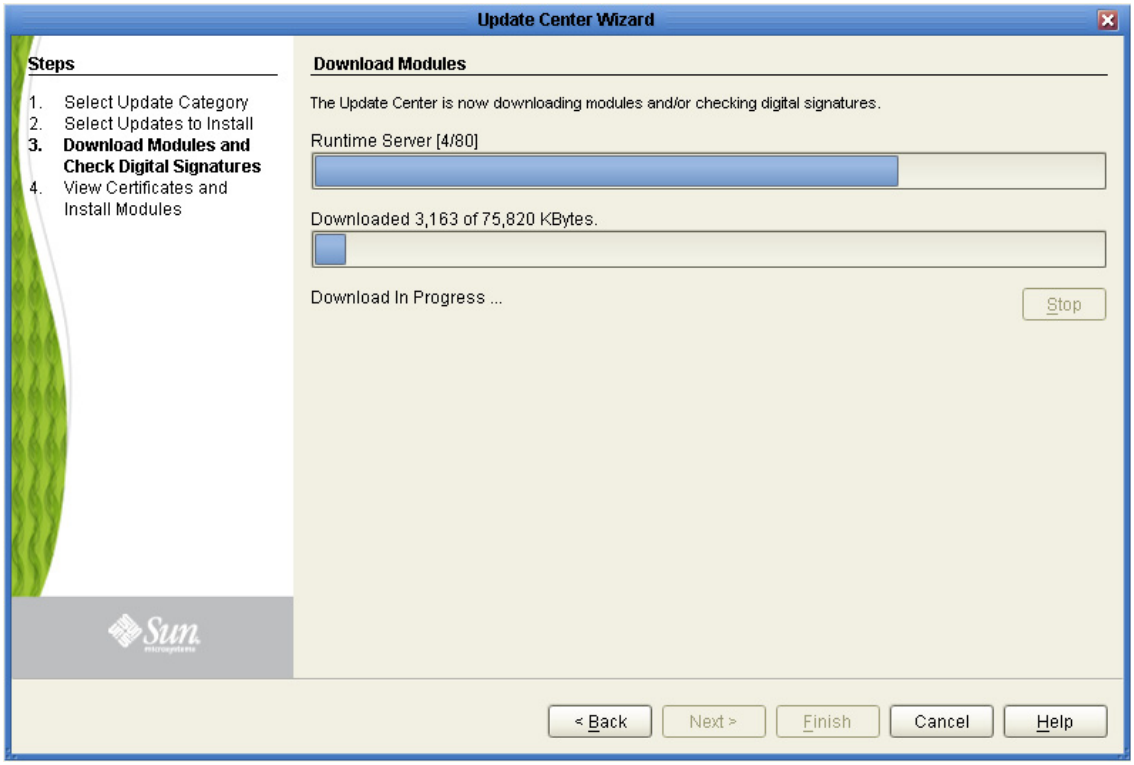
4 Move the updates and modules to the **Include in Install** box by doing one of the following:

- Click the double-right-arrow button to move all the listed items to the **Include in Install** box.
- Select an individual update or module by highlighting it and then clicking the single-right-arrow button to move the module. Repeat this procedure to move all the modules that you want to install.

5 Click **Next**. The **License Agreement** window appears.

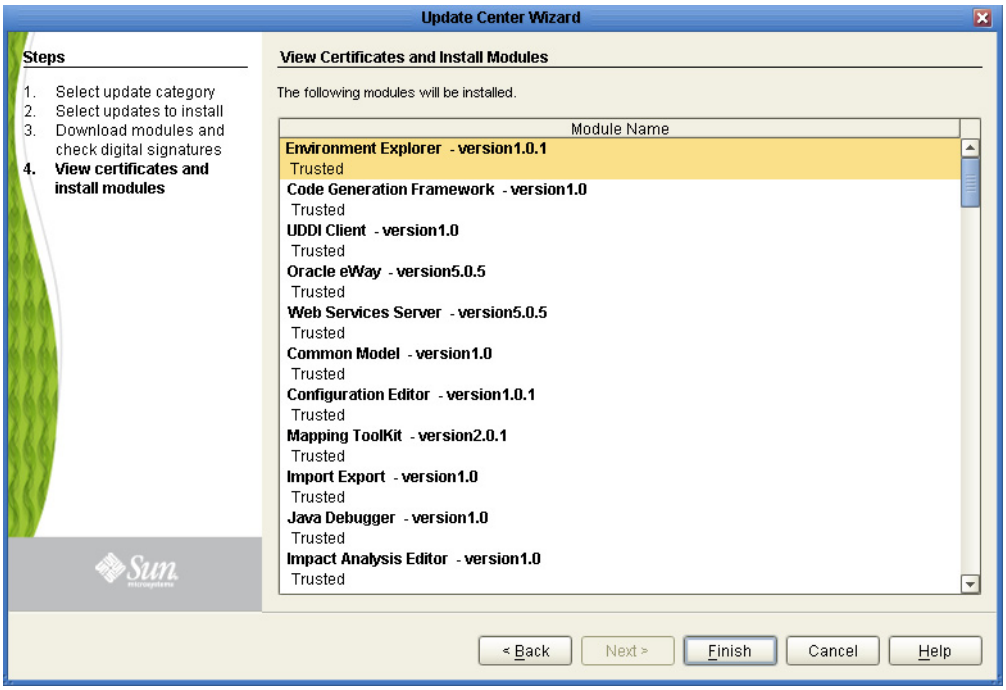
6 Click **Accept**. The **Update Center Wizard - Download Modules** dialog box appears (see Figure 54).

Figure 54 Update Center Wizard - Download Modules



7 Click **Next** after the progress bar reaches 100 percent and "Done" appears below the bar. The **Update Center Wizard - View Certificates and Install Modules** dialog box appears (see Figure 55). "Trusted" means that the file is a sanctioned Sun file and not a rogue file.

Figure 55 Update Center Wizard - View Certificates and Install Modules



8 Click **Finish**. The **Restart the IDE** dialog box appears.

9 Make sure that **Restart the IDE** is selected and click **OK**. After updating and restarting, the Enterprise Designer **Login** dialog box appears (see **Figure 43 on page 94**).

10 Enter your **Login ID** and **Password**, and then click **Login**. The Login ID is the same as the username. Enterprise Designer restarts.

You are now ready to install the ESR(s).

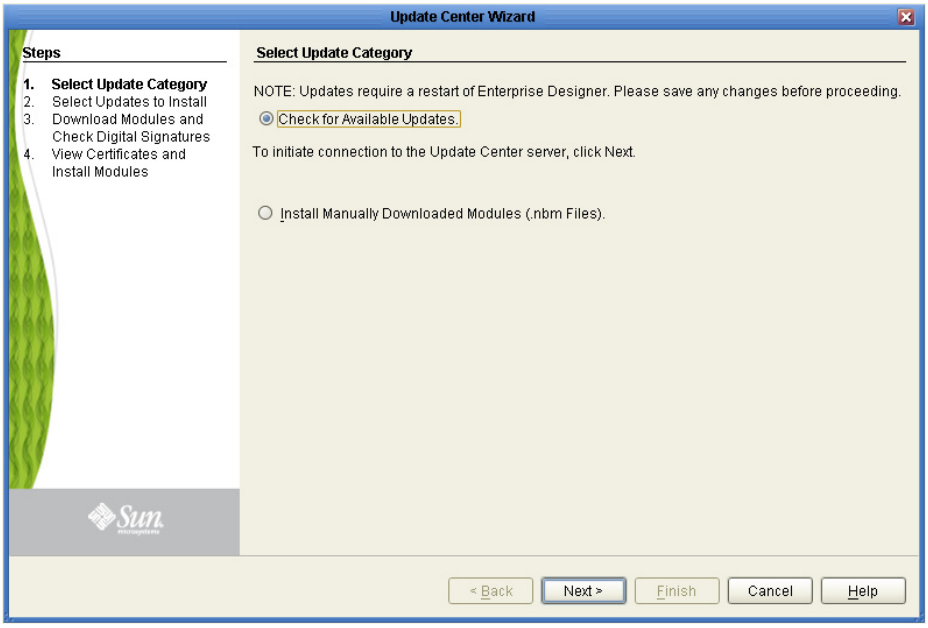
8.6.3 Installing Enterprise Designer ESRs

The following installation instructions assume that Enterprise Designer is running.

To install Enterprise Designer ESRs

1 On the **Tools** menu, click **Update Center**. The **Update Center Wizard - Select Update Category** dialog box appears (see Figure 56).

Figure 56 Update Center Wizard - Select Update Category

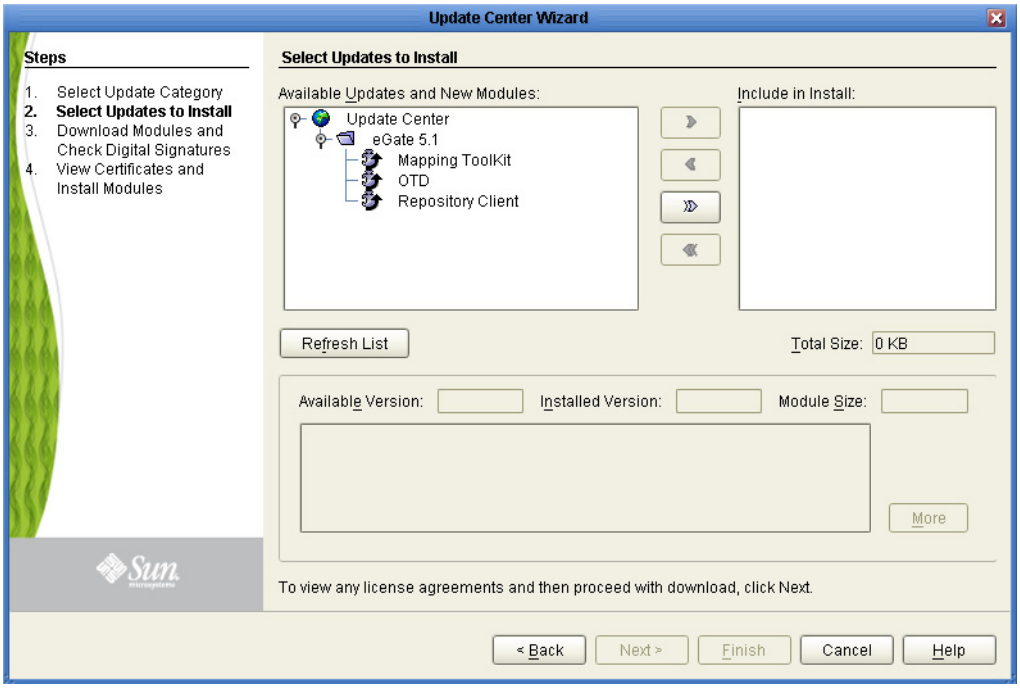


2 Ensure that this option is selected:

- **Check for Available updates**

When ready, click **Next**. The **Update Center Wizard - Select Updates to Install** dialog box appears (see Figure 53). The available updates and modules are listed in the **Available Updates and New Modules** box.

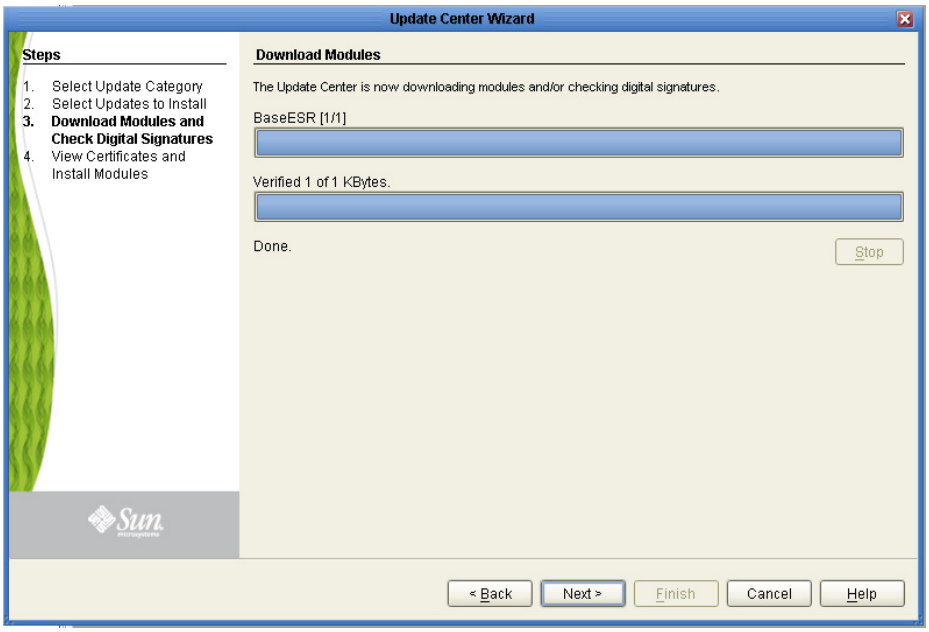
Figure 57 Update Center Wizard - Select Updates to Install (for ESR)



3 Move the updates and modules to the **Include in Install** box. Click the double-right-arrow button to move all the listed items to the **Include in Install** box.

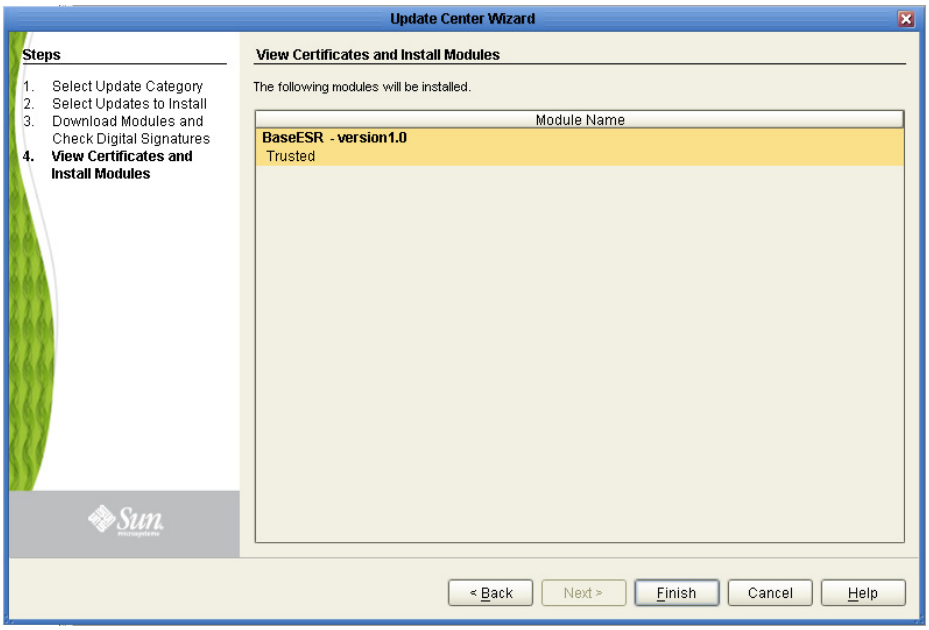
4 Click **Next**. The **Update Center Wizard - Download Modules** dialog box appears (see Figure 58).

Figure 58 Update Center Wizard - Download Modules



5 Click **Next** after the progress bar reaches 100 percent and "Done" appears below the bar. The **Update Center Wizard - View Certificates and Install Modules** dialog box appears (see Figure 59). "Trusted" means that the file is a sanctioned Sun file and not a rogue file.

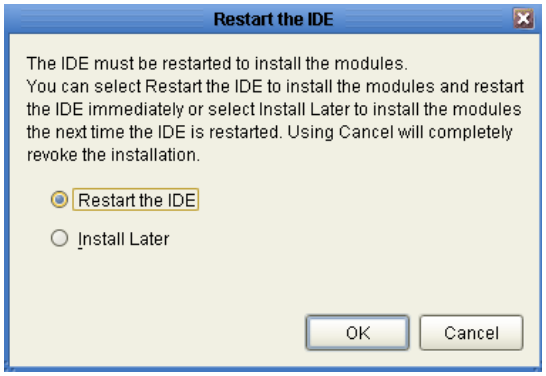
Figure 59 Update Center Wizard - View Certificates and Install Modules



6 Click **Finish**. The **Restart the IDE** dialog box appears.

7 Make sure that **Restart the IDE** is selected and click **OK**. The Enterprise Designer **Login** dialog box appears (see Figure 60).

Figure 60 Restart the IDE



8 Enter your **Password** and then click **Login**. Enterprise Designer restarts.

8.7 Downloading and Extracting Enterprise Designer and Logical Host ESR ZIP Files

Enterprise Designer ESRs are delivered as **edesigner_ESR0*nnnnnn*.zip** files and Logical Host ESRs are delivered as **logicalhost_ESR0*nnnnnn*.zip** files. This section describes the ZIP file extraction process.

Note: *All Enterprise Designer and Logical Host ESR ZIP files must be extracted before they can be installed.*

Important: *Composite Application Platform Suite does not have the capability to verify Enterprise Designer and Logical Host ESRs that you manually unzip. You must track these ESRs to verify if they were applied successfully. After unzipping them, make sure they unzip properly to the directory you selected.*

To download Enterprise Designer and Logical Host ESR ZIP files

1. Upload the ESR SAR file(s) as described in **"Uploading Enterprise Designer and Logical Host ESRs From the Suite Installer" on page 110**.
2. In the Enterprise Manager, click the **Downloads** tab.
3. Double-click the **edesigner_ESR0*nnnnnn*.zip** and/or **logicalhost_ESR0*nnnnnn*.zip** files and save the files locally.

To extract Enterprise Designer ESR ZIP files

1. Shut down Enterprise Designer.
2. Use WinZip (or another tool) to extract **edesigner_ESR0*nnnnnn*.zip** to the Java CAPS root directory (for example: **C:\JavaCAPS511**). This places the unzipped files in the directory where you installed Enterprise Designer.

Note: *Do not extract the ZIP file to the directory where you installed Enterprise Designer (for example: **C:\JavaCAPS511\edesigner**) as this creates an Enterprise Designer subdirectory (for example: **C:\JavaCAPS511\edesigner\edesigner**) and places the unzipped files in this location.*

To extract Logical Host ESR ZIP files

1. Shut down the Logical Host.
2. Use WinZip (or another tool) to extract **logicalhost_ESR0*nnnnnn*.zip** to the CAPS root directory (for example: **C:\JavaCAPS511**). This places the unzipped files in the directory where you installed the Logical Host.

Note: *Do not extract the ZIP file to the directory where you installed the Logical Host (for example: **C:\JavaCAPS511\logicalhost**) as this creates a Logical Host subdirectory (for example: **C:\JavaCAPS511\logicalhost\logicalhost**) and places the unzipped files in this location.*

8.8 Downloading Logical Host TAR Files

When installing Logical Host ESRs on non-Windows platforms, you need both the ZIP file (see **"Downloading and Extracting Enterprise Designer and Logical Host ESR ZIP Files" on page 121**) and the TAR file.

To download Logical Host TAR files

1. Change to the directory where you installed the Logical Host (for example: **/home/JavaCAPS511/logicalhost**).
2. Download the TAR file to the Logical Host directory (for example: **/home/JavaCAPS511/logicalhost**).
3. Shut down the Logical Host if it is running.
4. Type: **tar -xvf <*tar-file-name*>.tar** to download and decompress the file.
5. Restart the Logical Host if it was running before installing the ESR.

8.9 Installing Logical Host ESRs

Logical Host ESRs are delivered as ZIP files and they are installed manually.

Although the ZIP file that bundles all the components for the Logical Host ESR (**"Extracting ESR Distribution ZIP Files" on page 109**) has seven digits and is zero padded (**ESR0*nnnnnn*-dist.zip**), the ESR number for the Logical Host ZIP file you must apply to fix a known Logical Host issue is non-zero padded (**ESR*nnnnnn*.zip**).

Important: *You must install ESRs in build-date order.*

To install Logical Host ESRs

1. Shut down the Domain (which stops the IS and JMS).
2. Open a command prompt (or Terminal window in UNIX) and copy the ESR ZIP file (**ESR*nnnnnn*.zip**) to the ***logicalhost_HOME*/ESRs** directory. For example:

   copy ESR*nnnnnn*.zip *logicalhost_HOME*\ESRs (for Windows), and then press **Enter**.

   ${*logicalhost_HOME*}/ESRs (for UNIX), and then press **Enter**.

   where:

   logicalhost_HOME is the directory where you installed the Logical Host.

Important: *Although the ZIP file that bundles all the components for the ESR (**ESR<number>Readme.txt**, **ESR<number>Filelist.txt**, and **ESR<number>.zip** file) has seven digits, the ESR ZIP file you are going to install only contains five digits (**ESRnnnnnn.zip**).*

3. To install the ESR, at a command prompt (or Terminal window in UNIX) in the ***logicalhost_HOME*/ESRs** directory type:

   ESRInstall.bat <*number*> (for Windows), and then press **Enter**.

   or

   sh ESRInstall.sh <*number*> (for UNIX), and then press **Enter**.

   where:

<*number*> is the patch version number of the ESR you want to apply (for example: **333333**).

The ESR is applied (see the example).

```
C:\JavaCAPS511\logicalhost\ESRs>ESRInstall 333333
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller doInstall
INFO: Going to install ESR : ESR1
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller loadEsrList
INFO: Going to read InstalledESR.txt
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller backupFiles
INFO: Backing up file :
C:/JavaCAPS511/logicalhost/ESRs//../Version.class
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller
writeListToManifestFile
INFO: Going to update Manifest
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller
writeListToManifestFile
INFO: Successfully updated Manifest
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller backupFiles
INFO: Backed up files successfully.
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller
writeEsrListToFile
INFO: Going to update InstalledESR.txt
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller
writeEsrListToFile
INFO: Successfully updated InstalledESR.txt
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller extractFiles
INFO: Going to extract files from ESR1.zip
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller extractFiles
INFO: Extracting file:
C:\JavaCAPS511\logicalhost\ESRs\..\Version.class
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller extractFiles
INFO: Extracted files successfully.
Jun 5, 2006 12:34:44 PM com.stc.rts.esr.EsrInstaller doInstall
INFO: Successfully installed ESR.

C:\JavaCAPS511\logicalhost\ESRs>
```

4 Restart the Domain to restart the Integration Server.

8.10 Installing Repository ESRs

Repository ESRs are delivered as ZIP files and they are installed manually.

Although the ZIP file that bundles all the components for the Repository ESR **"Extracting ESR Distribution ZIP Files" on page 109**() has seven digits and is zero padded (**ESR0*nnnnnn*-dist.zip**), the ESR number for the Repository ZIP file you must apply to fix a known Repository issue is non-zero padded (**ESR*nnnnnn*.zip**).

Important: *You must install ESRs in build-date order.*

To install Repository ESRs

1 Shut down the Repository.

2 Copy the ESR ZIP file (**ESR*nnnnnn*.zip**) to the **<*JavaCAPS511*>/ESRs** directory.

Important: *Although the ZIP file that bundles all the components for the ESR (**ESR<number>Readme.txt**, **ESR<number>Filelist.txt**, and **ESR<number>.zip** file) has seven digits, the ESR ZIP file you are going to install only contains five digits (**ESRnnnnnn.zip**).*

3 Open a command prompt (or Terminal window in UNIX) and type:

ESRInstall <*number*> (for Windows)
or
sh ESRInstall.sh <*number*> (for UNIX)

where:

<*number*> is the number of the ESR you want to apply (for example: **333333**).

4 Press **Enter**.

The ESR is applied (see the example).

```
C:\JavaCAPS511\ESRs>ESRInstall 333333
Going to install ESR : ESR333333
Going to read InstalledESR.txt
Successfully read InstalledESR.txt
Backing up file :
C:/JavaCAPS511/repository/../repository/data/files/InstallManager/
repositoryapis/OTDFrameworkManager/SBYNOTDFRAMEWORK110/com.stc.otd
.frameworkapi.jar
Backing up file :
C:/JavaCAPS511/repository/../repository/data/files/InstallManager/
repositoryapis/UD1Manager/SBYNUD1110/com.stc.otd.ud1impl.jar
Going to update Manifest
Successfully updated Manifest
Backed up files successfully.
Going to update InstalledESR.txt
Successfully updated InstalledESR.txt
Going to extract files from ESR333333.zip
WARNING: trying to extract a directory : repository/
WARNING: trying to extract a directory : repository/data/
WARNING: trying to extract a directory : repository/data/files/
WARNING: trying to extract a directory :
repository/data/files/InstallManager/
WARNING: trying to extract a directory :
repository/data/files/InstallManager/repositoryapis/
WARNING: trying to extract a directory :
repository/data/files/InstallManager/repositoryapis/OTDFrameworkMa
nager/
WARNING: trying to extract a directory :
repository/data/files/InstallManager/repositoryapis/OTDFrameworkMa
nager/SBYNOTDFRAMEWORK110/
WARNING: trying to extract a directory :
repository/data/files/InstallManager/repositoryapis/UD1Manager/
WARNING: trying to extract a directory :
repository/data/files/InstallManager/repositoryapis/UD1Manager/SBY
NUD1110/
Extracting file:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\OTDFrameworkManager\SBYNOTDFRAMEWORK110\com.stc.otd
.frameworkapi.jar
Extracting file:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\UD1Manager\SBYNUD1110\com.stc.otd.ud1impl.jar
Extracted files successfully.
```

```
Successfully installed ESR.
C:\JavaCAPS511\ESRs>
```

5 Restart the Repository.

8.11 Installing Enterprise Manager ESRs

With Java CAPS, the Enterprise Manager is separated from the Repository. The installation of ESRs for Enterprise Manager is also detached and kept as a separate process.

To install Enterprise Manager ESRs manually for verification

1 Shutdown the Enterprise Manager Server.

2 Copy the ESR ZIP file to the **<*JavaCAPS511*>\eManager\ESRs** directory.

3 Open a command prompt (or Terminal window in UNIX) and type:

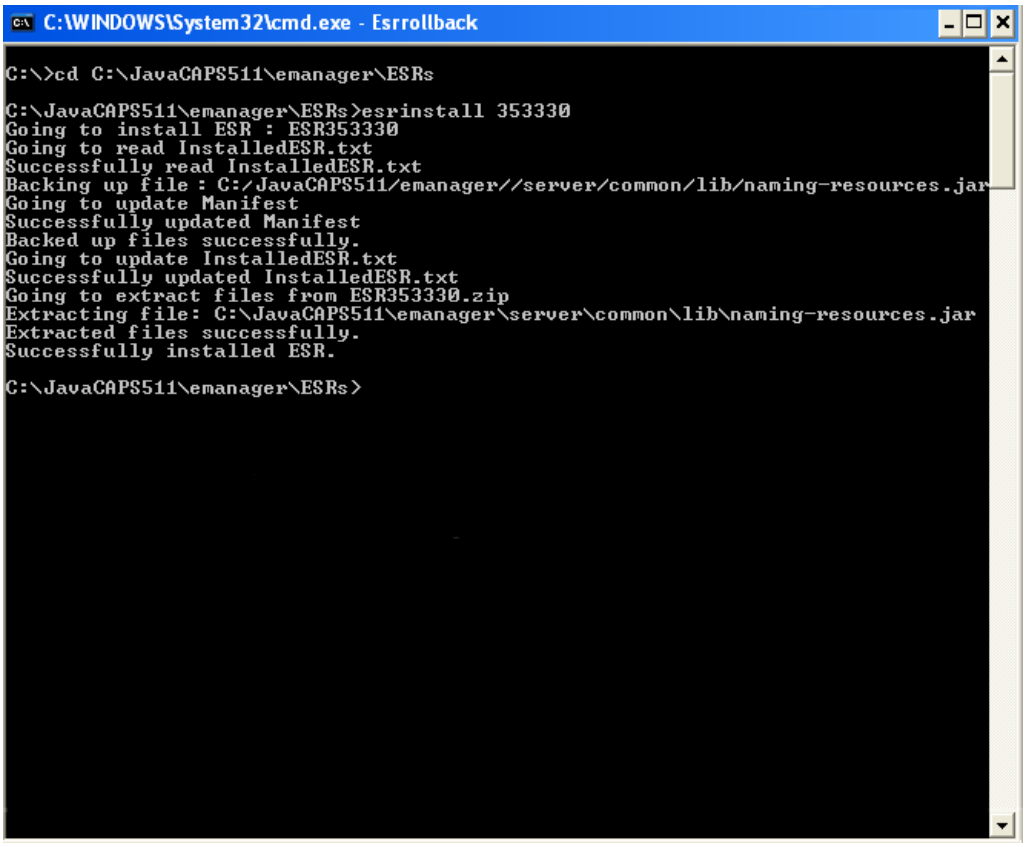
ESRInstall.bat <*number*> (for Windows)
or
sh ESRInstall.sh <*number*> (for UNIX)

where:

<*number*> is the number of the ESR you want to apply (for example: **353330**).

4 Press **Enter** (see Figure 61).

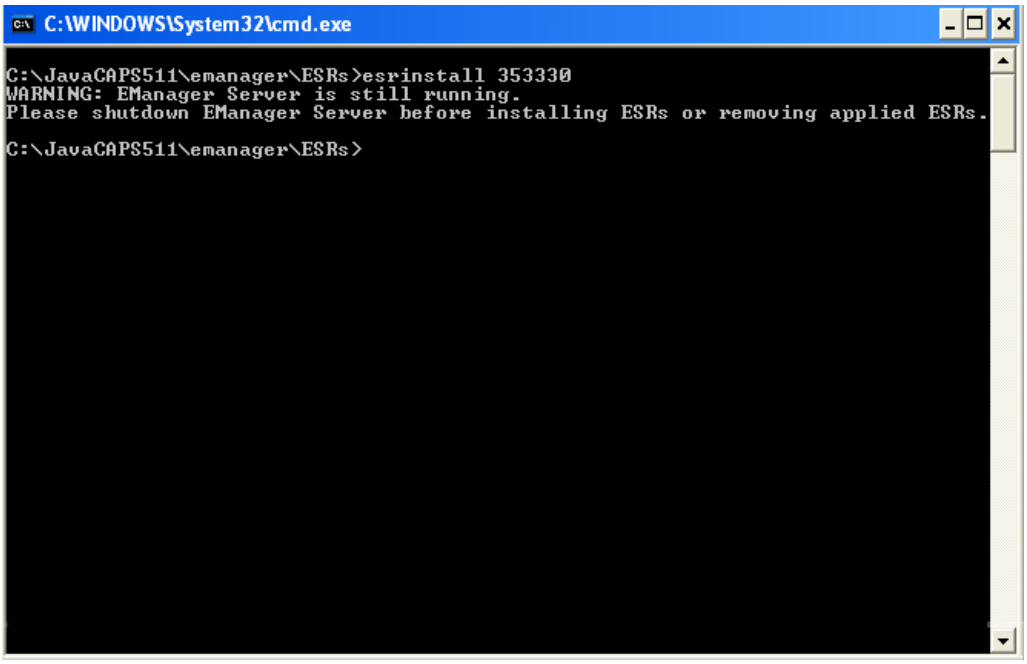
Figure 61 Enterprise Manager ESR Install



The ESR files are extracted in the target directory and the ESR is installed. Also, a backup of the ZIP file (for example: **ESR353330backup.zip**) is created in **<*JavaCAPS511*>\eManager\ESRs\backup**.

Note: *If the Enterprise Manager server is running, an error message appears (see Figure 62).*

Figure 62 Enterprise Manager Running Error Message



8.12 Verifying ESR Installation

There are four entirely different processes to verify successful ESR installation.

8.12.1 Enterprise Designer ESR Verification

To ensure Enterprise Designer ESRs are applied

1. Start Enterprise Designer.
2. On the **Tools** menu, click **Update Center**. The **Update Center Wizard - Select Update Category** dialog box appears.
3. Click **Next**. The **Update Center Wizard - Select Modules to Install** dialog box appears.
4. Click **Applied ESR**. Enterprise Designer ESRs that have been successfully applied appear in the list.

8.12.2 Repository ESR Verification

The very first time you install an ESR pertaining to the Repository, an **InstalledESR.txt** file is created in the ESR folder. Subsequent to that every time you install an ESR associated to the above components, the name of the ESR is appended to the existing list of installed ESRs. If you perform a Rollback, the name of the recently added ESR is erased from the list of ESRs.

To ensure Repository ESRs are applied

- Navigate to the directory where you store ESRs (for example: **<*JavaCAPS511*>/ESRs**) and open the file **InstalledESR.txt** in a text editor.

  You will see a list of your applied ESRs (**ESR*nnnnnn***).

8.12.3 Enterprise Manager ESR Verification

The very first time you install an ESR pertaining to Enterprise Manager, an **InstalledESR.txt** file is created in the ESR folder. Subsequent to that every time you install an ESR associated to the above components, the name of the ESR is appended to the existing list of installed ESRs. If you perform a Rollback, the name of the recently added ESR is erased from the list of ESRs.

To ensure Enterprise Manager ESRs are applied

- Navigate to the directory where you store ESRs (for example: **<*JavaCAPS511*>/emanager/ESRs**) and open the file **InstalledESR.txt** in a text editor.

  You will see a list of your applied ESRs (**ESR*nnnnnn***).

8.13 Rolling Back ESRs

The following sections describe how to roll back ESRs:

8.13.1 Rolling Back Enterprise Designer ESRs

The Enterprise Designer tracks installation data, and it is this data that later allows you to roll back an ESR. This section describes how to roll back applied Enterprise Designer ESRs.

Note: *Some ESRs cannot be rolled back. See the specific **Readme.txt** file for details.*

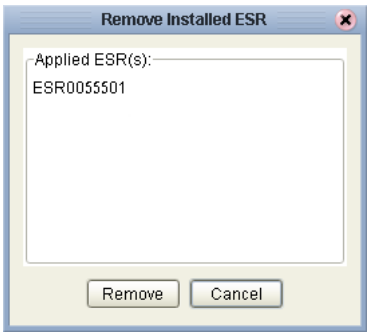
To roll back applied Enterprise Designer ESRs

1. On the **Tools** menu of Enterprise Designer, click **Update Center**. The **Update Center Wizard - Select location of modules** dialog box appears.
2. Click **Next**. The **Update Center Wizard - Select Update Category** dialog box appears.

3 Click **Applied ESR** (see Figure 53 on page 116). The **Remove Installed ESR** dialog box appears; it shows which ESRs have been applied (see Figure 63).

Note: *Click **Cancel** if you do not want to roll back any ESRs.*

Figure 63 Remove Installed ESR Dialog Box



4 Select the ESRs you want to roll back and then click **Remove**. The **Applied ESR(s)** dialog box appears; it lists the ESRs you have marked for removal.

5 Click **OK** to roll back the ESRs.

6 The Enterprise Designer **Login** dialog box appears (see Figure 43 on page 94). Enter your **Login ID** and **Password**, and then click **Login**. The Login ID is the same as the username. Enterprise Designer restarts.

8.13.2 Rolling Back Logical Host ESRs

The following instructions describe how to roll back applied Logical Host ESRs. The commands (Windows, UNIX) in this procedure roll back the last applied ESR. Each command can be applied multiple times to "peel off" ESRs one by one.

To roll back applied Logical Host ESRs

1 Open a command prompt (or Terminal window in UNIX) and navigate to the ESRs directory (for example: **<*HOME*>/logicalhost/ESRs**).

logicalhost is your Logical Host directory,

and

HOME is the root directory where you installed the Composite Application Platform Suite.

2 To roll back the last applied ESR, type:

ESRRollback.bat (for Windows), and then press **Enter**.

or

${logicalhost_HOME}/ESRs/ESRRollback.sh (for UNIX), and then press **Enter**.

Note: *No ESR number is required as ESRs must be rolled back one at a time in reverse order of installation (see the example).*

```
C:\JavaCAPS511\logicalhost\ESRs>ESRRollback
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller loadEsrList
INFO: Going to read InstalledESR.txt
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller loadEsrList
INFO: Successfully read InstalledESR.txt
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller doRollback
INFO: Going to rollback ESR: ESR1
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
processManifestFromZipFile
INFO: Going to extract files from Backup\ESR1Backup.zip
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
loadManifestList
INFO: Going to read Manifest
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
loadManifestList
INFO: Successfully read Manifest
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
processManifestFromZipFile
INFO: Removing file:
C:\JavaCAPS511\logicalhost\ESRs\..\Version.class
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
processManifestFromZipFile
INFO: Removed files successfully.
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller extractFiles
INFO: Going to extract files from Backup\ESR1Backup.zip
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller extractFiles
INFO: Extracted files successfully.
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
writeEsrListToFile
INFO: Going to update InstalledESR.txt
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller
writeEsrListToFile
INFO: Successfully updated InstalledESR.txt
Jun 5, 2006 2:01:14 PM com.stc.rts.esr.EsrInstaller doRollback
INFO: Successfully completed rollback

C:\JavaCAPS511\logicalhost\ESRs>
```

3 Restart the Domain to restart the Integration Server.

8.13.3 Rolling Back Repository ESRs

The following instructions describe how to roll back applied Repository ESRs.

Note: *Rolling back ESRs from the command line uses the same procedure.*

To roll back applied Repository ESRs

1 Open a command prompt (or Terminal window in UNIX) and navigate to the ESRs directory (for example: **<*JavaCAPS511*>/ESRs**).

2 To roll back the last applied ESR, run **ESRRollback**. No ESR number is required as ESRs must be rolled back one at a time in reverse order of installation (see the example).

```
C:\JavaCAPS511\ESRs>ESRrollback
Going to read InstalledESR.txt
Successfully read InstalledESR.txt
Going to rollback ESR: ESR333333
Going to extract files from Backup\ESR333333Backup.zip
Going to read Manifest
```

```
Successfully read Manifest
WARNING: Found a directory:
C:\JavaCAPS151\repository\..\repository
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\OTDFrameworkManager
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\OTDFrameworkManager\SBYNOTDFRAMEWORK110
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\UD1Manager
WARNING: Found a directory:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\UD1Manager\SBYNUD1110
Removing file:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\OTDFrameworkManager\SBYNOTDFRAMEWORK110\com.stc.otd
.frameworkapi.jar

Removing file:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\UD1Manager\SBYNUD1110\com.stc.otd.ud1impl.jar
Removed files successfully.
Going to extract files from Backup\ESR333333Backup.zip
Extracting file:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\OTDFrameworkManager\SBYNOTDFRAMEWORK110\com.stc.otd
.frameworkapi.jar
Extracting file:
C:\JavaCAPS511\repository\..\repository\data\files\InstallManager\
repositoryapis\UD1Manager\SBYNUD1110\com.stc.otd.ud1impl.jar
Extracted files successfully.
Going to update InstalledESR.txt
Successfully updated InstalledESR.txt
Successfully completed rollback
C:\JavaCAPS511\ESRs>
```

3 Restart the Repository and connect to it using Enterprise Designer.

8.13.4 Rolling Back Enterprise Manager ESRs

The following instructions describe how to roll back applied Enterprise Manager ESRs.

To roll back applied Enterprise Manager ESRs

1 Open a command prompt (or Terminal window in UNIX) and navigate to the ESRs directory (for example: **<*JavaCAPS511*>/emanager/ESRs**).

2 To roll back the last applied ESR, type:

ESRInstall.bat <*number*> (for Windows)
or
sh ESRInstall.sh <*number*> (for UNIX)

where:

<*number*> is the number of the ESR you want to apply (for example: **353330**).

No ESR number is required as ESRs must be rolled back one at a time in reverse order of installation.

This command removes the recently created ZIP file from the backup folder. It also erases the latest file name from the **installedESR.txt** file.

Chapter 9

Upgrading to 5.1.1

Upgrading from Java CAPS 5.1.0 to 5.1.1 is an in-place upgrade while upgrading from ICAN 5.0.5 or earlier requires installing the Java CAPS 5.1.1 Repository in a new location and then exporting your Projects and Environments from ICAN and importing them into 5.1.1.

Note: *Partial upgrades are not supported.*

The following sections describe the necessary steps to successfully upgrade to version 5.1.1. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

9.1 Overview

For release 5.1.1 upgrading from 5.1.0 is in-place (except for Enterprise Designer), meaning that you need to install a 5.1.1 Repository, Enterprise Manager, UDDI Server, and Logical Host onto the 5.1.0 base directory.

When upgrading from to Java CAPS 5.1.1, you must do the following:

- Identify the components and products installed in Java CAPS 5.1.0.
- Install the 5.1.1 Repository on top of the 5.1.0 Repository.
- Upload the product SAR files.
- Delete the 5.1.0 Enterprise Designer and then install the 5.1.1 Enterprise Designer from the upgraded 5.1.1 Repository.
- Validate Project and Environment elements.
- Validate that all your 5.1.0 Projects can be rebuilt in your 5.1.1 setup.

- Wind down your 5.1.0 Runtime.
- Download and install the Logical Host from the upgraded 5.1.1 Repository.
- Download and install the Enterprise Manager from the upgraded 5.1.1 Repository.
- Install the plug-ins using the 5.1.1 Enterprise Manager.
- Deploy your applications.

If you are upgrading from ICAN 5.0.5 or earlier, you must install the Java CAPS 5.1.1 Repository to a new directory and then import ICAN Projects and Environments into 5.1.1 (see **"Upgrading ICAN to 5.1.1 (if necessary)" on page 139**), you are migrating from version 5.0.0 to 5.0.1 (see **"Migrating Projects from 5.0.0 to 5.0.1 (if necessary)" on page 151**) and/or upgrading from version 5.0.1 to 5.0.2 through 5.0.5 (see **"Upgrading the Repository from 5.0.1 to 5.0.2 or Higher (if necessary)" on page 153**).

9.2 Upgrading from 5.1.0 to 5.1.1

The process to upgrade from version 5.1.0 to version 5.1.1 involves a number of steps. This section provides instructions on how to successfully complete an in-place upgrade to 5.1.0.

Important: *To successfully upgrade IBM AIX from 5.1.0 to 5.1.1, you must set your configuration as stated in* **"IBM AIX Requirements for Successful Upgrade from 5.1.0 to 5.1.1" on page 139** *before attempting to perform the upgrade.*

Note: *You must follow the upgrade steps in the correct order as described below.*

To upgrade from 5.1.0 to 5.1.1

1. Before beginning the upgrade:
   A. Identify all the components/products you installed in the Java CAPS 5.1.0 setup.
   B. Identify all the Project statuses, such as:
      - Build successful
      - Deployment successful
      - Run time successful
   C. Ensure that you have the Java CAPS 5.1.1 version of the 5.1.0 components/products available for the upgrade.

Important: *You must upgrade all the components/products from 5.1.0 to 5.1.1;* partial *upgrades are not supported.*

2. Install the 5.1.1 Repository on the same exact location where you installed the 5.1.0 Repository (this is called an in-line upgrade); for example, **C:\JavaCAPS510**.
3. After successfully installing the Repository, start the Repository server.

   You are now ready to upload the product SAR files.

4 Upload the product SAR files in the following order (in-line upgrade).
   - **eGate.sar**
   - **eInsight.sar** (if it exists in 5.1.0)
   - Other main product SAR files, such as eVision, eTL, eBAM, and eView (if they exist in 5.1.0)
   - Logical Host SAR file(s)
   - Enterprise Manager SAR file
   - eWay SAR files (all of the eWays that existed in 5.1.0)
5 Delete the 5.1.0 Enterprise Designer directory.
6 Download the 5.1.1 Enterprise Designer from the upgraded 5.1.1 Repository (see **"Installation of Enterprise Designer" on page 88** for the complete installation process of Enterprise Designer).
7 Unzip the Enterprise Designer files.
8 Navigate to ***<C:\JavaCAPS510>*\edesigner\bin** and double-click **runed.bat** to start Enterprise Designer.
9 With Enterprise Designer open, on the **Tools** menu, click **Update Center**.
10 When the Update Center Wizard opens, download all the components (see **"Starting Enterprise Designer and Installing Required eGate Modules" on page 90** for detailed instructions).
11 Restart Enterprise Designer and log in.
12 To validate Project and Environment elements, open some of the Collaborations, Connectivity Map Editors, Environments, etc. to ensure that the editors open properly (see the *Sun SeeBeyond eGate Integrator User's Guide* for details on how to perform these functions).
13 Validate that all the Projects you identified as build successful in your 5.1.0 setup can be rebuilt in your upgraded 5.1.1 setup (see the *Sun SeeBeyond eGate Integrator User's Guide* for details on how to build a Project).

Important: *Do not Deploy at this time—just build.*

14 To wind down the 5.1.0 Runtime:
   A Ensure that your 5.1.0 Enterprise Manager and Logical Host servers are running.
   B Log in to Enterprise Manager.
   C Undeploy 5.1.0 applications from the 5.1.0 Logical Host.
   D Shut down the Logical Host.
   E Log out from Enterprise Manager.
   F Shut down Enterprise Manager.

Note: *Upgrading your Logical Host and Enterprise Manager in place provides for maintaining Logical Host and Enterprise Manager configurations; installing them new does not maintain their configurations.*

15 Install the Logical Host using the Suite Installer (see **"Logical Host Installation on Windows" on page 97** or **"Logical Host Installation on All non-Windows Platforms" on page 99** for the appropriate processes).

A Download the 5.1.1 Logical Host from the upgraded 5.1.1 Repository.

B Unzip and extract the Logical Host files into the same directory where the 5.1.0 Logical Host was installed (if upgrading in place, otherwise unzip the files in new directory), for example: **C:\JavaCAPS510**.

C After successfully installing the Logical Host, start the Domain created in 5.1.0.

16 Install Enterprise Manager using the Suite Installer. With the **Downloads** tab active on the Suite Installer, select the 5.1.1 Enterprise Manager that you intend to download and install from the upgraded Repository from the **List of Components to download**.

A For Windows systems, follow the directions in **"To install Enterprise Manager on Windows system" on page 72**, which includes the following bullets:

- Download and extract the 5.1.1 ZIP file (**emanager-Win32.zip**) to the 5.1.0 directory.
- Navigate to the directory where you expanded the Enterprise Manager files (for example: **C:\JavaCAPS510**).
- Double-click **install.bat** and then use the installation wizard to complete the installation.

Note: *The install script upgrades the 5.1.0 Enterprise Manager to 5.1.1 Enterprise Manager properly if installed in an existing directory.*

B For UNIX and Linux systems, follow the directions in **"To install Enterprise Manager on UNIX system" on page 76**, which includes the following bullets:

- Download the TAR.GZ file (**emanager-Solaris_SPARC.tar.gz**). See Table 12 for a listing of UNIX and Linux Enterprise Manager SAR files.
- Open a command prompt on the target UNIX or Linux system.
- Change directories to your base directory and then unzip and expand the files.
- Enter **sh install.sh** to complete the installation.

Note: *The install script upgrades the 5.1.0 Enterprise Manager to 5.1.1 Enterprise Manager properly if installed in an existing directory.*

17 Start the Enterprise Manager server.

A On Windows systems, navigate to the directory where you installed Enterprise Manager (for example: **C:\JavaCAPS510\emanager**), and double-click **startserver.bat**.

B On UNIX and Linux systems, navigate to the directory where you installed Enterprise Manager (for example: **/home/username/JavaCAPS510/emanager/**), type **startserver.sh** and then press **Enter**.

18 Open a Web Browser (Internet Explorer).

A In the **Address** line, type **http://<*hostname*>:<*port_number*>**

where:

hostname is the TCP/IP host name of the server where you installed Enterprise Manager—not the name of Enterprise Manager itself.

port_number is the port number that you specified during the installation of Enterprise Manager.

Note: *The host name must be valid.*

B Press **Enter**. The **Enterprise Manager Security Gateway** window appears (see Figure 29).

C Enter your **User ID** and **Password** (which are case sensitive) and then click **Login**. See the **Readme.txt** file for the default username and password.

19 Ensure that the previously registered Logical Host shows up correctly (if upgraded in place).

20 Using Enterprise Manager download all the upgraded Enterprise Manager plug-ins from the Repository.

A From the **Explorer** pane, click the **Configuration** icon (see Figure 31).

The Web Applications Manager tab appears in the right pane.

B Click the **Web Applications Manager** tab. The Auto-Install from Repository tab appears (see Figure 32).

C Click the **Auto-Install from Repository** tab. The Specify Repository Connection Properties dialog box appears (see Figure 33).

D On the Specify Repository Connection Properties dialog box, enter the following information:

- **Repository URL**
  For example:
  http://<*computer_name*>:<*port_number*>
  where:
  <*computer_name*> is the name of the computer where the Repository is installed.
  <*port_number*> is the port number the Repository uses.
- **Username**
  This is your Java CAPS administrator username.
- **Password**
  This is your Java CAPS administrator password.

When ready, click **Connect** (to connect to the Repository). The Specify Repository Connection Properties dialog box expands to include the available eWay plug-ins (see Figure 34).

E Select the application plug-ins you want to install and click **Install**. The results are listed at the bottom of the Specify Repository Connection Properties dialog box (see Figure 35).

21 Deploy the applications you built in **step 13**.

IBM AIX Requirements for Successful Upgrade from 5.1.0 to 5.1.1

To successfully upgrade IBM AIX from Java CAPS version 5.1.0 to 5.1.1, you must complete the following steps before performing the upgrade steps listed in **"To upgrade from 5.1.0 to 5.1.1" on page 135**:

1 If your 5.1.0 Repository is running, stop it, and then run the following commands to set the IBM AIX:

```
export AIXTHREAD_SCOPE=S
export AIXTHREAD_MUTEX_DEBUG=OFF
export AIXTHERAD_COND_DEBUG=OFF
export AIXTHREAD_RWLOCK_DEBUG=OFF
export SPINLOOPTIME=500

ulimit -d unlimited
ulimit -m unlimited
ulimit -n unlimited
```

2 After running the commands, start your 5.1.0 Repository, and in the same command shell complete the 5.1.1 upgrade.

For additional IBM AIX information, see:

http://publib.boulder.ibm.com/infocenter/pseries/v5r3/index.jsp?topic=/com.ibm.aix.doc/aixbman/prftungd/java4.htm

9.3 Upgrading ICAN to 5.1.1 (if necessary)

You must perform all of the following steps to upgrade previous versions of ICAN to Java CAPS version 5.1.1.

Note: *If necessary use the following process to upgrade 5.0.2 or higher versions of ICAN to version 5.0.5.*

9.3.1 Installing the 5.1.1 Repository

Before upgrading your 5.0.5 Projects to 5.1.1, you must install a 5.1.1 Repository to a new directory. See **"Windows Installation of Repository" on page 34** or **"UNIX Installation of Repository" on page 43**

Important: *Do not install the 5.1.1 Repository on top of an existing ICAN Repository.*

9.3.2 Installing the 5.1.1 Logical Host

Before upgrading your 5.0.5 Projects to 5.1.1, you must install a 5.1.1 Logical Host to a new directory. See **"Installation Instructions for Logical Host" on page 96**.

9.3.3 Exporting Projects or Environments from 5.0.5

In 5.1.1 you must export Projects or Environments from 5.0.5 and then import them into 5.1.1. Use either Enterprise Designer's export function or a command-line script to create an external file, which you then import into 5.1.1.

Important: *Note the settings for your Projects and Environments before exporting them; you will need this information when you reset the IS and JMS properties.*

When exporting a Project, note that:

- The exported Project may have references to elements that are in other Projects. A list of such references is generated during the export process.
- Project deployment objects are not exported, because they have references to both Project and Environment elements that are not required at the Project level.

Note: *For an overall understanding of Enterprise Designer and how it functions, see the* ***Sun SeeBeyond eGate Integrator User's Guide****.*

You are ready to export Projects or Environments to version 5.1.1 when you have version 5.0.5 installed on your system and have Projects or Environments to import into 5.1.1.

Important: *Before you export your 5.0.5 Projects, save them to your Repository.*

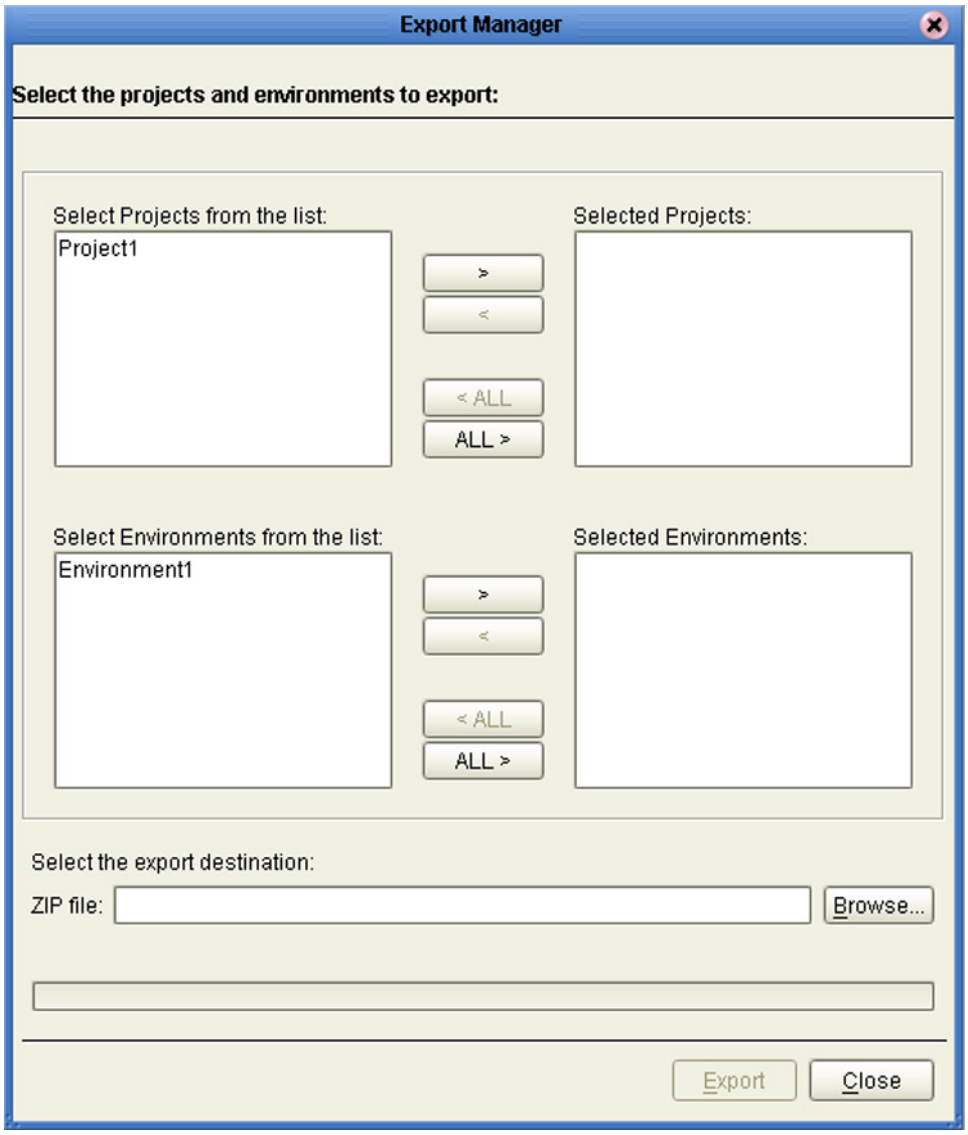
Exporting Projects or Environments Using Enterprise Designer

You export Projects and Environments (if they exist in the Repository) at the same time.

To export a Project or Environment using Enterprise Designer

1. From the Repository or Project context menu, select **Export Project**. The Export Manager dialog box appears (see Figure 64).

Figure 64 Export Manager: Select Projects/Environments from the list



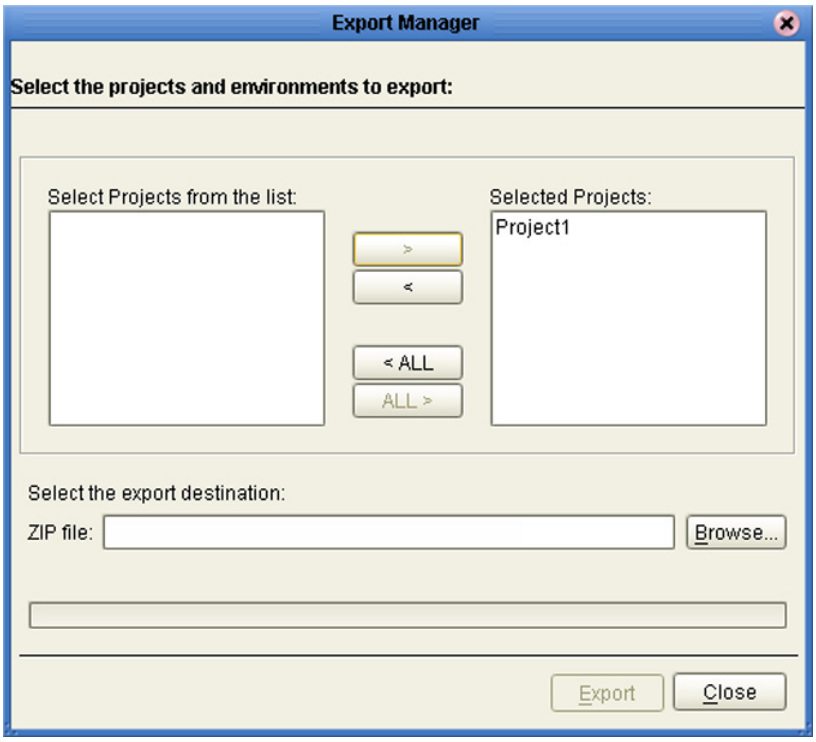
Note: *If you do not have any existing Environments in your Repository, the Environment panes do not appear on the dialog box.*

2 Highlight the desired Project(s) and/or Environment(s) in the displayed lists.

3 Click the appropriate **Arrow** button to transfer the highlighted items to the **Selected Projects** or **Selected Environments** panes.

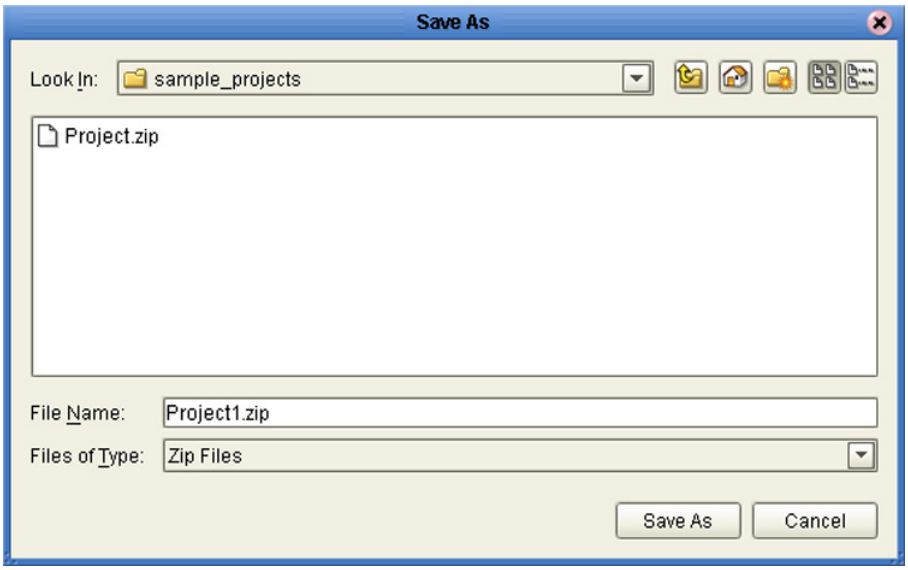
For this demonstration, we are only going to select a Project, so the Environment panes disappear from the following screens.

Figure 65 Export Manager: Selected Projects



4 When the desired Project is listed in the **Selected Projects** pane (see Figure 65), click **Browse**. The **Save As** dialog box appears (see Figure 66).

Figure 66 Save As

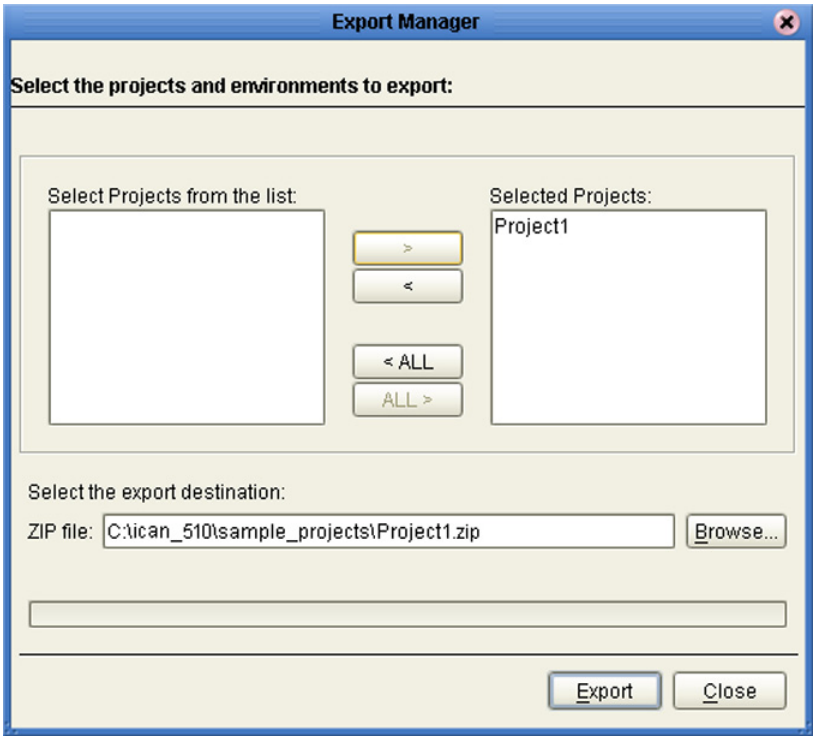


A file name has been created by adding the ZIP extension to the Project name.

Note: *You can change the export file name.*

5 Click **Save As** to enter the file name. The Export Manager dialog box reappears.

Figure 67 Export Manager: Select the export destination



6 Select the export destination and then click **Export** to export the Project file (this process may take a few minutes).

The Export Status message box appears (see Figure 68) after the file has been exported successfully.

Figure 68 Export Status

7 Click **OK** to close the message box.

Exporting Projects or Environments Using the Command Line

You can export a Project, an Environment, or a Project and an Environment using a command-line script.

Location of script file

***<ICAN-root>*\repository\util\exportProject.bat**
(or **exportProject.sh**)

Command Syntax

```
exportProject <username> <password> <exportfile>
<projectname> <environmentname>
```

where:

- ***exportfile*** is the name and path for the archive file to contain the Project and/or Environment you are exporting.
- ***projectname*** is the name of the Project you are exporting. If you do not export a Project, leave this parameter as an empty string ("").
- ***environmentname*** is the name of the Environment you are exporting. If you do not export an Environment, leave this parameter as an empty string ("").

Note: *Project names should not include special characters such as a comma (,), single quote ('), or double quote (") . If any of these characters are used, you must escape them when using the exportProject command-line tool.*

To export a Project using the export script

1. Open a command prompt.
2. Change the directory to **<*ICAN-root*>\repository\util**.
3. To save the Project **myProject** to the file **c:\project1export.zip**, type:

```
exportProject <username> <password> c:\project1export.zip
myProject ""
```

To export an Environment using the export script

1. Open a command prompt.
2. Change the directory to **<*ICAN-root*>\repository\util**.
3. To save the Environment **myEnvironment** to the file **c:\environment1export.zip**, type:

```
exportProject <username> <password> c:\environment1export.zip
"" myEnvironment
```

To export a Project and an Environment using the export script

1. Open a command prompt.
2. Change the directory to **<*ICAN-root*>\repository\util**.
3. To save the Project **myProject** and Environment **myEnvironment** to the file **c:\projenv1export.zip**, type:

```
exportProject <username> <password> c:\projenv1export.zip
myProject myEnvironment
```

9.3.4 Importing Projects or Environments Into 5.1.1

The import function allows you to import an ICAN Project or Environment file using Enterprise Designer. Both follow essentially the same procedure.

Important: *Products installed in the source Repository must be installed in the Repository into which the Project is imported.*

When importing a Project, note that:

- Existing Projects are not affected by an imported Project.
- During import, if a Project with the same name as the Project being imported already exists in the target Repository, an error message informs you that the existing file will not be overwritten.
- If you have not installed all of the necessary products (such as eWays) that a Project requires, an error message appears informing you that you cannot import the Project.
- References are validated during import.
- Project deployment objects are not imported (they have references to both Project and Environment elements that are not required at the Project level).

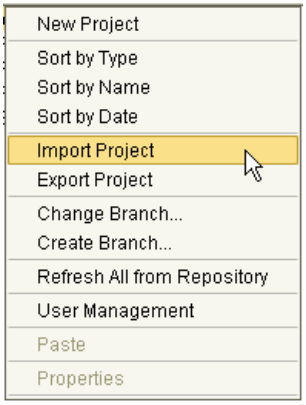
Importing Projects (and Environments) Using Enterprise Designer

Although we deal with Projects, the following steps are also valid for importing an Environment. When an Environment import differs from a Project import, it is noted.

To import a Project using Enterprise Designer

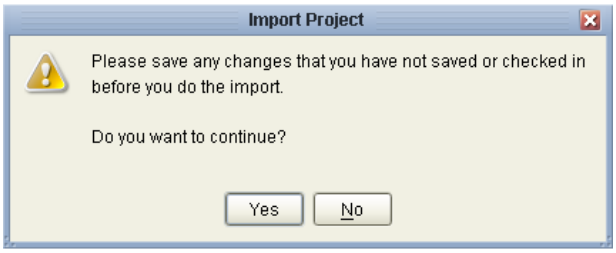
1. For Projects, from the Repository context menu (see Figure 69), select **Import Project**.

Figure 69 Repository Context Menu: Import Project



The Import message box appears (see Figure 70) prompting you to save any changes that have not been previously checked in or saved.

Figure 70 Import Message Box



2 Click **Yes** if you have already saved changes and are ready to import the Project.

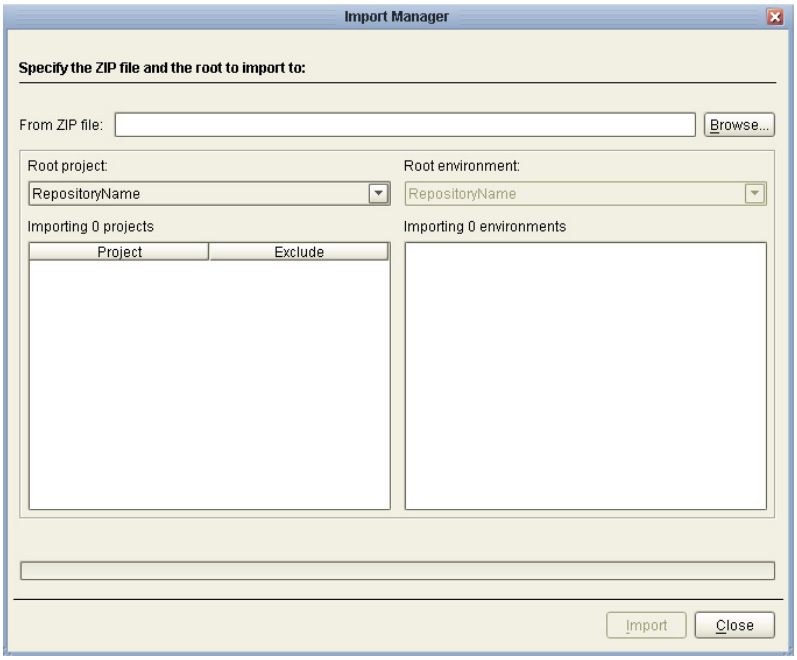
or

Click **No** if you have not yet saved your changes.

- If you clicked **No**, save your changes and then re-select **Import Project,** as in step 1.

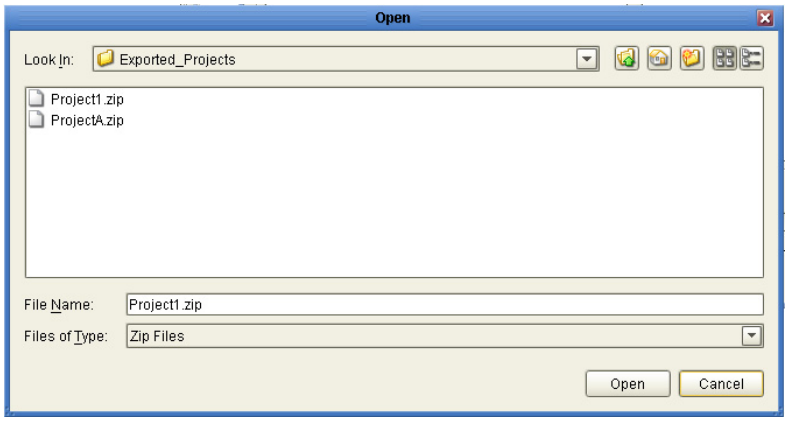
The Import Manager dialog box appears (see Figure 71).

Figure 71 Import Manager



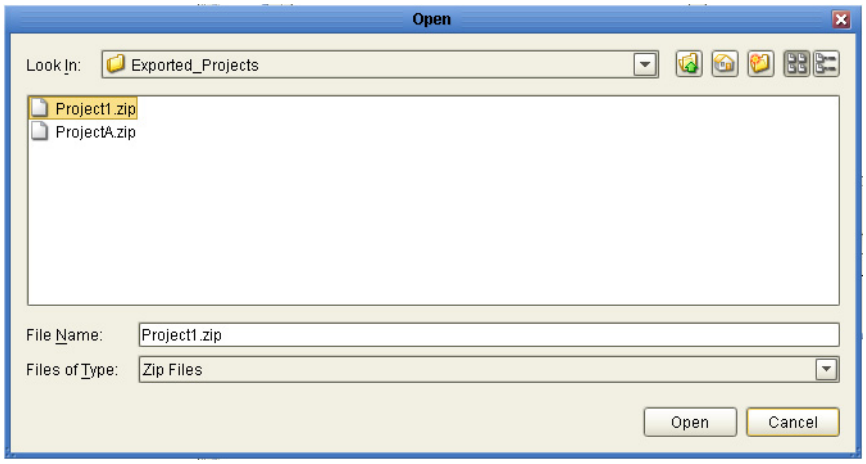
3 Click **Browse** and navigate to the directory where the exported Project (or Environment) ZIP files are stored. The Open dialog box appears (see Figure 72).

Figure 72 Open



4 Highlight the Project (or Environment) ZIP file that you want to import (see Figure 73).

Figure 73 Open with a Project Selected



The Project ZIP file you select populates the **File Name** field.

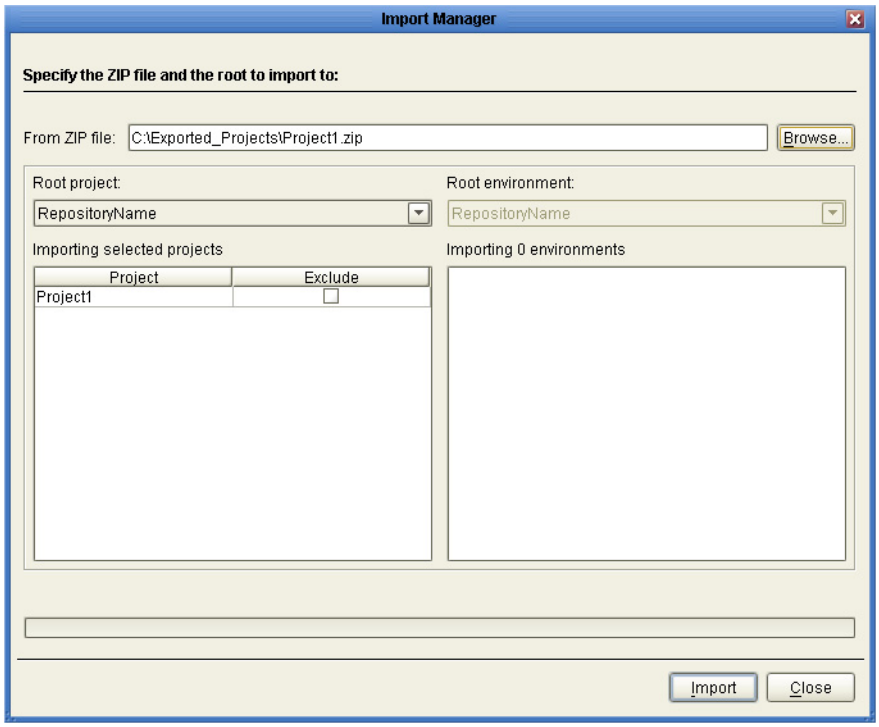
Note: *If you browse to an Environment file, the **Root environment** field becomes enabled (see Figure 71).*

5 Click **Open** to import the file.

Note: *Figure 71 does not show the Root Environment enabled.*

6 The Import Manager dialog box appears (see Figure 74).

Figure 74 Import Manager

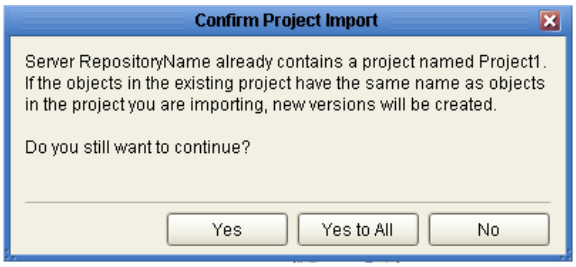


7 Click **Import**. An Import Status message appears after the file has been imported successfully (see Figure 77).

Note: *If the Project you selected to import contains references to another Project, and the other Project already resides in your Repository, you can exclude the referenced Project from the import by checking the box that appears in the Exclude column (see Figure 74). The references will be retargeted to the Project existing in the Repository.*

If, after selecting **Import** (see Figure 74), a Confirm Project Import dialog box appears (see Figure 75), it is because you currently have a Project and are attempting to import an archive file that already contains the same Project (on the same level).

Figure 75 Confirm Project Import

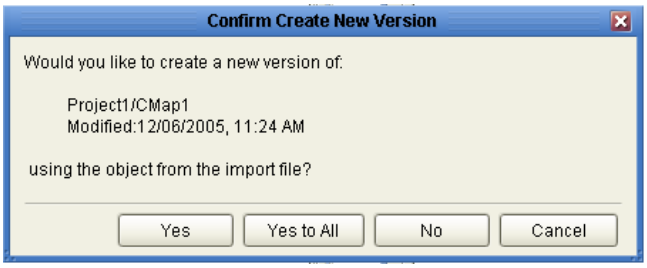


A To overwrite existing objects in their current Repository during the import process, click **Yes**. This creates new versions of objects when their names in the Project you are importing are the same as in the Repository.

Note: *Click **Yes to All** to overwrite all existing objects at the same time.*

If there are any sub-elements under the Project you are importing, a Confirm Create New Version dialog box launches, and will continue to launch for each sub-element until you select **Yes to All** (see Figure 76).

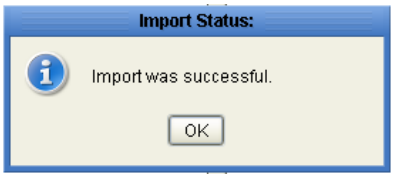
Figure 76 Confirm Create New Version



B Click **Yes to All** to create new versions of all sub-elements at the same time.

An Import Status message appears after the file has been imported successfully (see Figure 77).

Figure 77 Import Status Message Box



8 Click **OK** to close the message box.

9 When you are finished importing files, click **Close** to close the Import Manager dialog box. The Project Explorer is automatically refreshed from the Repository.

Importing Projects or Environments Using the Command Line

You can import a Project or Environment using a command-line script.

Location of script file

`<JavaCAPS511-root>\repository\util\importProject.bat` (or **`importProject.sh`**)

Command Syntax

```
importProject <username> <password> <importfile>
<rootproject>
```

where:

- ***importfile*** is the name and path of the archive file containing the Project or Environment you are importing.
- ***rootproject*** is the name of an existing Project, under which the imported Project will become a sub-Project. If the imported Project does not become a sub-Project, leave this parameter as an empty string ("").

Note: *Project names should not include special characters such as a comma (,), single quote ('), or double quote (") . If any of these characters are used, you must escape them when using the importProject command-line tool.*

To import a Project using the import script

1. Open a command prompt.
2. Change the directory to **<*JavaCAPS511-root*>\repository\util**.
3. To extract a Project contained in the file **c:\project1import.zip** and import it into the Repository, type:

```
importProject <username> <password> c:\project1import.zip ""
```

To import a Project as a sub-Project using the import script

1. Open a command prompt.
2. Change directory to **<*JavaCAPS511-root*>\repository\util**.
3. To extract a Project contained in the file **c:\project1import.zip** and import it into the Repository as a sub-Project of **mainProject**, type:

```
importProject <username> <password> c:\project1import.zip
mainProject
```

To import an Environment using the import script

1. Open a command prompt.
2. Change directory to **<*JavaCAPS511-root*>\repository\util**.
3. To extract an Environment contained in the file **c:\environment1import.zip** and import it into the Repository, type:

```
importProject <username> <password> c:\environment1import.zip
""
```

4. The Environment, including all Projects deployed to that Environment, are imported.

9.3.5 Resetting the IS and JMS Properties

The Integration Server (IS) and Java Messaging Server (JMS) properties cannot be migrated into 5.1.1. You must open the specific property sheets and manually set them.

9.3.6 Upgrading Web Service Objects

When you import Web Service Objects, the components are converted as follows:

- WSDL OTDs are converted to WSDL Objects.
- Web Service External System is converted to the SOAP/HTTP Web Service External System (Client and Server).

9.4 Migrating Projects from 5.0.0 to 5.0.1 (if necessary)

Before you can upgrade from version 5.0.0 to 5.1.0, you must first migrate version 5.0.0 to 5.0.1. The ICAN 5.0 Migration utility creates an archive file that can be restored into a newly-installed 5.0.1 Repository.

Migrating your ICAN Projects from version 5.0.0 to version 5.0.1 involves installing ICAN 5.0.1, installing all of the desired product files, exporting the 5.0.0 Projects to an archive file, and importing the archive file into the 5.0.1 Repository.

Note: *If you are upgrading from 5.0.0 to 5.0.1 (which must be performed before upgrading to 5.0.5), the* ***Migration ToolReadme.txt*** *file is located in the* ***Utilities*** *directory on both of the 5.0.1 Repository installation discs ("SeeBeyond ICAN Suite Repository Disc 1 for Windows/Solaris/AIX/Linux" and "SeeBeyond ICAN Suite Repository Disc-2 for HP-UX/Tru64"), as are the* ***MigrationTool.zip*** *and* ***MigrationTool.tar*** *files.*

To install ICAN 5.0.1

- Follow the steps in Chapter 3, "Installation Instructions for Repository," in the 5.0.1 **ICAN_Install_Guide.pdf** file to install ICAN 5.0.1 to a *different* location than where ICAN 5.0.0 is installed.

Note: *Do not install ICAN 5.0.1 to the same location where ICAN 5.0.0 is installed.*

To install the 5.0.1 product SAR files

1. Refer to the ADMIN page in the Enterprise Manager to determine which product SAR files have been installed in the 5.0.0 Repository.
2. Follow the steps in Chapter 4, "Installation Instructions for Uploading Files to the Repository," in the 5.0.1 **ICAN_Install_Guide.pdf** file to upload the necessary product SAR files.
3. Do not create any Projects in this 5.0.1 Repository until after importing the archive file as described in the "import" **procedure on page 152**.

To create the 5.0.0 Projects archive file

1. Before creating the Projects archive file, ensure that the 5.0.0 Repository server is running. If the Repository server is not running, follow the instructions in Chapter

4, "Installation Instructions for Uploading Files to the Repository," in the 5.0.1 **ICAN_Install_Guide.pdf** file to start the Repository server.

2 Create the following environment variable to be used by the ICAN 5.0 Migration utility:

```
JAVA_HOME=ICAN_INSTALL_DIR/repository/jre/<version>
```

where:

ICAN_INSTALL_DIR is the location of your ICAN installation.

<version> is the version of the JRE your operating system uses (most likely 1.4.2).

Consult the documentation for your operating system for instructions on creating an environment variable.

Note: *This environment variable is used by the export and import processes. You can remove the environment variable after you have finished the import and export processes.*

3 Shut down all Logical Hosts for all of the 5.0.0 Projects.

4 With the Repository server running, type the following command to create the export file:

```
export repository_url user_ID password file_name
```

where:

repository_url is the root URL for the 5.0.0 Repository where the Projects to be exported are located,

user_ID is the user ID used for accessing the Repository (must have Administrator privileges),

password is the password used for accessing the Repository, and

file_name is the name of the export file to be created.

After creating the export file, you can optionally shut down the 5.0.0 Repository server to prevent users from attempting to connect to the old Repository.

Note: *Make sure that all objects are checked in before creating an export.*

To import the archive file into the 5.0.1 Repository

1 Follow the instructions in Chapter 4, "Installation Instructions for Uploading Files to the Repository," in the 5.0.1 **ICAN_Install_Guide.pdf** file to start the 5.0.1 Repository server.

2 With the Repository server running, type the following command to import the archive file into the 5.0.1 Repository:

```
import repository_url user_ID password path_file_name
```

where:

repository_url is the root URL for the 5.0.1 Repository to where the archive file is to be imported,

user_ID is the user ID used for accessing the Repository (must have Administrator privileges),

password is the password used for accessing the Repository, and

path_file_name is the name of the archive file that contains the 5.0.0 Repository information, including the directory path.

Note: *The 5.0.1 Repository must not contain any Projects or user-created data before importing the archive file.*

Post migration steps

1. From the Enterprise Manager, download and install the Enterprise Designer. For complete instructions, see Chapter 5, "Installation Instructions for Enterprise Designer," in the 5.0.1 **ICAN_Install_Guide.pdf** file.
2. In the Enterprise Designer, re-create the following bulleted items:
   - Environments
   - Deployment Profiles
   - Logical Hosts
3. You can optionally delete the ICAN 5.0.0 installation.
4. To upgrade to 5.0.5, follow the steps in **"Upgrading the Repository from 5.0.1 to 5.0.2 or Higher (if necessary)" on page 153**.

9.5 Upgrading the Repository from 5.0.1 to 5.0.2 or Higher (if necessary)

Upgrading your ICAN Repository from version 5.0.1 to version 5.0.2 or higher involves backing up your 5.0.1 Projects and installing the desired 5.0.2 or higher ICAN product files in the same directory where your 5.0.1 Repository is installed. It does not require using the ICAN 5.0 Migration utility.

To prepare for the upgrade from 5.0.1 to 5.0.2 or higher

1. It is recommended that you stop all Projects and imported Business Processes before upgrading to ensure all build fixes and enhancements get used.

Note: *If you did not stop your Projects and imported Business Processes before upgrading, you must deploy all Projects and imported Business Processes after the upgrade completes to ensure all build fixes and enhancements get used.*

2. Check in all 5.0.1 objects before upgrading in the same directory.

Note: *See the **eGate Integrator User's Guide** for information about checking in objects.*

3 Back up your 5.0.1 ICAN Projects by exporting them. This is just a precaution in case something happens and you have to re-import them.

Note: *See the **eGate Integrator User's Guide** for details on exporting.*

4 Before upgrading, perform the following bulleted items:

- **Shut down**
  - Enterprise Designer
  - Logical Host
  - Repository
- **Delete**
  - **deploymentSnapshot.xml** in the **\logicalhost** directory (This is only necessary if you are installing the new Logical Host in the same location as the old Logical Host. The deletion must be done before you bootstrap.)
  - **usrdir** directory under **\edesigner** (You must delete or rename **usrdir** to see updated settings for components that were previously installed before upgrading. If you do not delete this directory or change its name, you will see the settings for newly installed components, but you will not see the new settings for upgraded components.)
- **Save**
  - **logical-host.properties** file in the **logicalhost\bootstrap\config** directory (If you do not save the **logical-host.properties** file, after you finish upgrading, the next time you bootstrap you will need to retype the Logical Host options. See the *eGate Integrator System Administration Guide* for information on the properties options.)

To install ICAN 5.0.2 or higher

1 Follow the "Installation Instructions for Repository" in the appropriate **ICAN_Installation_Guide.pdf** (for example: version 5.0.2) to install the new Repository on top of the old Repository. That is, *install ICAN 5.0.2 or higher to the same location where ICAN 5.0.1 is installed.*

Note: *When upgrading eGate both the Repository upgrade and **eGate.sar** upload must be performed.*

2 Start the Repository.

3 Start Enterprise Manager and follow the steps in "Installation Instructions for Uploading Files to the Repository" in the appropriate **ICAN_Installation_Guide.pdf** (for example: version 5.0.2) to submit first the **ProductsManifest.xml** (if required; depends upon the version of ICAN you install), then **license.sar** (if new components are being installed), and then **eGate.sar**, before uploading the necessary 5.0.x product SAR files and accompanying documentation. This order must be followed.

Note: *The SAR files that were previously uploaded will still be listed in the* ***ADMIN*** *tab after the Repository has been upgraded.*

4 Download and install the new Enterprise Designer on top of the old Enterprise Designer, and then start Enterprise Designer, download the modules, check the digital signatures, and install the modules using the Update Center Wizard in Enterprise Designer. For complete instructions, see the "Installation Instructions for Enterprise Designer" in the appropriate **ICAN_Installation_Guide.pdf** (for example: version 5.0.2).

5 Follow the steps in "Installation Instructions for Logical Host" in the appropriate **ICAN_Installation_Guide.pdf** (for example: version 5.0.2) to install the new Logical Host in a different location than the old Logical Host.

6 Run the bootstrap command to start the Logical Host. See the *eGate Integrator System Administration Guide* for details (**bootstrap.bat** on Windows, **bootstrap.sh** on UNIX and Linux) and bootstrap arguments.

You will see the following message:

```
Upgrading LogicalHost from 50x to 505 ......
Setting up a first time bootstrap for 505 LogicalHost
```

This message appears when you upgrade the Logical Host from version 5.0.x to version 5.0.5. After this initial bootstrap process completes, all subsequent bootstrap commands will start the 5.0.5 Logical Host.

To upgrade other ICAN products

If you are not upgrading your core product but only a single or a few components, such as eInsight or an eWay, perform the following steps:

1 Remove the **usrdir** subdirectory under **\edesigner**.

2 In Enterprise Manager upload the new SAR file(s).

3 In Enterprise Designer run **Update Center**.

Chapter 10

Troubleshooting

The following sections describe issues that may arise during the installation process and provides tips and solutions to resolve these issues. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

10.1 Composite Application Platform Suite Product Dependencies

Composite Application Platform Suite products have dependencies, and you must install these dependencies before attempting to upload the SAR file for a particular product. This includes installing and running a Repository where you intend to upload the product files. If there are prerequisite SAR files, these files must be uploaded to the Repository before attempting to upload the product SAR file.

Using eVision™ Studio as an example, it has dependencies that must be installed, running, and uploaded prior to uploading **eVision.sar**: If you attempt to install eVision Studio without first installing and uploading its dependencies, the **eVision.sar** upload may fail.

Important: *See the Composite Application Platform Suite product documentation for dependencies specific to a particular product.*

10.2 Repository Installation

The following bulleted items are problems that can occur during Repository installation:

10.2.1 Naming the Repository

Do not name your Repository: **repository** (all lower case) as this can cause a problem wherein you cannot connect to the bootstrap (even when you use the correct case for the URL).

10.2.2 Invalid Domain/Server Name: Invalid '_' in Host Name

Systems must be appropriately named when they host Web containers. The Internet Engineering Task Force (IETF) Request for Comments (RFC) 883 specification "DOMAIN NAMES-IMPLEMENTATION and SPECIFICATION," states that domains that use cookies must use only alphanumeric characters ("-" or ".") in the domain name and the server name. In conformance to this requirement, Internet Explorer blocks cookies from a server if the server name contains other characters, such as an underscore character ("_").

Enterprise Manager will not run on systems that have an invalid character in their host name. For more information, see the Microsoft Knowledge Base article 316112 (**http://support.microsoft.com/default.aspx?scid=kb;en-us;316112**).

10.3 Suite Installer

The following bulleted items are problems that can occur while using the Suite Installer:

10.3.1 Uploading Files in Suite Installer

Improving Upload Performance

To improve the upload performance when uploading product SAR files to the Repository, see Microsoft Knowledge Base article 329781. Increasing the buffer size to 64 KB will improve the speed of uploading files to the Repository via Internet Explorer.

Problem Uploading SAR Files

If you experience a problem uploading Composite Application Platform Suite SAR files, it may be because you are using a limited version of the Composite Application Platform Suite. Contact Sun Support.

Upload Session Log Files

Whenever you upload a SAR file to the Repository using Enterprise Manager, a log file is created in the <***Sun_CAPS_install_dir***>**/repository/server/logs** directory. This log file contains information about the upload session. The name of the log file is **eManagerInstaller-*uniqueID*.log**.

If you have an installation failure, check this log file to see the details about the session.

10.3.2 Downloading in Suite Installer

Enterprise Designer and Logical Host - win32 Links

Problem

After clicking the **Downloads** tab in Enterprise Manager, the **Enterprise Designer** and **Logical Host - win32** links are visible. However, when you click on one of the links to open the ZIP file in WinZip and extract the files, 0 files are available to extract.

Reason

The files have already been extracted. To ensure that this is true, navigate to the appropriate directory, for example:

<*c:\JavaCAPS511*>\edesigner

or

<*c:\JavaCAPS511*>\repository\data\files\InstallManager\logicalhost\downloadables

Check the directory to confirm that the appropriate files are present. For Enterprise Designer, you will see a number of populated subdirectories; for Logical Host, you will see a number of files.

If the files have not been extracted, you will see the ZIP file in the directory (for example: **logicalhost-win32.zip**). Extract the files from the ZIP file.

10.4 Enterprise Manager

The following bulleted items are problems that can occur while using the Enterprise Manager:

- **"Adobe SVG Viewer 3.0 Plug-in for Windows" on page 159**
- **"IBM AIX Repository-Enterprise Designer Log On Problem" on page 161**

10.4.1 Starting Enterprise Manager

Enterprise Manager does not run on the same server as the Repository Server. This means that you cannot access the Enterprise Manager from the Repository Server. If you cannot start the Enterprise Manager, most likely it is because you have not yet downloaded **emanager-win32.zip** from the Suite Installer.

To install and start Enterprise Manager:

- To install Enterprise Manager, see **"Installation of Enterprise Manager" on page 66**.
- To start Enterprise Manager, see **"Starting and Shutting Down Enterprise Manager" on page 80**.

10.4.2 General Enterprise Manager Tips

Timeout Interval

The timeout interval for the Enterprise Manager is set to three hours. The Web application will timeout after three hours of inactivity.

10.4.3 Adobe SVG Viewer 3.0 Plug-in for Windows

Enterprise Manager Recognition of Adobe SVG Viewer Plug-in

During startup, Enterprise Manager detects if the Adobe SVG Viewer plug-in is present on your system. If the SVG Viewer plug-in is not present, Enterprise Manager automatically displays a JPEG version of the Connectivity Map, which includes the following monitoring functions:

- View status of components
- Start and stop "stoppable" components
- View details of a component

Note: *The Adobe SVG Viewer is an optional tool for monitoring business processes. The JPEG version that Enterprise Manager automatically displays of the Connectivity Map uses pure HTML.*

Enterprise_Manager_SVGPlugin-win32 SAR File

The **Enterprise_Manager_SVGPlugin-win32.sar** file is not required for viewing Connectivity Maps in Enterprise Manager. However, installing this SAR file enhances the Connectivity Map's capabilities by adding features such as:

- Zoom (in, out)
- Fit (all, width, height)
- Return to "Original View" after zooming
- Select "Higher Quality" image
- Find (search for an object within a Connectivity Map)

The SAR file is located on java-caps-5_1_1-products-cd1.iso and DVD - Part No. 708 0157-10.

Note: *To successfully install the Adobe SVG Viewer, you need Administrator privileges on the local profile on the local system.*

Adobe SVG Viewer Plug-in Problem

Some Windows machines, if they have "orphan" files left behind from a previous installation of SVG that is unknown to the Windows Registry, are unable to install the Adobe SVG Viewer 3.0 plug-in via the normal Enterprise Manager download procedure. This component is required for viewing certain graphics over the Web, using the Enterprise Manager. The problem manifests itself by displaying an error dialog resembling the following example:

```
Setup Details

Registry error:
   The system cannot find the file specified.
   <filename> [...]
File Error: Remove file
   C:\WINNT\system32\Adobe\SVGInstallTemp\SVG3.reg
Merge registry file:
   C:\WINNT\TEMP\SVGInstallTemp\SVG3.reg
```

This problem is known to Adobe, and a discussion of it can be found within the www.adobe.com Web site. Click **Search**, then click the link to **User to User Forums**, and then search on the thread "SVG Viewer Installation problems."

To resolve the Adobe SVG Viewer Plug-in problem

1. Leave the error message dialog box open and copy the entire extracted folder:

   ```
   c:\WINNT\TEMP\SVGInstallTemp
   ```

   as listed above to a new location.
2. Exit the installer by closing the open dialog boxes.
3. In the new location, edit the file **Setup.inf** to comment out the **SVG3.ref** entry by making the following change.

   Change the line:

   ```
   SVG3.reg=%SourceDir%
   ```

   To (notice the added semicolon):

   ```
   ;SVG3.reg=%SourceDir%
   ```
4. Save your changes and exit the editor.

5 In this same location, run **winstall.exe**.

The plug-in should now install correctly.

10.4.4 IBM AIX Repository-Enterprise Designer Log On Problem

See **"Enterprise Designer" on page 162** for details.

10.5 Logical Host

The following bulleted item is a problem that can occur when using the Logical Host:

- **"Problems Creating Domains" on page 161**

10.5.1 Problems Creating Domains

Cannot create additional Domains using createdomain.bat (or .sh)

createdomain.bat (or **.sh**) has numerous parameters available when creating a Domain, for example:

- **--adminport** uses the default port number of 18000 (this parameter is used if **--startingport** is not specified).
- **--dname** specifies the Domain name (the default Domain name is **domain1**), and this parameter must be used when creating additional Domains.

Since only one Domain on a server can use the default Domain name and port number, you must select another name and number when creating additional Domains.

For a list of the available arguments, at the command prompt in the Logical Host directory, type:

- **createdomain -?**

  or

- **createdomain --help**

When you use **createdomain.bat** (or **.sh**), you must supply the necessary flags on the non-default port. If you prefer to have the system automatically select port numbers for you from a contiguous range of ports that have not been explicitly specified, use the following argument:

- **--startingport** and then specify the number (for example: **19000**)

To create a new Domain, you need to include a minimum of the following parameters:

createdomain --dname *domain2* --startingport *19000*

Where:

domain2 is the name of the Domain

19000 is the port number

10.6 Enterprise Designer

The following bulleted item is a problem that can occur when using the Enterprise Designer:

- **"Enterprise Designer Log On Problem" on page 162**

10.6.1 Enterprise Designer Log On Problem

A log on problem can occur when you use Enterprise Designer with an IBM AIX Repository.

Problem

You are unable to log on to Enterprise Designer when restarting it after its initial launch and first-time use of the Update Center to download product components. This happens if you are running a 5.1.1 IBM AIX Repository even though the AIX hostname information is set correctly in the /etc/hosts files.

Fix

Add the AIX hostname information already set in the /etc/hosts files to the DNS. Even though this information is not required in the DNS, it resolves the problem. Contact your DNS administrator for instructions on how to add the hostname information.

10.7 Configuring SSL and HTTPS Support

Secure Socket Layer (SSL) is a technology that allows Web browsers and Web servers to communicate over a secured connection. The HTTPS service of the Composite Application Platform Suite Repository server will not run unless a server certificate has been installed. For more information about using SSL and HTTPS in the Composite Application Platform Suite, see the *Sun SeeBeyond eGate Integrator System Administration Guide*.

Chapter 11

Installing New Product Components

The following sections describe how to install new product components. If you have any questions or problems, see the Sun Support Web site at http://www.sun.com and then select **Support**.

What's in This Chapter

11.1 Overview

After a new product component becomes available, the system administrator uploads the SAR file to the Repository, and then the user runs the Update Center Wizard in Enterprise Designer to complete the installation. See **"Uploading and Installing New SAR Files" on page 163** for complete instructions on how to complete this two-fold process.

11.2 Uploading and Installing New SAR Files

You install new product components using Enterprise Designer after the system administrator uploads new SAR files to the Repository. The two-fold process is described in the following sections:

System Administrator Performs the Following Steps

1. Navigate to the directory where you installed the Repository (for example: **\JavaCAPS51\repository**) and perform one of the following steps:
   - A. Double-click **startserver.bat** to start the Repository on Windows.
   - B. Type **startserver.sh** to start the Repository on UNIX.
2. Start Enterprise Manager.
   - A. Start Internet Explorer.

B In the **Address** line, type **http://<*hostname*>:<*port_number*>** where:

hostname is the TCP/IP host name of the server where you installed the Repository—not the name of the Repository itself.

port_number is the port number that you specified during the installation of the Repository.

C Press **Enter**. The **Sun SeeBeyond Customer Login** window appears.

D Enter your **username**, **password**, and click **Login**. The Suite Installer appears with the **Administration** tab active, showing a list of the currently installed product components.

3 Select **Click to install additional products**.

4 The Administration page now displays a list of the Composite Application Platform Suite products available to upload by category (see Figure 13). It is an extensive listing of all the product components that are available to install

5 Expand one of the categories on the Select Composite Application Platform Suite Products to Install list.

Note: *"Core Products" expands a list of all eGate-related component products.*

6 With a category list expanded, click a product component to see if it has dependencies. If there are dependencies, the dependencies are required and must also be uploaded to the Repository.

7 Click **Select** to return to the list of available Composite Application Platform Suite product components available to upload. The list has contracted.

8 Expand the category in the list that you previously expanded, and select the product component by clicking the box in front of the component (your selection is set when a check mark appears in the box).

9 Continue by selecting additional components you want to upload by placing check marks in the box next to the component names. You can select as many components as you want.

You are now ready to upload your selected product components.

10 Click **Next** (at the bottom of the screen). Each Composite Application Platform Suite product requires one or more product SAR files to be uploaded to the Repository. If the installation program does not know the location of the appropriate SAR files to install, the Selecting Files to Install screen appears (see Figure 15).

Also, if there are dependent products, they are added to the list.

11 Click **Browse** for a selected product component to navigate to the appropriate SAR file. See Table 10 or Table 11 for a listing of the eGate-related SAR files and their location on the ISO images and DVDs.

12 After locating the SAR file, select it and then click **Open**.

13 Click **Next**. The next product component you selected appears in the **Selecting Files to Install** list.

14 After locating the SAR file, select it and then click **Open**.

Note: *Repeat this process until you have selected all the SAR files you want to upload.*

15 When you have selected all the product SAR files, click **Next** to upload them to the Repository. The product SAR files are uploaded. The installation automatically begins after the uploads are complete. When the upload completes, the Installation finished screen appears (see Figure 17).

Note: *The files are uploaded as they are selected.*

16 Announce that new products and documentation are available to download.

User Performs the Following Steps

1 Check in, or save, all your Projects before installing new product components.

2 Delete the **usrdir** directory under **\edesigner**.

Note: *You must delete or rename **usrdir** to see updated settings for components that were previously installed. If you do not delete this directory or change its name, you will see the settings for newly installed components, but you will not see the new settings for upgraded components.*

3 Start Enterprise Designer:

- Navigate to **<*C:\JavaCAPS51*>\edesigner\bin** and double-click **runed.bat**.

4 On the **Tools** menu, click **Update Center**. The **Update Center Wizard - Select Location of Modules** dialog box appears

5 Click **Next**. The **Update Center Wizard - Select Modules to Install** dialog box appears (see Figure 39).

6 Click the **Add All** button (double-arrow button that is the third arrow button from top). All of the Java CAPS modules are moved to the **Include in Install** list.

7 Click **Next**.

8 Click **Accept** when the **License Agreement** appears. The **Update Center Wizard - Download Modules** dialog box appears (see Figure 40).

9 Click **Next** when the progress bar reaches 100 percent and "Done" appears below the bar.

The **Update Center Wizard - View Certificates and Install Modules** dialog box appears (see Figure 41). All of the modules must be installed for Enterprise Designer to fully function.

10 Click **Finish** to accept the certificates and install the modules. The **Restart the IDE** dialog box appears (see Figure 42).

11 Ensure that the **Restart the IDE** option is selected, then click **OK** to restart the IDE and install the modules. The Enterprise Designer **Login** dialog box appears.

12 Enter your **Login ID** and **Password** and then click **Login**. The Login ID is the same as the username. Sun recommends that you log in as "Administrator" the first time you log in; the Administrator can then create additional Login IDs (usernames).

The **Sun SeeBeyond Enterprise Designer** window appears. You can now begin using the new product components.

13 Restart the Repository.

Appendix A

UNIX and Linux Patches

There are required and certified UNIX and Linux patches for eGate 5.1.1.

What's in This Chapter

A.1 Checking Patch Levels

Use these commands to check which patch levels are currently installed on your operating system:

HP Tru64 UNIX patches

```
dupatch -track -type kit
```

HP-UX patches on Itanium and PA-RISC

```
swlist
```

IBM AIX patches

```
instfix -i
```

Linux patches

```
uname -a
```

Sun Solaris patches

```
pkginfo
cat /etc/release
```

A.2 HP Tru64 UNIX V5.1A and V5.1B Patches

Sun has tested the system against the following patches:

- **"Certified HP Tru64 UNIX V5.1A Patches" on page 168**

Even though applications that are developed using the HP C++ compiler are shipped with the Tru64 UNIX operating system, they must be updated. This is because they require functionality that is provided in the C++ Run-Time Library, and newer versions of the run-time library are released with each new version of the compiler. These updates of the libraries provide bug fixes and support for new features in the compiler, and must be installed on Tru64.

If you do not have a compiler installed, Sun recommends that you download and install the correct libraries for your system from the following location:

ftp://ftp.compaq.com/pub/products/C-CXX/tru64/

Note: *A specialized FTP browser is required to access an FTP site from this document.*

A.2.1 Certified HP Tru64 UNIX V5.1A Patches

There is one certified patch for HP Tru64 UNIX V5.1A:

```
- T64V51AB24AS0006-20031031 (Patch Kit #6)
```

Note: *There is a known threading problem with HP Tru64 UNIX V5.1A, in which you may occasionally see components hang. HP is currently working on the problem. If you encounter this problem, contact HP (problem reference number: NA020731023095).*

For HP Tru64 UNIX V5.1A patches only

After installing the patches for HP Tru64 UNIX V5.1A, reconfigure the memory allocation from immediate to deferred mode by performing the following command:

```
/etc/sysconfigtab

vm:

   vm-swap-eager=0
```

Note: *HP Tru64 UNIX used to be called Compaq Tru64 UNIX.*

A.2.2 Certified HP Tru64 UNIX V5.1B Patches

There is one certified patch for HP Tru64 UNIX V5.1B:

```
- T64V51BB26AS0005-20050502(Patch Kit #5)
```

Note: *HP Tru64 UNIX used to be called Compaq Tru64 UNIX.*

A.3 HP-UX System Parameter Changes

If you are installing eGate on an HP-UX 11.0 or an HP-UX 11i (11.11) on PA-RISC system (see Table 15), make the changes to system parameters listed in Table 15:

Table 15 eGate Values on an HP-UX PA-RISC Systems

Parameter	Value
semmni	1024
semmns	16384
semmnu	2048
semume	256
shmmni	1024
shmseg	1024

Note: *Services installed are not autostarted on system boot for non-root users. Startup scripts for services installed will be stored in a directory* ***rc3.d*** *under your home directory. It is not recommended to run as root.*

A.3.1 HP-UX Operating System Patches

If you encounter a problem with an HP-UX OS patch while installing eGate, remove the following HP-UX patch:

PHNE_22397 (cumulative ARPA Transport patch)

and replace it with **PHNE_21767**.

Caution: *If you do not have a problem with the installation of the patches, do not replace the above patch.*

A.4 HP-UX 11.0 on PA-RISC Patches

Table 16 lists the certified patches for HP-UX 11.0 on PA-RISC.

Note: *These patches are also valid on Japanese and Korean operating systems.*

Table 16 Certified HP-UX 11.0 on PA-RISC Patches

Patch	Version	Explanation
HWE1100	B.11.00.0403.3	Hardware Enablement Patches for HP-UX 11.00, March 2004
QPK1100	B.11.00.64.4	Quality Pack for HP-UX 11.00, March 2004

Patch	Version	Explanation
JDK 1.4	PHCO_23117, PHCO_23651, PHCO_24189, PHCO_26017, PHCO_26089, PHCO_26111, PHCO_27375, PHCO_28425, PHCO_29108, PHKL_18543, PHKL_20016, PHKL_23409, PHKL_24064, PHKL_25613, PHKL_27207, PHKL_27813, PHKL_27980, PHKL_28172 PHKL_28180, PHNE_27651 PHNE_27821, PHNE_28102, PHNE_28538, PHSS_26495, PHSS_26559, PHSS_26637, PHSS_26945, PHSS_27869, PHSS_28368, PHSS_28469, PHSS_28874	Patches with corresponding pre-requisites

For the HP-UX 11 Java patches, go to the following URL:

http://www.hp.com/products1/unix/java/infolibrary/patches.html

A.5 HP-UX 11i (11.11) on PA-RISC Patches

Table 17 lists the certified patches for HP-UX 11i (11.11) on PA-RISC.

Note: *These patches are also valid on Japanese and Korean operating systems.*

Table 17 Certified HP-UX 11i (11.11 on PA-RISC Patches

Patch	Version	Explanation
GOLDAPPS11i	B.11.11.0509.429	Applications Patches for HP-UX 11i v1, September 2005
GOLDBASE11i	B.11.11.0509.429	Base Patches for HP-UX 11i v1, September 2005
HWEnable11i	B.11.11.0509.430	Hardware Enablement Patches for HP-UX 11i v1, September 2005

Table 17 Certified HP-UX 11i (11.11 on PA-RISC Patches (Continued)

Patch	Version	Explanation
JDK 1.4.2.06	PHCO_30544 PHKL_27094 PHKL_28122 PHKL_29696 PHKL_29704 PHKL_30033 PHKL_30034 PHKL_30035 PHKL_30036 PHKL_30216 PHNE_30367	Patches with corresponding pre-requisites

For the HP-UX 11i Java patches, go to the following URL:

http://www.hp.com/products1/unix/java/infolibrary/patches.html

A.6 HP-UX 11i v2.0 (11.23) on Itanium Patches

Table 18 lists the certified patches for HP-UX 11i v2.0 (11.23) on Itanium.

Note: *These patches are also valid on Japanese and Korean operating systems.*

Table 18 Certified HP-UX 11i v2.0 (11.23) Patches

Patch	Version	Explanation
BUNDLE11i	B.11.23.0409.3	Required Patch Bundle for HP-UX 11i v2 (B.11.23), September 2004
HWEnable11i	B.11.23.0403.5	Hardware Enablement Patches for HP-UX 11i v2, March 2004
QPKAPPS	B.11.23.0512.034	Applications Quality Pack Bundle for HP-UX 11i v2, December 2005
QPKBASE	B.11.23.0512.034	Base Quality Pack Bundle for HP-UX 11i v2, December 2005
FEATURE11i	B.11.23.0512.034	Feature Enablement Patches for HP-UX 11i v2, December 2005

A.7 IBM AIX 5L Versions 5.2 and 5.3 Patches

The following patches are certified patches for IBM AIX:

Certified IBM AIX 5L version 5.2 Patches

There is one certified patch for IBM AIX 5L version 5.2:

```
5200-07_AIX_ML (Maintenance Level 7)
```

Certified IBM AIX 5L version 5.3 Patches

There is one certified patch for IBM AIX 5L version 5.3:

```
5300-04_AIX_ML (Maintenance Level 4)
```

Note: *The IBM AIX patches are also valid on Japanese and Korean operating systems.*

A.8 Linux Patches

The following patches are certified patches for Red Hat Linux and SUSE Linux:

Certified Red Hat Enterprise Linux AS 2.1 (Intel x 86) Patches

There is one certified patch for Red Hat Enterprise Linux AS 2.1 (Intel x86):

```
2.4.9-e.16smp
```

Certified Red Hat Linux 8 (Intel x 86) Patches

There is one certified patch for Red Hat Linux 8 (Intel x 86):

```
2.4.20-20.8
```

Certified SUSE Linux Enterprise Server 8 (Intel x86) Patches

There is one certified patch for SUSE Linux Enterprise Server 8 (Intel x86):

```
Service Pack 3
```

A.9 Sun Solaris 8, 9, and 10 Patches

The following patches are required and certified patches for Sun Solaris:

nscd must be running on Sun Solaris to install eGate successfully

Sun Solaris must have **nscd** running. If it is not running, the default Project fails to import properly during installation, and eGate cannot be installed.

Required Sun Solaris Patches

Sun Solaris 8 requires the following patch before eGate can be installed.

```
108435-13
```

This patch is available from Sun, either from a current operating system DVD, ISO image, or downloaded from:

http://sunsolve.sun.com

Note: *See* **"To Start Domains on Sun Solaris 8 Computers" on page 24** *for an explanation why it is important that this patch is installed.*

Sun Solaris 10 Patches

Deploying Java CAPS 5.1.0 Projects onto Sun Java System Application Server 8.1 Enterprise Edition (AS 8.1 EE) requires patch 8 and possibly other patches (such as 119116-15). See the Sun AS 8.1 EE documentation for current patch information.

If you run AS 8.1 EE on Solaris 10, you need to apply one or more patches to Solaris 10 (such as 119254-10). See the Sun Solaris 10 documentation for current patch information.

Certified Sun Solaris 8 and 9 Patches

There are two certified patches for Sun Solaris 8 and 9:

```
Solaris 8 Maintenance Update 7 2-2002
Solaris 9 Maintenance Update 3 4-2003
```

Note: *These patches are also valid on Japanese and Korean operating systems.*

A complete list of the patches included in these Clusters is available from Sun Support.

Note: *These patches are recommended but not required.*

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