Progress Orbix

Orbix®

Installation Guide

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CHAPTER 1

Installation Prerequisites

Before you install Orbix, check the system requirements, and familiarize yourself with the steps involved in installing the product.

In this chapter

This chapter contains the following sections:

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Virtualization Requirements	page 9
Disk Space Requirements	page 10

Before You Begin

See the Release Notes

Before installing, visit the documentation web page at: http://web.progress.com/orbix/support/6.3.4/, and read the *Release Notes* to check for updates to this *Installation Guide*.

OS/compiler patch levels

Customers can use the stated minimum base levels for OS/compiler vendor patches that work with Orbix. It is the usual practice of the OS/compiler vendors that later patches are binary compatible with earlier patches.

If for any reason you need to use higher patch levels, please confirm with the OS/compiler vendor that the patches are fully backward compatible with the set required by the Orbix product.

Migration

For detailed information on migrating from Orbix Application Server Platform 6.0, 5.1, 5.0, Orbix 2000, and Orbix 3.3 to Orbix 6.3, please refer to the migration guides on the documentation web page at: http://web.progress.com/orbix/support/6.3.4/

For details on migrating from previous versions of Orbix 6.3, see the *Release Notes*.

Windows compiler names

Table 1 shows the translation between Microsoft Windows VC and Visual Studio compiler names used in this guide. It also shows the version output by Microsoft C/C++ Compiler Driver (`cl.exe`).

Table 1: *Microsoft VC and Visual Studio Names*

VC Name	Visual Studio Edition	Version Output by cl.exe
VC6	Visual Studio 6.0 (also known as VC98)	12.x.x
VC71	Visual Studio 2003	13.x.x
VC8	Visual Studio 2005	14.x.x
VC9	Visual Studio 2008	15.x.x

Orbix COMet requirements

Orbix COMet is only supported with Microsoft Visual C++ 6.0. Orbix 6.3.4 also supports Visual C++ 7.1, Visual C++ 8.0, and Visual C++ 9.0. However, Orbix COMet does not support these newer compiler versions, and works with Visual C++ 6.0 only.

Operating Requirements

Prerequisites

Table 2 shows the operating systems and compilers supported by Orbix at the time of this release. Please refer to the following web page for any changes to this list after the release:

http://web.progress.com/orbix/supported_platforms.html

Note: All patch numbers listed in Table 2 are the minimum patch levels supported for that version. Any patch that supersedes a patch listed is also supported, contingent on the OS vendor compatibility statement.

Table 2: *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
Windows XP SP 2	x86, x64	Visual Studio 6.0 SP3 (VC6) (32-bit) Visual Studio 2003 (VC 7.1) (32-bit) Visual Studio 2005 (VC 8.0) (32-bit, 64-bit) Visual Studio 2008 (VC 9.0) (32-bit, 64-bit)	JDK 5, 6 (32-bit)	C++ runtime Java (JRE or SDK) 5.0_11
Windows Server 2003	x86, x64	Visual Studio 6.0 SP3 (VC6) (32-bit) Visual Studio 2003 (VC 7.1) (32-bit) Visual Studio 2005 (VC 8.0) (32-bit, 64-bit) Visual Studio 2008 (VC 9.0) (32-bit, 64-bit)	JDK 5, 6 (32-bit)	C++ runtime Java (JRE or SDK) 5.0_11

Table 2: *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
Windows Vista (1)	x86, x64	Visual Studio 2005 (VC 8.0) (32-bit, 64-bit) Visual Studio 2008 (VC 9.0) (32-bit, 64-bit)	JDK 5, 6	C++ runtime Java (JRE or SDK) 5.0_11
Windows Server 2008	x86, x64	Visual Studio 2005 (VC 8.0) (32-bit, 64-bit) Visual Studio 2008 (VC 9.0) (32-bit, 64-bit)	JDK 5, 6	C++ runtime Java (JRE or SDK) 5.0_11
Sun Solaris 8	SPARC	Sun Studio 8 (32-bit, 64-bit)	JDK 5, 6	108827-12 (libthread) 108435-22 (32-bit C++ runtime) 108435-22 (64-bit C++ runtime) 109147-21 (linker) Java (JRE or SDK) 5.0_11.
Sun Solaris 8	SPARC	Sun Studio 11 (32-bit, 64-bit)	JDK 5, 6	108435-22(32-bit C++ runtime) 108435-22(64-bit C++ runtime) Java (JRE or SDK) 5.0_11
Sun Solaris 9	SPARC	Sun Studio 8 (32-bit, 64-bit)	JDK 5, 6	111711-16 (32-bit C++ runtime) 111712-16 (64-bit C++ runtime) 112963-05 (linker) Java (JRE or SDK) 5.0_11
Sun Solaris 9	SPARC	Sun Studio 11 (32-bit, 64-bit)	JDK 5, 6	111711-16 (32-bit C++ runtime) 111712-16 (64-bit C++ runtime) Java (JRE or SDK) 5.0_11

Table 2: *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
Sun Solaris 10	SPARC	Sun Studio 10, 11 (32-bit, 64-bit (2))	JDK 5, 6	119689-06 libc.so.1 Java (JRE or SDK) 5.0_11
Sun Solaris 10	x86, x64 (3)	Sun Studio 10 (32-bit, 64-bit)	JDK 5, 6	118345-12 SunOS 5.10_x86: ld and libc.so.1 119689-06 libc.so.1 Java (JRE or SDK) 5.0_11
HP-UX 11.i v1 (11.11)	PA-RISC	aCC 3.7x (4) (32-bit, 64-bit)	JDK 5, 6 (32-bit)	PHSS_25170: aCC runtime PHSS_24627: aCC runtime PHSS_21075: varargs.h and +DA2.0W PHSS_23699: libcl PHSS_24303: dld PHCO_24148: libc Java (JRE or SDK) 5.0_06
HP-UX 11.i v2 (11.23)	PA-RISC	aCC 3.7x (4) (32-bit, 64-bit)	JDK 5, 6 (32-bit)	PHKL_27094 PHKL_29696 PHKL_30035 PHKL_30541 PHCO_27120 PHKL_27096 PHKL_29704 PHKL_30036 PHKL_30542 PHKL_25233 PHKL_27686 PHKL_30033 PHKL_30216 PHNE_30367 PHKL_25652 PHKL_28122 PHKL_30034 PHKL_30288 PHNE_31247 PHSS_30049 Java (JRE or SDK) 5.0_06

Table 2: *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
HP-UX 11i v2 (11.23)	Itanium	aCC 6.1x (32-bit, 64-bit)	JDK 5, 6	Java (JRE or SDK) 5.0_06
HP-UX 11i v3 (11.31)	Itanium	aCC 6.1x (32-bit, 64-bit)	JDK 5, 6	Java (JRE or SDK) 5.0_06
IBM AIX 5.3	PowerPC	XL C/C++ 8.0 (32-bit, 64-bit (2)) XL C/C++ 9.0 (32-bit, 64-bit (2))	JDK 5, 6	Java (JRE or SDK) 5.0_04 Java (JRE or SDK) 6.0_05 or higher
IBM AIX 6.1	PowerPC	XL C/C++ 8.0 (32-bit, 64-bit (2)) XL C/C++ 9.0 (32-bit, 64-bit (2)) XL C/C++ 10.0 (32-bit, 64-bit (2))	JDK 5, 6	Java (JRE or SDK) 5.0_04 Java (JRE or SDK) 6.0_05 or higher
Red Hat Linux WS/ES/AS 4.0 Update 2	x86, x64 (3)	GCC 3.4.4 (32-bit, 64-bit (2))	JDK 5, 6	Orbix Java services require Java SDK 5.0_11 32-bit for setup and deployment operations Java SDK 5 64-bit is supported for remaining operations in environment
Red Hat Linux 5 Update 1	x86, x64 (3)	GCC 4.1.x (32-bit, 64-bit (2))	JDK 5, 6	Orbix Java services require Java SDK 5.0_11 32-bit for setup and deployment operations Java SDK 5 64-bit is supported for remaining operations in environment

Table notes:

1. Tested against Windows Vista Business Edition.
2. 64-bit support on Java 5 only.
3. x64 includes both the AMD64 (Opteron) and EM64T (Xeon) architectures.
4. Classic IO and standard IO supported.

Java

The following issues apply to Java:

- All JDKs listed in Table 2 are 32-bit and 64-bit unless stated otherwise.
- If you want to use the IONA Administrator Web Console, you must have a JDK installed—a JRE is not sufficient.

Windows

The following Windows System32 Visual C++ Runtime DLLs are required by the Orbix runtime:

- `msvcrt.dll`
- `msvcirt.dll`
- `msvcr80.dll`
- `msvcr90.dll`
- `msvcp80.dll`
- `msvcp90.dll`

These DLLs are available for download from Microsoft.

Virtualization Requirements

Overview

Virtualization is the process of sharing the resources of a single computer across multiple environments, and thereby enabling one computer to do the job of many. Orbix 6.3.4 provides virtualization support on selected platforms.

Supported platforms for virtualization

Orbix 6.3 SP4 includes support for virtualization on the following supported platforms:

- Windows XP
- Windows Server 2003
- Windows Vista
- Windows 2008
- Red Hat Enterprise Linux

Note: Each of these platforms is supported on VMware ESX/ESXi 3.5.0.

Disk Space Requirements

Disk space

Table 3 lists the approximate amount of disk space (in MB) required to install Orbix 6.3.

Table 3: *Disk Space Requirements*

Orbix Installer	Orbix Standard Runtime (32-bit)	Orbix Standard Runtime (64-bit)	Orbix Standard Development & Runtime	Orbix Enterprise Runtime (32-bit)	Orbix Enterprise Runtime (64-bit)	Orbix Enterprise Development & Runtime
AIX (32-bit)	251	-	323	251	-	323
AIX (64-bit)	-	322	391	-	322	391
HP-UX (Itanium)	410	658	851	410	658	851
HP-UX (PA-RISC)	485	-	852	485	-	852
Linux AS 4 (gcc 34)	152	270	318	152	270	318
Solaris (SPARC)	174	302	374	174	302	374
Solaris 10 (x86, x64)	178	340	414	178	340	414
Windows 32-bit (VC6/71/8)	220	-	396	220	-	396
Windows 32-bit (VC9)	112	-	174	112	-	174
Windows 64-bit (VC8)	-	133	194	-	133	194

Table 3: *Disk Space Requirements*

Orbix Installer	Orbix Standard Runtime (32-bit)	Orbix Standard Runtime (64-bit)	Orbix Standard Development & Runtime	Orbix Enterprise Runtime (32-bit)	Orbix Enterprise Runtime (64-bit)	Orbix Enterprise Development & Runtime
Windows 64-bit (VC9)	-	117	177	-	117	177

Note: You also need an extra 10 MB for temporary work space in `%TEMP%` on Windows, and an extra 5 MB in `/tmp` on UNIX.

If the required space is not available on `/tmp`, you can set a different partition for use by InstallAnywhere by setting the environment variable `IATEMPDIR` to point to this partition, for example:
`IATEMPDIR=/local2;export IATEMPDIR`.

CHAPTER 2

Installing Orbix

Before you install Orbix 6.3, check the system requirements and familiarize yourself with the steps involved in installing the product.

In this chapter

This chapter contains the following sections:

Launching the Installer	page 14
Installing with the GUI	page 17
Installing Silently	page 21
Installing Service Packs	page 24
Configuring your Environment	page 28
Verifying the Installation	page 31
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Launching the Installer

Overview

This section explains how to launch the Orbix installer. It includes the following sections:

- Obtain the installer for your platform
- Before running the installer
- Running the installer
- Installing on UNIX
- Installation directory
- Screen resolution

Obtain the installer for your platform

Ensure that you have the appropriate Orbix installer for your platform. Table 4 shows the installer file names for each supported platform.

Table 4: *Orbix 6.3.4 Installer Files*

Platform	Orbix installer
Orbix 6.3.4 for HP-UX PA-RISC	`Orbix6.3.4_HPUX.tar`
Orbix 6.3.4 for HP-UX Itanium	`Orbix6.3.4_HPUX_ia64.tar`
Orbix 6.3.4 for IBM AIX (32-bit)	`Orbix6.3.4_AIX_32.tar`
Orbix 6.3.4 for IBM AIX (64-bit)	`Orbix6.3.4_AIX_64.tar`
Orbix 6.3.4 for Red Hat Enterprise Linux	`Orbix6.3.4_RedHatLinux.tar`
Orbix 6.3.4 for Solaris SPARC	`Orbix6.3.4_Solaris_SPARC.tar`
Orbix 6.3.4 for Solaris x86	`Orbix6.3.4_Solaris_x86.tar`
Orbix 6.3.4 for Windows (VC6 32, VC7.1 32, VC8 32-bit)	`Orbix6.3.4_Windows.zip`
Orbix 6.3.4 for Windows (VC8 64-bit)	`Orbix6.3.4_Windows_VC8_64.zip`
Orbix 6.3.4 for Windows (VC9 32-bit)	`Orbix6.3.4_Windows_VC9_32.zip`
Orbix 6.3.4 for Windows (VC9 64-bit)	`Orbix6.3.4_Windows_VC9_64.zip`

You can either download the Orbix installer, or install from a DVD. Contact technical support for details.

For full details of supported platforms and compilers, see "Operating Requirements" on page 4.

Before running the installer

For existing Orbix installations, please note the following:

- Existing installations should be backed up prior to upgrading in case of catastrophic failure (power, disk, and so on) during Orbix 6.3.4 installation.
- The Orbix 6.3.4 installer should be pointed at your existing Orbix 6.3.x directory and will automatically overwrite the existing version.

For more details on upgrading from a previous Orbix 6.3 version, see "Installing Service Packs" on page 24.

Running the installer

To run the Orbix installer file, complete the following steps:

1. Extract the installer `.zip` or `.tar` file into a temporary directory (for example, `\temp` on Windows, or `/tmp` on UNIX).
2. Run `asp.exe` or `asp` to launch InstallAnywhere.
3. Follow the instructions in "Installing with the GUI" on page 17.

Installing on UNIX

The following apply to UNIX operating systems:

- The installer is a Java application that can be run in GUI or console mode. By default, the installer runs in console mode. To run the installer in GUI mode, run the `asp` script as follows:

  ```
  ./asp -i gui
  ```

- If you are installing the product from a location other than the install DVD, copy the following items from the DVD to the same directory level:
  - The installer binary (`asp`) for your operating system, which is located in `/dvd`.
  - The channels directory for your operating system, which is located in `/dvd/channels`.

- The following files: `channels.list`, `install.xml`, `installer-options.xml`, `installer-platforms.xml`, `install.properties`, `ASP-6.3.xpd`, and the `/images` directory for your operating system, which is located in `/dvd`.

Note: The directory structure of the DVD must be preserved when copying the files. If it is not, the installer will fail.

Installation directory

When entering the pathname for your Orbix 6.3 installation, be sure to enter an absolute pathname, without wildcards. Do not use the ~ character in a UNIX pathname.

Note: Spaces in directory paths are supported on Windows only. Spaces are not supported on UNIX platforms.

WARNING: No part of Orbix should be installed on an NFS-mounted file system. All Orbix services should be run with local persistent stores.

Screen resolution

To use the Orbix 6.3 GUI, you should set your screen color depth to at least 256 colors.

Installing with the GUI

Overview

To install Orbix 6.3 on your system, run through the following screens.

Introduction

When the installer starts, an introduction screen displays information about the product.

Click **Next** to proceed.

License Agreement

When you have read through the License Agreement, select the **I accept the terms of the License Agreement** radio button, and click **Next** to proceed.

Choose Install Folder

Choose an install folder for Orbix 6.3 as follows:

Windows

The default install path is:

```
C:\Program Files\Progress
```

Note: If you are installing a 32-bit version of Orbix on Windows 64-bit, you must change the install path to `C:\Program Files (x86)\...`. On Windows 64-bit, all 32-bit applications must use this path. 64-bit versions of Orbix can use `C:\Program Files\...`.

The following table shows the recommended install paths:

	Orbix 32-bit	Orbix 64-bit
Install Path on Win64	`C:\Program Files (x86)\...`	`C:\Program Files\...`
Install Path on Win32	`C:\Program Files\...`	Not supported

UNIX

The default install path is:

```
/opt/progress/
```

Note: You must have root privileges to install to the default location on UNIX.

Click **Next** to proceed.

Choose Shortcut Location (Windows Only)

Choose a location where you want to create the Orbix 6.3 product icons.

Click **Next** to proceed.

Choose Product Edition

Choose the product edition for which you have a license. The options are:

- Standard
- Enterprise

Click **Next** to proceed.

Development and Runtime Environment

With both Standard and Enterprise, you are given the following installation options:

- **Development and Runtime** installs all Orbix 6.3 development and runtime components.
- **Runtime Only** installs Orbix 6.3 runtime components only.
- **Customize Runtime** installs Orbix 6.3 runtime components that you select.

Choose one and click **Next** to proceed.

Custom Runtime Environment Options

If you select the Customize Runtime option:

- For Standard choose the runtime environment you want to install along with the standard services you want to run.
- For Enterprise choose the runtime environment you want to install along with the standard and enterprise services you want to run.

Click **Next** to proceed.

Note: This option is deprecated and will be removed in the next release.

Choose Java virtual machine

Under Environment Settings, you are also asked to choose a Java virtual machine for use by Orbix.

Choose one and click **Next** to proceed.

Set JAVA_HOME

In addition, if `JAVA_HOME` is not set, you are asked if you want to set it. `JAVA_HOME` is required for the **Orbix Configuration** tool, `itconfigure`, to run.

If you choose not to set `JAVA_HOME`, you must set it manually later.

Click **Next** to proceed.

Environment Settings

The following option only applies to Standard and Enterprise on Windows.

You are asked to set environment variables and must choose one of the following options:

- Set the variables for all users.
- Set the variables only for the current user.
- I will set them manually later.

Note: You must have administrator privileges to set variables for all users on Windows.

Click **Next** to proceed.

Pre-Installation Summary

Review the Pre-Installation Summary

- If you are satisfied with the details, click **Install**.
- If you want to change any of the details, click **Previous**.

After installing

A browser is required when the installation completes. If the installer cannot find one it times out eventually with an error. However, the installation has completed. When the installation completes and a browser is available, a Welcome Page is automatically launched. This page contains links to the Release Notes, Tutorials and Demos, and Documentation to help you get up and running quickly. To view the Welcome Page in the future, open the `index.html` file located in the *`OrbixInstallDir`*`\asp\6.3\doc` directory in a browser.

Documentation

Orbix 6.3 documentation is available on the Orbix documentation web page at: http://web.progress.com/orbix/support/6.3.4/

The online documentation is frequently updated, so check here for the latest version of the documentation.

Installing Silently

Overview

Silent installations are installations that run without user interaction. The main advantage of this type of installation is that it allows you to automate the process of installing on more than one machine. In a normal (non-silent) installation, the installer receives necessary user input in the form of responses to questions posed in a GUI or on a console. In the case of a silent installation, you must provide this information in an `installer.properties` file. This section outlines how to install Orbix 6.3 silently and provides you with a sample `installer.properties` file. It is divided into the following subsections:

- Sample installer.properties file
- Installing silently on UNIX
- Installing silently on Windows

Sample installer.properties file

To install silently on either UNIX or Windows, you must create an `installer.properties` file as follows:

```
USER_INSTALL_DIR=$/$opt$/$progress
SHORTCUT_NAME=Progress Orbix
CHOSEN_INSTALL_SET=Enterprise Edition
CHOSEN_ENV=Development and Runtime
JDK_HOME=$/$usr$/$bin$/$jdk1.5
SET_ENV_VARS=I will set them manually later
INSTALLER_UI=silent
```

The contents of the `installer.properties` file can be explained as follows:

`USER_INSTALL_DIR`	Specifies the directory into which you want to install Orbix. The directory separator must be escaped and should be specified by using `$` and `/`. This is a prerequisite of InstallAnywhere.
`SHORTCUT_NAME`	Specifies the shortcut name that will be used for Orbix. This must be set to: `Progress Orbix`.
`CHOSEN_INSTALL_SET`	Specifies either: • `Standard Edition`; or • `Enterprise Edition`.

CHOSEN_ENV	Specifies either: • Development and Runtime; or • Runtime Only.
JDK_HOME	Specifies the JDK that you want to use with Orbix.
SET_ENV_VARS	Specifies that environment variables will be set later. This must be set to: I will set them manually later
INSTALLER_UI	Specifies a silent installation. This must be set to: silent

Note: The values shown for SHORTCUT_NAME, SET_ENV_VARS, and INSTALLER_UI must appear exactly as shown. You set the values of USER_INSTALL_DIR, CHOSEN_INSTALL_SET, CHOSEN_ENV and JDK_HOME.

Installing silently on UNIX

To install Orbix 6.3 silently on UNIX, complete the following steps:

1. Obtain the Orbix installer file (see "Obtain the installer for your platform" on page 14).
2. Extract the tar file into a temporary directory; for example, /tmp.
3. Create an installer.properties file as described in "Sample installer.properties file" on page 21.
4. If you save the installer.properties file in the same directory as the asp shell script, run the following command from that directory:

   ```
   asp -i silent
   ```
5. If you save the installer.properties file in a different location to the asp shell script, run the following command from that directory:

   ```
   asp -i silent -f "LocationOfFile"installer.properties
   ```

If you experience any problems during the installation you can view the log files located in the *OrbixInstallDir*/registory/logs directory of your installation or see "Troubleshooting" on page 34.

Installing silently on Windows

To install Orbix 6.3 silently on Windows, complete the following steps:

1. Obtain the Orbix installer file (see "Obtain the installer for your platform" on page 14).
2. Extract the zip file to a temporary directory; for example, `\temp`.
3. Create an `installer.properties` file as described in "Sample installer.properties file" on page 21.
4. If you save the `installer.properties` file in the same directory as the `asp.exe` file, run the following command from that directory:

   ```
   asp.exe -i silent
   ```
5. If you save the `installer.properties` file in a different location to the `asp.exe` file.

   ```
   asp.exe -i silent -f "locationOfFile"installer.properties
   ```

If you experience any problems during the installation you can view the log files located in the *`OrbixInstallDir`*`\registry\logs` directory of your installation or see "Troubleshooting" on page 34.

Installing Service Packs

Overview

Orbix 6.3 service packs are released periodically. These service packs provide bug fixes and enhancements for existing installations. This section includes the following topics:

- Installation instructions with an existing Orbix 6.3 installation
- Installing Orbix service packs with the GUI
- Installation instructions without an existing Orbix 6.3 installation
- Rolling back a service pack installation
- Disabling rollback

Installation instructions with an existing Orbix 6.3 installation

To install an Orbix service pack with an existing Orbix 6.3 installation, complete the following steps:

Step	Action
1	Download the service pack `.tar` file or `.zip` file that corresponds to your operating system from the Progress ESD site. The exact location and login details are available from your Progress Customer Services representative.
2	Set the environment variable `IT_PRODUCT_DIR` to point to the location where you installed Orbix 6.3.
3	Unzip/untar the service pack `.zip/.tar` to a `temp` directory. **Note:** This `temp` directory should not be part of the existing Orbix 6.3 installation directory structure.

Step	Action
4	When updating an existing installation you have the option to update your installation with the rollback facility enabled. The rollback facility enables you to revert to the Orbix installation that existed on your machine prior to installing the service pack. Your options are: • If you want to enable the rollback facility, run the `updater` command from the `temp` directory to update your installation. • If you do not want to enable the rollback facility, run `asp.exe` or `asp` to launch the Orbix installer and follow the instructions in Installing Orbix service packs with the GUI.

Installing Orbix service packs with the GUI

To update your Orbix installation using the Orbix service pack GUI installer, run `asp.exe` or `asp` to launch the installer and proceed through the following screens:

1. When the installer starts, an Introduction screen displays information about the product. Click **Next** to proceed.
2. The License Agreement screen appears. When you have read through the License Agreement, select the "**I accept the terms of the License Agreement**" radio button, and click **Next** to proceed.
3. The Choose Install Folder screen appears. Choose your existing Orbix 6.3 installation folder. The default Orbix 6.3 installation folder locations are:

   Windows

   ```
   C:\Program Files\Progress
   ```

   UNIX

   ```
   /opt/progress/
   ```

   Click **Next** to proceed.

4. The Reminder screen appears. You will be reminded that the GUI installer does not support rollback. If you want to enable the rollback facility, cancel out of the GUI installer and use the `updater` script to update your installation (see "Installation instructions with an existing Orbix 6.3 installation" on page 24 for more detail). If you do not want to use the rollback facility, click **Next** to proceed.
5. The Pre-Installation Summary Review screen appears:
   - If you are satisfied with the details, click **Install**.
   - If you want to change any of the details, click **Previous**.

Installation instructions without an existing Orbix 6.3 installation

If you do not already have Orbix 6.3 installed on your machine, the service pack installer will install it for you. You do not have to download and install Orbix 6.3 before installing the service pack.

To install Orbix 6.3 and the service pack you require, complete the following steps:

Step	Action
1	Download the service pack `.tar` file or `.zip` file that corresponds to your operating system from the Progress ESD site. The exact location and login details are available from your Progress Customer Services representative.
2	Unzip/untar the service pack `.zip/.tar` to a `temp` directory.
3	Run `asp.exe` or `asp` to launch InstallAnywhere. Follow the instructions in "Installing with the GUI" on page 17.

Note: If, however, you are installing Orbix 6.3 and Orbix 6.3 Service Pack 1 in the same directory as Artix, you must install Orbix 6.3 first, followed by the service pack.

Rolling back a service pack installation

If you enabled the rollback facility when installing the Orbix update (see "Installation instructions with an existing Orbix 6.3 installation" on page 24 for more detail), you can rollback your installation to the Orbix installation that existed on your machine prior to installing the service pack.

To rollback an installation, enter the following command:

```
OrbixInstallDir\asp\6.3\bin\xt rollback
```

Disabling rollback

When applying the service pack, you can disable rollback by either:

- Passing the `-nr` parameter to the service pack `updater` on the command line; for example:

  ```
  temp\updater -nr
  ```

- Using the GUI installer to update your Orbix installation. The rollback facility is not supported in the GUI installer. See "Installing Orbix service packs with the GUI" on page 25 for more detail.

Disabling rollback reduces the amount of disk space required for installation (for example, about 100 MB on Windows). Rollback backs up the files affected by the updater. These backup files are stored in the installation registry. If rollback is disabled, it will not back up these files.

Configuring your Environment

Overview

To start using Orbix 6.3, you need to configure a domain and set up the environment for Orbix 6.3. This section provides a brief overview of how to use the **Orbix Configuration** tool, `itconfigure`, to do this. It includes the following:

- Orbix 6.3 license
- Using the Orbix Configuration tool

For more detail on configuring your Orbix 6.3 environment, see the Orbix Deployment Guide.

Orbix 6.3 license

You need a valid license file to start using Orbix 6.3. An e-mail with a `licenses.txt` file attached is sent to you when you receive the product. You should copy this `licenses.txt` file to a desired location, and set the environment variable `IT_LICENSE_FILE` to point to the location of your `licenses.txt` file.

Alternatively, launch the **Orbix Configuration** tool and you will be prompted for the location of your license file. For more detail on licensing your Orbix 6.3 environment, see the Orbix Deployment Guide.

Using the Orbix Configuration tool

To configure Orbix 6.3 using the **Orbix Configuration** tool, complete the following steps:

1. Set the environment variable `IT_PRODUCT_DIR` to point to the location where you installed the product.
2. Change directory to the following location:

   Windows

   OrbixInstallDir\asp\6.3\bin

   UNIX

   OrbixInstallDir/asp/6.3/bin
3. Run `itconfigure`. This launches the **Orbix Configuration** tool.

4. If you have not set the environment variable `IT_LICENSE_FILE` before running `itconfigure`, the **Orbix Configuration** tool prompts you for the location where you saved your `licenses.txt` file. Click the **Browse** button and enter the location where you saved your `licenses.txt` file. Then click **OK**. The **Orbix Configuration** tool will install your `license.txt` file into the default license location; that is:

   OrbixInstallDir`/etc/licenses.txt`.

   If you do not want to install the license file into the default license location, click **Cancel**, and set the environment variable `IT_LICENSE_FILE` to point to the location where your `licenses.txt` file is saved. Then run `itconfigure` again.

5. The **Orbix Configuration** tool prompts you for a unique domain name, a base port number to allocate the TCP/IP ports required by the services, the services you want to run, the communication protocol, as well as the number of replica servers (if any) you want to run.

   Note: When creating a new configuration domain, ensure that your base port number selection does not conflict with other users on your system.

6. When you have worked through all the screens, the **Orbix Configuration** tool creates a domain configuration file and domain environment scripts. Change directory to the location in which these scripts are created; that is:

   Windows

   OrbixInstallDir`\etc\bin`

   UNIX

   Your domain configuration scripts are created in one of the following locations, in this order:

   i. `etc/opt/progress/bin` if it is writable.

   ii. *OrbixInstallDir*`/etc/bin` if it is writable.

   iii. `$HOME/etc/bin`

7. Set the environment variables necessary for Orbix 6.3 as follows:

   Windows

   Run the following environment script:

   *domain-name*_env.bat

   UNIX

   Source the following environment script:

   *domain-name*_env

8. Start the Orbix services by running the start_*domain-name*_services command, which is located in *OrbixInstallDir*/etc/bin/.

Verifying the Installation

Code examples

Orbix 6.3 is installed with a number of code examples that demonstrate the use of specific features of the product. Each code example comes with documentation that explains what the code example does and how to run it. This documentation can be accessed in the `index.html` file in the `demos` directory of your installation.

Testing a CORBA development installation

To ensure that your Orbix 6.3 development installation is fully operational, run the simple demo located in the *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb` directory. Further details on running the simple demo can be found in the `README_CXX.txt` and `README_JAVA.txt` files in the *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb` directory.

Running the CORBA C++ Simple demo

To run the CORBA C++ simple demo, complete the following steps:

1. In a command prompt (with the Orbix 6.3 environment set), change directory to the `demos/corba/orb/simple` directory as follows:

OS	Type this:
UNIX	`cd` *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb/simple`
Windows	`cd` *`OrbixInstallDir`*`\asp\6.3\demos\corba\orb\simple`

2. Build the C++ programs:

OS	Type this:
UNIX	`make -e`
Windows	`nmake -e`

Note: The makefile assumes the default installation path. If you install the product elsewhere, you need to set the `IT_PRODUCT_DIR` environment variable to point to your installation, then use `make -e` (or its equivalent) to override make variables with the corresponding environment variables.

3. Start the server:

```
cd cxx_server
server
```

4. Open another command prompt and start the client:

```
cd cxx_client
client
```

5. The client should return `Done` and then stop. The server must be stopped manually.

Running the CORBA Java Simple demo

To run the CORBA Java simple demo, complete the following steps:

1. Set `JAVA_HOME` to point to your JDK and set `JAVA_HOME/bin` in your `PATH`.
2. In a command prompt (with the Orbix 6.3 environment set), change directory to the `demos\corba\orb\simple` directory as follows:

OS	Type this:
UNIX	`cd` *`OrbixInstallDir`*`/asp/6.3/demos/corba/orb/simple`
Windows	`cd` *`OrbixInstallDir`*`\asp\6.3\demos\corba\orb\simple`

3. Build the Java programs as follows:

```
itant
```

> **Note:** Add the following to your Java command line:
> `-Djava.endorsed.dirs="<IT_PRODUCT_DIR>\lib\art\omg\1.3"`

4. Start the server as follows:

Windows

```
java -classpath .\java\classes;"%CLASSPATH%" simple.Server
```

UNIX

```
java -classpath ./java/classes:"$CLASSPATH" simple.Server
```

5. Open another command prompt and start the client as follows:

   Windows

   ```
   java -classpath .\java\classes;"%CLASSPATH%" simple.Client
   ```

   UNIX

   ```
   java -classpath ./java/classes:"$CLASSPATH" simple.Client
   ```

6. The client should return `Done` and then stop. The server must be stopped manually.

The Orbix 6.3 ORB classes are used instead of the Sun classes, by setting the following properties in the demo code:

```
org.omg.CORBA.ORBClass=com.iona.corba.art.artimpl.ORBImpl
org.omg.CORBA.ORBSingletonClass=com.iona.corba.art.artimpl.ORBSi
   ngleton
```

Troubleshooting

Debug window

To view debug output from an installer:

Windows

Hold down the CTRL key immediately after launching the installer until a console window appears.

UNIX

1. Change directory to the directory where you copied the `asp` installer.
2. Run the following command:

```
touch ia_debug
```

Installing the Orbix Visual Studio Wizards

In some cases, the Orbix Visual Studio wizards will not be automatically installed by the installer (for example, if you do not have the relevant version of Visual Studio installed on your machine when running the installer). To manually install the various Orbix Visual Studio wizards, follow the instructions outlined below.

Orbix wizard for Visual C++ 6.0

To manually install the Orbix Client/Server Wizard for Visual C++ 6.0:

1. Open a command prompt.
2. Change directory to *`OrbixInstallDir`*`\asp\6.3\etc\wizard`.
3. Run `setup.exe`.

Orbix wizard for Visual Studio .NET 2003

To manually install the Orbix Client/Server Wizard for Visual Studio .NET 2003 (7.1):

1. Open a command prompt.
2. Change directory to *`OrbixInstallDir`*`\asp\6.3\etc\wizard\vc71`
3. Run `installvc7wiz.bat` supplying the current directory "." as the first parameter, and the location of your Visual Studio .NET 2003 (7.1) installation as the second parameter; for example:

```
>installvc7wiz . "C:\Program Files\Microsoft Visual Studio .NET
   2003\Vc7"
```

Further Information

Documentation web site	Orbix 6.3 documentation is available to browse and to download on the documentation web page at: http://web.progress.com/orbix/support/6.3.4/ This documentation is frequently updated, so check here for the latest version of the documentation.
Release Notes	See the Release Notes at: http://web.progress.com/orbix/support/6.3.4/
Internationalization	If you plan to deploy a CORBA ORB in C or C++ to handle characters other than Latin-1 (English, French, German, and other Western European languages), then some further configuration is required. Please refer to the Orbix Internationalization Guide for more information.
Support	Contact Orbix technical support at: http://web.progress.com/orbix/orbix-support.html

CHAPTER 3

Uninstalling Orbix

Orbix comes with an automatic uninstaller tool. Before uninstalling Orbix 6.3, you should remove any domains created.

In this chapter

This chapter contains the following sections:

Uninstalling on Windows	page 38
Uninstalling on UNIX	page 39

Uninstalling on Windows

Overview

To uninstall Orbix 6.3 on Windows:

1. Go to Select **Start** | **Settings** | **Control Panel** | **Add/Remove Programs**
2. Select Orbix 6.3.

Alternatively, from a command prompt, run the following:

```
OrbixInstallDir\asp\6.3\etc\installer\uninstaller\Orbix 6.3.exe
```

This may leave some files behind, which must be removed manually.

3. Remove any environment variables that might still be set, such as `IT_LICENSE_FILE`, `IT_PRODUCT_DIR`, `IT_CONFIG_DIR`, and any CORBA entries in your `PATH`.

   For details of all CORBA environment variables, see the Orbix Administrator's Guide.

Uninstalling on UNIX

Overview

To uninstall Orbix 6.3 on UNIX:

1. Run the uninstall script:

```
OrbixInstallDir/asp/6.3/etc/installer/uninstaller/uninstall
```

   You must manually remove the directory:

   `OrbixInstallDir/asp/6.3/etc/installer/uninstaller/`

   The uninstaller may leave some files behind, which must be removed manually.

2. Remove:
   - Any environment variables that you set, such as `IT_LICENSE_FILE`, `IT_PRODUCT_DIR`, `IT_CONFIG_DIR`,
   - Any CORBA entries in your `PATH` and `CLASSPATH` and associated library variables (`SHLIB_PATH`, `LD_LIBRARY_PATH`, and so on).
   - Any configuration domains, especially those with “start on boot” services.

   For details of all CORBA environment variables, see the Orbix Administrator’s Guide.