

# PROGRESS<sup>®</sup> ORBIX<sup>®</sup>

## Installation Guide

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#### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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#### THE C++ WRAPPER FUNCTIONS

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# Installation Prerequisites

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

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**In this chapter**

This chapter contains the following sections:

<a href="#">Before You Begin</a>	<a href="#">page 2</a>
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<a href="#">Virtualization Requirements</a>	<a href="#">page 8</a>
<a href="#">Disk Space Requirements</a>	<a href="#">page 9</a>

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# Before You Begin

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## See the Release Notes

Before installing, visit the documentation web page at: <http://communities.progress.com/pcom/docs/DOC-105215>, and read the *Release Notes* to check for updates to this *Installation Guide*.

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## 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.

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## 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://communities.progress.com/pcom/docs/DOC-105215>

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

**Table 1:** *Microsoft VC and Visual Studio Names*

VC Name	Visual Studio Edition	Version Output by cl.exe
VC10	Visual Studio 2010	16.x.x

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**Orbix COMet requirements**

Orbix COMet is only supported with Microsoft Visual Studio 6.0. Orbix COMet does not support newer Visual Studio compiler versions, and works only with Visual Studio C++ 6.0.

# 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](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	x86	Visual Studio 6 (VC6) (32-bit) Visual Studio .NET 2003 (VC71) (32-bit) Visual Studio 2005 (VC8) (32-bit) Visual Studio 2008 (VC9) (32-bit) Visual Studio 2010 (VC10) (32-bit)	JDK 6 (32-bit)	C++ runtime JDK 1.6.0_25
Windows XP x64 Edition	x86_64	Visual Studio 2008 (VC9) (64-bit) Visual Studio 2010 (VC10) (64-bit)	JDK 6 (64-bit)	C++ runtime, JDK 1.6.0_25
Windows Server 2003	x86	Visual Studio 6 (VC6) (32-bit), Visual Studio .NET 2003 (VC71) (32-bit) Visual Studio 2005 (VC8) (32-bit) Visual Studio 2008 (VC9) (32-bit)	JDK 6 (32-bit)	C++ runtime, JDK 1.6.0_25

**Table 2:** *Supported Platforms and Compilers*

<b>Operating System</b>	<b>Hardware</b>	<b>C++ Compiler</b>	<b>JDK</b>	<b>OS Patches, C++/JRE</b>
Windows Server 2003	x86_64	Visual Studio 2005 (VC8) Visual Studio 2008 (VC9)	JDK 6 (64-bit)	C++ runtime, JDK 1.6.0_25
Windows Vista	x86	Visual Studio 2005 (VC8) (32-bit) Visual Studio 2008 (VC9) (32-bit)	JDK 6 (32-bit)	C++ runtime, JDK 1.6.0_25
Windows Vista x64 Edition	x86_64	Visual Studio 2005 (VC8) (64-bit) Visual Studio 2008 (VC9) (64-bit)	JDK 6 (64-bit)	C++ runtime, JDK 1.6.0_25
Windows Server 2008	x86	Visual Studio 2005 (VC8) (32-bit) Visual Studio 2008 (VC9) (32-bit)	JDK 6 (32-bit)	C++ runtime, JDK 1.6.0_25
Windows Server 2008 x64 Edition	x86_64	Visual Studio 2005 (VC8) (64-bit) Visual Studio 2008 (VC9) (64-bit)	JDK 6 (64-bit)	C++ runtime, JDK 1.6.0_25
Windows Server 2008 R2 x64 Edition	x86_64	Visual Studio 2008 (VC9) (64-bit) Visual Studio 2010 (VC10) (64-bit)	JDK 6 (64-bit)	C++ runtime, JDK 1.6.0_25
Windows 7	x86	Visual Studio 2008 (VC9) (32-bit) Visual Studio 2010 (VC10) (32-bit)	JDK 6 (32-bit)	C++ runtime, JDK 1.6.0_25
Windows 7	x86_64	Visual Studio 2008 (VC9) (64-bit) Visual Studio 2010 (VC10) (64-bit)	JDK 6 (64-bit)	C++ runtime, JDK 1.6.0_25

**Table 2:** *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
Red Hat Enterprise Linux 5	x86_64	GCC 4.1 (32-bit, 64-bit)	JDK 6 (32-bit, 64-bit)	Orbix Java services require 32-bit JDK for setup and deployment operations. 64-bit JDK is supported for remaining operations in environment.
Solaris 10 x86_64	x86_64	Sun Studio 12 Update 2 (32-bit, 64-bit)	JDK 6 (32-bit, 64-bit)	118345-12 SunOS 5.10_x86: ld and libc.so.1, 119689-06 libc.so.1
Solaris 10 SPARC	SPARC	Sun Studio 11, Sun Studio 12 Update 2 (32-bit, 64-bit)	JDK 6 (32-bit, 64-bit)	119689-06 libc.so.1
HP-UX 11i v1	PA-RISC	aC++ A.03.7x (32-bit, 64-bit)	HP - 6 (32-bit, 64-bit)	JDK 1.6.0_07, PHSS_25170: aCC runtime, PHSS_24627: aCC runtime, PHSS_21075: varargs.h and +DA2.0W, PHSS_23699: libcl, PHSS_24303: dld, PHCO_24148: libc
HP-UX 11i v2	PA-RISC	aC++ A.03.7x (32-bit, 64-bit)	HP - 6 (32-bit, 64-bit)	JDK 1.6.0_07, 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
HP-UX 11i v2	Itanium	aC++ A.06.2x (32-bit, 64-bit)	HP - 6 (32-bit, 64-bit)	JDK 1.6.0_07
HP-UX 11i v3	Itanium	aC++ A.06.2x (32-bit, 64-bit)	HP - 6 (32-bit, 64-bit)	JDK 1.6.0_07



**Table 2:** *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
AIX 5.3	PowerPC	XL C++ 9 (32-bit)	IBM - 6 (32-bit)	JDK 1.6.0_05
AIX 5.3	PowerPC	XL C++ 9 (64-bit)	IBM - 6 (64-bit)	JDK 1.6.0_05
AIX 6.1	PowerPC	XL C++ 9 (32-bit), XL C++ 10 (32-bit)	IBM - 6 (32-bit)	JDK 1.6.0_05
AIX 6.1	PowerPC	XL C++ 9 (64-bit), XL C++ 10 (64-bit)	IBM - 6 (64-bit)	JDK 1.6.0_05

**Java**

The following issues apply to Java:

- 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`
- `msvc80.dll`
- `msvc90.dll`
- `msvcr100.dll`
- `msvc100.dll`

These DLLs are available for download from Microsoft.

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# Virtualization Requirements

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## 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 6.3.5 provides virtualization support on selected platforms.

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## Supported platforms for virtualization

Orbix 6.3.5 includes support for virtualization on the following supported platforms:

- Windows XP
- Windows Server 2003
- Windows Vista
- Windows Server 2008
- Windows Server 2008 R2
- Windows 7
- Red Hat Enterprise Linux

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

Orbix 6.3.5 includes support for virtualization on Red Hat 5 KVM.

# 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
Windows 32-bit (VC10)	112	-	170	113	-	170
Windows 64-bit (VC10)	-	110	169	-	110	169

**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.

# 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 12
Installing with the GUI	page 15
Installing Silently	page 19
Installing Service Packs	page 22
Configuring your Environment	page 25
Verifying the Installation	page 28
Troubleshooting	page 31
Further Information	page 33

# 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 6.3.5 Installer Files*

Platform	Orbix installer
Orbix 6.3.5 for AIX (32-bit)	PROGRESS_ORBIX_6.3.5_AIX_32.tar.gz
Orbix 6.3.5 for AIX (64-bit)	PROGRESS_ORBIX_6.3.5_AIX_64.tar.gz
Orbix 6.3.5 for HP-UX PA-RISC	PROGRESS_ORBIX_6.3.5_HPUX.tar.gz
Orbix 6.3.5 for HP-UX Itanium	PROGRESS_ORBIX_6.3.5_HPUX_64_IA.tar.gz
Orbix 6.3.5 for Red Hat Enterprise Linux	PROGRESS_ORBIX_6.3.5_LNX.tar.gz
Orbix 6.3.5 for Windows (VC6 32, VC7.1 32, VC8 32-bit)	PROGRESS_ORBIX_6.3.5_WIN.exe
Orbix 6.3.5 for Windows (VC9 32-bit)	PROGRESS_ORBIX_6.3.5_WIN_32_VC9.exe
Orbix 6.3.5 for Windows (VC10 32-bit)	PROGRESS_ORBIX_6.3.5_WIN_32_VC10.exe
Orbix 6.3.5 for Windows (VC8 64-bit)	PROGRESS_ORBIX_6.3.5_WIN_64_VC8.exe
Orbix 6.3.5 for Windows (VC9 64-bit)	PROGRESS_ORBIX_6.3.5_WIN_64_VC9.exe
Orbix 6.3.5 for Windows (VC10 64-bit)	PROGRESS_ORBIX_6.3.5_WIN_64_VC10.exe

**Table 4:** *Orbix 6.3.5 Installer Files*

Platform	Orbix installer
Orbix 6.3.5 for Solaris SPARC	PROGRESS_ORBIX_6.3.5_SOL.tar.gz
Orbix 6.3.5 for Solaris x86	PROGRESS_ORBIX_6.3.5_SOL_X86.tar.gz

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 6.3.5 installation.
- The Orbix 6.3.5 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 22](#).

### Running the installer

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

1. Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX).
  - i. On Windows, double-click the self-extracting executable installer file, select the temporary directory in which you want to extract the files, and then click Unzip.
  - ii. On UNIX, gunzip and untar the installer tarball file.
2. Run `asp.exe` or `asp` to launch InstallAnywhere.
3. Follow the instructions in [“Installing with the GUI” on page 15](#).

---

## 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, then the installer fails.

---

## 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
<b>Install Path on Win64</b>	C:\Program Files (x86)\...	C:\Program Files\...
<b>Install Path on Win32</b>	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 prompted 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://communities.progress.com/pcom/docs/DOC-105215>

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:

<code>USER_INSTALL_DIR</code>	Specifies the directory into which you want to install Orbix. The directory separator must be escaped and should be specified by using <code>\$</code> and <code>.</code> . This is a prerequisite of <code>InstallAnywhere</code> .
<code>SHORTCUT_NAME</code>	Specifies the shortcut name that will be used for Orbix. This must be set to: <code>Progress Orbix</code> .
<code>CHOSEN_INSTALL_SET</code>	Specifies either: <ul style="list-style-type: none"><li>• Standard Edition; or</li><li>• Enterprise Edition.</li></ul>

CHOSEN_ENV	Specifies either: <ul style="list-style-type: none"> <li>• Development and Runtime; Or</li> <li>• Runtime Only.</li> </ul>
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 12](#)).
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 19](#).
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/registry/logs` directory of your installation or see [“Troubleshooting” on page 31](#).

## 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 12](#)).
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 19](#).

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 31](#).

# 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](#)
- [Installation instructions without an existing Orbix 6.3 installation](#)
- [Rolling back a service pack installation](#)

## 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.gz file or .exe file that corresponds to your operating system from the Progress ESD site.
2	<p>Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX).</p> <ul style="list-style-type: none"> <li>• On Windows, double click the self-extracting executable installer file, select the temporary directory to extract to, and then click Unzip.</li> <li>• On UNIX, gunzip and untar the installer tarball file.</li> </ul> <p><b>Note:</b> This <code>temp</code> directory should not be part of the existing Orbix 6.3 installation directory structure.</p>
3	<p>When updating an existing installation, the installer first backs up your existing Orbix installation into a rollback directory before installing Orbix 6.3.5.</p> <p>The rollback directory is placed within the registry subdirectory:  <code>OrbixInstallDir\registry\rollback&lt;NUMERIC_ID&gt;</code></p> <p>To update an existing installation, run <code>asp.exe</code> or <code>asp</code> to launch the Orbix installer and follow the instructions in <a href="#">“Installing with the GUI” on page 15</a> or <a href="#">“Installing Silently” on page 19</a>.</p>



### 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.gz file or .exe file that corresponds to your operating system from the Progress ESD site.
2	Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX). <ul style="list-style-type: none"> <li>On Windows, double click the self-extracting executable installer file, select the temporary directory to extract to, and then click Unzip.</li> <li>On UNIX, gunzip and untar the installer tarball file.</li> </ul>
3	Run <code>asp.exe</code> or <code>asp</code> to launch InstallAnywhere. Follow the instructions in <a href="#">“Installing with the GUI” on page 15</a> .

**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

To roll back your installation to the Orbix installation that existed on your machine prior to installing this service pack, do the following steps:

Step	Action
1	Remove the following directories from the <i>OrbixInstallDir</i> directory: <ul style="list-style-type: none"> <li>On Windows, remove the asp, bin, lib, and registry directories.</li> <li>On UNIX, remove the asp, shlib, lib, and registry directories.</li> </ul>

Step	Action
2	Move the contents of the <i>OrbixInstallDir\registry\rollback&lt;NUMERIC_ID&gt;</i> to the <i>OrbixInstallDir\</i> directory.

---

# 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	<code>cd OrbixInstallDir/asp/6.3/demos/corba/orb/simple</code>
Windows	<code>cd OrbixInstallDir\asp\6.3\demos\corba\orb\simple</code>

2. Build the C++ programs:

OS	Type this:
UNIX	<code>make -e</code>
Windows	<code>nmake -e</code>

**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 <i>OrbixInstallDir</i> /asp/6.3/demos/corba/orb/simple
Windows	cd <i>OrbixInstallDir</i> \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.ionacorbart.artimpl.ORBImpl
org.omg.CORBA.ORBSingletonClass=com.ionacorbart.artimpl.ORBSingleton
```



---

# 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). The Orbix Visual Studio Wizards are only available for Visual Studio 6.0 and Visual Studio .Net 2003. 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://communities.progress.com/pcom/docs/DOC-105215>

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

---

## Release Notes

See the Release Notes at:

<http://communities.progress.com/pcom/docs/DOC-105215>

---

## 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>



# 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:

<a href="#">Uninstalling on Windows</a>	<a href="#">page 36</a>
<a href="#">Uninstalling on UNIX</a>	<a href="#">page 37</a>

---

# 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](#)

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# Uninstalling on UNIX

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## Overview

To uninstall Orbix 6.3 on UNIX:

1. Run the uninstall script:

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

2. Remove the directory manually:

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

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

3. 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](#).

