



Orbix® 3.3

Core Services Installation Guide

Service Pack 10, March 2009

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Installing Orbix 3.3 SP 10 Core Services

This document provides instructions for installing Orbix 3.3 SP 10 Core Services on Microsoft Windows, Red Hat Enterprise Linux, Sun Solaris, IBM AIX, and HP-UX. For details of installing Orbix 3.3 SP 10 on other platforms, see the Orbix 3.3 SP 10 Installation Guide.

In this document

This chapter discusses the following topics:

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Introduction

Introduction

Orbix 3.3 SP 10 Core Services includes Orbix Java Edition, Orbix C++ Edition, and OrbixNames. Orbix 3.3 SP 10 Core Services is available on the following platforms:

- Windows XP
- Windows 2003 Server
- Windows Vista
- Windows 2008 Server
- Red Hat Enterprise Linux 4
- Solaris 9
- Solaris 10
- AIX 5.3
- AIX 6.1
- HP-UX Itanium

Note: For details of installing Orbix 3.3 SP 10 on other platforms, see the *Orbix 3.3 SP 10 Installation Guide*.

Product components

Orbix 3.3 SP 10 Core Services is comprised of the following:

- Development platform for Java
- Development platform for C++
- OrbixNames

The full Orbix product includes additional components such as OrbixOTS, Orbix WonderWall, Orbix COMet, Orbix Code Generation Toolkit, and OrbixEvents. For more details, see the *Orbix 3.3 SP 10 Release Notes*.

JRE requirements

The Orbix 3.3 SP 10 installation was built with InstallAnywhere, which is a Java application. The installer requires a JRE (Java Runtime Environment). You should provide the JRE yourself (see [“Installation prerequisites” on page 5](#)), or use a pre-installed JRE or JDK before launching the installer.

Installation steps

To install Orbix 3.3 SP 10, perform the following steps:

- Determine your installation type.
 - Check the prerequisites for installing Orbix 3.3 SP 10.
 - Install Orbix 3.3 SP 10 on your host machine.
 - Verify your installation.
-

Before you begin your installation

Before installing Orbix 3.3 SP 10, it is recommended that you read the *Orbix 3.3 SP 10 Release Notes*.

Note: Orbix 3.3 SP 10 cannot be installed on machines that do not support 256 (8 bit) colors. This is because the Orbix installer is built on the Java platform, which does not support 16 colors.

Note: When installing Orbix 3.3 SP 10 using PCAnywhere (over a remote client), the display resolution must be of type VGA (640 x 480).

Orbix 3.3 SP 10 license codes

You must have a valid license code to install Orbix 3.3 SP 10 Java Edition, Orbix 3.3 SP 10 C++ Edition, and OrbixNames. The code is a long numeric string taking the general form:

```
00000000-11111111-22222222-33333333-44444444
```

Your license code should be included in a loose sheet in your Orbix 3.3 SP 10 pack. Otherwise, as Orbix 3.3 SP 10 is a service pack release of Orbix 3.3, the license codes provided for Orbix 3.3 are valid for Orbix 3.3 SP 10. If you do not have any license codes, please contact Support before proceeding any further.

Determine your installation type

Orbix 3.3 SP 10 comprises two product sets:

- Orbix 3.3 SP 10 Java Edition
- Orbix 3.3 SP 10 C++ Edition

You can purchase the Java Edition and the C++ Edition separately or together.

| Component | Java Edition | C++ Edition |
|-------------------------------|--------------|-------------|
| Development Platform for Java | Enabled | - |
| Development Platform for C++ | - | Enabled |

Prerequisites to Installing Orbix 3.3 SP 10

Existing Orbix installations

If you install Orbix 3.3 SP 10 in the same location as an existing Orbix installation, the existing installation is overwritten. If you have an older version of Orbix on your system and you do not want it overwritten, you should install Orbix 3.3 SP 10 in a new location on your file system.

Installation prerequisites

The installation prerequisites are as follows:

| Prerequisite | Notes |
|--------------|--|
| Privileges | <p>General</p> <p>To install in a non-default location, you must have permission to create files and directories in that location.</p> <p>UNIX</p> <p>To install into the default location, UNIX users must have root privileges.</p> |
| UNIX DISPLAY | <p>The installer was built using InstallAnywhere, which is a GUI application. To install without the GUI, see “Installing Orbix 3.3 SP 10 without the GUI” on page 12.</p> <p>For a GUI application to run on UNIX, you need to install on a UNIX host with X and a windowing environment configured. Ensure your display environment variable is set to the workstation you are logged into. For example, set the following environment variable, substituting the full Domain Name System (DNS) name of your workstation for <code>imaginary.dublin.mycorp.ie</code>:</p> <pre>export DISPLAY=imaginary.dublin.mycorp.ie:0.0</pre> <p>Contact your system administrator if you require assistance.</p> |

| Prerequisite | Notes |
|--------------|---|
| JRE | <p>The installer was built using InstallAnywhere, which is a Java application, and requires a JRE (Java Runtime Environment). You must provide the location of the JRE for the installation to run.</p> <p>You need access on all platforms to an existing JRE (or JDK) version 1.5.0 or higher. Alternatively, you should obtain and install the JRE yourself on your system before running the installer. When installing a JRE, install all required patches on all platforms.</p> |
| Domain name | <p>The installer requires your domain name for Orbix 3.3 SP 10 configuration. The Domain Name System (DNS) to resolve Internet or UNIX computer names. Contact your network administrator to obtain the domain name for your TCP/IP internet prior to installing Orbix 3.3 SP 10.</p> |

CD-ROM location of installers

The Orbix 3.3 Core services SP 10 installers on the CD-ROM are located in a specific directory for each platform. Browse the CD-ROM to find the installer for your platform. For example, the installer for Red Hat Enterprise Linux 4 is located in the following directory:

```
/cdrom/RHLINUX4/install.bin
```

Mounting the CD-ROM

The following example commands can be used to mount the CD-ROM:

| Platform | Command |
|----------|--|
| Windows | No command required |
| Linux | <code>mount -t iso9660 /dev/cdrom /cdrom</code> |
| Solaris | <code>mount -r -F hsfs /dev/c0t0d0s2 /cdrom</code> |
| AIX | <code>mount -o ro -v cdrfs /dev/cd0 /cdrom</code> |
| HP-UX | <code>mount -t cdrfs -o cdcase /dev/dsk/c3t2d0 /cdrom</code> |

The commands used to mount the CD-ROM will vary depending on your system configuration. For example, `/cdrom` might need to be replaced with a different mount point. Contact your system administrator if you require assistance.

In addition, you can simplify this process using tools such as `vold` on Solaris and Linux, or `smitty` on AIX.

Operating systems and compilers

Table 1 shows the operating systems and compilers supported by Orbix 3.3 SP 10 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

Table 1: *Supported Platforms and Compilers*

| Operating System | Hardware | C++ Compiler | JDK | OS Patches, C++/JRE |
|--|----------|-----------------------------------|-------------------|--|
| Windows XP | x86/x64 | Visual Studio 2003, 2005 (32-bit) | JDK 5, 6 (32-bit) | Windows XP SP2 |
| Windows 2003 Server Standard Edition | x86/x64 | Visual Studio 2003, 2005 (32-bit) | JDK 5, 6 (32-bit) | Windows 2003 Server Standard Edition SP1 |
| Windows 2003 Server Enterprise x64 Edition | x64 | Visual Studio 2005 (64-bit) | JDK 5, 6 (64-bit) | Windows 2003 Server Enterprise x64 Edition SP1 |
| Windows Vista | x86/x64 | Visual Studio 2005 (32-bit) | JDK 6 (32-bit) | |
| Windows Vista Ultimate x64 Edition | x64 | Visual Studio 2005 (64-bit) | JDK 5, 6 (64-bit) | |
| Windows 2008 Server | x86/x64 | Visual Studio 2005 (32-bit) | JDK 6 (32-bit) | Windows 2008 Server SP1 |
| Windows 2008 Server x64 Edition | x64 | Visual Studio 2005 (64-bit) | JDK 6 (64-bit) | Windows 2008 Server x64 Edition SP1 |

Table 1: *Supported Platforms and Compilers*

| Operating System | Hardware | C++ Compiler | JDK | OS Patches, C++/JRE |
|------------------------|----------|-------------------------------|---------------------------|---|
| Red Hat Linux ES 4.0 | x86/x64 | GCC 3.4.x (32-bit) | JDK 5, 6 (32-bit, 64-bit) | <p>Linux patches can be displayed using the following commands:</p> <p>Linux kernel:</p> <p>Command: <code>rpm -q kernel</code> Required version: <code>kernel-2.6.9-42.0.10.EL</code></p> <p>GCC 3.4.6 runtime and development environment:</p> <p>Command: <code>rpm -q gcc</code> Required version: <code>gcc-3.4.6-3.1</code></p> <p>Command: <code>rpm -q gcc-c++</code> Required version: <code>gcc-c++-3.4.6-3.1</code></p> <p>Command: <code>rpm -q libstdc++</code> Required version: <code>libstdc++-3.4.6-3.1</code></p> <p>Command: <code>rpm -q libgcc</code> Required version: <code>libgcc-3.4.6-3.1</code></p> <p>Command: <code>rpm -q binutils</code> Required version: <code>binutils-2.15.92.0.2-21</code></p> <p>Note: Update to the latest packages using the Red Hat Update Agent by typing the command <code>up2date</code> from a shell prompt.</p> |
| Solaris 9 ^a | SPARC | Sun Studio 8 (32-bit, 64-bit) | JDK 5, 6 (32-bit) | <p>112963-03: SunOS 5.9: linker patch</p> <p>111711-01: 32-bit Shared library patch for C++</p> <p>111712-01: 64-bit Shared library patch for C++</p> <p>112661-02: SunOS 5.9: IIIM and X Input & Output Method patch</p> <p>112785-09: X11 6.6.1: Xsun patch</p> |

Table 1: *Supported Platforms and Compilers*

| Operating System | Hardware | C++ Compiler | JDK | OS Patches, C++/JRE |
|-------------------------|----------|---------------------------------------|---------------------------------|---|
| Solaris 10 ^b | SPARC | Sun Studio 11, 12 (32-bit, 64-bit) | JDK 5, 6 (32-bit, 64-bit) | Base level patches |
| Solaris 10 | x86/x64 | Sun Studio 12 (32-bit) | JDK 5, 6 (32-bit) | Solaris 10 10/08 s10x_u6wos_07b x86 operating system Sun C++ 5.9 SunOS_i386 patch 124864-01 2007/07/25 compiler |
| Solaris 10 | x64 | Sun Studio 12 (64-bit) | JDK 5, 6 (64-bit) | Solaris 10 10/08 s10x_u6wos_07b x86 operating system Sun C++ 5.9 SunOS_i386 patch 124864-01 2007/07/25 compiler |
| AIX 5.3 | PowerPC | XL C++ 8, 9 (32-bit, 64-bit) | JDK 5, 6 (32-bit, 64-bit) | Maintenance level 5300-06-01 for AIX operating system 5.3. To determine the current operating system level, use the <code>oslevel -s</code> command. For the XL C++ compiler, the requirements are: <ul style="list-style-type: none"> • XL C++ Compiler V9.0 • XL C++ Runtime V10.1 64-bit libraries are only supported on AIX 64-bit kernels. To determine the current operating system kernel, enter the following command: <code>lsconf </code> <code>grep kernel</code> |

Table 1: *Supported Platforms and Compilers*

| Operating System | Hardware | C++ Compiler | JDK | OS Patches, C++/JRE |
|-----------------------|-----------|------------------------------|---------------------------------|--|
| AIX 6.1 | PowerPC | XL C++ 9 (32-bit, 64-bit) | JDK 5, 6 (32-bit, 64-bit) | <p>Maintenance level 6100-02-01-0847 for AIX operating system 6.1. To determine the current operating system level, use the <code>oslevel -s</code> command.</p> <p>For the XL C++ compiler, the requirements are:</p> <ul style="list-style-type: none"> • XL C++ Compiler V9.0 • XL C++ Runtime V10.1 <p>January 2009 PTF for XL C/C++ Enterprise Edition for AIX, V9.0</p> <p>64-bit libraries are only supported on AIX 64-bit kernels. To determine the current operating system kernel, enter the following command: <code>lsconf grep kernel</code></p> |
| HPUX 11.23 (IA-64) | Itanium 2 | aCC 6.1x (64-bit) | JDK 5, 6 (64-bit) | <p>All recommended operating system patches up to March 2004.</p> <p>PHSS_29659 aC++ runtime (A.05.55)</p> <p>Patches can be displayed by using the following commands:</p> <pre>swlist -l product '*ava*' swlist -l product 'PH??_*' swlist grep PH swlist grep XS</pre> |

- a. Solaris 9 support with Sun Studio 8 (32-bit) is also available with the Orbix full product. 64-bit libraries are only available with the Orbix Core Services product.
- b. Solaris 10 support with Sun Studio 11 (32-bit) is also available with the full Orbix product. 64-bit libraries are only available with the Orbix Core Services product.

It is recommended that you install all the patches listed in this section to avoid any potential issues. Please consult specific vendor websites for more information on patches.

Disk space requirements

The following table lists the approximate amount of disk space taken up by the Orbix 3.3 SP 10 Core Services files. The installer also requires approximately 50MB of temporary work space.

| Component | Linux | Windows |
|--|-------|---------|
| Development Environment for Java & C++ | 125MB | 140MB |
| Documentation | 75MB | 75MB |

Default location

The default location of your Orbix 3.3 installation is as follows:

| Platform | Default Location |
|------------------------|------------------|
| UNIX main installation | /opt/iona |
| UNIX variable files | /var/opt/iona |
| Windows | C:\iona |

Note: Orbix 3.3 SP 10 installs in a fixed location relative to the path you specify. Installing in locations with spaces in their directory names is not recommended.

Installing Orbix 3.3 SP 10 without the GUI

Overview

Installing Orbix 3.3 SP 10 in silent install mode allows you to run the installer without using the GUI. The silent mode installer looks to a template file that provides the required information.

For more detailed information, see the following Knowledge Base article (4087.633):

[Silent Mode of Installation for Orbix and SSL Installers Version 3.3.3 and Above](#)

Installing in silent mode

To install in silent mode, specify the following:

```
$ ./install.bin -f /path/to/template.file
```

Where `template.file` includes the following information.

```
##Specimen properties with operating system licence codes.
##-----
##C++ and Java
##-----
##Specify the directory where you want Orbix 3.3 SP 10 installed
USER_INSTALL_DIR=/local/install/dir
##Specify the location of your Java Development Kit
JAVA_LOCATION=/local/java/install/dir
JAVA_VERSION=1.5
INSTALLER_UI=SILENT
##Specify the components of Orbix you want to install
PRODUCTS="Orbix 3.3 - Java Edition and C++ Edition"
## Specify your licence key: c++ and java
LICENCE_KEY_1=<Licence Key1>
LICENCE_KEY_2=<Licence Key2>
##Specify the domain for the installation
DOMAIN=emea.progress.com
##-----
```

Installing Orbix 3.3 SP 10 with the GUI

Overview

This section describes how to install Orbix 3.3. SP 10 using the GUI installer, which is based on InstallAnywhere.

Installation steps

To install Orbix 3.3. SP 10 using the GUI, perform the following steps:

1. In the **Select Product** screen, select the Orbix 3.3 SP 10 product set that you have purchased (for example, Orbix 3.3 Java Edition). Click **Next** to continue.
2. In the **License Information** screen, enter the license code(s) that you have purchased in the appropriate text field(s). Click **Next** to continue. The license keys requested here depend on the product set you selected in the previous screen.
3. In the **License Agreement** screen, click **Yes** to agree to the terms of the License Agreement, and click **Next** to continue.
4. In the **Choose Orbix Installation Folder** screen, enter the file location that you wish to install Orbix 3.3 SP 10 into (for example, `C:\iona`). Click **Next** to continue.

Note: You must have permission to create files and directories in this location.

5. In the **Domain Information** screen, enter your domain name, and click **Next** to continue.
6. In the **JDK Configuration** screen, enter the location of your Java Development Kit. This is not required for Orbix 3.3 SP 10 C++ Edition. Click **Install** to continue.
7. A progress bar is displayed while the files are installed.
8. After the installation is complete, the Orbix welcome page launches automatically.

9. In the **Reboot Computer** screen, choose whether to restart your computer now or later.
10. The **Install Complete** screen is displayed to confirm that the installation is finished. Click **Done** to finish the installation.

Verifying your Installation

Configuration checks

When the installation is complete, follow these steps to ensure correct operation:

1. Check the contents of the Orbix configuration files, to ensure that the specified directory paths and domain name match those for your site.

| Platform | Location |
|----------|---|
| UNIX | /opt/iona/config/iona.cfg /opt/iona/config/common.cfg /opt/iona/config/orbix3.cfg /opt/iona/config/orbixweb3.cfg /opt/iona/config/orbixnames3.cfg |
| Windows | C:\iona\config\iona.cfg C:\iona\config\common.cfg C:\iona\config\orbix3.cfg C:\iona\config\orbixweb3.cfg C:\iona\config\orbixnames3.cfg |

2. Read the *Orbix 3.3 SP 10 Core Services Release Notes*.
3. Before running the Orbix daemon or the Orbix Java activator from a terminal or command shell, run the supplied scripts that set the following environment variables:

```
IT_CONFIG_PATH
IONA_ROOT
JAVAHOME
PATH
```

To run these scripts, type the following commands in a terminal:

| Platform | Command |
|----------|---------------------------------------|
| UNIX | /opt/iona/setenvs.sh (or setenvs.csh) |
| Windows | C:\iona\setenvs.bat |

Testing your Orbix 3.3 SP 10 Java Edition installation

To ensure that your installation is fully operational, change directory to the `demodemo` directory of your Orbix 3.3 SP 10 Core Services installation. For example:

| Platform | Location | Make command |
|----------|--|-------------------|
| UNIX | <code>/opt/iona/demos/common/jumpstart/basic/java</code> | <code>make</code> |
| Windows | <code>C:\iona\demos\common\jumpstart\basic\java</code> | <code>make</code> |

Read the `index.html` file for instructions to run the demonstration program.

Testing your Orbix 3.3 SP 10 C++ Edition installation

To ensure that your installation is fully operational, change directory to the `demodemo` directory of your Orbix 3.3 SP 10 Core Services installation. For example:

| Platform | Location | Make command |
|----------|---|-------------------|
| UNIX | <code>/opt/iona/demos/common/jumpstart/basic/cxx</code> | <code>make</code> |
| Windows | <code>C:\iona\demos\common\jumpstart\basic\cxx</code> | <code>make</code> |

Read the `index.html` file for instructions to run the demonstration program.

Reinstalling the license code

If the licensed applications fail to run (for example, `orbixd`, `idl`, `idlj`), you may have made an error in entering your license authorization code.

You can reinstall the licence by changing to the `bin` directory of your Orbix 3.3 SP 10 Core Services installation, and typing the following line, using your authorization code as shown in the following example:

| Platform | Command |
|----------|---|
| UNIX | <code>install_license orbixd LicenceCode</code> |
| Windows | <code>license.exe orbixd LicenceCode</code> |

You should replace `orbixd` with the filename of the application that fails to run, and replace `LicenceCode` with your licence authorization code.

The following Orbix 3.3 SP 10 application files are enabled by the corresponding product license authorization codes:

| Application | Java Edition code | C++ Edition code |
|---|-------------------|------------------|
| <code>orbixd</code> - Orbix C++ Daemon | Code enables | Code enables |
| <code>idl</code> - Orbix C++ IDL compiler | - | Code enables |
| <code>idlj</code> - Orbix Java IDL compiler | Code enables | - |

Structure of installed directories

A complete installation of Orbix 3.3 SP 10 Core Services has the following directory structure in the installation location:

| Directory | Description |
|------------------------------|---|
| <code>\bin</code> | Binary images for all components |
| <code>\config</code> | Repositories and configuration files for all components |
| <code>\contrib</code> | Utilities contributed by Orbix engineers and partners |
| <code>\demos</code> | Demonstrations for all components |
| <code>\docs</code> | Links to the latest information on Orbix 3.3 SP 10 |
| <code>\idl</code> | IDL files |
| <code>\include</code> | Header files |
| <code>\lib</code> | Development libraries |
| <code>\tools</code> | GUI tools |
| <code>\UninstallOrbix</code> | Files for uninstalling Orbix 3.3 SP 10 |

Uninstalling Orbix 3.3 SP 10 Core Services

Uninstalling Orbix

To uninstall Orbix 3.3 SP 10 Core Services, run the `UninstallOrbix` file in the `UninstallOrbix` directory of your Orbix installation. Examples are as follows:

| Platform | Uninstall script |
|----------|--|
| UNIX | <code>/opt/iona/UninstallOrbix/UninstallOrbix</code> |
| Windows | <code>C:\iona\UninstallOrbix\UninstallOrbix</code> |

Note: The uninstaller removes the complete installation of Orbix 3.3 SP 10 Core Services, but does not remove any files added or generated after installation (for example, log files, executables generated in demo runs, implementation repositories, and so on).

Further Information

Technical support

If you require further technical assistance with using this product, please see the following web page:

http://www.progress.com/support_main/index.ssp

