



Orbix® 3.3

Installation Guide

Service Pack 10, May 2009

© 2009 Progress Software Corporation and/or its affiliates or subsidiaries. All rights reserved.

These materials and all Progress® software products are copyrighted and all rights are reserved by Progress Software Corporation and/or its affiliates or subsidiaries. The information in these materials is subject to change without notice, and Progress Software Corporation and/or its affiliates or subsidiaries assume no responsibility for any errors that may appear therein. The references in these materials to specific platforms supported are subject to change.

A (and design), Actional, Actional (and design), Allegrix, Allegrix (and design), Apama, Apama (and Design), Artix, Business Empowerment, DataDirect (and design), DataDirect Connect, DataDirect Connect64, DataDirect Technologies, DataDirect XML Converters, DataDirect XQuery, DataXtend, Dynamic Routing Architecture, EasyAsk, EdgeXtend, Empowerment Center, Fathom, IntelliStream, IONA, IONA (and design), Mindreef, Neon, Neon New Era of Networks, O (and design), ObjectStore, OpenEdge, Orbix, PeerDirect, Persistence, POSSENET, Powered by Progress, PowerTier, Progress, Progress DataXtend, Progress Dynamics, Progress Business Empowerment, Progress Empowerment Center, Progress Empowerment Program, Progress OpenEdge, Progress Profiles, Progress Results, Progress Software Developers Network, Progress Sonic, ProVision, PS Select, SequelLink, Shadow, ShadowDirect, Shadow Interface, Shadow Web Interface, SOAPscope, SOAPStation, Sonic, Sonic ESB, SonicMQ, Sonic Orchestration Server, Sonic Software (and design), SonicSynergy, SpeedScript, Stylus Studio, Technical Empowerment, WebSpeed, Xcalia (and design), and Your Software, Our Technology-Experience the Connection are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries.

AccelEvent, Apama Dashboard Studio, Apama Event Manager, Apama Event Modeler, Apama Event Store, Apama Risk Firewall, AppsAlive, AppServer, ASPen, ASP-in-a-Box, BusinessEdge, Cache-Forward, DataDirect Spy, DataDirect SupportLink, FUSE, FUSE Mediation Router, FUSE Message Broker, FUSE Services Framework, Future Proof, Ghost Agents, GVAC, High Performance Integration, Looking Glass, ObjectCache, ObjectStore Inspector, ObjectStore Performance Expert, OpenAccess, Pantero, POSSE, ProDataSet, Progress ESP Event Manager, Progress ESP Event Modeler, Progress Event Engine, Progress RFID, PSE Pro, SectorAlliance, SeeThinkAct, SmartBrowser, SmartComponent, SmartDataBrowser, SmartDataObjects, SmartDataView, SmartDialog, SmartFolder, SmartFrame, SmartObjects, SmartPanel, SmartQuery, SmartViewer, SmartWindow, Sonic Business Integration Suite, Sonic Process Manager, Sonic Collaboration Server, Sonic Continuous Availability Architecture, Sonic Database Service, Sonic Workbench, Sonic XML Server, StormGlass, The Brains Behind BAM, WebClient, Who Makes Progress, and Your World. Your SOA. are trademarks or service marks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and other countries.

Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. Any other trademarks contained herein are the property of their respective owners.

Updated: November 12, 2009

Contents

Chapter 1	Installing Orbix 3.3 SP 10	1
	Introduction	2
	Prerequisites to Installing Orbix 3.3 SP 10	6
	Installing Orbix 3.3 SP 10 without the GUI	12
	Installing Orbix 3.3 SP 10 with the GUI	13
	Verifying your Installation	15
	Uninstalling Orbix 3.3 SP 10	19
	Further Information	20

CONTENTS

Installing Orbix 3.3 SP 10

This document provides instructions for installing Orbix 3.3 SP 10 on Windows, Solaris, and HP-UX.

In this document

This chapter discusses the following topics:

Introduction	page 2
Prerequisites to Installing Orbix 3.3 SP 10	page 6
Installing Orbix 3.3 SP 10 without the GUI	page 12
Installing Orbix 3.3 SP 10 with the GUI	page 13
Verifying your Installation	page 15
Uninstalling Orbix 3.3 SP 10	page 19
Further Information	page 20

Introduction

Overview

This document provides instructions for installing Orbix 3.3 SP 10 on the following platforms:

- Windows XP
- Solaris 9 (SPARC)
- Solaris 10 (SPARC)
- HP-UX 11i (11.11)
- HP-UX 11i v2 (11.23)

Note: For details of installing Orbix 3.3.10 on other platforms, see the *Orbix 3.3 SP 10 Core Services Installation Guide*.

Product sets

Orbix 3.3 SP 10 consists of three product sets, each enabled by a separate license code:

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

You can purchase and license any valid combination of these sets.

Product components

Orbix 3.3 SP 10 comprises the following components:

Table 1: *Orbix 3.3 Product Components*

Components	Windows XP	Solaris 9/10 SPARC	HP-UX 11i (PA-RISC), 11.23 (Itanium)
Development Platform for Java	Available	Available	Available
Development Platform for C++	Available	Available	Available
Orbix Code Generation Toolkit	Available	Available	Available

Table 1: *Orbix 3.3 Product Components*

Components	Windows XP	Solaris 9/10 SPARC	HP-UX 11i (PA-RISC), 11.23 (Itanium)
OrbixCOMet	Available	Not Applicable	Not Applicable
OrbixEvents	Available	Available	Available
OrbixNames	Available	Available	Available
OrbixSSL	Available	Available	Available
Orbix Wonderwall	Available	Available	Available

The Orbix 3.3 SP 10 CD-ROM includes install programs for Windows, Solaris, and HP-UX, which deliver development platforms for all product components except OrbixSSL 3.3 SP 10.

The OrbixSSL 3.3 SP 10 CD-ROM includes install programs for Windows, Solaris, and HP-UX, which deliver OrbixSSL 3.3 SP 10 development platforms. For details on how to install OrbixSSL, see the *OrbixSSL 3.3 SP 10 Installation Guide*.

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). Before launching the installer, you should provide the JRE yourself (see [“Installation prerequisites” on page 6](#)), or use a pre-installed JRE or JDK.

Installation steps

To install Orbix 3.3 SP 10, follow these 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.

Note: Due to legal restrictions in some countries, OrbixSSL is not supplied on the same CD-ROM as Orbix 3.3 SP 10. OrbixSSL 3.3 SP 10 is enabled with Orbix 3.3 SP 10 Java Edition and Orbix 3.3 SP 10 C++ Edition license codes.

Before you begin your installation

Before installing Orbix 3.3 SP 10, see the latest version of the *Orbix 3.3 SP 10 Release Notes*, and check for any updates to this *Installation Guide* on the following web page:

<http://www.iona.com/support/docs/orbix/gen3/orbix33.xml>

Note: Orbix 3.3 SP 10 cannot be installed on machines that do not support 256 (8 bit) colors. 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 (a remote client), use a display resolution 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 OrbixOTS. All other components of Orbix 3.3 SP 10 are activated by these license codes. 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, because 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 further.

Determine your installation type

Orbix 3.3 SP 10 comprises three product sets, each enabled by separate license codes. You may purchase and license any valid combination of these sets. The three product sets are Orbix 3.3 SP 10 Java Edition, Orbix 3.3 SP 10 C++ Edition, and OrbixOTS 3.3 SP 10. Each combination enables different groups of components as described below:

Component	Java Edition	C++ Edition	OrbixOTS
Development Platform for Java	Enabled	-	-
Development Platform for C++	-	Enabled	-
OrbixOTS	-	-	Enabled
Orbix Code Generation Toolkit	Enabled	Enabled	-
OrbixCOMet	Enabled (Windows XP only)	Enabled (Windows XP only)	-
OrbixEvents	Enabled	Enabled	-
OrbixNames	Enabled	Enabled	-
OrbixSSL	Enabled	Enabled	-
Orbix Wonderwall	Enabled	Enabled	-

All components are enabled if your purchased licenses for all three combinations.

Note: OrbixOTS 3.3 SP 10 is only available with Orbix 3.3 SP 10 Java Edition and/or C++ Edition. OrbixOTS is installed when you install Orbix 3.3 SP 10 Java Edition and/or C++ Edition. However, a separate license key is required to use OrbixOTS.

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 prerequisites for installing Orbix 3.3 SP 10 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>Windows</p> <p>To install in the default location, Windows users must have administrator privileges.</p> <p>UNIX</p> <p>To install into the default location, UNIX users must have root privileges.</p>

Prerequisite	Notes
UNIX DISPLAY	<p>The installer was built using InstallAnywhere, which is a GUI application. To install Orbix 3.3 SP 10 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 must 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>
JRE	<p>The installer was built using InstallAnywhere, which is a Java application, and requires a JRE. 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 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 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 Solaris installers are located as follows:

```
/cdrom/SOLARIS/install.bin
```

Mounting the CD-ROM

The following commands can be used to mount the CD-ROM on the platforms indicated:

Platform	Command
Windows	No command required for Windows
Solaris	<code>mount -F hsfs -o ro /dev/dsk/c1t6d0s0 /cdrom</code>
HP-UX	<code>mount -t cdfs -o cdcase /dev/dsk/c3t2d0 /cdrom</code>

Depending on your system configuration `/cdrom` might need to be replaced with a different mount point. Contact your system administrator if you require assistance.

The values shown for the UNIX device controller are examples only and will vary depending on your system.

Operating systems and compilers

Table 2 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 2: *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
Windows XP	x86/x64	Visual C++ 6 SP3 (32-bit)	JDK 5, 6 (32-bit)	x86/Windows XP SP2 Java (JRE or SDK) 1.5 or 1.6
Solaris 9	SPARC	Sun Studio 8 (32-bit)	JDK 5, 6 (32-bit)	112963-03: SunOS 5.9: linker patch 111711-01: 32-bit Shared library patch for C++ 111712-01: 64-bit Shared library patch for C++ 112661-02: SunOS 5.9: IIM and X Input & Output Method patch 112785-09: X11 6.6.1: Xsun patch
Solaris 10	SPARC	Sun Studio 11 (32-bit)	JDK 5, 6 (32-bit)	Base level patches
HP-UX 11i (11.11)	PA-RISC	aCC 3.7x (32-bit)	JDK 5, 6 (32-bit)	All Y2K patch bundles and recommended operating system patches up to December 1999 PHSS_22898 HP aC++ -AA runtime libraries Patches can be displayed by using the following commands: <pre>swlist -l product '*ava*' swlist -l product 'PH??_*' swlist grep PH swlist grep XS</pre>

Table 2: *Supported Platforms and Compilers*

Operating System	Hardware	C++ Compiler	JDK	OS Patches, C++/JRE
HP-UX 11.23 (IA-64)	Itanium 2	aCC 6.1x (32-bit)	JDK 5, 6 (32-bit)	All recommended operating system patches up to March 2004. PHSS_29659 aC++ runtime (A.05.55) Patches can be displayed by using the following commands: <pre>swlist -l product '*ava*' swlist -l product 'PH??_*' swlist grep PH swlist grep XS</pre>

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.

OrbixOTS development

OrbixOTS requires access to a database installed on your system. OrbixOTS supports the following database products:

Platform	Database
Windows XP (SP2)	Oracle 8i (8.1.5), & SQL Server 7
Solaris 2.9	Oracle 8i (8.1.6)
Solaris 2.10	Oracle 8i (8.1.6)
HP-UX 11i	Oracle 8i (8.1.6)
HP-UX 11i v2 (Itanium)	Oracle 8i (8.1.6)

Disk space requirements

The following table lists the approximate amount of disk space taken up by the Orbix 3.3 files. The install program also requires approximately 50 MB of temporary work space.

Component	Windows	Solaris	HP-UX
Development Environment for Java & C++	80 MB	130 MB	140 MB
Documentation	50 MB	50 MB	50 MB
OrbixSSL	15 MB	30 MB	40 MB

Note: On Windows, please check that you have enough disk space before starting the installation.

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

1. To install in silent mode, use the following command:

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

template.file should contain the following information:

```
##Specimen properties for Solaris 2.9 silent install with licence codes
##-----
##C++, Java, and OTS
##-----
##Specify the directory where you want Orbix 3.3 SP 10 installed
USER_INSTALL_DIR=/path/to/install/dir
##Specify the location of your Java Development Kit
JAVA_LOCATION=/path/to/jdk/dir
##Specify your Java version
JAVA_VERSION=1.6
##Specify a silent install
INSTALLER_UI=SILENT
##Specify the components of Orbix you want to install
PRODUCTS="Orbix 3.3 - Java Edition and C++ Edition with OrbixOTS 3.3"
##Specify your licence keys: c++, java, and ots
LICENCE_KEY_1=<Licence Key1>
LICENCE_KEY_2=<Licence Key2>
LICENCE_KEY_3=<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/idlgen.cfg /opt/iona/config/orbix3.cfg /opt/iona/config/orbixweb3.cfg /opt/iona/config/orbixnames3.cfg /opt/iona/config/orbixevents.cfg /opt/iona/config/orbixots.cfg
Windows	C:\iona\config\iona.cfg C:\iona\config\common.cfg C:\iona\config\idlgen.cfg C:\iona\config\orbix3.cfg C:\iona\config\orbixweb3.cfg C:\iona\config\orbixnames3.cfg C:\iona\config\orbixevents.cfg C:\iona\config\orbixots.cfg

2. Read the *Orbix 3.3 SP 10 Release Notes*.

- Before attempting to run 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 and PATH.

These scripts are run by typing 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, you should change directory to the `demos` directory of your Orbix 3.3 SP 10 installation, for example:

Platform	Location	Make command
UNIX	/opt/iona/demos/common/jumpstart/basic/java	make
Windows	C:\iona\demos\common\jumpstart\basic\java	compile.bat

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, you should change directory to the `demos` directory of your Orbix 3.3 SP 10 installation, for example:

Platform	Location	Make command
UNIX	/opt/iona/demos/common/jumpstart/basic/cxx	make
Windows	C:\iona\demos\common\jumpstart\basic\cxx	compile.bat

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`, `libEncinaServerOrbix`, `libEncinaClientOrbix`), 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 installation, and typing the following line:

Platform	Command
UNIX	<code>install_license orbixd licence_code</code>
Windows	<code>license.exe orbixd licence_code</code>

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

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

Application	Java Edition code	C++ Edition code	OrbixOTS 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	-	-
<code>libEncinaServerOrbix</code> - OTS library	-	-	Code enables
<code>libEncinaClientOrbix</code> - OTS library	-	-	Code enables
<code>update</code> - SSL update utility	Code enables	Code enables	-

Structure of installed directories

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

Directory	Description
\bin	Binary images for all components
\COMet	OrbixCOMet SDK and utilities (Windows XP only)
\config	Repositories and configuration files for all components
\contrib	Utilities contributed by Orbix engineers and partners
\demos	Demonstrations for all components
\docs	Links to the latest information on Orbix 3.3 SP 10
\idl	IDL files
\include	Header files
\lib	Development libraries
\OrbixSSL	OrbixSSL files, utilities and examples (OrbixSSL installation required)
\tools	GUI Tools
\UninstallOrbix	Files for uninstalling Orbix 3.3 SP 10
\UninstallOrbixSSL	Files for uninstalling OrbixSSL 3.3 SP 10 (OrbixSSL installation required)
\Wonderwall	Orbix Wonderwall files, utilities, and examples

Uninstalling Orbix 3.3 SP 10

Uninstalling Orbix

To uninstall Orbix 3.3 SP 10, run the `UninstallOrbix` file in the `UninstallOrbix` directory of your Orbix 3.3 SP 10 installation. For examples:

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, 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). If OrbixSSL has been installed, it should be uninstalled first.

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