

# **Orbix 3.0.1 for Solaris Installation Guide**

**IONA Technologies PLC**  
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## Introduction

This document provides instructions for installing each of the components of Orbix 3.0.1 on the Solaris platform. The components of Orbix 3.0.1 are as follows:

<b>Component</b>	<b>Version</b>
Orbix	3.0.1
Orbix Code Generation Toolkit	3.0.1
OrbixNames	3.0.1
Orbix Wonderwall	3.0.1

## Platforms

Solaris 2.5.1 and Solaris 2.6

SPARCompiler 4.2

## License Code

You must have a valid license code from IONA Technologies to install Orbix 3.0.1. The code is a long text string taking the general form:

00000000-11111111-22222222-33333333-44444444

Your license number should be included in a loose sheet in your Orbix 3.0.1 pack. If you do not have a license, contact IONA before proceeding any further.

## Orbix

This section explains how to install the Orbix component of the Orbix 3.0.1 package.

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**Note:** The OrbixNames component is automatically installed with Orbix.

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## Prerequisites

If you have an existing installation of Orbix 3.0, remove this before installing Orbix 3.0.1.

## Installation Instructions

You should use `pkgadd` to install Orbix on your system. When run, this package utility explains the steps you need to take for successful installation of Orbix. While installing the product with `pkgadd`, you are prompted to enter your license authorisation code.

During the installation, `pkgadd` sometimes asks you to confirm that it is safe to overwrite existing files. In each case, you should confirm that it is.

The steps to install Orbix 3.0.1 are as follows:

## Loading Data

You must be logged on as `root` to install Orbix in the way described here.

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**Note:** If you wish to install Orbix using a CD-ROM drive on a remote UNIX machine, you must log into this machine as `root`, mount the CD-ROM, then use `exportfs` or `share` to NFS-export this file system to the installation machine. Refer to your operating system manuals for details.

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## Step 1

Use the `pkgrm` utility to remove older versions of Orbix.

### Step 2

Insert and mount the CD.

If the machine is running `vold`, it recognises that the CD is in place and mounts it on `/cdrom` (depending on your system configuration, `/cdrom` may need to be replaced with a different device name). Depending on the configuration of `vold` you may have to append a trailing dot (".") to references to file names on the CD. This is because `hsfs` imposes a suffix on the file names.

If the machine is not running `vold`, enter the following:

```
mount -F hsfs -o ro,notraidot,nomaplcase /dev/dsk/c0t6d0s2 /cdrom
```

The device identifier `c0t6d0s2` is configuration dependent, and varies from machine to machine.

This mounts the CD on `/cdrom` (depending on your system configuration, `/cdrom` may need to be replaced with a different mount point).

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**Note:** `-F hsfs` means use High Sierra file system type; `ro` means mount it readonly, `notraidot` means no suffix should be added to the file names on the CD.

---

### Step 3

Start the installation utility by typing the following:

```
pkgadd -d /cdrom/ORBIX.PKG
```

---

**Note:** In all of the following example output, **bold** text represents user input for the installation.

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## Installing the ITorbix Package

### Step 4

Select the package you wish to install.

The output from `pkgadd` should display the following Solaris package for Orbix 3.0.1:

The following packages are available:

```
1  ITorbix      IONA Technologies Orbix
      (sparc) Version 3.0.1
Select package you wish to process (default: all)
[?, ??, q]:
```

Press **Return** to install the package.

The following is displayed to begin installation:

```
Processing package instance <ITorbix> from <cdrom/
ORBIX.PKG>
```

```
IONA Technologies Orbix (sparc) Version 3.0.1
## Software contents file initialized
```

```
(c) Copyright IONA Technologies PLC. 1993-1999. All
rights reserved.
```

```
The use of this Software is governed by the terms of a
Software License Agreement which contains, without
limitation, exclusion of warranty and limitation of
liability provisions.
```

```
Reverse engineering of this Software is strictly
prohibited.
```

```
If you have not accepted the terms of this license
agreement, please contact IONA directly for a full
refund upon return of the Software.
```

```
Have you read and accepted the terms of this license
agreement? y
```

## Step 5

Enter your IONA license authorization code:

```
.  
.
```

```
Please enter your IONA license authorisation code:
```

Your licence number is included in a loose sheet in your OrbixOTM 3.0 pack.

If for any reason the code is not entered correctly, you can re-enter it, as described in “Reinstalling the License” on page 8.

## Step 6

Choose a directory in which to install Orbix:

Here is a list of your partitions and the free space in each of them:

Filesystem	kbytes	used	avail	capacity	Mounted on
/opt/iona	1952568	1655904	101416	95%	/opt/iona/

```
.  
.  
.
```

```
Where should Orbix be installed? [/opt/iona] [?,q]
```

Installing Orbix takes up approximately 70 megabytes of disk space, so ensure that you choose a partition with enough free space to accommodate it.

## Step 7

Choose to install the demonstration code and documentation:

```
.  
.
```

```
Should the demonstration code included in the package be installed  
[y, n, ?] y
```

```
Should the documentation included in the package be installed  
[y, n, ?] y
```



## Step 8

Enter your DNS domain name:

If you intend to use Orbix to communicate with anything outside your own subnet, you will need to supply your subnet's domain name.

If your machines all have fully-qualified hostnames, reply with the value "null".

What is your domain name? [dublin.iona.ie]

At this point `pkgadd` has gathered the required information to install Orbix.

## Step 9

Confirm that you want to install the package:

```
.  
. .  
Using </opt/iona/> as the package base directory.  
## Processing package information.  
## Processing system information.  
## Verifying disk space requirements.  
## Checking for conflicts with packages already  
    installed.  
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of this package  
[y, n, ?] **y**

The installation continues automatically:

```
Installing IONA Technologies Orbix <ITorbix>
## Installing part 1 of 1.
.
.
.
## Executing postinstall script.
Installation of <ITorbix> was successful.
```

The installation is complete.

## Testing the Installation

To ensure that your installation is fully operational, perform the following steps:

1. If you are operating the Bourne shell, enter the following:

```
. setenvs.sh
```

If you are operating the C shell, enter the following:

```
source setenvs.csh
```

2. Change directory to the `demos` directory of your Orbix installation:

```
/opt/iona/demos
```

3. Read the file `index.html`.

This file explains how to build the common demonstration libraries and how to run demonstration programs, for example:

```
/opt/iona/demos/banksimple/cxx
```

This demonstration is documented in detail in Chapter 2 of the *Orbix C++ Programmer's Guide*, "Getting Started with Orbix".

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**Note:** Before running an existing application, developed with an older version of Orbix, recompile it using Orbix 3.0.1.

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## Reinstalling the License

If the Orbix daemon fails to run, you may have made an error in entering your license authorisation code. You can reinstall the license by changing to the `bin` directory of your Orbix installation (for example, `/opt/iona/bin`) and typing the following line, using your authorisation code in place of `licence_code`:

```
./install_licence ./orbixd licence_code
```

You should now be able to run the Orbix daemon.

# Orbix Code Generation Toolkit

This section explains how to install the Orbix Code Generation Toolkit component of the Orbix 3.0.1 package.

## Installation Instructions

To install the Orbix Code Generation Toolkit 3.0.1 from the Orbix 3.0.1 CD-ROM, perform the following steps:

1. As root, enter:

```
pkgadd -d /cdrom/IDLGEN.PKG
```

2. Follow the on-screen instructions.

## Reinstalling the License

If the IDLgen binary fails to run, you may have made an error in entering your license authorisation code. You can reinstall the license by changing to the `bin` directory of your Orbix installation (for example, `/opt/iona/bin`) and typing the following line, using your authorisation code in place of `license_code`:

```
./install_licence ./idlgen license_code
```

You should now be able to run the IDLgen binary.

## Orbix Wonderwall

This section explains how to install the Orbix Wonderwall component of the Orbix 3.0.1 package.

### Prerequisites

You must have a Java Development Kit (JDK) or Java run-time environment installed in order to run most of the Orbix Wonderwall utilities. However, the installation of Orbix includes a Java run-time environment. Therefore, if you install Orbix first, you do not need to install a separate JDK or Java run-time environment before installing Orbix Wonderwall.

### Installation Instructions

To install Orbix Wonderwall 3.0.1 from the Orbix 3.0.1 CD-ROM perform the following steps:

1. As root, enter:  

```
pkgadd -d /cdrom/WWALL.PKG
```
2. Follow the on-screen instructions.

### For Further Information

If you require further technical assistance in using Orbix 3.0.1, please contact [support@iona.com](mailto:support@iona.com).