

Orbix 3.0 for Solaris Installation Guide

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Orbix 3.0 for Solaris Installation Guide

Introduction

This document provides instructions for installing each of the components of Orbix 3.0c on the Solaris platform. The components of Orbix 3.0c are as follows:

Product Code	Description
s1473	Orbix
s1469	Orbix Code Generation Toolkit
s1486	OrbixNames
s1482	Orbix Wonderwall

Platforms

Solaris 2.6
SPARCompiler 4

Licence Code

You must have a valid licence code from IONA Technologies to install Orbix 3.0c. The code is a long text string taking the general form:

00000000-11111111-22222222-33333333-44444444

Your licence number should be included in a loose sheet in your Orbix 3.0c pack. If you do not have a licence, contact IONA before proceeding any further.

Orbix

This section explains how to install the Orbix component of the Orbix 3.0c package.

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

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 licence authorisation code.

The steps to install Orbix 3.0c are as follows:

Loading Data

Step 1

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

If you already have an existing version of Orbix on your system, you do not need to remove it unless you wish to install this version of Orbix in the same place in the file system. Use the `pkgrm` utility to remove older versions of Orbix as appropriate.

Note: If you wish to install Orbix using a CD-ROM drive on a remote UNIX machine, you need to login to 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.

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 filenames on the CD. This is because `hsfs` imposes a suffix on the filenames.

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

```
# mount -F hsfs -o ro,notraildot /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).

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

Step 3

Start the installation utility by typing the following (the `-R` switch is supported):

```
# pkgadd -d ORBIX.PKG
```

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

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 3.0c:

The following packages are available:

```
1 ITorbix      Orbix OMG CORBA2.1 (sparc) Version 3.0c
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 <PACKAGE/
ORBIX.PKG>
Orbix OMG CORBA2.1 (sparc) Version 3.0c
## 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 Licence 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 licence
agreement, please contact IONA directly for a full
refund upon return of the Software.
```

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

Step 5

Enter your IONA licence authorisation code:

```
.  
.  
Please enter your IONA licence authorisation code:
```

Your licence number is included in a loose sheet in you Orbix 3.0c pack.

If for any reason the code is not entered correctly, you can re-enter it, as described in “Reinstalling the Licence” on page 7.

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/Orbix_3.0c] [?,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 included:

```
.  
.
```

```
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
```

Note: The docs.tar file in the DOCS directory of the CD contains the user documentation for Orbix 3.0c. To install the documentation, refer to the README file in the DOCS directory.

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

Create the base directory. This step is optional if the directory already exists on your machine.

The selected base directory `</opt/iona>` must exist before installation is attempted.

Do you want this directory created now [y, n, ?, q] **y**

Step 10

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 Orbix3.0c OMG CORBA2.1 <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. Change directory to the `demos` directory of your Orbix installation:

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

2. 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".

Reinstalling the Licence

If the Orbix daemon fails to run, you may have made an error in entering your licence authorisation code. You can reinstall the licence 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 3.0c package.

Installation Instructions

To install the Orbix Code Generation Toolkit 3.0c from the Orbix 3.0c CD-ROM, perform the following steps:

1. As root, enter:

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

2. Follow the on-screen instructions.

Uninstalling the Orbix Code Generation Toolkit

To uninstall the Orbix Code Generation Toolkit 3.0c:

1. As root, enter:

```
pkgrm ITidlgen
```

2. Enter `y` when asked if you want to remove this package.

A message is displayed to notify you that the product was successfully uninstalled.

Orbix Wonderwall

This section explains how to install the Orbix Wonderwall component of the Orbix 3.0c 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 3.0c from the Orbix 3.0c CD-ROM perform the following steps:

1. cd into the `/cdrom/WWALL.PKG` directory.
2. As root, enter:

```
pkgadd -d WWALL.PKG
```
3. Follow the on-screen instructions.

For Further Information

If you require further technical assistance in using Orbix 3.0c, please contact support@iona.com.