

Orbix 3.0.1 for HP-UX Installation Guide

**IONA Technologies PLC
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Introduction

This document provides instructions for installing Orbix 3.0.1 on the HP-UX 10.20 platform. The Orbix CD-ROM includes the following installation components:

- Orbix
- The Orbix Code Generation Toolkit
- Orbix Wonderwall

Platforms

HP-UX 10.20

ANSI C++ Compiler

HP-UX 10.20

cfront Compiler

License Code

You must have a valid license code from IONA Technologies in order 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.

Installing Orbix

This section explains how to install Orbix 3.0.1.

Existing Orbix Installations

This product installs in a fixed location relative to the path you specify. This means that if you install this product in the same location as an existing Orbix 3.0.1 installation, the existing installation is overwritten. If you have an older version of Orbix on your system, you do not need to remove it unless you wish to install in the same location on your file system.

Installation Instructions

This installation uses a script wrapper for the `swinstall` utility to install the software on your system. Please refer to your HP-UX documentation for information on using this utility. You need root privileges on the machine, and it is recommended that you set the `DISPLAY` environment variable for a GUI installation.

Loading Data

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

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

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To install Orbix perform the following steps:

Step 1

Insert and mount the Orbix CD.

If you are installing Orbix from a CD-ROM drive attached locally, enter the following:

```
# mount -F cdfs -o ro /dev/dsk/c0tXd0 /cdrom
```

The value for *x* is the SCSI ID of the CD drive—usually 6. This mounts the CD on `/cdrom`. Depending on your system configuration, `/cdrom` might have to be replaced with a different mount point.

Step 2

Run the `SETUP` utility in the `ORBIX` directory of the CD-ROM with root access. You are prompted to confirm that you have read and accepted the license agreement.

The depot is now registered and `swinstall` is run with the `write_remote_files=true` flag and pointing to the depot.

The main `swinstall` window appears.

Step 3

Select the software you wish to install, in this case, **ITOrbix 3.0.1**.

Step 4

Select **Mark for Install** from the **Actions** menu to commit the software selection.

Step 5

If you wish to install Orbix in a directory other than the default directory (`/opt/iona`), highlight the product and then select the **Change Product Location** item from the **Actions** menu, and enter the new root directory where Orbix is to be installed.

Step 6

You may wish to change the options, you can do this by selecting **Change Options** from the **Options** menu. To save time, it is recommended that you choose not to mount all file systems in `fstab`.

Step 7

Select **Install Analysis** from the **Actions** menu to view analysis of the installation.

Step 8

Select **Logfile** to display the status of the installation (including any errors encountered).

Step 9

When the analysis has been successfully completed, select **OK**.

Step 10

Exit `swinstall` and the script continues.

After Installation

After installing Orbix, do the following:

1. Change directory to the `lib` directory of your Orbix installation, for example:

```
cd /opt/iona/lib
```
2. Remove the link `libITttsmt.3.0.1.cfront.1`:

```
rm libITttsmt.3.0.1.cfront.1
```
3. Create a new link as follows:

```
ln -s libITdummyttsmt.3.0.1.cfront.1 \
libITttsmt.3.0.1.cfront.1
```

Installing the License

You must enter the license authorisation codes to enable `iona/orbix`. The script prompts you for your key and the location of the install. Alternatively, you can do this manually, using the `install_licence` utility located in:

```
install_directory/bin
```

You need to enter the following, using the provided authorisation codes in place of `license_code`:

```
./install_licence ./orbixd license_code  
./install_licence ./idl license_code
```

Configuration Checks

Once the installation is complete, perform the following steps to check your configuration:

1. Set the environment variable `IT_CONFIG_PATH` to `install_directory/config`.
2. Run the following utility program:

```
install_directory/contrib/dumpconfig
```

The `dumpconfig` utility outputs the values of the configuration variables used by Orbix, and the location of the Orbix configuration files on your system. The `dumpconfig` utility also reports any syntax errors in your configuration files.

Note: Configuration files are always written into `/etc/opt/iona/config` for installations of Orbix and OrbixWeb. Adding Orbix to an existing OrbixWeb installation will not overwrite these files, nor will adding OrbixWeb to an existing Orbix installation. However, if you remove Orbix or OrbixWeb with the `swremove` tool, the configuration files in `/etc/opt/iona/config` will be removed. You must make backup copies of the configuration files if you want to keep them.

Testing the Installation

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

1. Change directory to the `dem` 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".

Installing the Orbix Code Generation Toolkit

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

Prerequisites

You require approximately 4 MB of disk space in the file system where you intend installing the Orbix Code Generation Toolkit.

Existing Installations

If there is an existing installation of the Orbix Code Generation Toolkit 3.0.1 in the directory where you intend installing, this must be removed first.

Installation Instructions

You need root privileges to install on the software on your system. It is recommended that you set the `DISPLAY` environment variable for a GUI installation.

To install the Orbix Code Generation Toolkit, perform the following steps:

Step 1

Run the `SETUP` script in the `IDLGEN` directory with root access. You are asked to confirm that you have read the license, the script registers the `depot` and initializes `swinstall` pointing it to the `depot`.

Step 2

In the **Software Selection** window, highlight to select the product, then choose the **Mark for Install** item from the **Actions** menu. The **Marked?** column is automatically set to **Yes**.

Step 3

If you wish to install the Orbix Code Generation Toolkit in a directory other than the default directory (`/opt/iona`), highlight the product and then select the

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Change Product Location item from the **Actions** menu and enter the new root directory where the Toolkit is to be installed.

Step 4

Select the **Install (analysis...)** item from the **Actions** menu. When the analysis is complete without errors (Status:Ready), select **OK**.

Step 5

Select **Yes** in the **Confirmation** window to begin the actual installation. You can select the **Display Logfile** button to check for any warnings or errors encountered during the installation process.

Step 6

When the installation is complete, a dialog is displayed showing that the install task is complete. You can then exit `swinstall`.

Installing the License

The `SETUP` script asks you for a license key, and the location where you installed the Orbix Code Generation Toolkit. The license key is then installed in the `idlgen` utility. Alternatively, you can do this manually later using the Orbix `install_licence` utility in the following directory:

```
install_directory/bin/install_licence
```

You should enter the following, using the provided authorisation codes in place of `license_code`:

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

Installing Orbix Wonderwall

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

Prerequisites

You must have a Java Development Kit (JDK) or Java run-time environment installed 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

It is recommended that you run `swinstall` in graphical mode. You should ensure that the `DISPLAY` variable is set.

You must be logged on as `root` to install Orbix Wonderwall. To install Orbix Wonderwall 3.0.1, perform the following steps:

Step 1

Run the `SETUP` script in the `wwall` directory with root access.

You are asked to confirm that you have read the license. The script then registers the `depot`, initializes `swinstall` and points it to the `depot`.

Step 2

In the **Software Selection** window, select **Orbix Wonderwall**.

Step 3

From the **Actions** menu, select **Mark for Install**. The **Marked?** column is automatically set to **Yes**.

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If you wish to install Orbix Wonderwall in a directory other than the default directory (`/opt/iona`), perform the following steps:

1. From the **Actions** menu, select **Change Product Location**.
2. Enter the new root directory where you wish to install Orbix Wonderwall.

Step 4

From the **Actions** menu, select **Install (analysis...)**.

Step 5

Select **OK** when the analysis completes without errors (`Status:Ready`).

Step 6

In the **Confirmation** window, select **Yes** to start the installation.

You can select the **Display Logfile** button to check for any warnings or errors encountered during the installation process.

When the installation is complete, a dialog is displayed showing that it has completed. You can then exit.

Step 7

Enter your license code when prompted. This is the same as for Orbix and is needed before you can run the IOP proxy.

If you do not enter the correct license code, you can add it later to the IOP proxy (located in `bin/iopproxy`) using the `install_licence` utility. Before trying to license the proxy, you are prompted by the `SETUP` script to enter the location of your Orbix Wonderwall installation. It does this to determine the location of the `install_licence` utility.

Step 8

Enter the location of your Orbix directory, OrbixWeb directory (if appropriate), and your JDK when prompted. These are needed when running the demonstration programs.

For Further Information

If you require further technical assistance in using Orbix 3.0.1, contact support@iona.com.