Orbix 3.0 for HP-UX
Installation Guide

IONA Technologies PLC
March 1999

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Introduction

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

Product Codes		Description
ANSI C++	C-Front	
s1475	s1476	Orbix
s1472	s1471	Orbix Code Generation Toolkit
s1489	s1488	OrbixNames
s1485	s1484	Orbix Wonderwall

Platforms

HP-UX 10.20	ANSI C++ Compiler
HP-UX 10.20	C-Front Compiler

Note: It is not recommended that you install both of these versions of Orbix3.0c on the same machine. For more information, refer to the IONA Knowledge Base:

`http://www.iona.com/online/support/kb/index.html`

Licence Code

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

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 3.0c 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.

To install Orbix perform the following steps:

Step 1

Insert and mount the 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; for example, using the `sudo` utility. You are prompted to confirm that you have read the licence.

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 3.0c**.

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. This is shown in Figure 1.

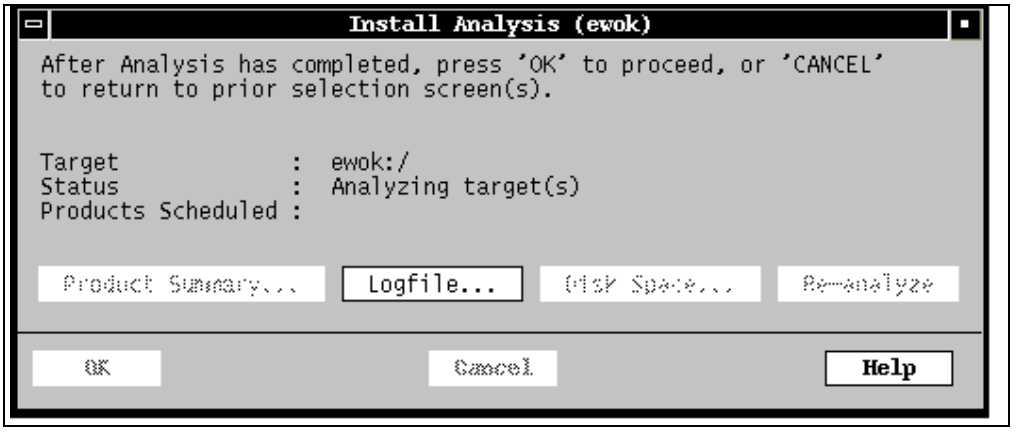

Figure 1: *Installation Analysis Screen*

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.

Note: If you encounter any difficulties, you should refer to your HP-UX manual

Installing the Licence

You must enter the licence 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 licence_code:

```
./install_licence ./orbixd licence_code
./install_licence ./idl licence_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.

After 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".

Orbix Code Generation Toolkit

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

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 3.0c 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, for example:

```
export DISPLAY=pcname:0.0
```

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

Step 1

Run the Code Generation Toolkit SETUP script with root access; for example using sudo. You are asked to confirm that you have read the licence, 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 **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 Licence

The SETUP script asks you for a licence key, and the location where you installed the Orbix Code Generation Toolkit Orbix. The licence 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 licence_code:

```
./install_licence ./idlgen licence_code
```

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 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

You must be logged on as `superuser` to install Orbix Wonderwall. To install Orbix Wonderwall 3.0c from the Orbix 3.0c CD-ROM, perform the following steps:

Step 1

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

```
export DISPLAY=pcname:0.0
```

Step 2

Run the Wonderwall `SETUP` script with root access, using `sudo`.

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

Step 3

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

Step 4

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

If you wish to install Orbix Wonderwall in a directory other than the default directory (`/opt/iona/Wonderwall3.0c`), 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 5

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

Step 6

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

Step 7

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 8

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

If you do not enter the correct licence code, you can add it later to the IIOP proxy (located in `bin/iiopproxy`) using the `install_license` 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_license` utility.

Step 9

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 3.0c, please contact support@iona.com.