Orbix 3.0 for Digital Unix Installation Guide

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Introduction

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

Product Codes	Description
s1480	Orbix
s1493	Orbix Code Generation Toolkit
s1501	OrbixNames
s1497	Orbix Wonderwall

Platforms

Digital Unix V4.0E	Digital Unix C++ V6.1 Compiler

Licence Code

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

```
00000000-11111111-22222222-33333333-44444444
```

Your licence code should be included in a loose sheet in your Orbix 3.0 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 3.0 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 3.0 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 the `setld` utility to install the software on your system. Please refer to your Digital Unix 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 Subsets

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 Digital Unix 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 -t cdfs /dev/dsk/rzXc /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

To list all the subsets that can be installed, run the setld in the ORBIX directory of the CD-ROM using the following command:

```
# setld -l .
```

Step 3

The setld utility only allows one copy of a subset to be installed in any root location. To install Orbix in a non-default location use the setld utility with the -D switch to specify an alternative root location other than (/).

```
e.g. # setld -D /usr/local -l .
```

Step 4

Select the software you wish to install as shown in Figure 1.

```
The following subsets are mandatory and will be installed
automatically unless you choose to exit without installing any
subsets

     * Orbix Object Request Broker (Release 3.0c)

The subsets listed below are optional:

     1) Orbix C++ Demos programs (Release 3.0c)
     2) Orbix PDF Documentation (Release 3.0c)

Or you may choose one of the following options:

     3) ALL mandatory and all optional subsets
     4) MANDATORY subsets only
```

```
     5) CANCEL selections and redisplay menus
     6) EXIT without installing any subsets

Enter you choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6):
```

Figure 1: `setld` *Installation Menu*

Step 5

During the installation you will be prompted for your licence code. If the licencing fails, you can licence Orbix after the installation as outlined in the section "Installing the Licence".

Installing the Licence

You must enter the licence authorisation codes to enable `Orbix`. During installation the installation script prompts you for your valid licence code. 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 code in place of `licence_code`:

```
./install_licence ./orbixd 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:

   ```
   install_directory/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:

   ```
   install_directory/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 3.0 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

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 Code Generation Toolkit 3.0c installation, the existing installation is overwritten.

Installation Instructions

This installation uses the `setld` utility to install the software on your system. Please refer to your Digital Unix 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 the Subset

Note: If you wish to install Orbix Code Generation Toolkit using a CD-ROM drive, refer to the Orbix component installation, Step 1, for instructions on how to mount the CD-ROM drive.

To install Orbix Code Generation Toolkit perform the following steps:

Step 1

To list the subset that can be installed, run the `setld` in the IDLGEN directory of the CD-ROM using the following command:

```
# setld -l .
```

Step 2

The `setld` utility only allows one copy of a subset to be installed in any root location. To install Orbix Code Generation Toolkit in a non-default location use the `setld` utility with the `-D` switch to specify an alternative root location other than (`/`).

```
e.g. # setld -D /usr/local -l .
```

Step 3

Select the software you wish to install as shown in Figure 2.

```
The following subsets are mandatory and will be installed
automatically unless you choose to exit without installing any
subsets

     * Orbix Code Generation Toolkit (Release 3.0c)


Or you may choose one of the following options:

     1) ALL mandatory and all optional subsets
     2) CANCEL selections and redisplay menus
     3) EXIT without installing any subsets

Enter you choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6):
```

Figure 2: `setld` *Installation Menu*

Step 4

During the installation you will be prompted for your licence code. If the licencing fails, you can licence Orbix Code Generation Toolkit after the installation as outlined in the section “Installing the Licence”.

Installing the Licence

You must enter the licence authorisation codes to enable `Orbix Code Generation Toolkit`. During installation the installation script prompts you for your valid licence code. 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 ./idlgen licence_code
```

Orbix Wonderwall

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

Existing 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 Wonderwall 3.0c installation, the existing installation is overwritten.

Installation Instructions

This installation uses the `setld` utility to install the software on your system. Please refer to your Digital Unix 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 the Subset

Note: If you wish to install Orbix Wonderwall using a CD-ROM drive, refer to the Orbix component installation, Step 1 for instructions on how to mount the CD-ROM drive.

To install Orbix Wonderwall perform the following steps:

Step 1

To list the subset that can be installed, run the `setld` in the `WWALL` directory of the CD-ROM using the following command:

```
# setld -l .
```

Step 2

The `setld` utility only allows one copy of a subset to be installed in any root location. To install Orbix Code Generation Toolkit in a non-default location use the `setld` utility with the `-D` switch to specify an alternative root location other than (`/`).

```
e.g. # setld -D /usr/local -l .
```

Step 3

Select the software you wish to install as shown in Figure 3.

```
The following subsets are mandatory and will be installed
automatically unless you choose to exit without installing any
subsets

     * Orbix Wonderwall (Release 3.0c)


Or you may choose one of the following options:

     1) ALL mandatory and all optional subsets
     2) CANCEL selections and redisplay menus
     3) EXIT without installing any subsets

Enter you choices or press RETURN to redisplay menus.

Choices (for example, 1 2 4-6):
```

Figure 3: `setld` *Installation Menu*

Step 4

During the installation you will be prompted for your licence code. If the licencing fails, you can licence Orbix Wonderwall after the installation as outlined in the section “Installing the Licence”.

Installing the Licence

You must enter the licence authorisation codes to enable `Orbix Wonderwall`. During installation the installation script prompts you for your valid licence code. Alternatively, you can do this manually, using the `install_licence` utility located in:

```
install_directory/Wonderwall_3.0c/bin
```

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

```
./install_licence ./iiopproxy licence_code
```

For Further Information

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