MICRO FOCUS

Orbix 3.3 SP12

SSL Installation Guide

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CHAPTER 1

Installing Orbix SSL 3.3 SP 12

This document provides instructions for installing OrbixSSL 3.3 SP 12 on Solaris, and HP-UX. OrbixSSL 3.3 SP 12 requires an existing installation of Orbix 3.3 SP 12.

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Introduction

Overview

This document provides instructions for installing OrbixSSL 3.3 SP 12 on the following platforms:

- Solaris 9 (SPARC)
- Solaris 10 (SPARC)
- HP-UX 11i (11.11) PA-RISC
- HP-UX 11i v2 (11.23) Itanium

OrbixSSL 3.3 SP 12 requires an existing installation of Orbix 3.3 SP 12. OrbixSSL 3.3 SP 12 is enabled by license codes for Orbix 3.3 SP 12 Java Edition or C++ Edition.

Note: Due to legal restrictions in some countries, the OrbixSSL 3.3 SP 12 CD-ROM is not supplied with Orbix 3.3 SP 12.

JRE requirements

The OrbixSSL 3.3 SP 12 installation was built with InstallAnywhere, which is a Java application. The installer requires a JRE (Java Runtime Environment). Before launching the installer, you should provide the JRE yourself (see "Installation prerequisites" on page 13), or use a pre-installed JRE or JDK.

Installation steps

To install OrbixSSL 3.3 SP 12, follow these steps:

- Check the prerequisites to installing OrbixSSL 3.3 SP 12.
- Install OrbixSSL 3.3 SP 12 on your host machine.
- Verify your installation.

Before you begin your installation

Before installing Orbix 3.3 SP 12, see the latest version of the *Orbix 3.3 SP 12 Release Notes*, and check for any updates to this Installation Guide on the following web page:

http://support.microfocus.com/supportresources.asp

Note: OrbixSSL 3.3 SP 12 cannot be installed on machines that do not support 256 (8 bit) colors. This is because the Orbix installer is built on the Java platform, which does not support 16 colors.

Note: When installing OrbixSSL 3.3 SP 12 using PCAnywhere (over a remote client), use a display resolution of type VGA (640 x 480).

Orbix 3.3 SP 12 license codes

You must have a valid license code to install OrbixSSL 3.3 SP 12 Java Edition, OrbixSSL 3.3 SP 12 C++ Edition, and OrbixOTS. All other components of OrbixSSL 3.3 SP 12 are activated by these license codes. The code is a long numeric string taking the general form:

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

Your license code should be included in a loose sheet in your OrbixSSL 3.3 SP 12 pack. Otherwise, because OrbixSSL 3.3 SP 12 is a service pack release of Orbix 3.3, the license codes provided for Orbix 3.3 are valid for OrbixSSL 3.3 SP 12. If you do not have any license codes, please contact Support before proceeding any further.

Prerequisites to Installing OrbixSSL 3.3 SP 12

Existing Orbix installations

You must install OrbixSSL 3.3 SP 12 into the same location as an existing Orbix 3.3 SP 12 Java Edition or C++ Edition installation. The existing installation is updated by the OrbixSSL 3.3 SP 12 installation.

Note: Do not install OrbixSSL 3.3 SP 12 on to an older version of Orbix.

Installation prerequisites

The installation prerequisites are as follows:

Prerequisite	Notes
Privileges	**General** To install in a non-default location, you must have permission to create files and directories in that location. **Windows** To install in the default location, Windows users must have administrator privileges. **UNIX** To install into the default location, UNIX users must have root privileges.

UNIX DISPLAY	The installer was built using InstallAnywhere, which is a GUI application. To install OrbixSSL 3.3 SP 12 without the GUI, see "Installing OrbixSSL 3.3 SP 12 without the GUI" on page 9.
	For a GUI application to run on UNIX, you need to install on a UNIX host with X and a windowing environment configured. You need to ensure your display environment variable is set to the workstation you are logged into. For example, set the following environment variable, substituting the full Domain Name System (DNS) name of your workstation for
	`<full-DNS-name> i.e.`
	`export DISPLAY=<full-DNS-name>:0.0`
	
	Contact your system administrator if you require assistance.

JRE	The installer was built using InstallAnywhere, which is a Java application, and requires a JRE. You must provide the location of the JRE for the installation to run. You need access on all platforms to an existing JRE (or JDK). Alternatively, you should obtain and install the JRE yourself on your system before running the installer. When installing a JRE, install all required patches on all platforms.

Prerequisite	Notes
Domain name	The installer requires your domain name for OrbixSSL 3.3 SP 12 configuration. The Domain Name System (DNS) to resolve Internet or UNIX computer names. Contact your network administrator to obtain the domain name for your TCP/IP internet prior to installing Orbix 3.3 SP 12.

CD-ROM location of installers

The OrbixSSL 3.3 SP 12 installers on the CD-ROM are located in a specific directory for each platform. Browse the CD-ROM to find the installer for your platform.

Mounting the CD-ROM

The following commands can be used to mount the CD-ROM on the platforms indicated:

Platform	Command
Windows	No command required for Windows.
Solaris	`mount -F hsfs -o ro /dev/dsk/clt6d0s0 /cdrom`
HP-UX	`mount -F cdfs -o cdcase /dev/dsk/c3t2d0 /cdrom`

Depending on your system configuration, `/cdrom` might have to be replaced with a different mount point. Contact your system administrator if you require assistance with this.

The values shown for the UNIX device controller are examples only and will vary depending on your system.

Operating systems and compilers

Please refer to the following web page for the latest information on platforms supported by Orbix 3.3 SP 12:

http://supportline.microfocus.com/productdoc.aspx

Disk space requirements

The following table lists the approximate amount of disk space taken up by the OrbixSSL 3.3 files. The install program also requires approximately 50 MB of temporary work space.

Component	Linux	Windows	Tru64	AIX 5.2	AIX 5.3
OrbixSSL	30 MB	30 MB	30 MB	30 MB	30 MB

Note: On Windows, please check that you have enough disk space before starting the installation.

Default location

Please install OrbixSSL 3.3 SP 12 into an existing Orbix 3.3 SP 12 installation. Select the same location as your Orbix 3.3 SP 12 installation.

The default location of your Orbix 3.3 installation is as follows:

Platfform	Default Location
UNIX main installation	`/opt/microfocus/orbix33`
Windows	`C:\Program Files\MicroFocus\Orbix 3.3 SP12 for Windows`

Note: OrbixSSL 3.3 SP 12 installs in a fixed location relative to the path you specify. Installing into a non-default location creates a copy of the default location path relative to the non-default location. Installing in locations with spaces in their directory names is not recommended.

Installing OrbixSSL 3.3 SP 12 without the GUI

Overview

Installing OrbixSSL 3.3 SP 12 in silent install mode allows you to run the installer without using the GUI. The silent mode installer looks to a template file that provides the required information.

Installing in silent mode

To install in silent mode, use the following command:

```
$ ./install.bin -f /path/to/template.file
```

template.file should contain the following information:

```
##Specimen properties for Solaris 2.9 silent install with licence codes

##-------------------------------------------------------------------------

##C++, Java, and OTS

##-------------------------------------------------------------------------

##Specify the directory where you want Orbix 3.3 SP 12 installed
USER_INSTALL_DIR=/path/to/install/dir

##Specify the location of your Java Developemnt Kit

JAVA_LOCATION=/path/to/jdk/dir

##Specify your Java version
JAVA_VERSION=1.6

##Specify a silent install
INSTALLER_UI=SILENT

##Specify the components of Orbix you want to install

PRODUCTS="Orbix 3.3 - Java Edition and C++ Edition with OrbixOTS 3.3"

##Specify your licence keys: c++, java, and ots
LICENCE_KEY_1=<Licence Key1> LICENCE_KEY_2=<Licence Key2>
LICENCE_KEY_3=<Licence Key2>

##Specify the domain for the installation

DOMAIN=microfocus.com
```

Installing OrbixSSL 3.3 SP 12 with the GUI

Overview

This section describes how to install OrbixSSL 3.3. SP 12 using the GUI installer, which is based on InstallAnywhere.

Installation steps

To install OrbixSSL 3.3. SP 12 using the GUI, perform the following steps:

1. In the **Locate Orbix 3.3 Installation** screen, enter the file location that you wish to install OrbixSSL 3.3 SP 12 into, and click **Next** to continue.

   Note: You must have permission to create files and directories in this location.

2. In the **License Agreement** screen, click **Yes** to agree to the terms of the License Agreement, and click **Next** to continue.

3. In the **License Information** screen, enter your license code. Click **Next** to continue.

4. In the **Domain Information** screen, enter your domain information, and click **Next** to continue.

5. In the **JDK Configuration** screen, enter the location of your Java Development Kit. This is not required for OrbixSSL 3.3 SP 12 C++ Edition. Click **Install** to continue.

6. A progress bar is displayed while the files are installed.

7. After the installation is complete, the Orbix welcome page launches automatically.

8. In the **Reboot Computer** screen, choose whether to restart your computer now or later.

9. The **Install Complete** screen is displayed to confirm that the installation is finished. Click **Done** to finish the installation.

Verifying your Installation

Configuration checks

When the installation is complete, follow these steps to ensure correct operation:

1. Check the contents of the Orbix configuration files, to ensure that the specified directory paths and domain name match those for your site.

Platform	Location
UNIX	`$ORBIX_ROOT/config/orbixssl.cfg` `$ORBIX_ROOT/config/openssl.cnf`
Windows	`%ORBIX_ROOT%\config\orbixssl.cfg` `%ORBIX_ROOT%\config\openssl.cnf`

> **Note:** OrbixSSL security is initially disabled after installation as the default value of `IT_DISABLE` in `orbixssl.cfg` is set to `true`. For instructions on enabling OrbixSSL security, see chapter 2, Getting Started with OrbixSSL in OrbixSSL C++ Programmer's and Administrator's Guide, or OrbixSSL Java Programmer's and Administrator's Guide

2. Read the *OrbixSSL 3.3 SP 12 Release Notes*.
3. For instructions on how to run the example applications with OrbixSSL security, see chapter 2, Getting Started with OrbixSSL in the OrbixSSL C++ Programmer's and Administrator's Guide or OrbixSSL Java Programmer's and Administrator's Guide. The most up-to-date versions of all Orbix 3.3 documents are available on the Orbix 3.3 documentation web page.

Note: The certificates updated by the OrbixSSL update utility at installation time are for use by OrbixSSL example programs only, and should not be used for deployed applications. The process of creating and signing certificates is described in detail in Chapter 4 of the OrbixSSL C++ Programmer's and Administrator's Guide or the OrbixSSL Java Programmer's and Administrator's Guide.

Reinstalling the license code

If you entered the license authorization key incorrectly or left it blank during installation, you should reinstall OrbixSSL 3.3 SP 12.

Note: OrbixSSL 3.3 SP 12 is enabled with Orbix 3.3 SP 12 Java Edition or C++ Edition license codes.

Uninstalling OrbixSSL 3.3 SP 12

Uninstalling OrbixSSL

To uninstall OrbixSSL 3.3 SP 12, run the `UninstallOrbix` file in the `UninstallOrbix` directory of your OrbixSSL 3.3 SP 12 installation. For example:

Platform	Uninstall script
UNIX	`$ORBIX_ROOT/UninstallOrbix/UninstallOrbix`
Windows	`%ORBIX_ROOT%\UninstallOrbix\UninstallOrbi x`

Note: The uninstaller removes the complete installation of OrbixSSL 3.3 SP 12, but does not remove any files added or generated after installation (for example, log files, executables generated in demo runs, implementation repositories, and so on). If OrbixSSL has been installed, it should be uninstalled first.

Further Information

Technical support

If you require further technical assistance with using this product, please see the following web page:

http://supportline.microfocus.com