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Core Services
SSL Installation Guide

Version 3.3, Service Pack 11, March 2012

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Updated: 07-Mar-2012

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Installing OrbixSSL 3.3 SP 11 Core Services

This document provides instructions for installing OrbixSSL 3.3 SP 11 Core Services on Microsoft Windows, Red Hat Enterprise Linux, Sun Solaris, IBM AIX, and HP-UX. OrbixSSL 3.3 SP 11 Core Services requires an existing installation of Orbix 3.3 SP 11 Core Services.

In this chapter

This chapter discusses the following topics:

Introduction

Overview

This document provides instructions for installing OrbixSSL 3.3 SP 11 Core Services on the following platforms:

- Windows XP
- Windows 2003 Server
- Windows Vista
- Windows 2008 Server
- Windows 2008 Server R2
- Windows 7
- Red Hat Enterprise Linux 4
- Solaris 9
- Solaris 10 x86_64
- AIX 6.1
- HP-UX Itanium

OrbixSSL 3.3 SP 11 Core Services requires an existing installation of Orbix 3.3 SP 11 Core Services. OrbixSSL 3.3 SP 11 is enabled by license codes for Orbix 3.3 SP 11 Java Edition or Orbix 3.3 SP 11 C++ Edition.

Note: Due to legal restrictions in some countries, the OrbixSSL 3.3 SP 11 CD-ROM is not supplied with Orbix 3.3 SP 11.

JRE requirements

The OrbixSSL 3.3 SP 11 Core Services installation was built the Java-based InstallAnywhere, and requires a JRE (Java Runtime Environment). You should provide the JRE yourself (see "Installation prerequisites" on page 13), or use a pre-installed JRE or JDK before launching the installer.

Installation steps

To install OrbixSSL 3.3 SP 11 Core Services, follow these steps:

1. Check the prerequisites to installing OrbixSSL 3.3 SP 11 Core Services.
2. Install OrbixSSL 3.3 SP 11 Core Services on your host machine.
3. Verify your installation.

Before you begin your installation

Before installing OrbixSSL 3.3 SP 11 Core Services, see the Orbix 3.3 documentation web page:
http://communities.progress.com/pcom/docs/DOC-105909.

You should read the latest version of the *Orbix 3.3 SP 11 Release Notes*, and check for any updates to this installation guide.

> **Note:** OrbixSSL 3.3 SP 11 Core Services cannot be installed on machines that do not support 256 (8-bit) colors. The Orbix installer is a Java application built on the Java platform which does not support 16 colors.

> **Note:** When installing OrbixSSL 3.3 SP 11 Core Services over a PCAnywhere remote client, use a display resolution of type VGA (640 x 480).

Orbix 3.3 SP 11 Core Services license codes

You must have a valid license code to install OrbixSSL 3.3 SP 11 Core Services Java Edition, OrbixSSL 3.3 SP 11 Core Services C++ Edition, and OrbixNames. All other components of OrbixSSL 3.3 SP 11 Core Services 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 11 Core Services pack. Otherwise, because OrbixSSL 3.3 SP 11 Core Services is a service pack release of Orbix 3.3, the license codes provided for Orbix 3.3 are valid for OrbixSSL 3.3 SP 11 Core Services. If you do not have any license codes, please contact Support before proceeding any further.

Prerequisites to Installing OrbixSSL 3.3 SP 11 Core Services

Existing Orbix installations

You must install OrbixSSL 3.3 SP 11 Core Services into the same location as an existing Orbix 3.3 SP 11 Core Services Java Edition or C++ Edition installation. The existing installation is updated by the OrbixSSL 3.3 SP 11 Core Services installation.

Note: Do not install OrbixSSL 3.3 SP 11 Core Services 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.

Prerequisite	Notes
UNIX DISPLAY	The installer was built using InstallAnywhere, which is a GUI application. To install without the GUI, see "Installing OrbixSSL 3.3 SP 11 Core Services without the GUI" on page 19. For a GUI application to run on UNIX, you need to install on a UNIX host with X and a windowing environment configured. 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 `imaginary.dublin.mycorp.ie`: `export DISPLAY=imaginary.dublin.mycorp.ie: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 (Java Runtime Environment). 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.
Domain name	The installer requires your domain name for OrbixSSL 3.3 SP 11 Core Services configuration. The Domain Name System (DNS) is used to resolve Internet or UNIX computer names. Contact your network administrator to obtain the domain name for your TCP/IP internet before installing OrbixSSL 3.3 SP 11 Core Services.

CD-ROM Location of installers The OrbixSSL 3.3 Core Services SP 11 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 example commands can be used to mount the CD-ROM:

Platform	Command
Windows	No command required
Linux	`mount -t iso9660 /dev/cdrom /cdrom`
Solaris	`mount -r -F hsfs /dev/c0t0d0s2 /cdrom`
AIX	`mount -o ro -v cdrfs /dev/cd0 /cdrom`
HP-UX	`mount -t cdfs -o cdcase /dev/dsk/c3t2d0 /cdrom`

The commands used to mount the CD-ROM will vary depending on your system configuration. For example, `/cdrom` might need to be replaced with a different mount point. Contact your system administrator if you require assistance.

In addition, you can simplify this process using tools such as vold on Solaris and Linux, or smitty on AIX.

Operating systems and compilers   Please refer to the following web page for the latest information on platforms supported by Orbix 3.3 SP11:

http://web.progress.com/orbix/supported_platforms.html.

Disk space requirements

The OrbixSSL 3.3 Core Services files take up approximately 30 MB of disk space on all platforms. The installer also requires approximately 50 MB of temporary work space.

> **Note:** On Windows, ensure that you have enough disk space before starting the installation.

Default location

Install OrbixSSL 3.3 SP 11 Core Services into the same location as an existing Orbix 3.3 SP 11 Core Services installation.

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

Platform	Default Location
UNIX main installation	`/opt/progress/orbix33`
Windows	`C:\Program Files\Progress\Orbix 3.3 SP11 for Windows`

> **Note:** OrbixSSL 3.3 SP 11 Core Services 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 11 Core Services without the GUI

Overview

Installing OrbixSSL 3.3 SP 11 Core Services 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, enter the following command:

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

In this case, `template.file` contains the following information.

```
##Specimen properties with operating system licence codes.
##------------------------------------------------------------------
##C++ and Java
##------------------------------------------------------------------
##Specify the directory where you want Orbix 3.3 SP 11 installed
USER_INSTALL_DIR=/local/install/dir
##Specify the location of your Java Developemnt Kit
JAVA_LOCATION=/local/java/install/dir
JAVA_VERSION=1.5
INSTALLER_UI=SILENT
##Specify the components of Orbix you want to install
PRODUCTS="Orbix 3.3 - Java Edition and C++ Edition"
## Specify your licence key: c++ and java
LICENCE_KEY_1=<Licence Key1>
LICENCE_KEY_2=<Licence Key2>
##Specify the domain for the installation
DOMAIN=emea.progress.com
##------------------------------------------------------------------
```

Installing OrbixSSL 3.3 SP 11 Core Services with the GUI

Overview

This section describes how to install OrbixSSL 3.3. SP 11 using the GUI installer, which is based on InstallAnywhere.

Installation steps

To install OrbixSSL 3.3. SP 11 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 11 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 11 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 OrbixSSL 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 disabled after installation because the default value of `IT_DISABLE` in `orbixssl.cfg` is `true`. 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* for details on enabling security.

2. Read the *OrbixSSL 3.3 SP 11 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 OrbixSSL example programs only. They should not be used for deployed applications. Creating and signing certificates is described in Chapter 4 of the *OrbixSSL C++ Programmer's and Administrator's Guide* or *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 11 Core Services.

> **Note:** OrbixSSL 3.3 SP 11 Core Services is enabled with Orbix 3.3 SP 11 Core Services Java Edition or Orbix 3.3 SP 11 Core Services C++ Edition license codes.

Uninstalling OrbixSSL 3.3 SP 11 Core Services

Uninstalling OrbixSSL

To uninstall OrbixSSL 3.3 SP 11 Core Services, run the `UninstallOrbix` file in the `UninstallOrbix` directory of your OrbixSSL 3.3 SP 11 Core Services installation. The following are example locations:

Platform	Uninstall script
UNIX	`$ORBIX_ROOT/UninstallOrbix/UninstallOrbix`
Windows	`%ORBIX_ROOT%\UninstallOrbix\UninstallOrbix.exe`

Note: The uninstaller removes the complete installation of OrbixSSL 3.3 SP 11 Core Services, but does not remove any files that were added or generated after installation (for example, log files, executables generated in demonstration 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://www.progress.com/support_main/index.ssp