

Intel® XML Software Suite 1.0 for C/C++ Installation Guide

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Introduction

This document describes how to install and configure Intel® XML Software Suite 1.0 for C/C++. The installation is a multi-step process, so please read this document up to the end before installing the product and follow the steps in sequence. For information about the product contents, including new and changed features, please refer to [Release Notes](#).

Upgrade Path

If you have a previous version of Intel® XML Software Suite 1.0 installed or if you wish to upgrade your license of Intel® XML Software Suite 1.0 from evaluation to commercial, you need to uninstall it before installing this version.

System Requirements

Intel® XML Software Suite for C/C++ runs on Windows* and Linux* operating systems on IA-32 and Intel® 64 architectures. The following table includes the software and hardware requirements for this release:

	Supported Software and Hardware
Operating Systems	Windows* <ul style="list-style-type: none">• Microsoft Windows Server 2003 Standard Edition*• Microsoft Windows Server 2003 Enterprise Edition*• Microsoft Windows Server 2003 DataCenter Edition*• Microsoft Windows Vista*• Microsoft Windows Server 2008*• Microsoft Windows XP* Linux* <ul style="list-style-type: none">• Red Hat Enterprise Linux* AS 4.0 - 2.6 kernel• Red Hat Enterprise Linux* ES 4.0 - 2.6 kernel• Red Hat Enterprise Linux* AS 3.0 - 2.4 kernel• Red Hat Enterprise Linux* ES 3.0 - 2.4 kernel

- SUSE* Linux Enterprise Server 10 - 2.6 kernel
- SUSE* Linux Enterprise Server 9 - 2.6 kernel

Processor Requirements

32-bit Intel® Architecture Platforms

- Intel® Core™2 Duo processors
- Intel® Core™ microarchitecture
- Intel® Xeon® processors
- Other compatible processors, such as AMD Opteron* processors

64-bit Intel® 64 Architecture Platforms

- Intel® Core™2 Duo processors
- Intel® Xeon® processors
- Other compatible processors, such as AMD Opteron* processors

System Memory

1GB Minimum, 4GB Recommended

Minimum Disk Space for Install

350 MB of free hard disk space (host system only)

Note:

Intel XML Software Suite is not supported on the Intel® Itanium® architecture. Best performance is obtained on Dual-Core Intel® Xeon® processor.

C++ Compiler Support on Linux* OS

For C++ compilers compatible with gcc 3.4.2 on Linux* OS that require linking to `libstdc++.so.6`, it is recommended that you use `libintel-xss.so`. For C++ compilers compatible with gcc 3.3.3 on Linux* that require linking to `libstdc++.so.5`, it is recommended that you use `libintel-xss-gcc3.3.3.so` located in the same directory. When using the version-specific libraries, please be aware of the following:

- Platform dependency: The compiler and other tools are 32-bit or 64-bit applications that dynamically link to these `libstdc++.so.*` libraries. If the libraries are not installed, the following error may be displayed when the compiler is invoked: "error while loading shared libraries: `libstdc++.so.5`: cannot open shared object file: No such file or directory". The error message is confusing as it does not indicate that the 32-bit or 64-bit version of `libstdc++.so.5` is required. To avoid this problem, be sure that the required 32-bit or 64-bit versions of these libraries are installed. Most, but not all, Linux distributions for Intel® 64 architectures will install these by default. Consult the documentation for your Linux distribution for instructions on installing the 32-bit libraries, typically in packages `libstdc++` and `libc`. If you still have problems, please contact Intel® Premier Support for further assistance.
- Malformed XML input: The libraries compatible with gcc 3.3.3 might cause a core dump when processing mal-formed XML data leading to exception handling. This issue occurs only on Red Hat Enterprise Linux* 3 and SUSE* Linux Enterprise Server 9 with gcc

3.3.3 installed in the default configuration. To avoid this problem, it is recommended that you install gcc 3.4.2 or libstdc++.so.6, and use the original libintel-xss.so library, which is dynamically linked to libstdc++.so.6.

- Linking to static libraries libintel-xss*.a: Some versions of the ld linker may produce warnings about a ".gnu.linkonce.t*" symbol defined in a discarded section. You can safely ignore such warnings, because the linking is actually correct, and the warnings are caused by an error in GNU g++, see the corresponding Bugzilla entry http://gcc.gnu.org/bugzilla/show_bug.cgi?id=16625.
- Static libraries link option: Depending on your compilation and link environment, you may need to specify the option -lstdc++ -lpthread -ldl when linking with libintel-xss-static.a or libintel-xss-static-gcc3.3.3.a. These libraries are not pre-linked (or packed) with standard libraries, such as stdc++, pthread, and dl. However, some compilers, such as g++, link stdc++ and dl by default, so that the corresponding linking options can be omitted.

Note:

The version of the library specific for gcc 3.3.3 and static libraries are only available in the full version of the package, not in the evaluation version.

Obtaining Intel® XML Software Suite

You can download a commercial or an evaluation version of Intel® XML Software Suite via [Intel® Registration Center](#). Please register for Intel® Premium Support after completing the downloads, see [Obtaining Technical Support](#). CD versions of the product will be available at the beginning of 2008.

Installing Intel® XML Software Suite

Intel® XML Software Suite is an XML processing library that reads and manipulates input data as required by your application. Intel XML Software Suite covers all major stages of XML data processing. In addition to the binary files for XML processing, the package also contains documentation files and buildable sample application code.

The package is delivered as a compressed archive: the gzipped tar file for the Linux* operating system and the exe file for the Windows* operating system respectively:

```
Windows*: intel-xssc-1_0_0_p-win-flex.exe  
Linux*: intel-xssc-1_0_0_p-linux-flex.tgz
```

See the product [Release Notes](#) for known issues related to installation.

To install Intel XML Software Suite, follow the instructions below.

On Windows* OS:

1. Start the installation:
 1. If you received Intel® XML Software Suite on CD, insert it in a CD-ROM drive to start the setup automatically. If the installation program does not start, find and double-click the file Setup.exe on your CD.
 2. If you received Intel® XML Software Suite as a download, double-click the downloaded intel-xssc-1_0_0_p-win-flex.exe file to start the setup.

Before the installation starts, the installation program unpacks the self-extracting file and locates files in the C:\Program Files\Intel\Download\XMLSoftwareSuite\CPP\1.0 directory. If this folder already exists, the installation program suggests overwriting its contents.

The Intel® Software Intel® Software Setup Assistant program appears that will guide you through the installation process.

2. Click **Next** in the dialog box.
3. When prompted by Intel® Software Setup Assistant, provide the license number. It is recommended to enter the serial number provided by Intel or your reseller. If you have an Internet connection, Intel® Software Setup Assistant contacts Intel, retrieves a license, and installs it on your computer. If an Internet connection is not available, the program installs a default license, which permits using the libraries, but does not enable updates.

If a problem occurs with the method mentioned above, specify the path to an existing license found on the system by clicking "..." in the dialog box.

Make your selection and click **Next**.

4. Accept the license agreement and click **Next**.
5. Input customer information and click **Next**.
6. Specify the installation location. You may accept the default installation directory C:\Program Files\Intel\XMLSoftwareSuite\CPP\1.0 or choose a different one.

Make your selection and click **Next**.

7. Choose or check a platform to register the environment variables `PATH`, `INCLUDE` and `LIB`.

You can choose not to register variables during installation, and configure the environment later by running the scripts under `\Tools` in your chosen installation directory.

8. Click the **Install** button to start the installation.
9. When the installation completes, click **Finish** to exit Software Intel® Software Setup Assistant. If you have not registered the serial number, Intel Software Setup Assistant prompts a message box to let you provide your email address.

On Linux* OS:

1. Start the installation:
 1. If you received Intel® XML Software Suite on CD, insert it in a CD-ROM drive to start the setup automatically.
 2. If you received Intel® XML Software Suite as a download, extract the downloaded `intel-xssc-1_0_0_p-linux-flex.tgz` file to the specified folder and go to the location of the extracted installation files.

Type `./install.sh` on the console to start the installation.

2. Select the `root`, `sudo` to `root` or the current installation mode.
3. Enter the password to log in, if necessary.
4. When prompted by Intel® Software Setup Assistant, provide the license number performing one of the following actions:

1. (recommended) Use the existing license found on the system.
2. Provide the absolute path for an existing license file.
3. Enter the serial number provided by Intel or your reseller.

If you have an Internet connection, Intel® Software Setup Assistant contacts Intel, retrieves a license, and installs it on your computer. If an Internet connection is not available, the program installs a default license, which permits using the libraries, but does not enable updates.

Make your selection and press **Enter**.

5. Read the license agreement and type `accept` at the end to continue.
6. Specify the product installation location. You may accept the default installation directory `/opt/intel/xmlsoftwaresuite/cpp/1.0` or choose a different one.

Make your selection and press **Enter** to continue.

7. When the installation completes, press **Enter**. If you have not registered the serial number, Intel Software Setup Assistant prompts a message box to let you provide your email address.
8. To exit Intel® Software Setup Assistant, type `x` on the final screen.
9. To set the environment variables, use the appropriate script `xssvars32.sh`, `xssvars64.sh`, `xssvars32.csh`, or `xssvars64.csh` in the `tools` directory under the chosen installation directory.

Uninstalling Intel® XML Software Suite

To uninstall Intel® XML Software Suite for C/C++, follow the instructions below.

On Windows* OS:

1. Choose **Start > Control Panel > Add or Remove Programs**.
2. Find the **Intel(R) XML Software Suite 1.0 for C/C++** item.
3. Click **Remove**.

On Linux* OS:

1. Go to the installation directory.
2. Type `./uninstall.sh` on the console.
3. Enter the root password, if necessary.

Note:

Uninstalling Intel XML Software Suite does not delete the corresponding license file.

Obtaining Technical Support

Your feedback is very important to us. To receive technical support for the tools provided in this product and technical information including FAQ's and product updates, you need to be registered for an Intel® Premier Support account on our secure web site, <https://premier.intel.com>. If you did not register during the installation process, please register at Intel® Registration Center, <https://registrationcenter.intel.com/regcenter/register.aspx>.

Note:

If you have questions or problems getting started with Intel XML Software Suite, please

go to <https://registrationcenter.intel.com/support/>.

For general support information, please visit <http://www.intel.com/software/products/support/>.

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