



Intel® Parallel Studio XE 2016

Installation Guide for Windows* OS

22 July 2015

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1 Introduction

This document explains how to install the Intel® Parallel Studio XE on a Windows* OS system. Depending on the license you have, the installer performs the installation of one of the following product editions:

- Intel® Parallel Studio XE Composer Edition
- Intel® Parallel Studio XE Professional Edition
- Intel® Parallel Studio XE Cluster Edition

For differences in contents of each edition, see Release Notes.

Intel® Parallel Studio XE for Windows* OS provides Microsoft* Visual Studio* 2013 Shell. As a prerequisite, if you install the included Microsoft* Visual Studio* 2013 Shell, additional Microsoft software may be required to be installed prior to beginning the installation of Intel® Parallel Studio XE. Microsoft .NET* 4.0 Framework is required for Microsoft* Visual Studio* 2013 Shell. If you have not installed it already, you can [download](#) the installer.

To install Intel® Parallel Studio XE on Windows* OS, you can use:

- **Offline Installer** package that contains all the components of the product
- **Online Installer** – a small installation file that downloads and installs only specified components of the product. The installer downloads the components prior to the installation, so you can install the product in the offline mode and/or on another machine using the --download-only option.

The Intel® Parallel Studio XE installer automatically makes the appropriate selection of binaries, scripts, and text files from its installation archive based on the Intel® architecture of the host system where the installation process is initiated. You do not have to worry about selecting the correct software component names for the given Intel® architecture.

If the installation directory requires system administrative write privileges (for example, C:\Program Files (x86)), and your login account does not have administrative access, you may need assistance from your system administrator in installing the associated software packages on your cluster system.

Intel® Parallel Studio XE 2016 introduces a major change to the 'Named-user' licensing scheme provided as default for the 2016 licenses. The 'Named-user' license provisions in the Intel software EULA have changed to only allow the software to be installed on up to three systems. See Release Notes for details.

2 Installing the Product

Intel Parallel Studio XE Cluster Edition installer package has the following naming convention:

```
parallel_studio_xe_<major>_[beta_] [update<update>_] [online_]setup.exe
```

where

- <major> is the product release version. For example, 2016.
- <update> is an update number. For example, 1.

For example, a typical name may look as follows: `parallel_studio_xe_2016_setup.exe` or `parallel_studio_xe_2016_online_setup.exe`

You may want to use specific installer options. For the list of all available options, run the installer from the command line with the `--help` option. For example, for the offline installer:

```
parallel_studio_xe_2016_setup.exe --help
```

2.1 Installation with Offline Installer

To start the installation with the Offline Installer, go to the staging folder where the installation package is located and double-click the executable file. To run the installation with specific options, run the installer from the command line with the required options.

See the [Installation Process](#) section below for further instructions.

2.2 Installation with Online Installer

Choose one of the following installation options:

- Install the product on current machine with no interruptions during the installation. The installer will download and install the selected components automatically. This process requires an active internet connection.

To start the installation, double-click the executable file or run it from the command line with the required options. See the Installation Process section below for further instructions.

- Install on another system, or offline. Download the installation package with only selected components and use the package later or on another machine. Do the following:
 1. Run the executable file from the command line with the `--download-only` option. Use the `--download-dir=<folder>` option to set the location where the offline installation package will be downloaded. You can also specify the download location in the installation wizard.
 2. Follow the installation wizard instructions. You will be able to:
 - Select the product activation method
 - Select the architecture for which you want to build your applications
 - Select the components to download

Once you have completed these steps, the installer will download the customized installation package to the download location.

3. Go to the download location and run the executable file to start the installation. See the [Installation Process](#) section below for further instructions.

You can also use this package to install the product on another machine. This step does not require internet connection.

2.3 Installation Process

The installation process is identical for both Online and Offline installers.

The left side bar of the installation panel provides a progress report showing the current stage of the installation process:

- Welcome
- License
- Activation
- Options
- Installation
- Complete

During the **Activation** step, you can:

- Evaluate the product, where no serial number is required (this option is not available for Beta releases)
- Provide a serial number
- Choose an alternative activation, such as:
 - Use a license file
 - Use a license manager

Upon completion of the **Activation** step, you see the **Installation Summary** dialog with the **Customize** button at the bottom of it. Pressing the **Customize** button, you activate the **Options** step, which enables you to:

- Select architecture of the components
- Select components to install
- Change install path
- Enable/disable cluster install (Intel® Parallel Studio XE Cluster Edition only)

If you have configured your cluster with Microsoft* HPC Pack*, the installer can detect the nodes of your cluster and prompt you to install the product on the detected nodes (enabled by default).

After you have completed these steps, press the **Install** button to start the installation process.

2.4 Silent Install Mode

You can install the Intel® Parallel Studio XE using the silent installation mode that does not require human interaction. This helps you install the Intel® Parallel Studio XE software on clusters that contain many nodes. Do the following:

1. Go to the head node of the cluster.
2. Copy the license file into the C:\Program Files (x86)\Common Files\Intel\Licenses directory.
3. Open a command-line window and go to the directory where the installer package is located.
4. In the command-line window, execute the following command:

```
parallel_studio_xe_<major>_[beta_] [update<update>_]setup.exe --silent -  
a install --eula=accept --output=<logfile>
```

An example install command line may look as follows:

```
parallel_studio_xe_2016_setup.exe --silent -a install --eula=accept --  
output=install.log
```

For step 4 above, the command-line option `-a` indicates an action and therefore `-a install` after `--silent` means that the action is to install the software package. The `--output` option is used to specify the name of the installation log file.

For clusters using Windows* OS, the installation process described above distributes all the Intel® Parallel Studio XE software components onto all the compute nodes and the head node of the cluster.

3 Installation Folders

Following a successful installation, the files associated with Intel® Parallel Studio XE appear on your host system. The following table indicates the default structure and identifies the file types stored in each subfolder. Note that some of the folders below may be missing depending on the edition of Intel Parallel Studio XE you have installed.

The default installation directory is: C:\Program Files (x86)\IntelSWTools

| Folder | Description |
|--------------------------|---|
| Advisor XE | Symbolic link to the Intel® Advisor XE subdirectory |
| Advisor XE 2016 | Subdirectory for Intel® Advisor XE 2016 |
| compilers_and_libraries | Symbolic link to the latest version of the Intel® Parallel Studio XE compilers and libraries products |
| compilers_and_libraries_ | Subdirectory containing symbolic links to Intel® Parallel Studio XE 2016 compilers and libraries products |

| | |
|---|---|
| 2016 | |
| compilers_and_libraries_2016.x.xxx | Subdirectory for each update of the Intel® Parallel Studio XE 2016 compilers and libraries products |
| debugger_2016 | Subdirectory containing debugger of Intel® Parallel Studio XE 2016 |
| documentation_2016 | Subdirectory for the Intel® Parallel Studio XE 2016 documentation |
| ide_support_2016 | Subdirectory containing IDE support of Intel® Parallel Studio XE 2016 |
| imb | Subdirectory for Intel® MPI Benchmarks packages (old versions) and symbolic links (newer version) |
| Inspector XE | Symbolic link to the latest version of Intel® Inspector XE |
| Inspector XE 2016 | Subdirectory for Intel® Inspector XE 2016 |
| itac | Symbolic link to the latest version of Intel® Trace Analyzer and Collector installed |
| itac_9.1 | Symbolic link to the latest update of Intel® Trace Analyzer and Collector 9.1 |
| mpi | Subdirectory for the Intel® MPI Library packages (old versions) and symbolic links (newer version) |
| parallel_studio_xe_2016.x.xxx | Subdirectory for Intel® Parallel Studio XE 2016 with the build environment scripts and symbolic links to the installed components |
| <ul style="list-style-type: none"> • bin • licensing • <component links> | Location of psxevars.bat Location of the licensing files |
| samples_2016 | Subdirectory containing samples/tests for Intel® Parallel Studio XE 2016 |
| Trace Analyzer and Collector | Subdirectory for Intel® Trace Analyzer and Collector |
| VTune Amplifier XE | Symbolic link to the Intel® VTune Amplifier XE subdirectory |
| VTune Amplifier XE 2016 | Subdirectory for Intel® VTune Amplifier XE 2016 |

4 Getting Started

See the Getting Started page to get the information about the components installed and instructions on how to get started with the product.

The document is located at:

```
<install_dir>/documentation_2016/en/ps2016/getstart_*.htm
```

5 Uninstalling the Product

To uninstall Intel® Parallel Studio XE, from **Control Panel** select **Programs: Uninstall a program** to launch the **Programs and Features** display panel, and select Intel® Parallel Studio XE to remove.

6 Legal Information

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