



SIEMENS EDA

ODB++ Inside for Cadence® Allegro® Installation Guide

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Table of Contents

Chapter 1

ODB++ Inside Installation 5

 Running the Installer 5

 Installation Directory Structure 11

 Troubleshooting the ODB++ Inside Installation 13

Chapter 1

ODB++ Inside Installation

This document provides instructions for installing the ODB++ Inside for Cadence Allegro software on a supported operating system.

| | |
|---|-----------|
| Running the Installer..... | 5 |
| Installation Directory Structure..... | 11 |
| Troubleshooting the ODB++ Inside Installation..... | 13 |

Running the Installer

As you run the installation wizard, you must specify the locations of the ODB++ Inside directories. System files may be installed on a central computer accessible to all workstations that will be running the ODB++ Inside software.

Note



The screen captures below are related to Windows installation. For the differences between Windows and Linux directory paths, see “[Installation Directory Structure](#)” on page 11.

The directory paths can use Windows or Linux network shares instead of drive letters. For example, the path to the Valor System Directory, VALOR_DIR, can be `\\my_server\ODB++_Inside_Cadence_Allegro\brd2odb_dir`.

Restrictions and Limitations

- No special characters other than Underscore (`_`) and Dash (`-`) are allowed in the paths to the ODB++ Inside install directories.

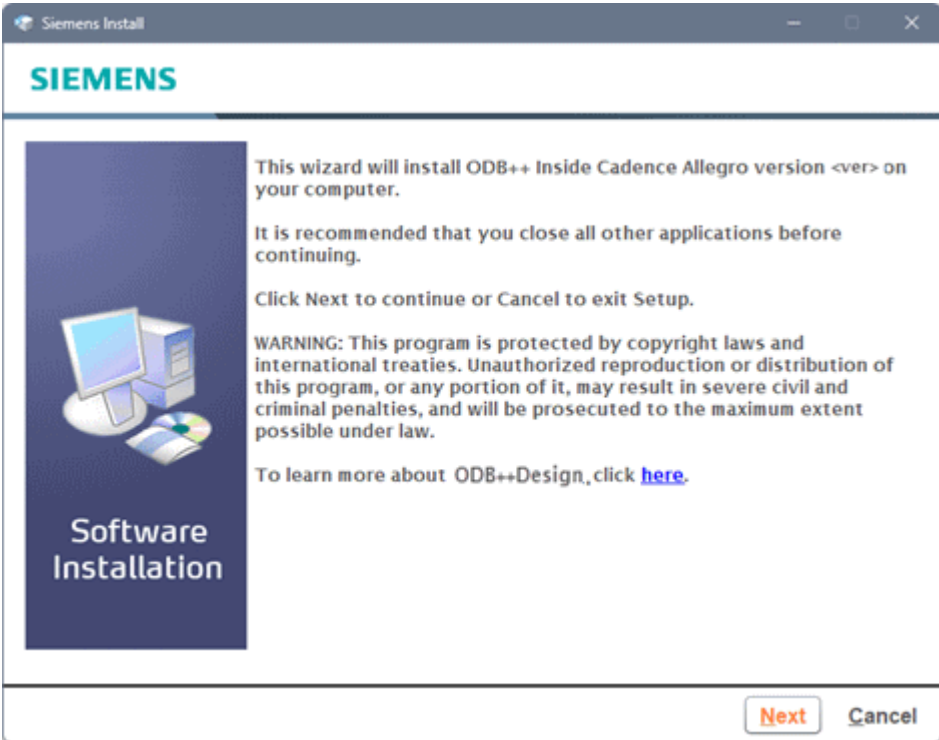
Prerequisites

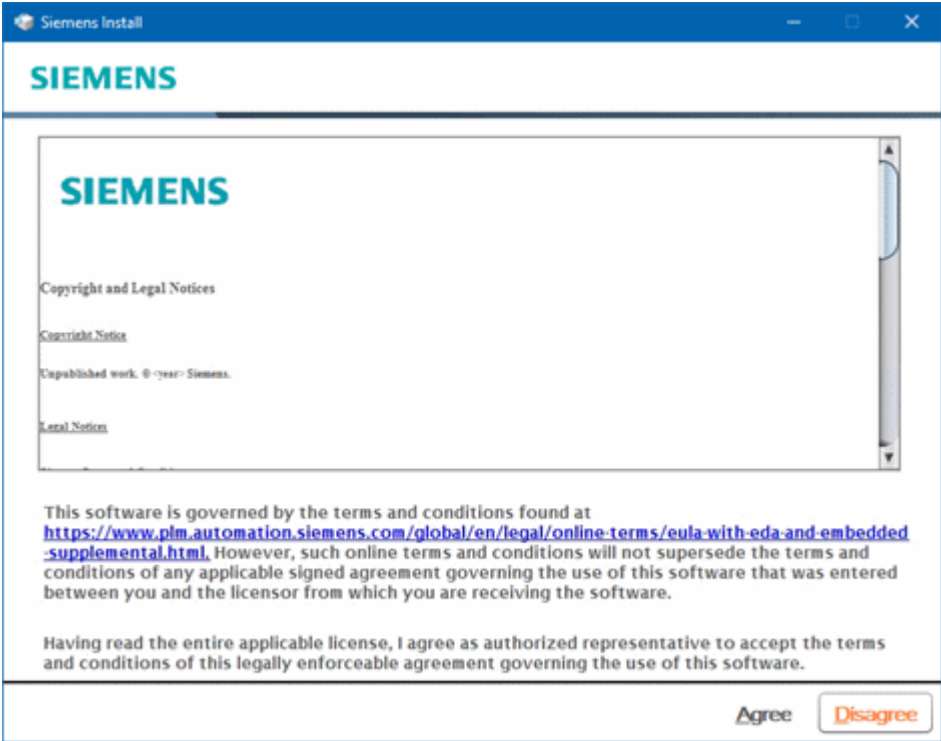
- Access to the installer executable. The installation package is available on the Download page of the ODB++Design website:
 - (Windows) `ODB++_Inside_Cadence_Allegro_<ver>_Windows_64_SA_Setup.zip`
 - (Linux) `ODB++_Inside_Cadence_Allegro_<ver>_Linux_64_SA_Setup.tar`
- (Linux) Root privileges on the machine where ODB++ Inside will be installed.


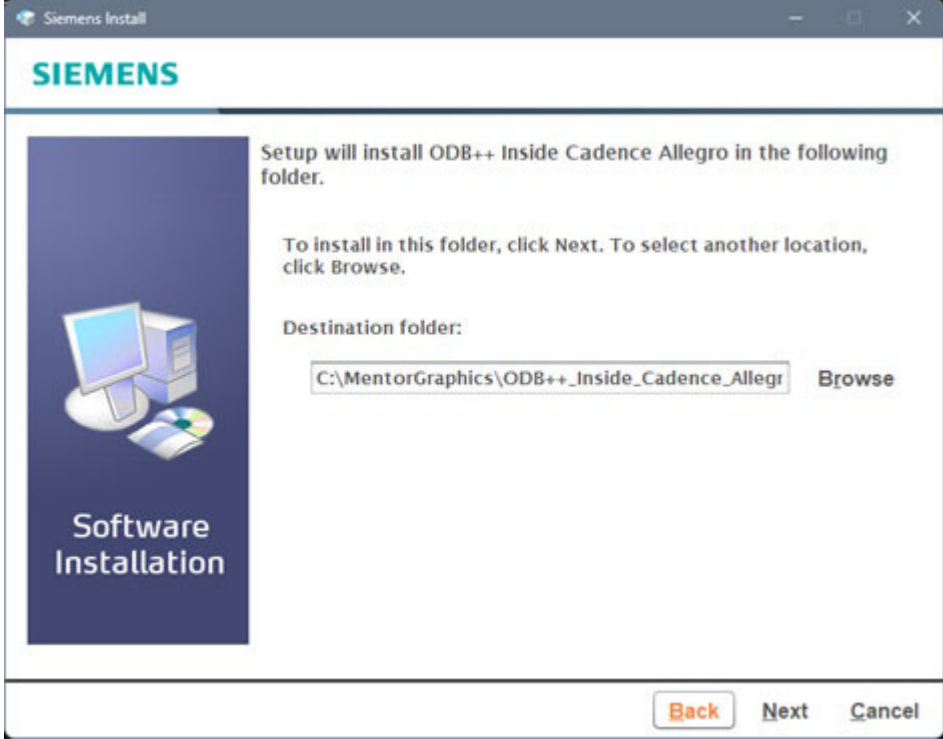
Procedure

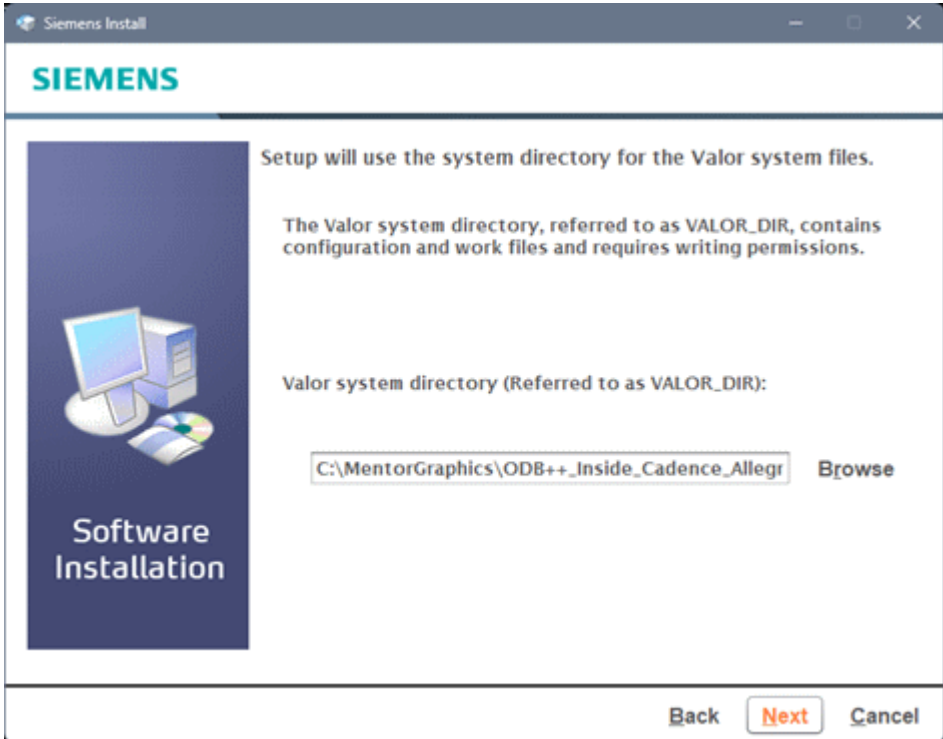
1. Log in with administrator rights.
2. Close all open applications.

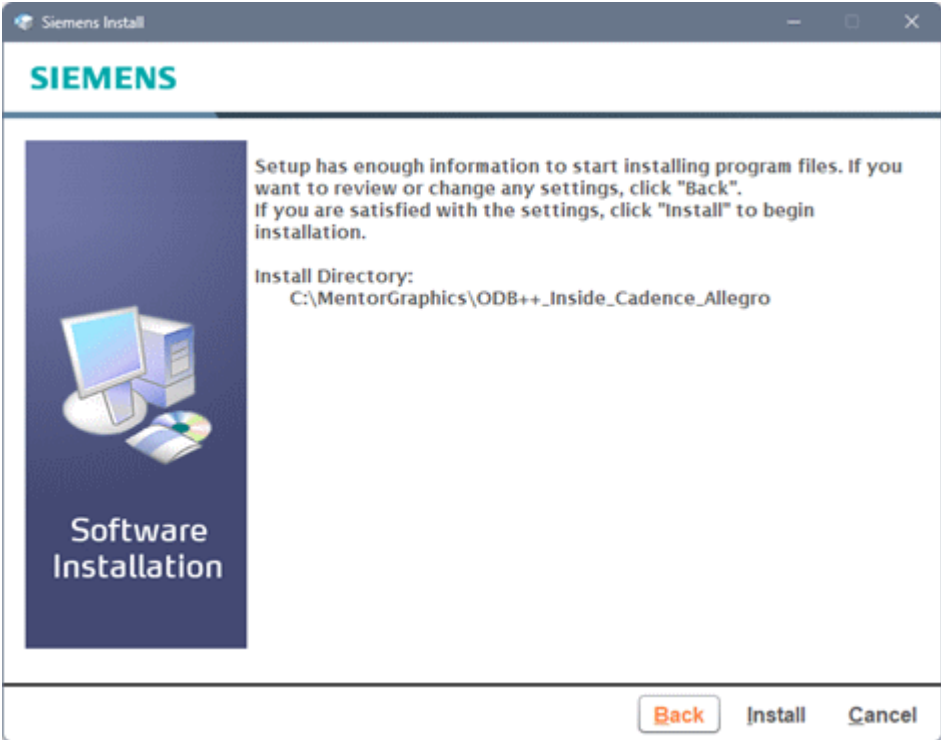
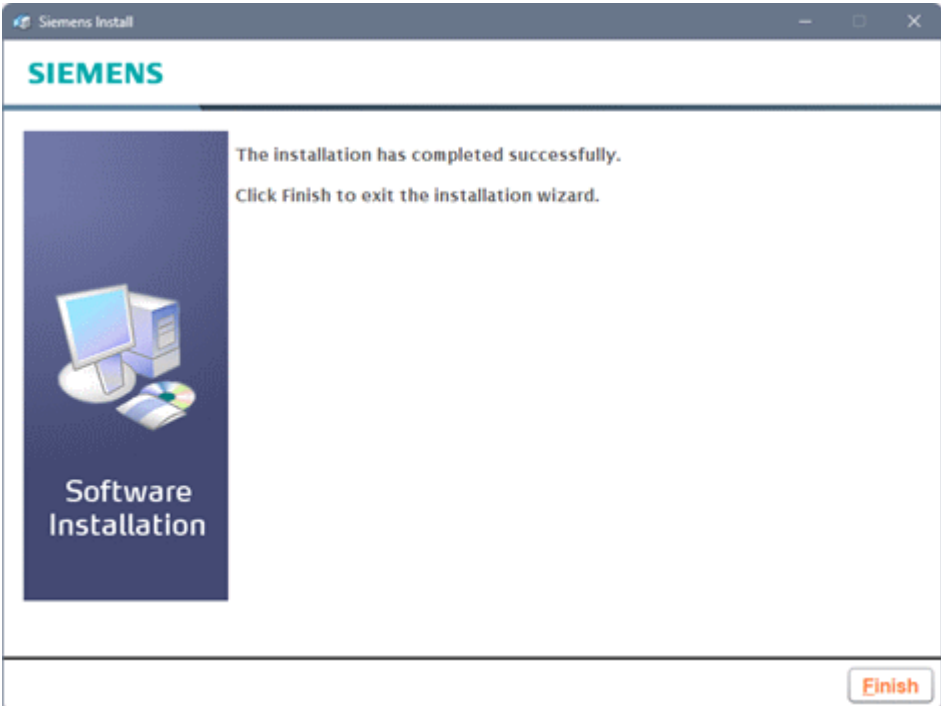
3. Extract the content of the ODB++ Inside installation package to a local disk.
4. Within the extracted content, locate and run the installer executable:
 - (Windows) *ODB++_Inside_Cadence_Allegro_<ver>_Windows_64_SA_Setup.exe*
 - (Linux) *ODB++_Inside_Cadence_Allegro_<ver>_Linux_64_SA_Setup.aol*
5. Provide the information requested by the wizard:

| Page | Description |
|--------------|--|
| Welcome page | <p>Read the warning and click Next.</p>  |

| Page | Description |
|-----------------------------|---|
| Copyright and Legal Notices | <p>Carefully read and click Agree to accept the license agreement.</p>  |

| Page | Description |
|-------------------------------------|---|
| ODB++ Inside Installation Directory | <p>Specify the location where the ODB++ Inside application will be installed.</p> <p> Windows: The environment variable ALLEGRO_BRD2ODB will point to the <ODB++ Inside Installation Directory>\brd2odb_<ver> directory where the ODB++ Inside executables will be stored.</p> <p>Use the default location, or browse to a different location, and click Next.</p>  |

| Page | Description |
|------------------------------------|---|
| Valor System Directory (VALOR_DIR) | <p>System, configuration, and work files are stored in a directory called Valor System Directory referred to as VALOR_DIR.</p> <p>This directory can be installed locally or on a central computer, in a location available for read and write access by all Allegro users.</p> <p>Use the default location or browse to a different location and click Next</p>  |

| Page | Description |
|------------------------|---|
| Installation Ready | <p>Check the path to the install directory. If necessary, click Back to review or change any settings. When satisfied, click Install.</p>  |
| Installation Completed | <p>Click Finish.</p>  |

Results

You have installed ODB++ Inside as part of Cadence Allegro. Refer to the *ODB++Design for Cadence® Allegro®* manual for instructions on exporting a design to ODB++Design and viewing the resulting ODB++ product model.

Installation Directory Structure

The ODB++ Inside installation results in files stored in several directories.

- **ODB++ Inside Installation Directory** — The location where ODB++ Inside Application Directories for each version are installed.
Default path:
 - (Windows) *C:\MentorGraphics\ODB++_Inside_Cadence_Allegro*
 - (Linux) */usr/local/BRD2ODB*
- **ODB++ Inside Application Directory** — Contains ODB++ Inside executables and other installed files, and cannot be altered by the user. The directory naming is version-specific.

(Windows only) The environment variable ALLEGRO_BRD2ODB points to this location.

Default path:

- (Windows) *<ODB++ Inside Installation Directory>\brd2odb_<ver>*
- (Linux) *BRD2ODB/brd2odb_<ver>*

A file named *env_file* resides in this directory. The file contains Valor environment variables set during installation: VALOR_DIR, VALOR_HOME, and VALOR_TMP. The paths defined in this file are not overwritten during an upgrade.

- **Valor System Directory (VALOR_DIR)** — Contains system, configuration, and work files. This directory can be installed locally or in a remote location accessible for reading and writing by all Allegro users.

The environment variable VALOR_DIR points to this location.

Default path:

- (Windows) *<ODB++ Inside Installation Directory>\brd2odb_dir*
- (Linux) *BRD2ODB/brd2odb_dir*

- **Valor Home Directory (VALOR_HOME)** — Once the user starts working with ODB++ Inside, a directory named *.genesis* is created under VALOR_HOME to store user-level configuration files.

The environment variable VALOR_HOME points to this location.

Default path:

- (Windows) *<ODB++ Inside Installation Directory>\brd2odb_dir*
- (Linux) *BRD2ODB/brd2odb_dir*
- **Valor Temporary Directory (VALOR_TMP)** — The directory where the system creates volatile, temporary files.

The environment variable VALOR_TMP points to this location.

Default path:

- (Windows) *<ODB++ Inside Installation Directory>\brd2odb_dir\tmp*
- (Linux) *BRD2ODB/brd2odb_dir/tmp*

Troubleshooting the ODB++ Inside Installation

These issues might be encountered during or after ODB++ Inside installation.

| Issue | Explanation |
|---|---|
| TCP/IP errors in stand-alone mode (Windows only) | <p>ODB++ Inside requires that TCP/IP be installed even on stand-alone computers. Make sure that TCP/IP networking is installed, and that there is a network adapter for TCP/IP.</p> <ul style="list-style-type: none"> • If TCP/IP is not installed, install it. • If no network adapter is installed, install one. • If the computer has no network card, install MS Loopback adapter. |
| File Not Found when loading the system | <p>If the system does not load, check that the QT shared library file is available at the appropriate location:</p> <ul style="list-style-type: none"> • (Windows) <code>%ALLEGRO_BRD2ODB%\nv\deps\valor_qt_514</code> • (Linux) <code>BRD2ODB/brd2odb_<ver>/misc/deps/valor_qt_514</code> |
| Sort and find commands fail when run from scripts (Windows) | <p>The sort and find commands are built into Windows in <code>/winnt/system32</code>. If they fail, perform one of these actions:</p> <ul style="list-style-type: none"> • Put the string <code>%ALLEGRO_BRD2ODB%\nv\bin</code> in your path before <code>\winnt\system32</code> • Alias sort to <code>%ALLEGRO_BRD2ODB%\nv\bin\sort</code> in startup scripts. <p>Alias find to <code>%ALLEGRO_BRD2ODB%\nv\bin\find</code> in startup scripts.</p> |
| ODB++ Inside cannot be run from a remote machine (Linux only) | <p>On the machine where the software is installed, check the paths defined in the environment variables in the <code>BRD2ODB/brd2odb_<ver>/env_file</code> file: if these are not valid for the machine where the software is to be run, edit <code>env_file</code> appropriately.</p> |

