

SIEMENS EDA

# ODB++ Inside for Cadence® Allegro® Installation Guide

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# Chapter 1

## ODB++ Inside Installation

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

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## 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.

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### **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.

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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.

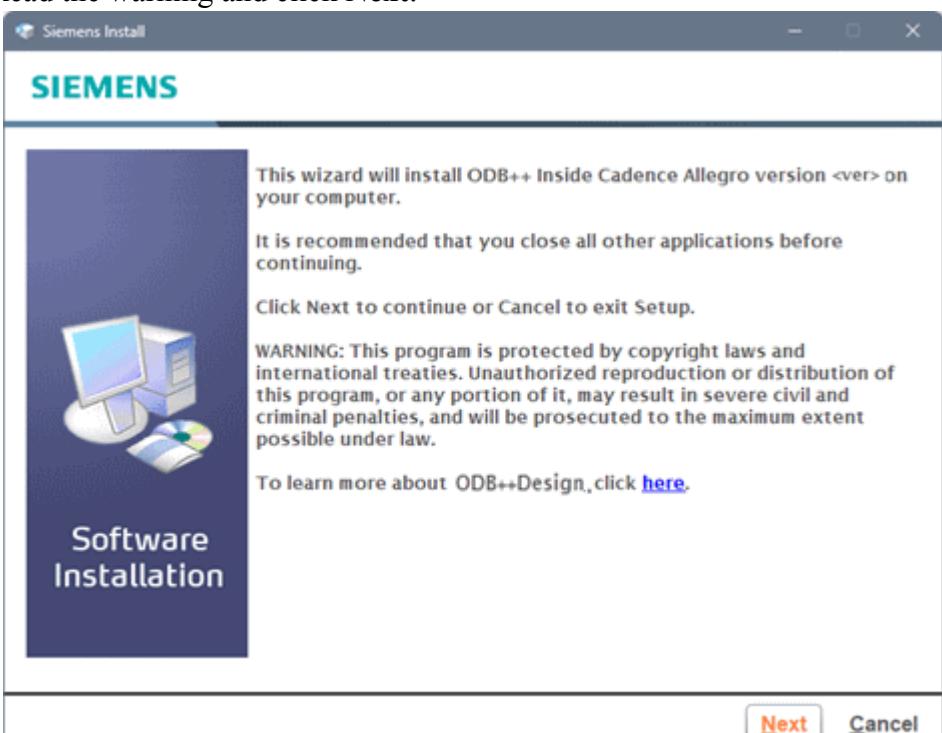
### Prerequisites

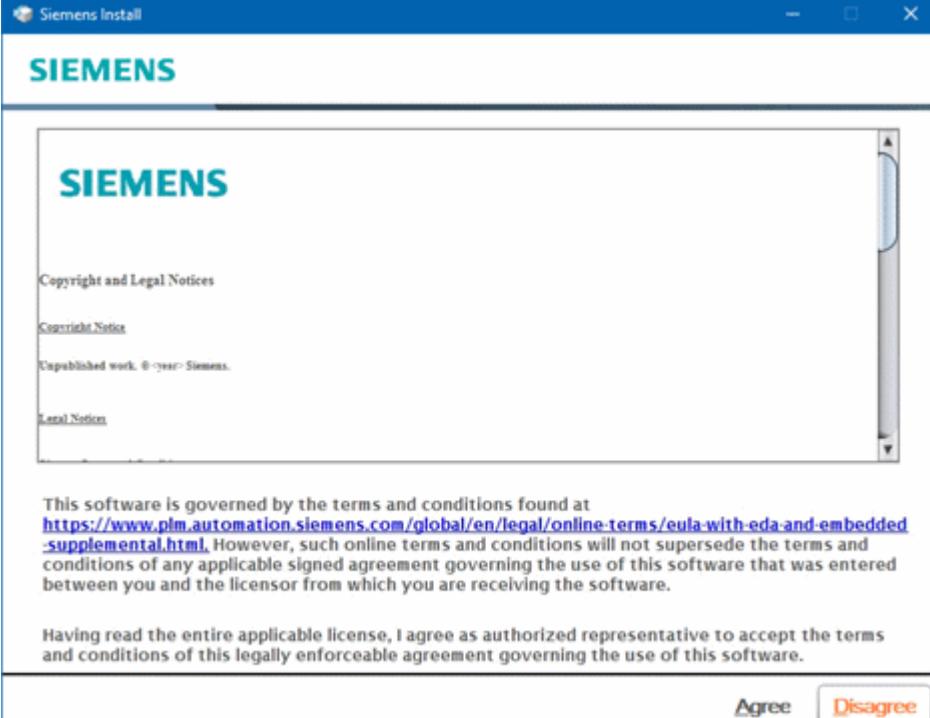
- Access to the installer executable. The installation package is available on the Download page of the ODB++Design website:
  - (Windows) *ODB++\_Inside\_Cadence\_Allegro\_<ver>\_Windows\_64\_SA\_Setup.zip*
  - (Linux) *ODB++\_Inside\_Cadence\_Allegro\_<ver>\_Linux\_64\_SA\_Setup.tar*
- (Linux) Root privileges on the machine where ODB++ Inside will be installed.

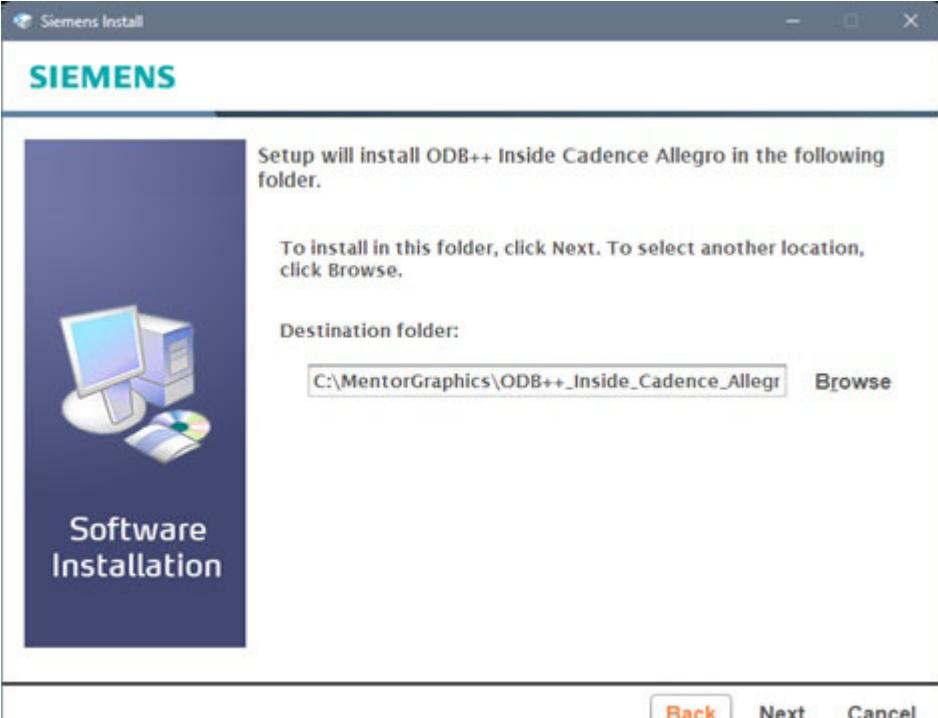
### Procedure

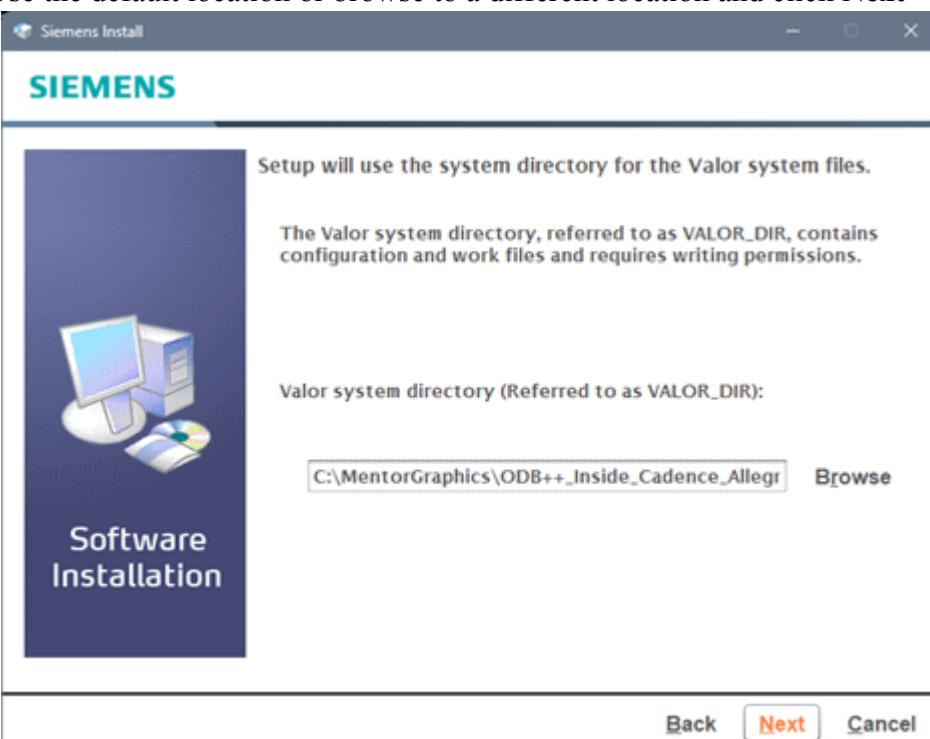
1. Log in with administrator rights.
2. Close all open applications.

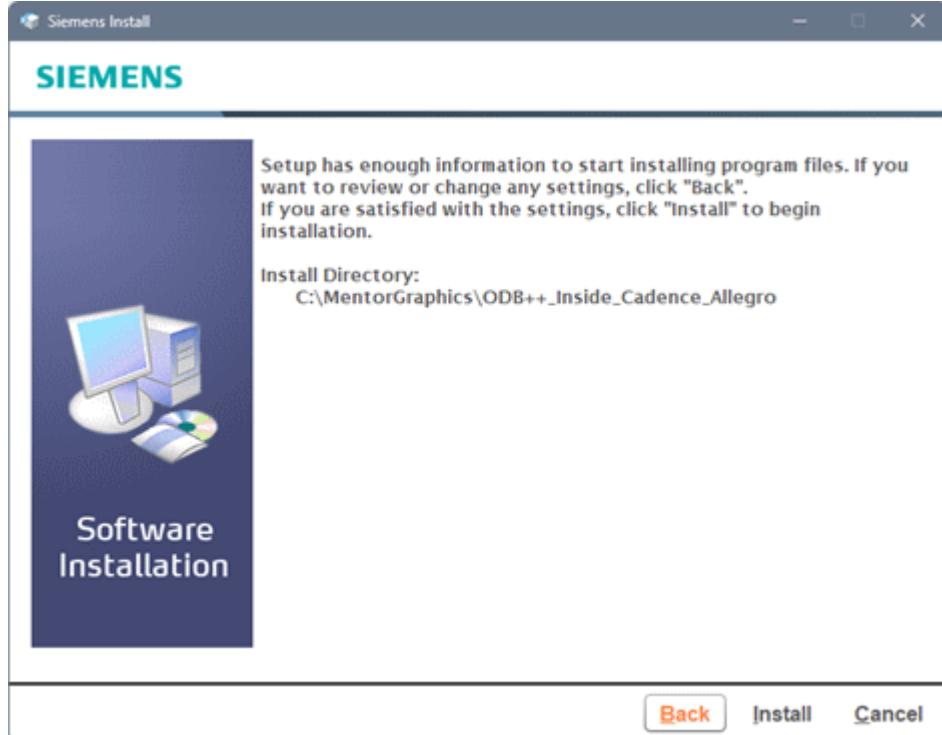
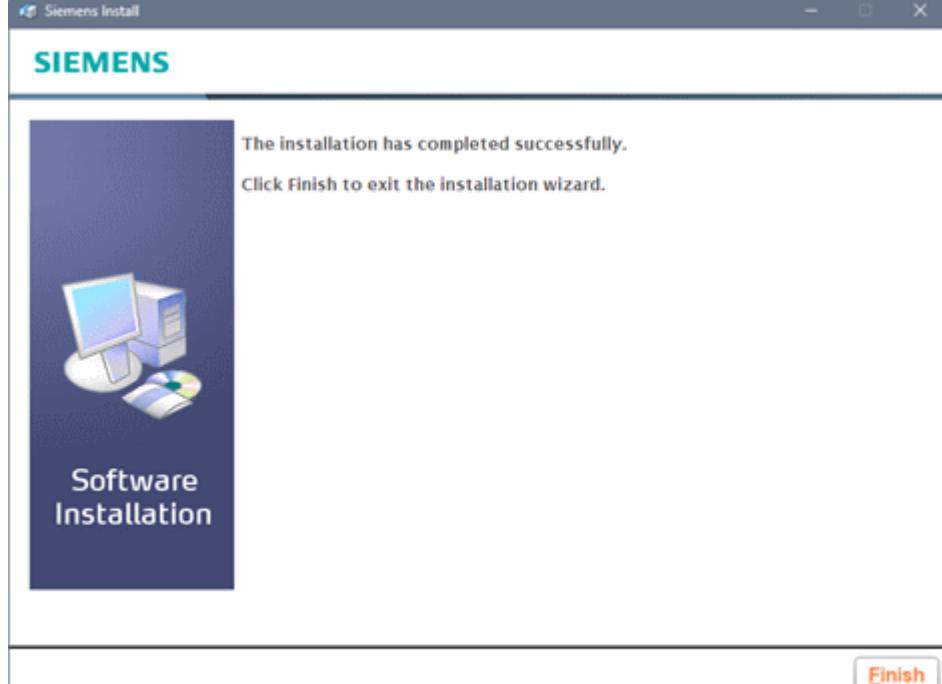
3. Extract the content of the ODB++ Inside installation package to a local disk.
4. Within the extracted content, locate and run the installer executable:
  - (Windows) *ODB++\_Inside\_Cadence\_Allegro\_<ver>\_Windows\_64\_SA\_Setup.exe*
  - (Linux) *ODB++\_Inside\_Cadence\_Allegro\_<ver>\_Linux\_64\_SA\_Setup.aol*
5. Provide the information requested by the wizard:

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

Page	Description
Copyright and Legal Notices	<p>Carefully read and click <b>Agree</b> to accept the license agreement.</p>  <p>This software is governed by the terms and conditions found at <a href="https://www.plm.automation.siemens.com/global/en/legal/online-terms/eula-with-eda-and-embedded-supplemental.html">https://www.plm.automation.siemens.com/global/en/legal/online-terms/eula-with-eda-and-embedded-supplemental.html</a>. However, such online terms and conditions will not supersede the terms and conditions of any applicable signed agreement governing the use of this software that was entered between you and the licensor from which you are receiving the software.</p> <p>Having read the entire applicable license, I agree as authorized representative to accept the terms and conditions of this legally enforceable agreement governing the use of this software.</p> <p><input type="button" value="Agree"/> <input type="button" value="Disagree"/></p>

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

Page	Description
Installation Ready	<p>Check the path to the install directory. If necessary, click <b>Back</b> to review or change any settings. When satisfied, click <b>Install</b>.</p> 
Installation Completed	<p>Click <b>Finish</b>.</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\temp*
- (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"><li>• If TCP/IP is not installed, install it.</li><li>• If no network adapter is installed, install one.</li><li>• If the computer has no network card, install MS Loopback adapter.</li></ul>
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"><li>• (Windows) <code>%ALLEGRO_BRD2ODB%\nv\deps\valor_qt_514</code></li><li>• (Linux) <code>BRD2ODB/brd2odb_&lt;ver&gt;/misc/deps/valor_qt_514</code></li></ul>
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"><li>• Put the string <code>%ALLEGRO_BRD2ODB%\nv\bin</code> in your path before <code>\winnt\system32</code></li><li>• Alias sort to <code>%ALLEGRO_BRD2ODB%\nv\bin\sort</code> in startup scripts.</li><li>• Alias find to <code>%ALLEGRO_BRD2ODB%\nv\bin\find</code> in startup scripts.</li></ul>
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_&lt;ver&gt;/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>

