



SIEMENS EDA

ODB++ Inside for Cadence® Allegro® Installation Guide

Release vNPI 2305.0001
July 2023

Unpublished work. © 2023 Siemens

This Documentation contains trade secrets or otherwise confidential information owned by Siemens Industry Software Inc. or its affiliates (collectively, "Siemens"), or its licensors. Access to and use of this Documentation is strictly limited as set forth in Customer's applicable agreement(s) with Siemens. This Documentation may not be copied, distributed, or otherwise disclosed by Customer without the express written permission of Siemens, and may not be used in any way not expressly authorized by Siemens.

This Documentation is for information and instruction purposes. Siemens reserves the right to make changes in specifications and other information contained in this Documentation without prior notice, and the reader should, in all cases, consult Siemens to determine whether any changes have been made.

No representation or other affirmation of fact contained in this Documentation shall be deemed to be a warranty or give rise to any liability of Siemens whatsoever.

If you have a signed license agreement with Siemens for the product with which this Documentation will be used, your use of this Documentation is subject to the scope of license and the software protection and security provisions of that agreement. If you do not have such a signed license agreement, your use is subject to the Siemens Universal Customer Agreement, which may be viewed at <https://www.sw.siemens.com/en-US/sw-terms/base/uca/>, as supplemented by the product specific terms which may be viewed at <https://www.sw.siemens.com/en-US/sw-terms/supplements/>.

SIEMENS MAKES NO WARRANTY OF ANY KIND WITH REGARD TO THIS DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY. SIEMENS SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, LOST DATA OR PROFITS, EVEN IF SUCH DAMAGES WERE FORESEEABLE, ARISING OUT OF OR RELATED TO THIS DOCUMENTATION OR THE INFORMATION CONTAINED IN IT, EVEN IF SIEMENS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

TRADEMARKS: The trademarks, logos, and service marks (collectively, "Marks") used herein are the property of Siemens or other parties. No one is permitted to use these Marks without the prior written consent of Siemens or the owner of the Marks, as applicable. The use herein of third party Marks is not an attempt to indicate Siemens as a source of a product, but is intended to indicate a product from, or associated with, a particular third party. A list of Siemens' Marks may be viewed at: www.plm.automation.siemens.com/global/en/legal/trademarks.html. The registered trademark Linux[®] is used pursuant to a sublicense from LMI, the exclusive licensee of Linus Torvalds, owner of the mark on a world-wide basis.

About Siemens Digital Industries Software

Siemens Digital Industries Software is a global leader in the growing field of product lifecycle management (PLM), manufacturing operations management (MOM), and electronic design automation (EDA) software, hardware, and services. Siemens works with more than 100,000 customers, leading the digitalization of their planning and manufacturing processes. At Siemens Digital Industries Software, we blur the boundaries between industry domains by integrating the virtual and physical, hardware and software, design and manufacturing worlds. With the rapid pace of innovation, digitalization is no longer tomorrow's idea. We take what the future promises tomorrow and make it real for our customers today. Where today meets tomorrow. Our culture encourages creativity, welcomes fresh thinking and focuses on growth, so our people, our business, and our customers can achieve their full potential.

Support Center: support.sw.siemens.com

Send Feedback on Documentation: support.sw.siemens.com/doc_feedback_form

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

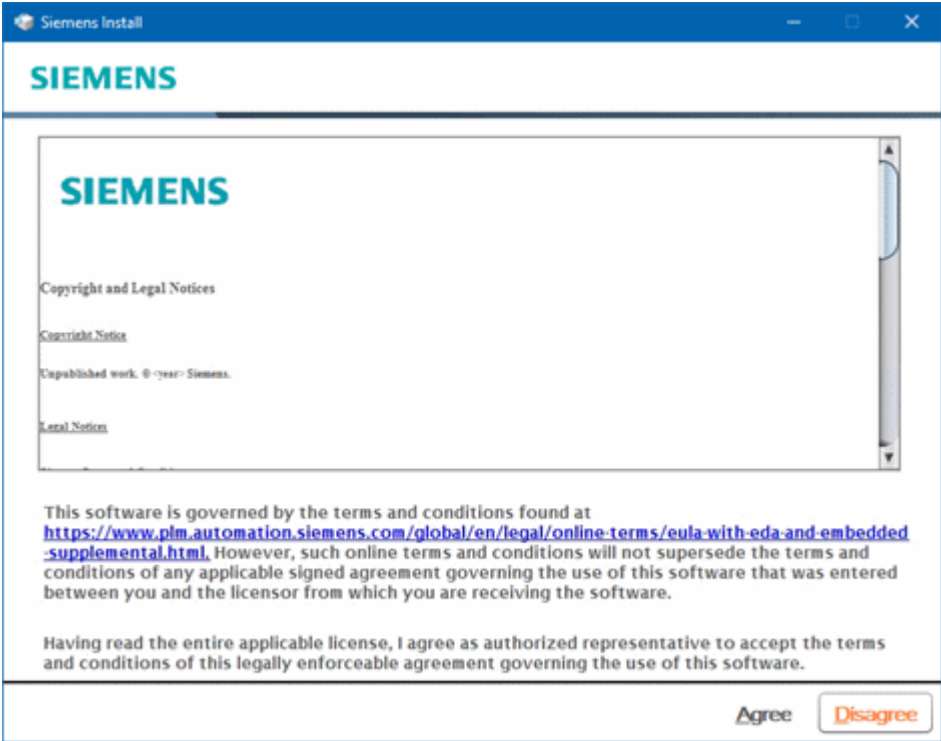
- Access to the installer executable. The installation package is available on the Download page of the ODB++Design website:
 - (Windows) `ODB++_Inside_Cadence_Allegro_<ver>_Windows_64_SA_Setup.zip`
 - (Linux) `ODB++_Inside_Cadence_Allegro_<ver>_Linux_64_SA_Setup.tar`
- (Linux) Root privileges on the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


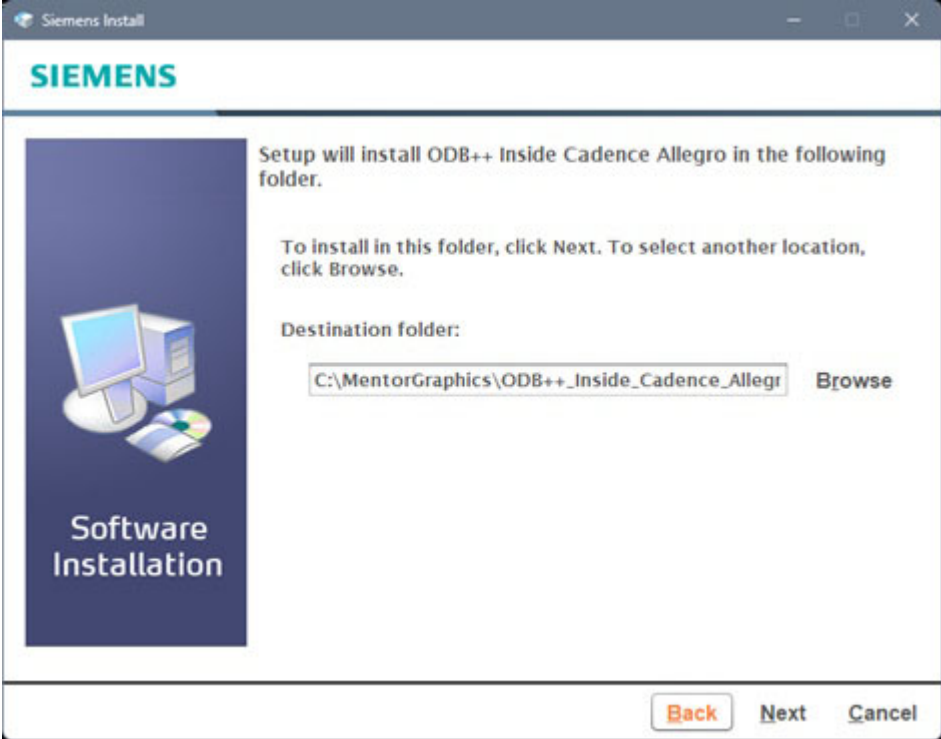
Procedure

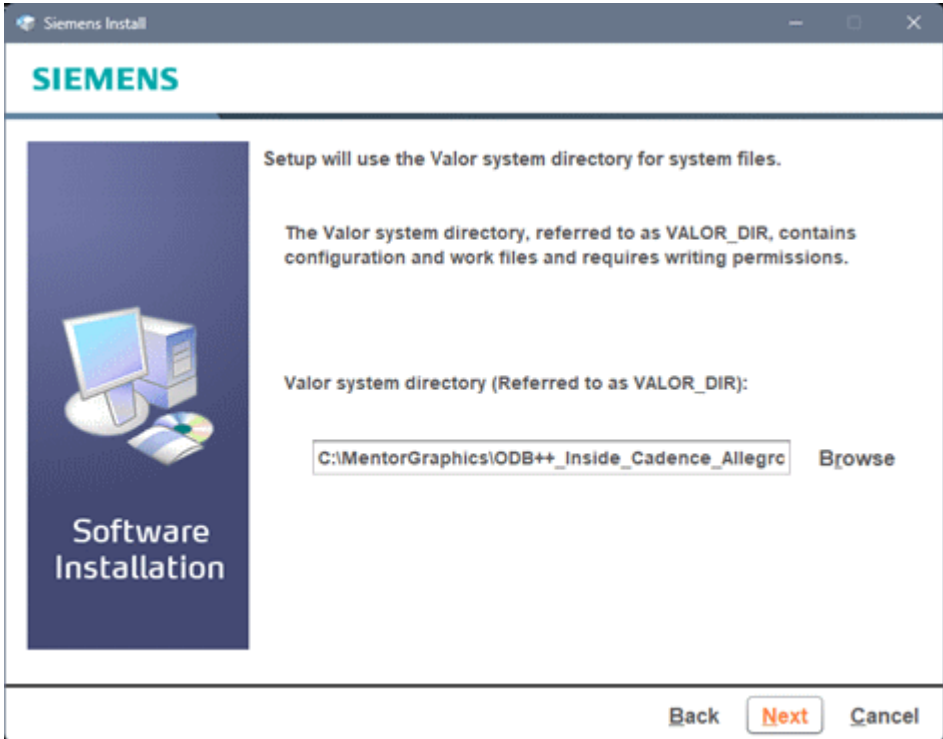
1. Log in with administrator rights.
2. Close all open applications.

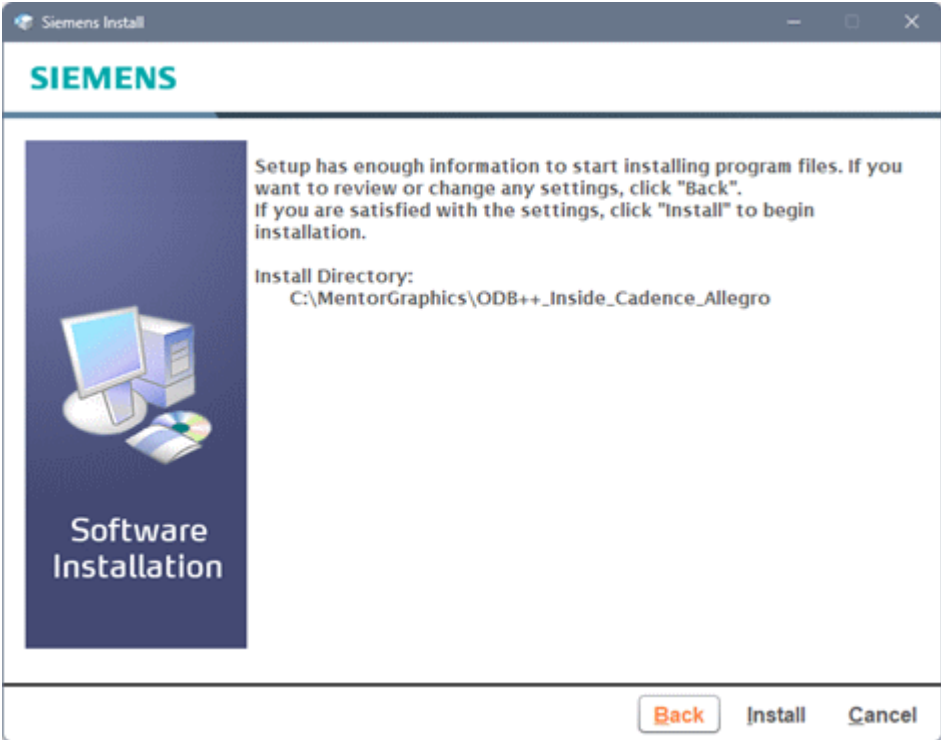
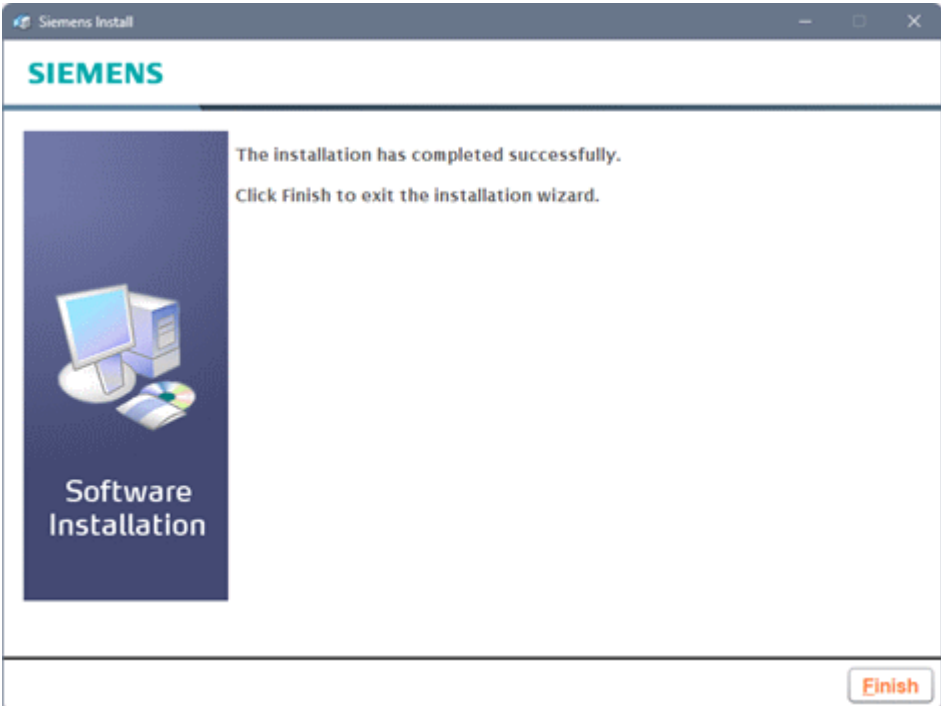
3. Extract the content of the ODB++ Inside installation package to a local disk.
4. Within the extracted content, locate and run the installer executable:
 - (Windows) *ODB++_Inside_Cadence_Allegro_<ver>_Windows_64_SA_Setup.exe*
 - (Linux) *ODB++_Inside_Cadence_Allegro_<ver>_Linux_64_SA_Setup.aol*
5.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

Page	Description
Welcome page	<p>Read the warning and click Next.</p> here.' At the bottom right are 'Next' and 'Cancel' buttons." data-bbox="295 285 870 635"/>

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>

