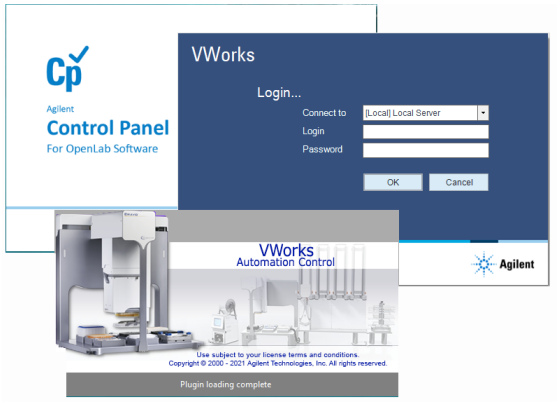
VWorks Automation Control 14.4

VWorks Plus and VWorks Standard editions

Installation Guide



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- "Before you install the software" on page 4
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About this guide

This guide provides installation instructions for VWorks Automation Control 14.4, which is available as VWorks Standard and VWorks Plus:

- *VWorks Plus*. In addition to the standard features, this edition includes features that enable compliance with FDA rules and guidelines for Part 11 of Title 21 of the Code of Federal Regulations (21 CFR Part 11).
- *VWorks Standard*. This edition includes all the software components for running the standard VWorks software.

The installation process differs depending on whether or not you are installing VWorks Plus or VWorks Standard for the first time.

Use one of the two following workflows that matches your situation:

- Workflow for installing VWorks Standard or VWorks Plus for the first time, or upgrading from VWorks 13.2.x or older systems
- Workflow for installing VWorks 14.4 on systems with older versions of VWorks 14 Standard or VWorks Plus (v14.0-14.3)

About the user documentation

User guides	Content
Configuration and administration guides: • *VWorks Plus Configuration and Administration Guide* • *VWorks Standard Configuration and Administration Guide*	How to manage user access and licenses, and how to maintain the system, including system backup and restore procedures.
Quick reference: • *VWorks Plus Quick Reference Guide* • *VWorks Standard Quick Reference Guide*	Overview of the VWorks features and workflow.
VWorks Automation Control Setup Guide	How to set up labware definitions, liquid classes, and if applicable, an experiments database and labware inventory database, and how to migrate protocols from previous versions of VWorks software. *VWorks Plus only*. Describes how to set up and manage audit trails and record states, how to enable and use e-signatures, and how to run tamper detection.
VWorks Automation Control User Guide	How to use the VWorks software, including setting up devices, writing protocols, creating forms, running protocols, and troubleshooting and maintenance.

To access the user guides, do one of the following:

- From within VWorks software, select **Help** > **Knowledge Base** or press F1.
- From the Windows desktop, click **Start ( )** > **All apps** > **Agilent Technologies** > **VWorks Knowledge Base.**

Contacting Agilent Technologies

Web: https://www.agilent.com

Contact page: https://www.agilent.com/en/contact-us/page

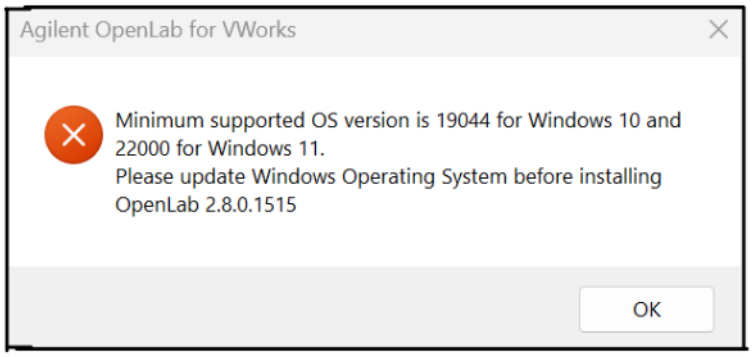
About computer requirements

The Agilent-supplied computer, if purchased, meets the computer requirements. The minimum computer requirements is an HP Z2G4 or equivalent, with 16 GB RAM and 4 core CPU.

Operating system requirements

The installer for OpenLab 2.8 for VWorks requires either Windows 10 or Windows 11 operating system (OS). The minimum supported OS version is 19044 for Windows 10 and 22000 for Windows 11.

If you attempt to install OpenLab 2.8 for VWorks on a system with an OS less than the minimum version, following message will be displayed:



If you are installing the software on a different computer, refer to the following for computer requirements:

- *VWorks Software 14.4 Site Preparation Checklist*

Upgrading the Windows operating system

If you want to upgrade from the Windows 10 to the Windows 11 OS, Agilent recommends that you have OpenLab version 2.8 installed before upgrading to Windows 11 OS.

Before you install the software

Before you start the installation, ensure that you have purchased a license for the VWorks edition that you plan to install:

- *VWorks Plus*. In addition to the standard features, this edition includes features to enable compliance with 21 CFR Part 11. All records and results are stored in Content Management.

- *VWorks Standard*. The compliance-related features are unavailable in this edition. The records and results are stored in the local file system.

Prerequisite checklist

Item	Task
1	Decide on a computer name. The computer name will be reflected in the license. To avoid effort, Agilent recommends that the computer name remain unchanged after installing VWorks Plus or VWorks Standard. **IMPORTANT** To make sure that a DNS (Domain Name System) server can resolve the computer name, follow the internet standard for protocols (RFC952) and make sure the name contains only approved characters (letters (a-z, A-Z), digits (0-9), and hyphen (-)). **IMPORTANT** Do not use an underscore! Installation is not possible if the computer name contains an underscore.
2	If applicable, install your automation devices, including power and communication cables.
3	To enable the successful installation and activation of all components: • Ensure that the LAN-cable is connected and a network is available. A local network is sufficient, such as the connection between the computer and the automation device. If you install Agilent OpenLab for VWorks without this connection, the installation may fail. • Ensure that the Windows Sleep mode is set to Never.
4	If you use Trend Micro as an antivirus software, turn off Web Reputation to allow the installation of all components.
5	Ensure the following: • No Windows updates are performed during the installation. • No system reboot is pending. Pending reboots are indicated in the System Preparation Tool.

LAN power management

Microsoft Windows may be set to turn instruments/components off to save power while sleeping or hibernating, which can interrupt VWorks processing.

To change the Windows power management setting:

1. In the Microsoft Control Panel, open the **Network and Sharing Center**.
   Note: View the items by icon to see a list of all items
2. Select **Change adapter settings**. Right-click **Local Area Connection> Properties> Configure**.
3. Select the **Power Management** tab.
4. Clear the **Allow the computer to turn off this device to save power** check box.

Installing VWorks Plus or VWorks Standard 14.4 for the first time, or upgrading from VWorks 13.1.x or older systems

VWorks Automation Control 14.4 is available as VWorks Standard and VWorks Plus. VWorks Plus is a compliance-enabled edition that supports compliance with Part 11 of Title 21 of the Code of Federal Regulations (21 CFR Part 11).

Both editions include the following components:

- OpenLab for VWorks
- VWorks software

Workflow for installing VWorks Standard or VWorks Plus for the first time, or upgrading from VWorks 13.2.x or older systems

If this is the first time you are installing VWorks software or are upgrading from VWorks software version 13.1.x or older, perform the following steps in the order given to install VWorks Plus or VWorks Standard 14.4.

Step	For this task...	See...
1	Prepare for the installation.	"Before you install the software" on page 4
2	If applicable, uninstall VWorks 13.1.x or earlier.	"Uninstalling VWorks 13.1.x or earlier" on page 39
3	Run the Agilent OpenLab for VWorks 2.8 installer.	"Installing Agilent OpenLab for VWorks" on page 10
4	Check the Agilent OpenLab for VWorks installation. *Note:* If you plan to change the authentication provider to Windows Domain instead of Internal (default), you should make the change before running the VWorks 14.4 installer.	"Checking the OpenLab software installation" on page 26
5	Run the Agilent VWorks 14.4 installer.	"Installing Agilent VWorks 14.4 software" on page 28
6	Verify the software installation	"Verifying the software installation" on page 35
7	Enable OpenLab for VWorks to upload .js and .sql files	"Enabling the ability to upload JavaScript (.js) and Structured Query Language (.sql) files in VWorks" on page 37

Step	For this task...	See...
8	Get your license via SubscribeNet. Log in to OpenLab Control Panel and install your license.	One of the following: • VWorks Plus: *VWorks Plus Configuration and Administration Guide* • VWorks Standard: *VWorks Standard Configuration and Administration Guide*
9	In OpenLab Control Panel, verify the Authentication setting: • Internal (default). If you are using Internal, no changes are required. • Windows Domain. If you are using Domain and you did not change the setting before installing VWorks 14.4, you need to reinstall VWorks 14.4 to republish the predefined VWorks user groups, which have all the required roles and privileges for the VWorks software.	
10	Configure security policy, users and groups.	
11	If applicable, migrate files and records from VWorks 13.x using the Migration Wizard.	*VWorks Automation Control Setup Guide*

Installing VWorks Standard or VWorks Plus 14.4 on systems with older versions of VWorks 14

Backing up your data before you start

Ensure you back up all of your data before uninstalling the previous version of VWorks and before upgrading to OpenLab 2.8 for VWorks .

Note: A user must have Windows administrator rights to access the backup utilities.

Backing up VWorks Standard

Use the Shared Services Maintenance utility that is automatically installed with VWorks Standard Edition.

Create a backup of the Inventory database (MySQL) by exporting it from the VWorks software.

For details on how to create backup copies of the Shared Services data and the VWorks data, see the **Data Backup** topic in the Maintenance chapter of the *VWorks Standard Configuration and Administration Guide*.

Backing up VWorks Plus

Use the Backup Utility that is installed with VWorks Plus to back up your data. For details on how to create backup copies of your data, see the **Backup and Restore** topic in the Maintenance chapter of the VWorks Plus Configuration and Administration Guide.

Note: The E-Signatures and Experiments ID databases (PostgreSQL) are automatically backed up by the Backup Utility.

Create a backup of the Inventory database by exporting it from the VWorks software.

About installing OpenLab for VWorks on systems with older versions of VWorks 14

VWorks 14.4 requires OpenLab version 2.8.0.1515. If OpenLab for VWorks version 2.5, 2.6 or 2.7 is already installed on the computer, you can use the upgrade feature of the OpenLab for VWorks installer to upgrade to version 2.8. See step 7 in the "Workflow for installing VWorks 14.4 on systems with older versions of VWorks 14 Standard or VWorks Plus (v14.0-14.3)" on page 8.

If you want to switch VWorks editions, i.e., VWorks Plus to VWorks Standard, or VWorks Standard to VWorks Plus, you cannot use the upgrade feature. You will need to uninstall OpenLab for VWorks and then install OpenLab for VWorks version 2.8.0.1515. See "When uninstalling OpenLab for VWorks is required" on page 8.

When uninstalling OpenLab for VWorks is required

Please ensure that you uninstall your OpenLab for VWorks before proceeding with the version of 2.8, if any of the following scenarios apply:

- You are upgrading from VWorks Standard edition to VWorks Plus edition
- You are downgrading from VWorks Plus edition to VWorks Standard edition

For instructions on uninstalling OpenLab for VWorks, see "Uninstalling OpenLab for VWorks" on page 41.

Workflow for installing VWorks 14.4 on systems with older versions of VWorks 14 Standard or VWorks Plus (v14.0-14.3)

Use the following workflow for systems with an older version of VWorks 14.

Step	For this task...	See...
1	Prepare for the installation.	"Before you install the software" on page 4
2	Perform a data backup.	• "Backing up your data before you start" on page 7 • The *VWorks Configuration and Administration Guide* (Backup and Restore) for your VWorks edition
3	In the VWorks software, use the **File > Export VZP File** command to export backup copies of your current protocols.	The *VWorks Automation Control User Guide* (Exporting and importing protocols)
4	If applicable, export all experiment IDs. You can import any exported experiment IDs after installing VWorks 14.4 and establishing a connection to the new Experiments database. *Note:* VWorks 14.4 uses a newer PostgreSQL database (version 15) but the schema is unchanged.	*VWorks Automation Control Setup Guide*

Step	For this task...	See...
5	Uninstall VWorks 14.x.	"Uninstalling VWorks Plus or VWorks Standard 14.0 or later" on page 39
6	If applicable, uninstall OpenLab for VWorks.	"Uninstalling OpenLab for VWorks" on page 41
7	Install OpenLab 2.8 for VWorks: If you are upgrading to the same edition of VWorks, use the upgrade procedure. If you are upgrading to a different edition of VWorks, uninstall the existing OpenLab software followed by installation of OpenLab 2.8 for VWorks.	"Upgrading OpenLab 2.5, 2.6 or 2.7 for VWorks" on page 18 "Checking the OpenLab software installation" on page 26 "Installing Agilent OpenLab for VWorks" on page 10
8	Run the Agilent OpenLab Database Import Transfer Service utility.	"Running the database transfer utility" on page 24
9	Change the ODBC data source configuration	"Changing the ODBC data source configuration" on page 25
10	Check the Agilent OpenLab for VWorks installation. *Note:* If you plan to change the authentication provider to Windows Domain instead of Internal (default), you should make the change before running the VWorks 14.4 installer.	"Checking the OpenLab software installation" on page 26
11	Get your license for OpenLab 2.8 for VWorks via SubscribeNet. Log in to OpenLab Control Panel and install your license.	One of the following: • VWorks Plus: *VWorks Plus Configuration and Administration Guide* • VWorks Standard: *VWorks Standard Configuration and Administration Guide*
12	Run the Agilent VWorks 14.4 installer.	"Installing Agilent VWorks 14.4 software" on page 28
13	Verify the software installation.	"Verifying the software installation" on page 35
14	Enable the ability to upload .js and .sql files.	"Enabling the ability to upload JavaScript (.js) and Structured Query Language (.sql) files in VWorks" on page 37
15	In OpenLab Control Panel, verify the Authentication setting: • Internal (default). If you are using Internal, no changes are required. • Windows Domain. If you are using Domain and you did not change the setting before installing VWorks 14.4, you need to reinstall VWorks 14.4 to republish the predefined VWorks user groups, which have all the required roles and privileges for the VWorks software.	One of the following: • VWorks Plus: *VWorks Plus Configuration and Administration Guide* • VWorks Standard: *VWorks Standard Configuration and Administration Guide*

Step	For this task...	See...
16	Configure security policy, users and groups.	

Installing Agilent OpenLab for VWorks

About the OpenLab for VWorks installer

This section describes the following:

- "Performing a new installation of OpenLab 2.8 for VWorks" on page 10

If you are upgrading from OpenLab for VWorks 2.5, 2.6 or 2.7, see the topic "Upgrading OpenLab 2.5, 2.6 or 2.7 for VWorks" on page 18.

The Agilent OpenLab for VWorks installation wizard installs and configures the following required software tools and components:

- Control Panel and Shared Services

  These components of the OpenLab software control the user access and storage for the VWorks software.
- *VWorks Plus only*. Content Browser and Content Management

  Note: Shared Services stores VWorks files in this secure repository.
- Agilent Software Verification Tool

  Agilent support providers may use this tool to qualify the software installation.
- Database (PostgreSQL) and license tracking software (Flex-Net Publisher) required by Shared Services

The installation wizard puts a Control Panel shortcut on the Windows desktop and updates the Windows Start ( ) menu under Agilent Technologies to include the installed apps and utilities.

Running the Agilent OpenLab for VWorks installer

IMPORTANT

Do not attempt to install the software directly from the USB drive because the installation may fail. Ensure that you install the software from C:\Temp\ on your local computer.

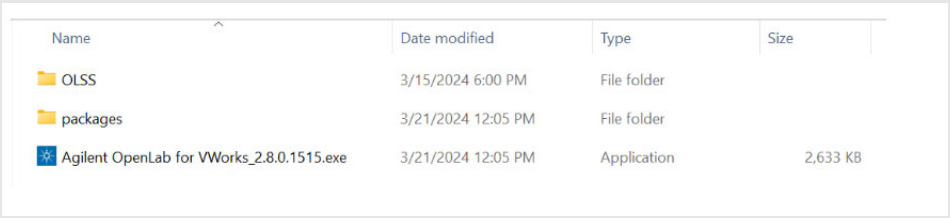
Performing a new installation of OpenLab 2.8 for VWorks

To perform a new install of Agilent OpenLab for VWorks:

1. Copy the **OpenLabforVWorks_2.8.0.1515.zip** files to the C:\Temp drive. contents of the USB drive to the following location on your computer and then remove the USB drive from the computer.

   C:\Temp\
2. Unzip the **OpenLabforVWorks_2.8.0.1515.zip** archive to the following folder:

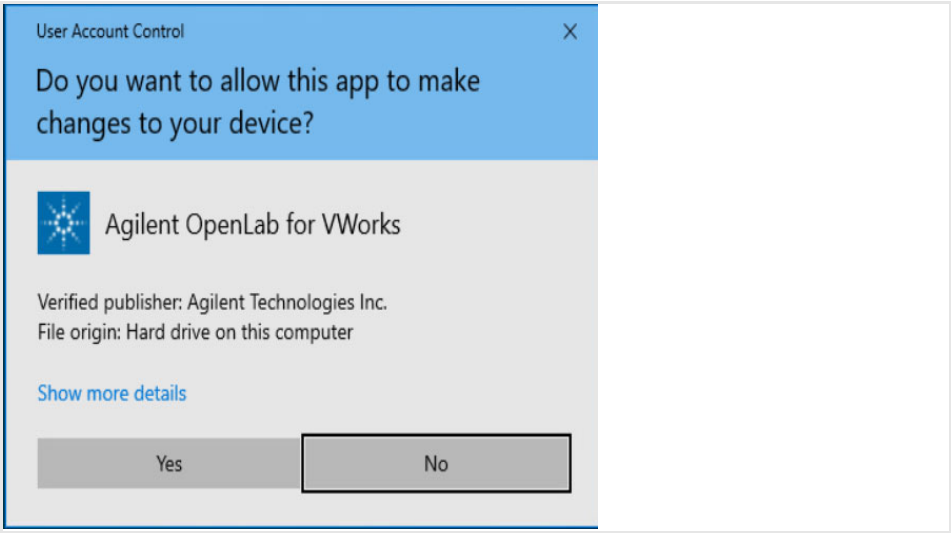
   C:\Temp\OpenLab



3 Double-click the unzipped **Agilent OpenLab for VWorks_2.8.0.1515.exe** file.

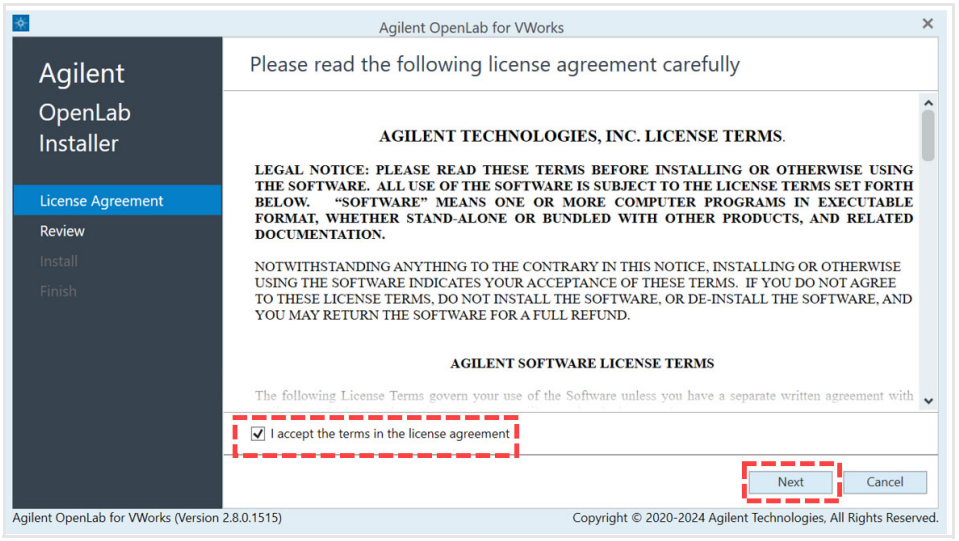
Note: If you have an antivirus software on your computer, it may block or quarantine this installer. If that occurs, either disable the antivirus or restore the file from the antivirus' quarantine to continue with the installation.

4 Click **Yes** to the message asking you for permission to proceed.



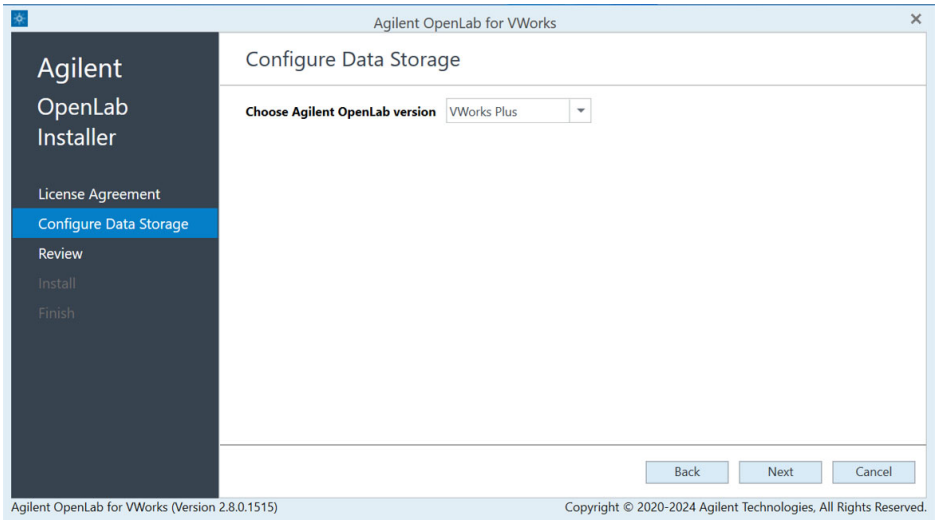
When the **Agilent OpenLab for VWorks** wizard opens, the **License Agreement** page is displayed.

5 Accept the terms of the license agreement and click **Next**.



6 In the **Configure Data Storage** page, select your software edition, and then click **Next**.

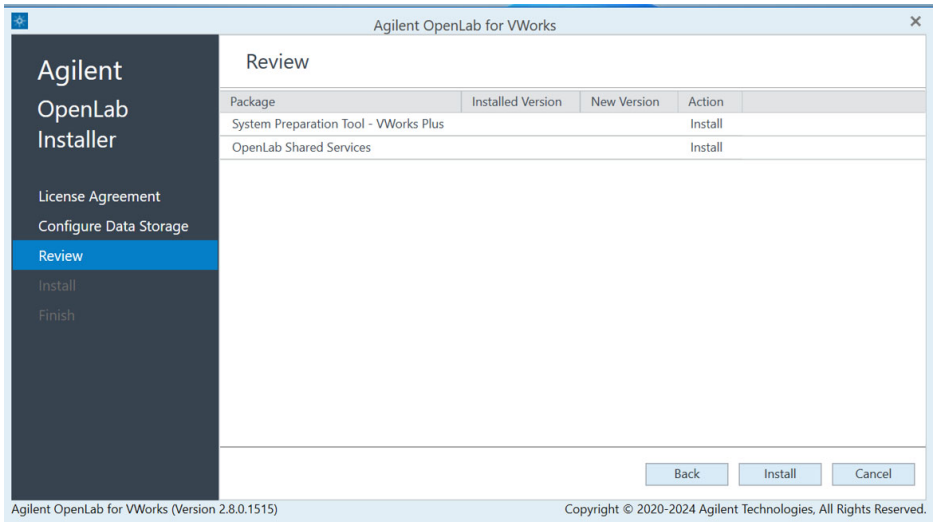
- VWorks Plus
- VWorks Standard



The review page showing the components for the selected edition is displayed.

7 Ensure the correct components for the installation have been selected.

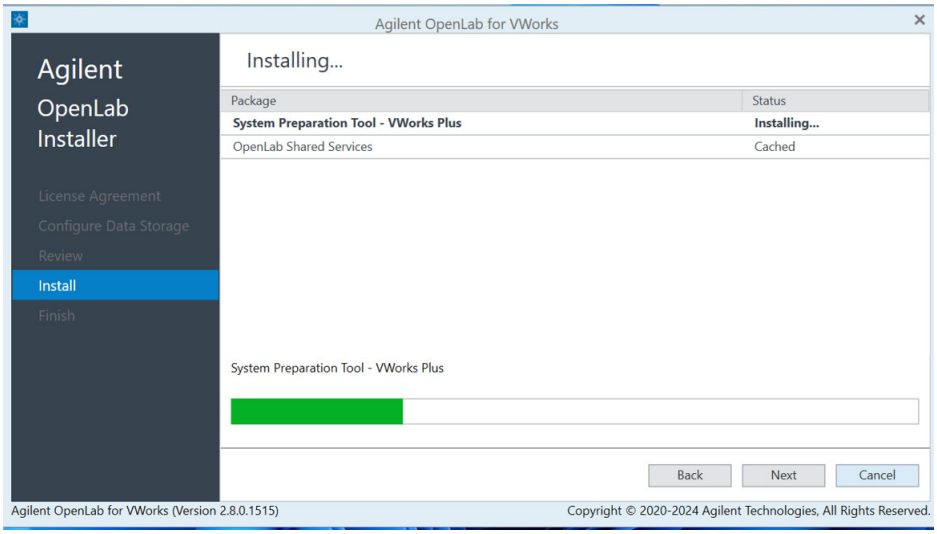
- System Preparation Tool – VWorks <*edition*>
- OpenLab Shared Services



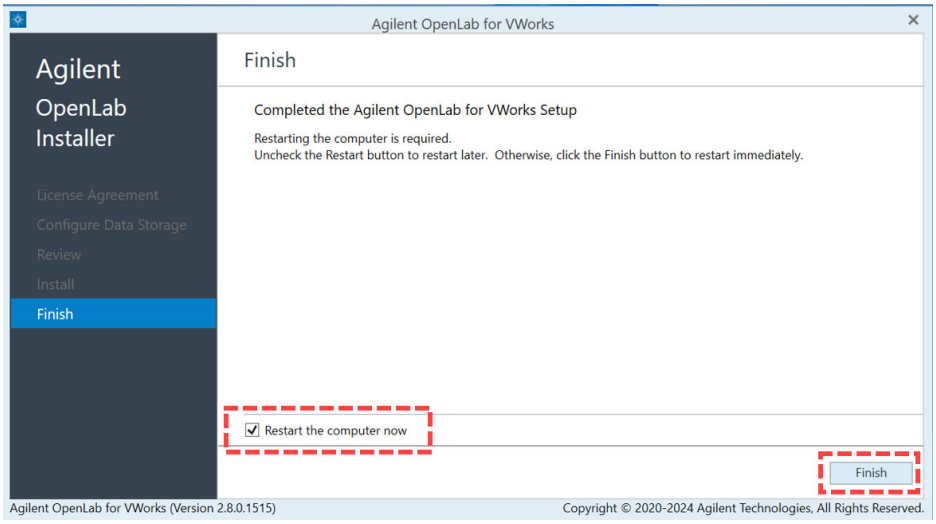
Note: The pages of the wizard can vary slightly depending on which edition you are installing. The following examples show the VWorks Standard installation.

8 Click **Install** to start the installation of the listed components in the given order.

A progress bar will appear in green color, indicating the progress of installation of OpenLab software.

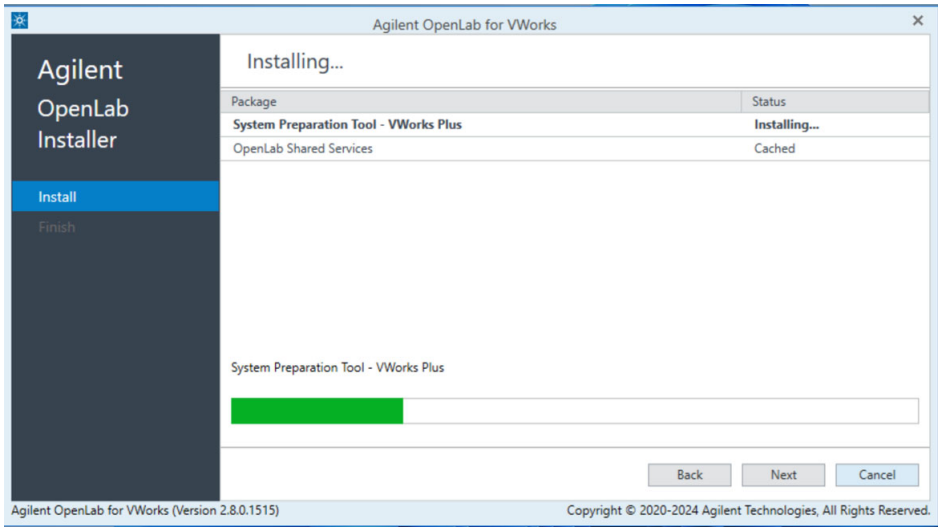


9 When the wizard has completed the first part of the installation, you will be asked to restart your computer. Select the **Restart the computer now** check box and click **Finish**.

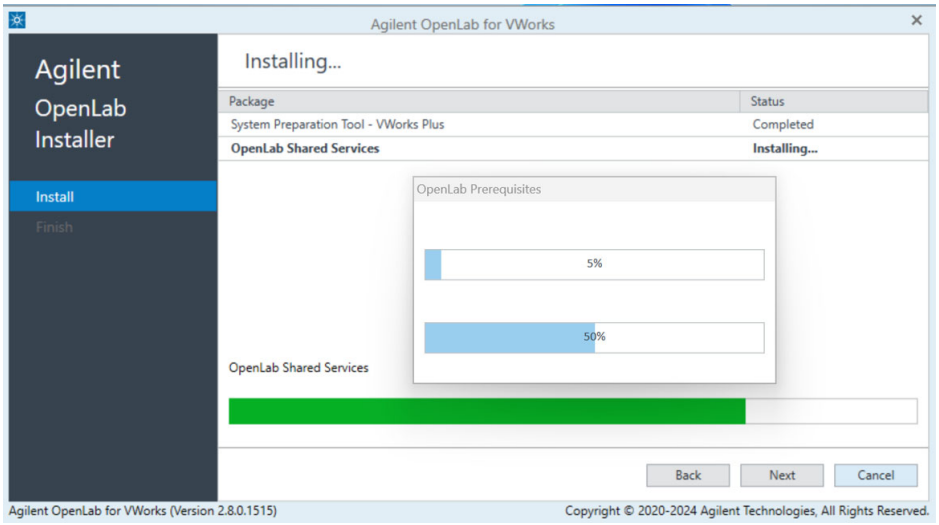


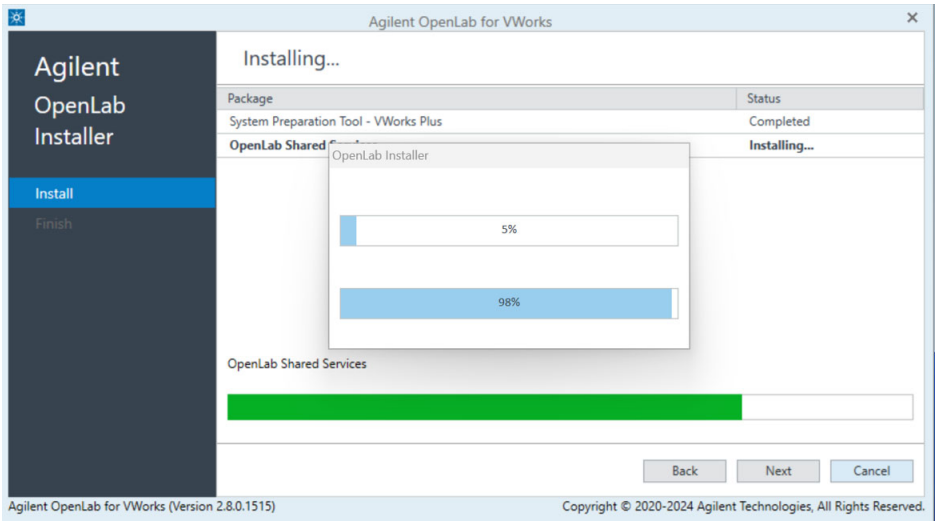
10 After the system is restarted, the OpenLab installer will continue automatically.

Note: If you do not select to restart the computer now, the installation wizard will resume the next time the computer is restarted.

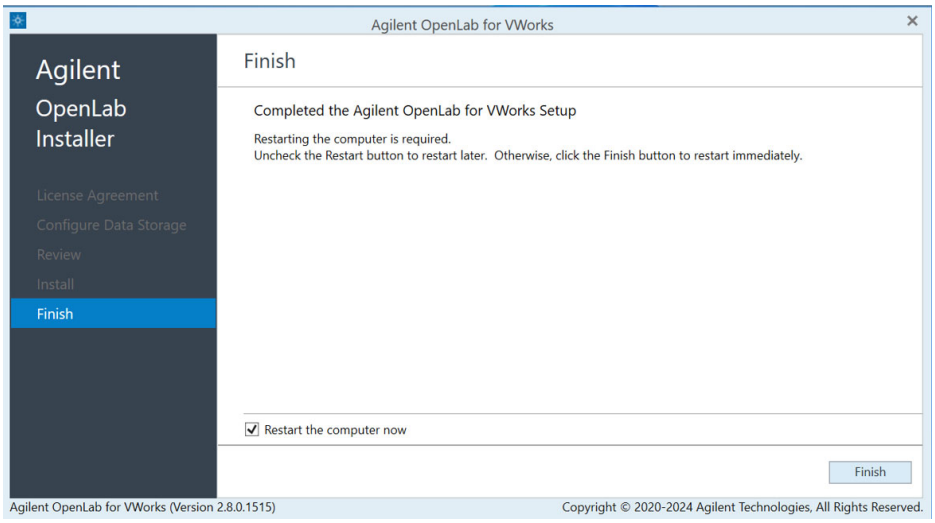


11 After the system preparation tool is installed, OpenLab server specific UI will be displayed, indicating the installation progress of various sub-components of OpenLab Shared Services.



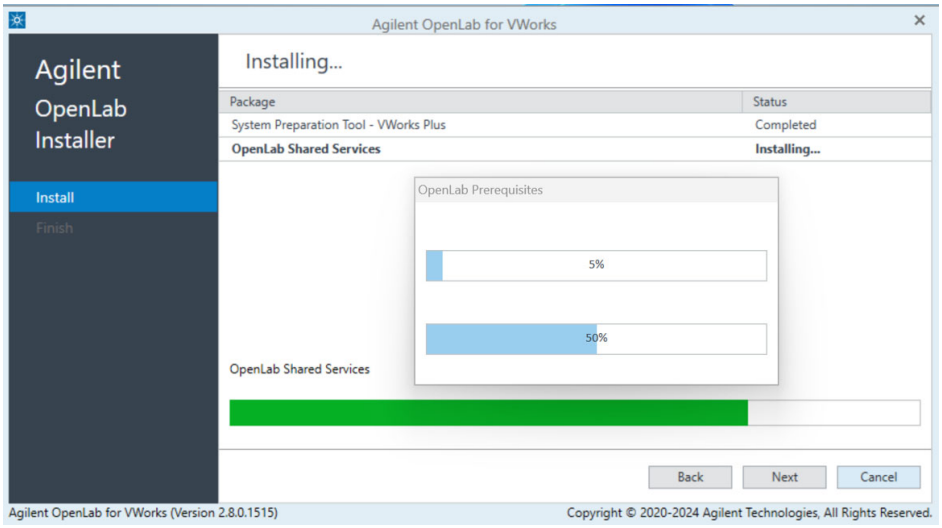


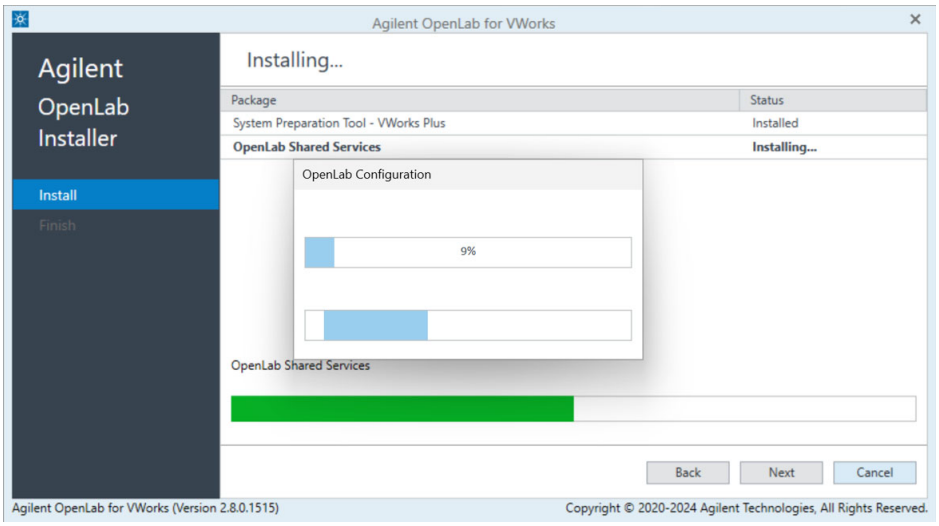
12 When the wizard has completed the first part of the installation, you will be asked to restart your computer. Select the **Restart the computer now** check box and click **Finish**.



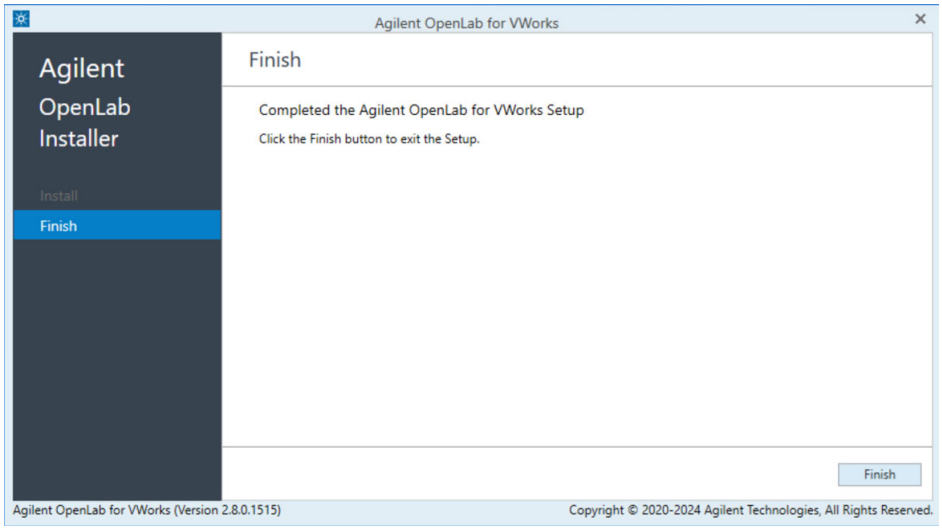
After the system is restarted, the OpenLab installer will continue automatically.

Note: If you do not select to restart the computer now, the installation wizard will resume the next time the computer is restarted.





13 When the software is fully installed, the **Finish** page displays. Click **Finish** to close the wizard.



Upgrading OpenLab 2.5, 2.6 or 2.7 for VWorks

About upgrading OpenLab for VWorks

To upgrade OpenLab for VWorks from versions 2.5, 2.6 or 2.7 to version 2.8, follow the steps outlined below.

Note: After upgrading to OpenLab 2.8 for VWorks, you will have to download a new license from SubscribeNet. For instructions, see the *Configuration and Administration Guide* for your edition of VWorks software

Performing an OpenLab 2.8 upgrade for VWorks 14.4

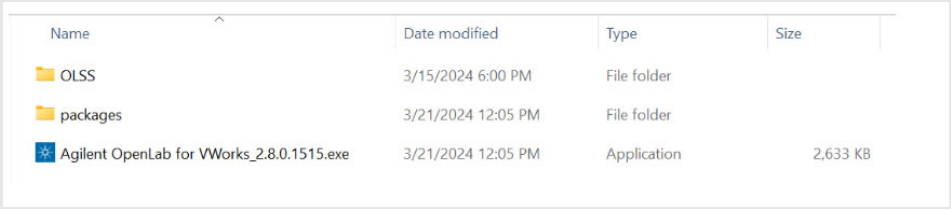
To perform an upgrade to OpenLab 2.8:

1. Copy the **OpenLabforVWorks_2.8.0.1515.zip** files of the USB drive to the following location on your computer and then remove the USB drive from the computer:

   C:\Temp.

2. Unzip the **OpenLabforVWorks_2.8.0.1515.zip** archive to the following folder:

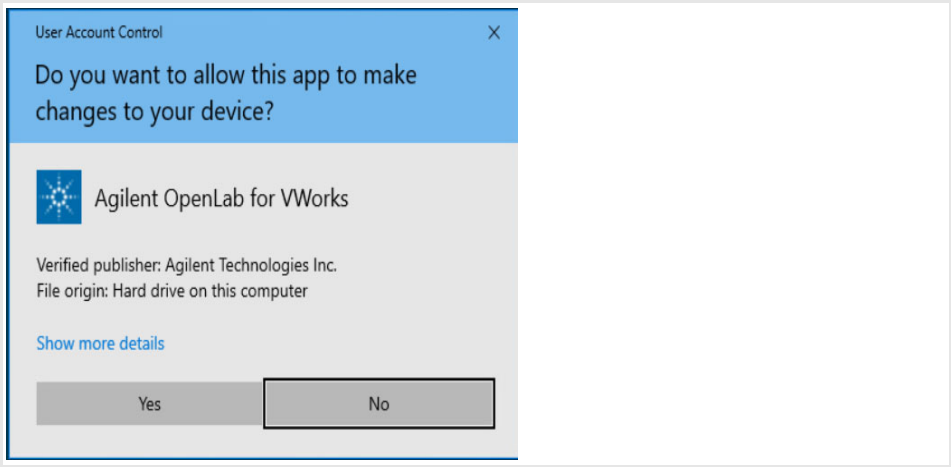
   C:\Temp\OpenLab



3. Double-click the unzipped **Agilent OpenLab for VWorks_2.8.0.1515.exe** file.

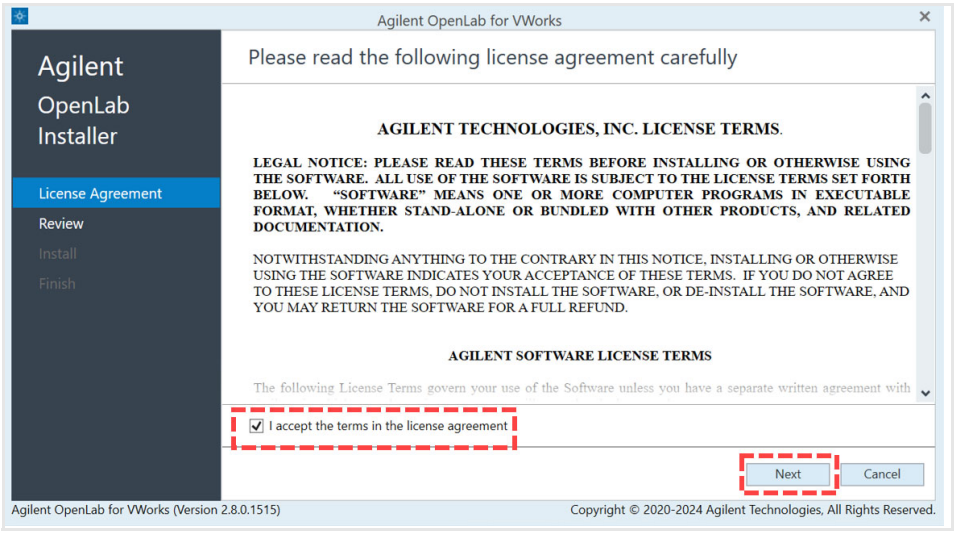
   Note: If you have an antivirus software on your computer, it may block or quarantine this installer. If that occurs, either disable the antivirus or restore the file from the antivirus' quarantine to continue with the installation.

4. Click **Yes** to the message asking you for permission to proceed.



When the **Agilent OpenLab for VWorks** wizard opens, the **License Agreement** page is displayed.

5 Accept the terms of the license agreement and click **Next**.



The review page shows the components for the edition to be installed.

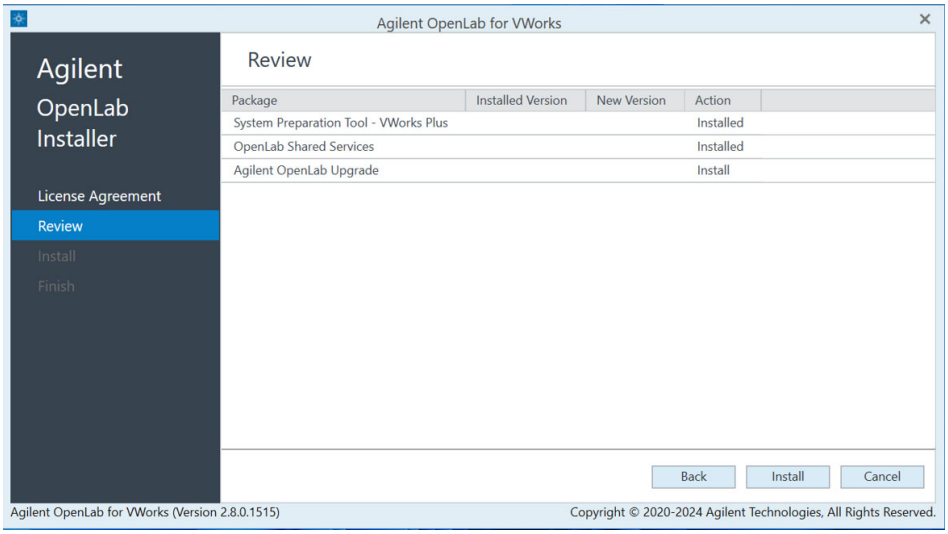
IMPORTANT

The installer only supports the same edition in-place upgrade. If you currently have the Standard edition of OpenLab, you can only upgrade to VWorks Standard. If you currently have the Plus edition of OpenLab, you can only upgrade to VWorks Plus. To change editions, you must uninstall OpenLab for VWorks and then install OpenLab 2.8 for VWorks as a new installation. See "About installing OpenLab for VWorks on systems with older versions of VWorks 14" on page 8.

The review page showing the components for the selected edition is displayed.

6 Ensure the correct components are displayed. These include:

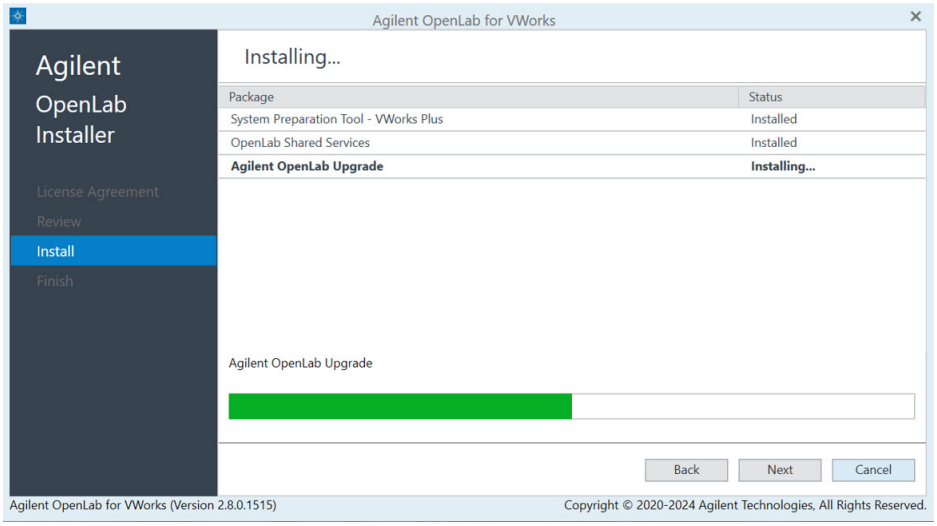
- System Preparation Tool – VWorks *<edition>*
- OpenLab Shared Services
- Agilent OpenLab Upgrade



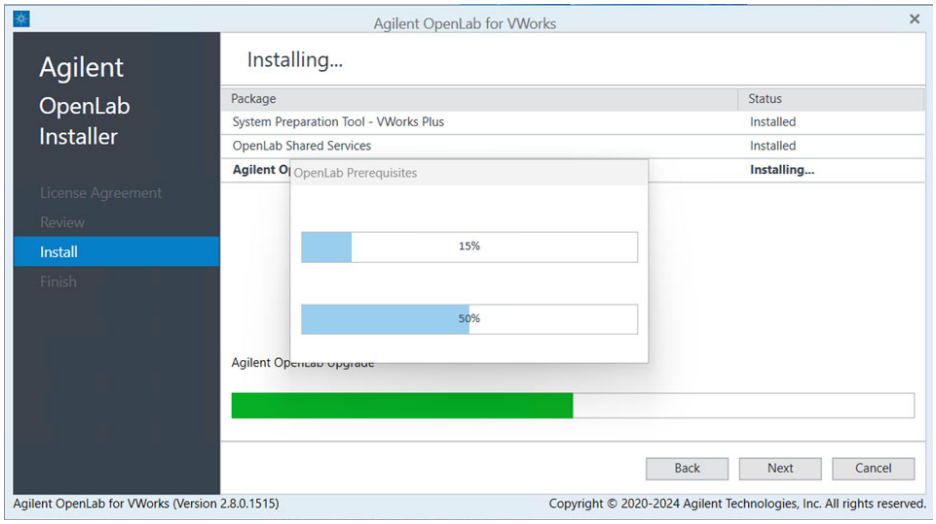
Note: The pages of the wizard can vary slightly depending on which edition you are installing. The following examples show the VWorks Plus Upgrade installation.

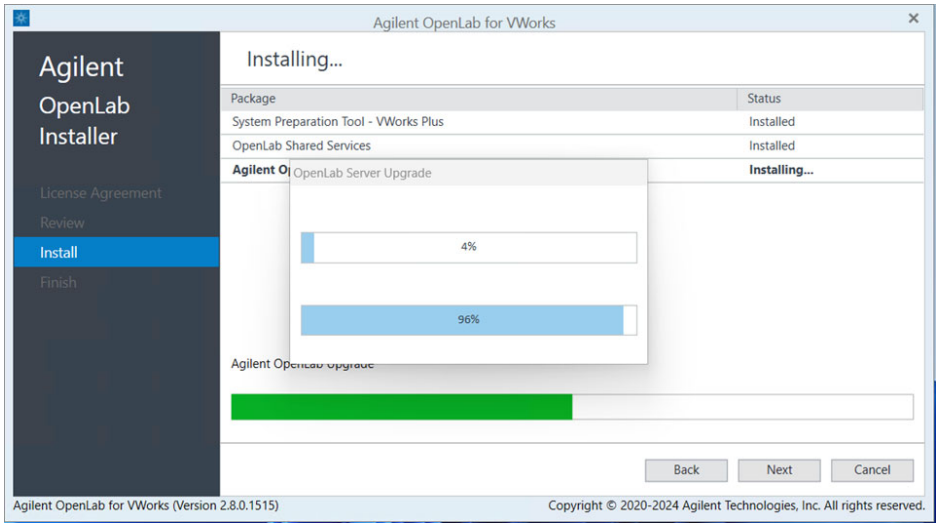
7 Click **Install** to start the installation of the upgrade components.

A progress bar will appear in green color, indicating the progress of installation of OpenLab software.

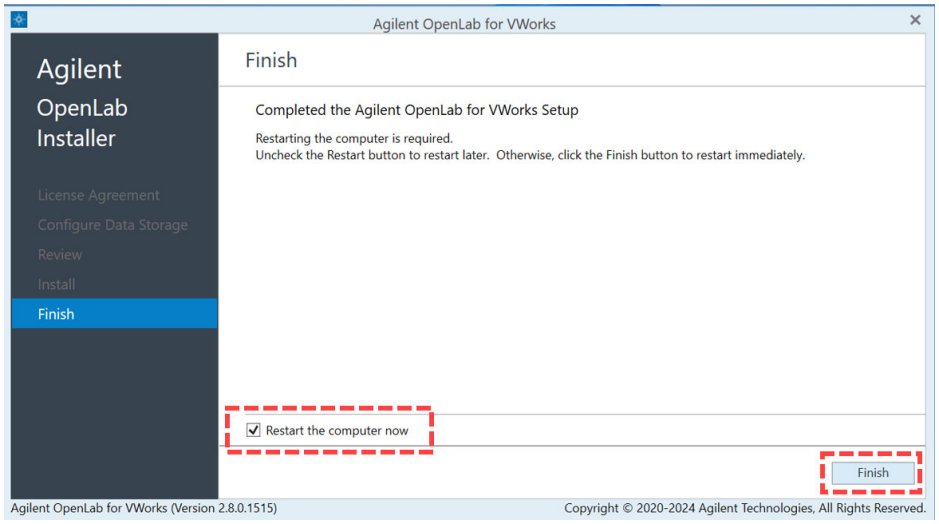


After starting the upgrade, OpenLab server specific UI will be displayed, indicating the progress of various sub-components of the Agilent OpenLab upgrade.



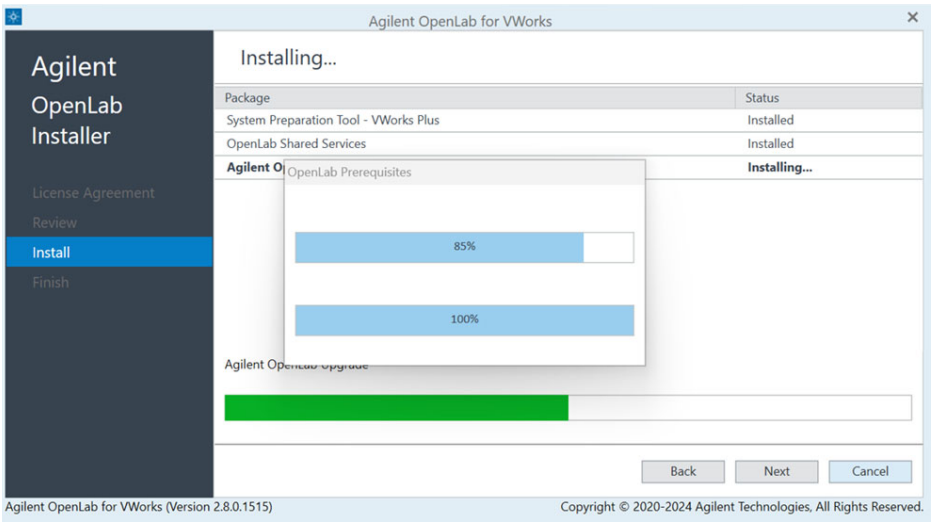


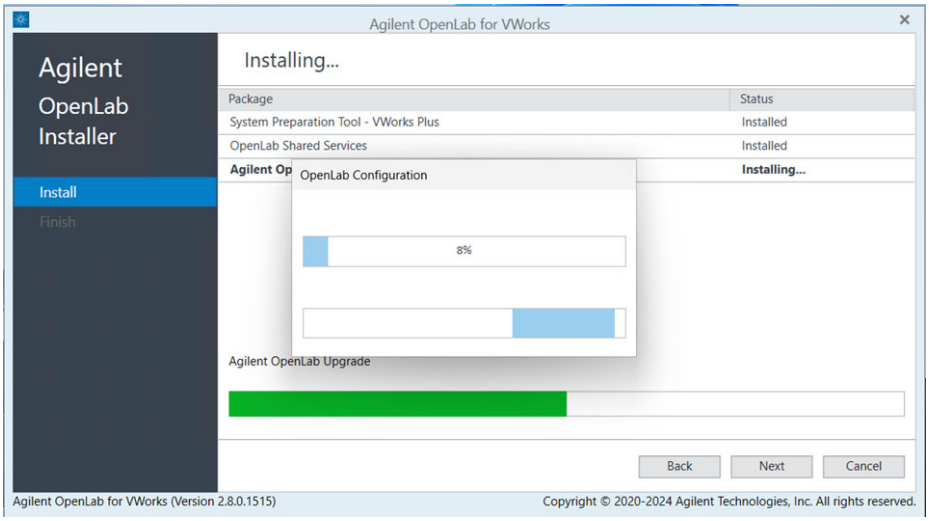
8 When the wizard has completed the first part of the installation, you will be asked to restart your computer. Select the **Restart the computer now** check box and click **Finish**.



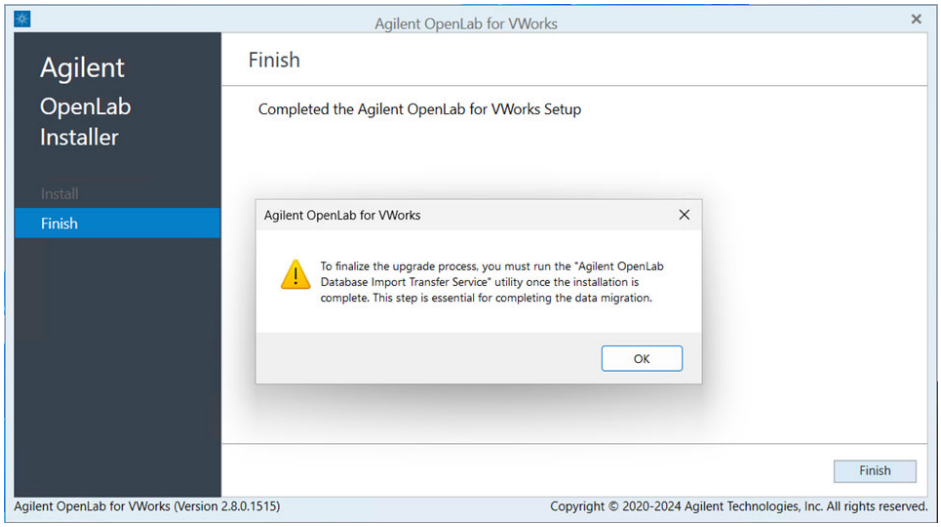
Note: If you do not select to restart the computer now, the installation wizard will resume the next time the computer is restarted.

After the system is restarted, OpenLab upgrade will continue automatically.

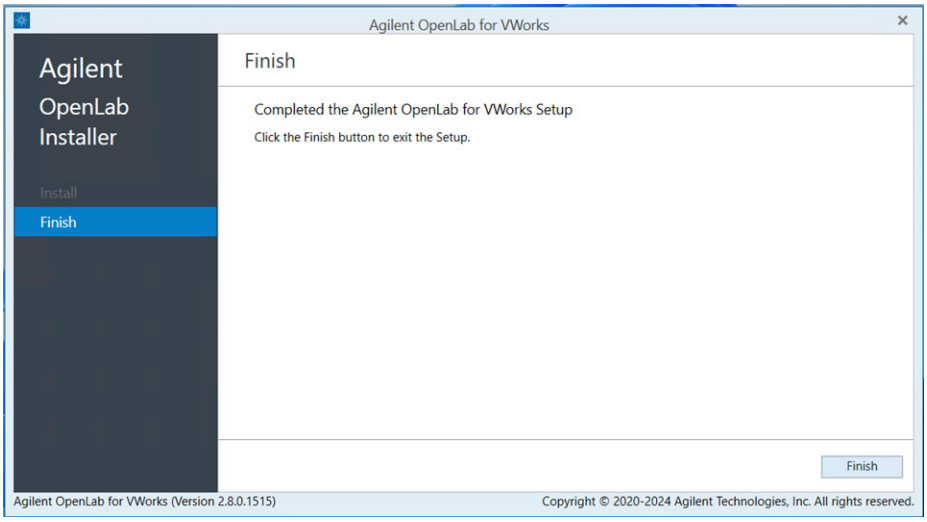




9 When the wizard is finished, a warning telling you to run the Agilent OpenLab Database Import Transfer Service utility will display. Click **OK**.



10 When the warning message closes, click **Finish** to close the wizard.



11 Go to "Running the database transfer utility" on page 24 followed by "Checking the OpenLab software installation" on page 26 to complete the installation.

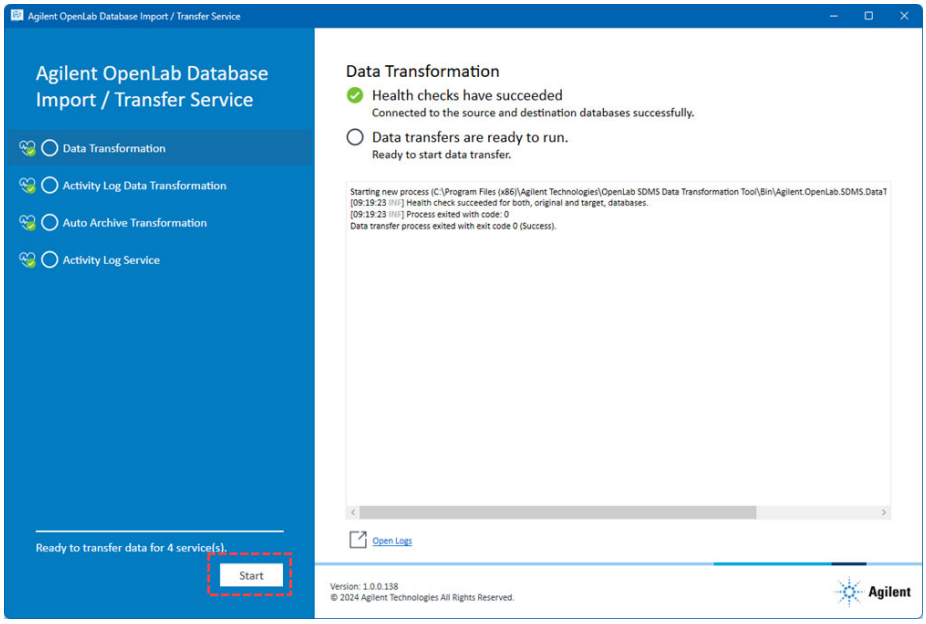
Running the database transfer utility

After upgrading to OpenLab 2.8 for VWorks, you need to run the Agilent OpenLab Database Import Transfer Service Utility to preserve your data.

To run the database transfer utility:

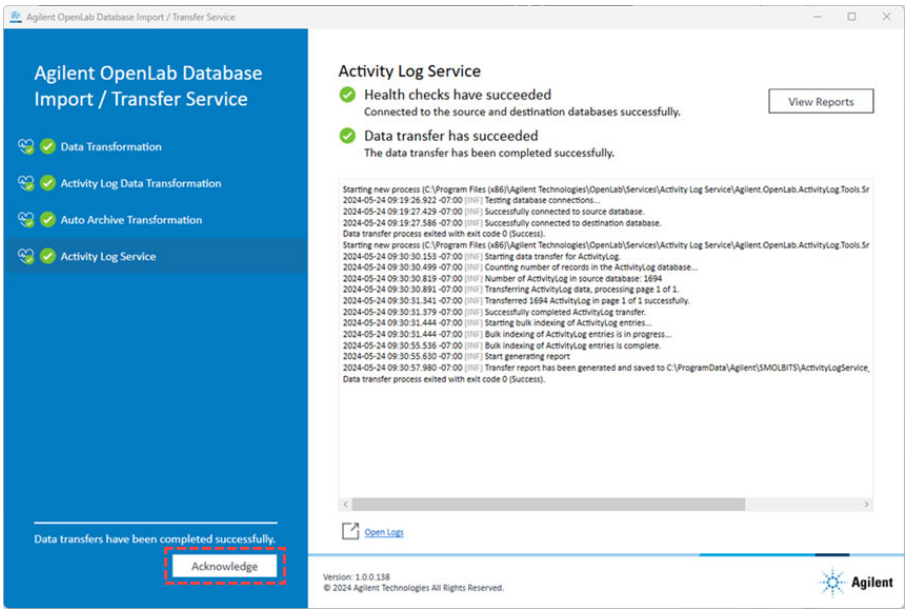
1 From the Windows **Start (** **)** go to, **All Apps** > **Agilent Technologies,** and click **Agilent OpenLab Database Import and Transfer Service**.

2 When the utility window opens, click **Start** to begin the database import/transfer.



During the execution of the transfer utility, reports (in pdf format) are automatically generated documenting the activity of the utility.

3 When the import/transfer is complete, click **Acknowledge** to close the application.

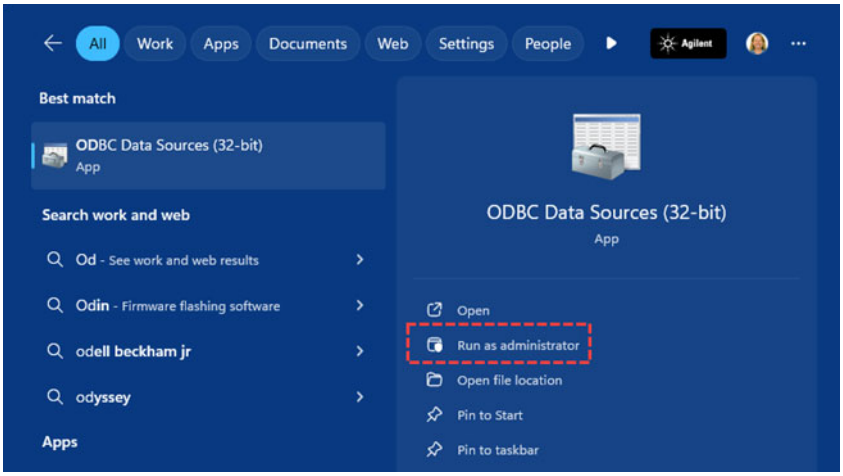


Changing the ODBC data source configuration

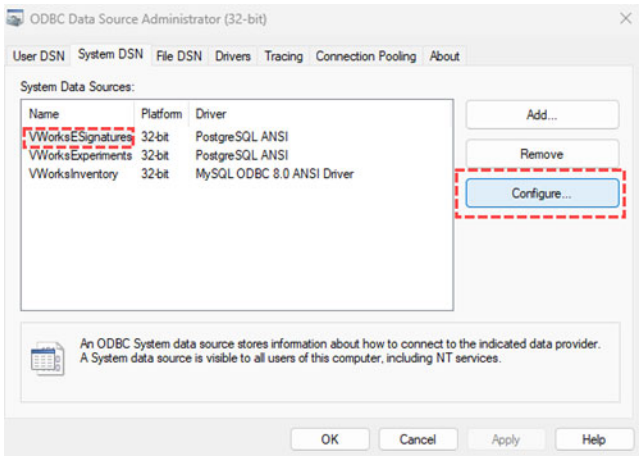
The data source port used by the E-signature and Experiments database has been changed from 5433 to 5432 in OpenLab 2.8 for VWorks.

To change the ODBC data source port:

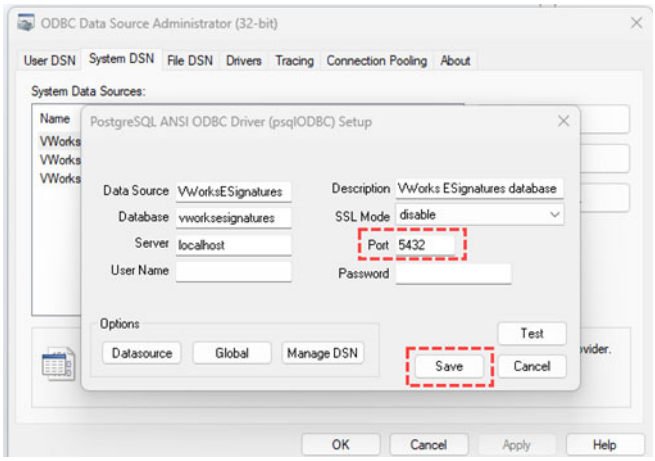
1 In Windows Search field, type in **ODBC Data Sources** and click **Run as administrator**.



2 Click the **System DSN** tab, select **VWorksEsignatures** in the **Name** column, and click **Configure**.



3 In the **PostgreSQL ANSI ODBC Driver Setup** dialog, change the **Port** to **5432**. Click **Save**.



4 Repeat step 2 and step 3 for **VWorksExperiments**.

5 Click **OK** to close the application.

Checking the OpenLab software installation

About checking the OpenLab software installation

Use the following procedure to check the installation or upgrade of the OpenLab for VWorks software.

Checking the OpenLab for VWorks software installation

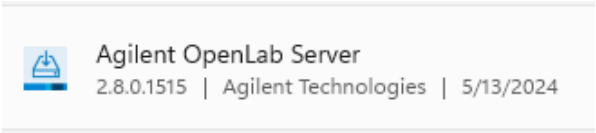
To check the software installation:

1 Verify the correct version of OpenLab was installed:

a In Windows, go to **Settings > Apps.**

b Locate OpenLab Server.

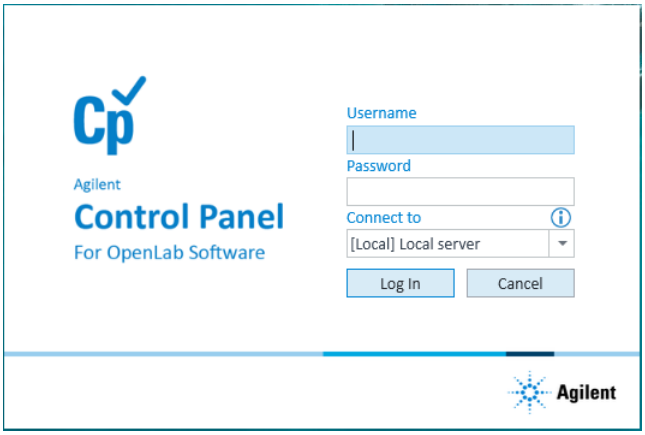
c Click **OpenLab Server** and check the version. It should be **2.8.0.1515**.



2 From the Windows **Start ( )** menu, go to **All Apps** > **Agilent Technologies**, and click **Control Panel.**

3 In the Login window, enter your Login (user name) and password.

- Login *admin*
- Password *openlab*

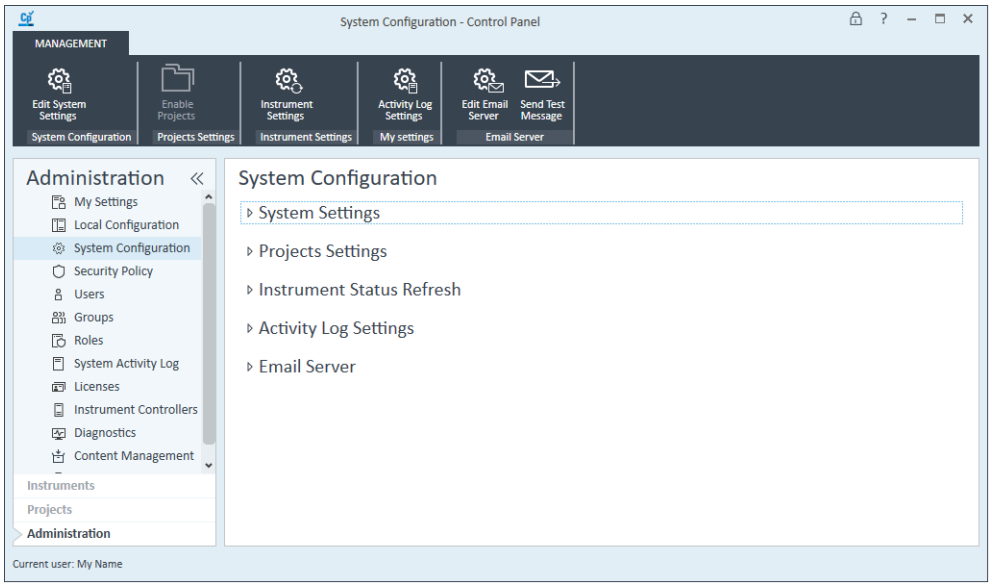


Later, after installing the software license, the system administrator should configure user accounts in OpenLab Control Panel and change the password for this login. For instructions, see the *VWorks Plus Configuration and Administration Guide* or *VWorks Standard Configuration and Administration Guide*.

If you are doing an OpenLab upgrade and are keeping the same VWorks edition, you do not need to reconfigure the user accounts as OpenLab retains the users' account information.

4 Verify that the Control Panel window opens:

Note: If Control Panel is not available or does not start, contact Agilent Technical Support.



5 If you plan to change the authentication provider to Windows Domain instead of the Internal (default) one in Control Panel:

a In the Control Panel **System Configuration** page, click **Edit System Settings**. The Edit System Settings dialog box opens.

b Select the authentication provider Windows Domain from the list, and follow the instructions to confirm your settings. When complete, the Control Panel will restart.

Note: If you plan to use the Internal authentication provider, no changes are required to this setting.

6 Close the Control Panel.

Installing Agilent VWorks 14.4 software

About the VWorks 14.4 installation wizard

IMPORTANT

Ensure that Agilent OpenLab for VWorks has already been installed. Otherwise, the VWorks 14.4 installer will exit before completion.

To install the required OpenLab for VWorks components, see "Installing Agilent OpenLab for VWorks" on page 10.

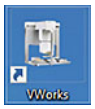
The VWorks 14.4 installation wizard installs:

- Agilent Bravo IQOQ Test Utilities 2.0.0.16.

  Agilent support providers may use these utilities to perform qualification on the corresponding Bravo device.
- Agilent VWorks software

- VWorks Knowledge Base and PDFs of user guides

The VWorks installer automatically does the following:

- Publishes VWorks user roles and groups in the OpenLab Control Panel.
- Enables projects in OpenLab Control Panel and creates the VWorks Project and standard folder structure.
- Creates and configures the default instrument, and creates a VWorks shortcut 

for the default project and instrument.
- Publishes all standard labware entires, labware classes, and liquid classes.
- Updates the Windows Start ( ) menu under Agilent Technologies to include VWorks, VWorks Knowledge Base, and VWorks quick reference guides.

Running the VWorks 14.4 installer

To install Bravo IQOQ Test Utilities and VWorks software:

1 If you have not already done so, copy VWorks_14.4.*xxxx*.exe to your desktop or the C:\Temp\ folder.

To launch the installer, double-click **VWorks_14.4.*xxxx*.exe**, where *xxxx* is the build number.

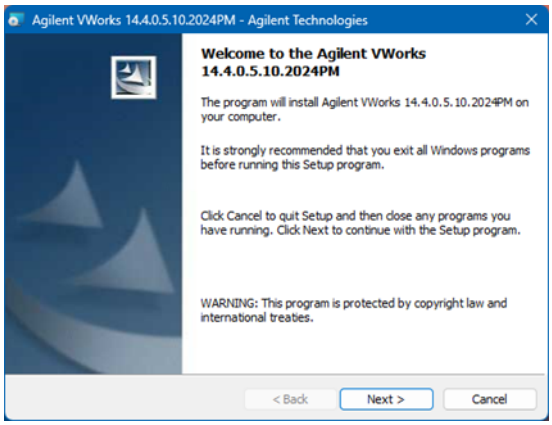
Note: The following figures show examples of the installation wizard and may not reflect the final build number of the released software.

Note: If you have an antivirus software on your computer, it may block or quarantine this installer. If that occurs, either disable the antivirus or restore the file from the antivirus' quarantine to continue with the installation.

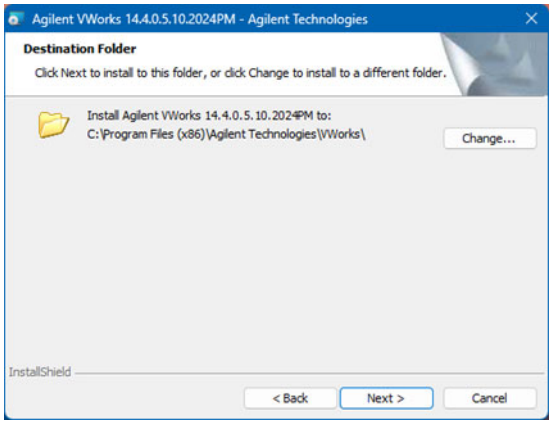
2 Click **Yes** to allow the installer to make changes to your device.

3 In the **Welcome to Agilent VWorks** page, click **Next** to continue with the installation.

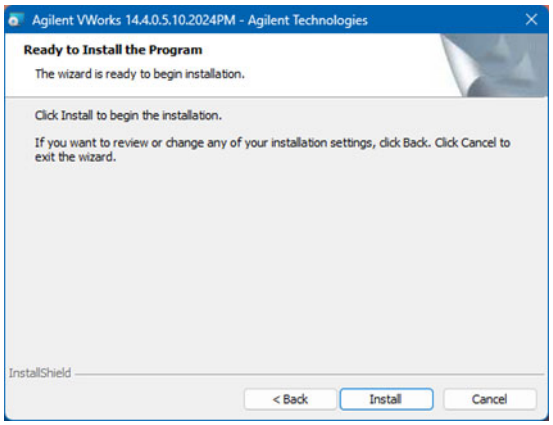
Note: The following figures show examples of the installation wizard and may not reflect the final build number of the released software.



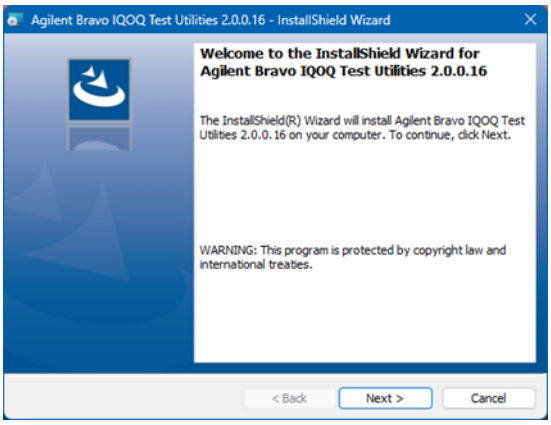
4 In the **Destination Folder** page, click **Next**.



5 In the **Ready to Install the Program** page, click **Install**.



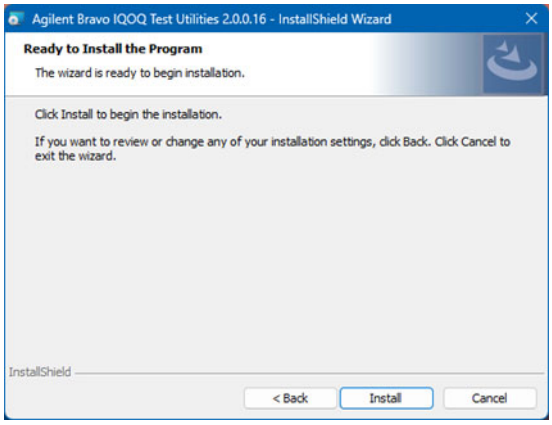
6 If Bravo IQOQ Test Utilities are not yet installed, the Welcome page for Bravo IQOQ Test Utilities appears.



If you do not see this page, go to step 7.

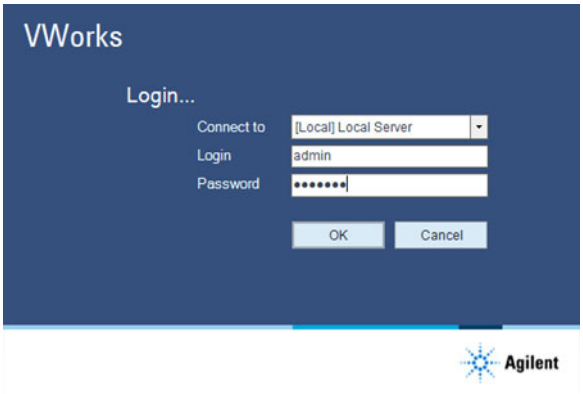
If this Bravo IQOQ Test Utilities page appears, click **Next**, and then do the following:

a In the **Ready to Install the Program** page, click **Install**.

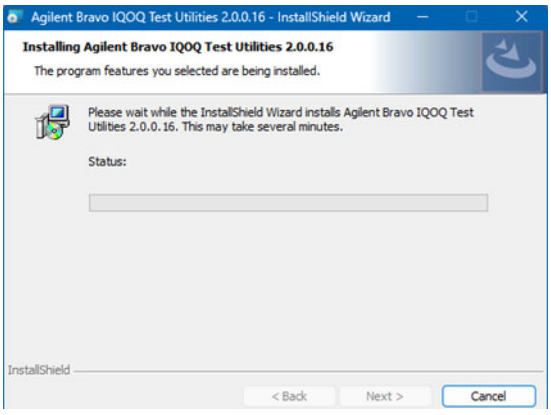


b When the **VWorks Login** page opens, log in using OpenLab administrator credentials. By default, the credentials are:

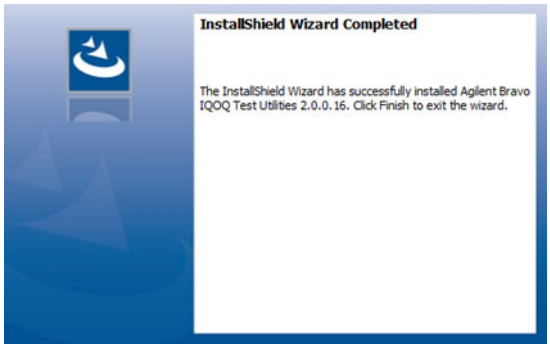
- Login *admin*
- Password *openlab*



c Click **Next** when the button activates after the installation is complete.

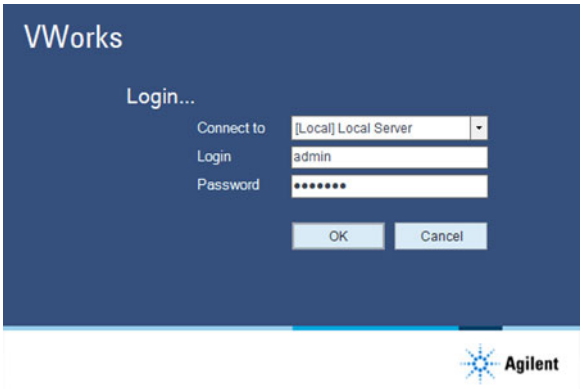


The **Wizard Completed** window appears.



7 When the **VWorks Login** page opens, log in using OpenLab administrator credentials. By default, the credentials are:

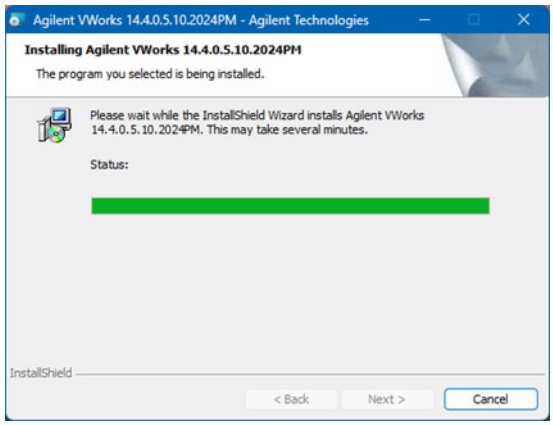
- Login *admin*
- Password *openlab*



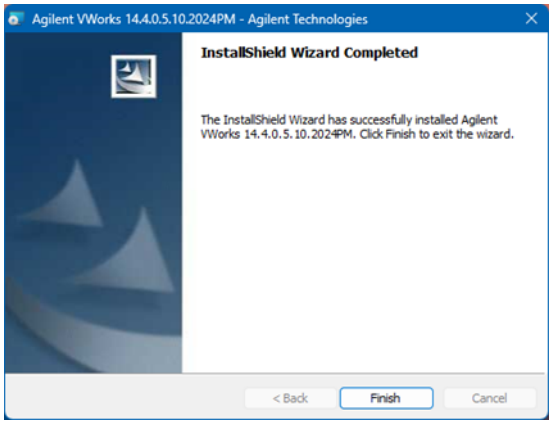
8 If the **Existing Labware Detected** message appears, follow the instructions to do one of the following:

- To overwrite the existing labware values with the new ones, click **Yes**.
- Click **No** or **No to all** if you want to retain the existing values, for example, if you have modified the values for your system.

The wizard continues installing VWorks.



9 In the **Completed** page, click **Finish**.

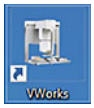


Checking the VWorks installation

To check the VWorks installation:

1 From the Windows **Start ( )** menu, go to **All Apps** > **Agilent Technologies**, and check for the following items**:**

- VWorks
- VWorks Knowledge Base
- VWorks Plus Quick Reference
- VWorks Standard Quick Reference

2 Right-click the VWorks shortcut 

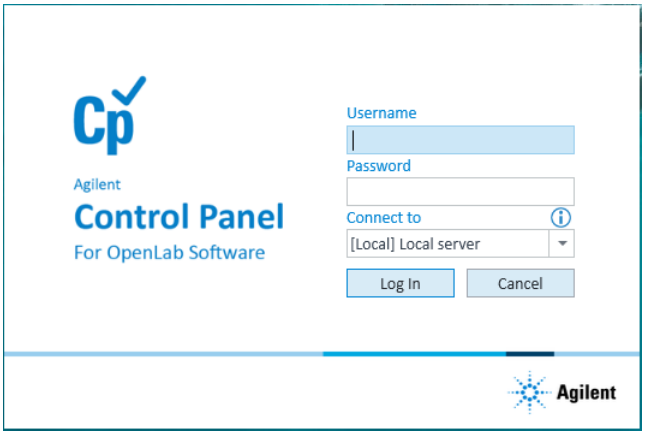
on the Windows desktop, and then click **Run as administrator** in the shortcut menu.

Note: You use the Run as administrator command only the first time you start the software after installation. If you do not do this, an error message may appear stating that one or more components are not registered properly. If this error message appears, repeat this step.

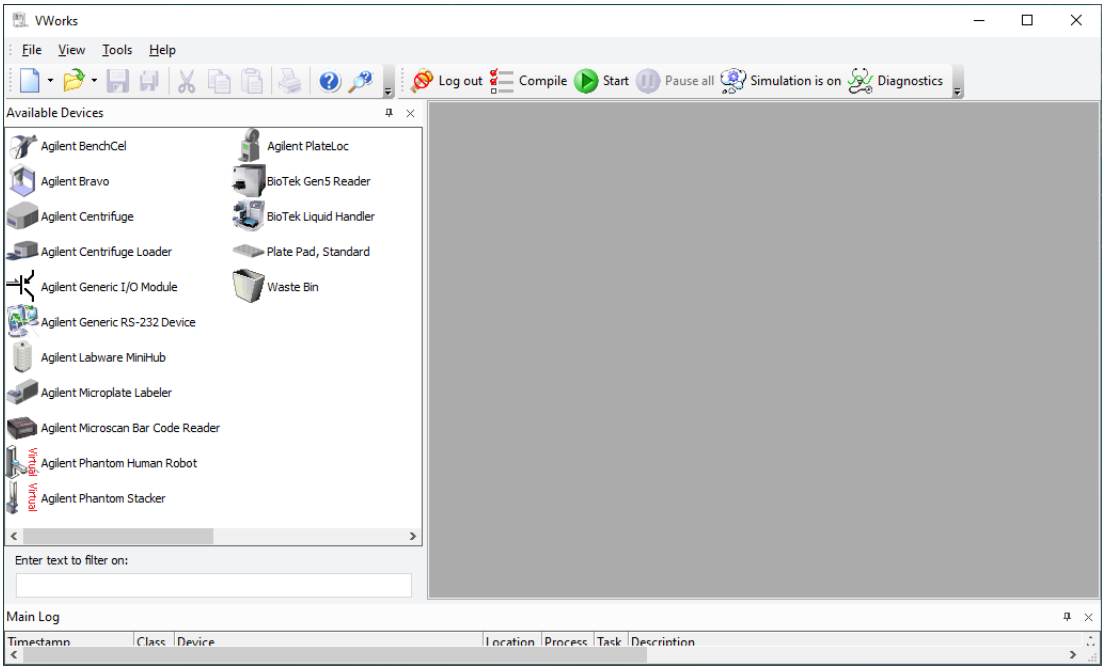
IMPORTANT After successful installation of VWorks and after launching the VWorks application as **Run as administrator**, *i.e.* with Windows administrator privileges, you must close the application before performing any tasks in VWorks. You can then re-launch VWorks (not as Windows administrator) and begin using the application.

3 In the Login window, enter your Login (user name) and password. By default, the credentials are:

- Login *admin*
- Password *openlab*



4 Ensure that the VWorks window opens without any errors.



5 Ensure that the VWorks menu bar, standard toolbar, and control toolbar are visible. If necessary, right-click the window, and select these view options from the shortcut menu.

6 Close the VWorks software.

Verifying the software installation

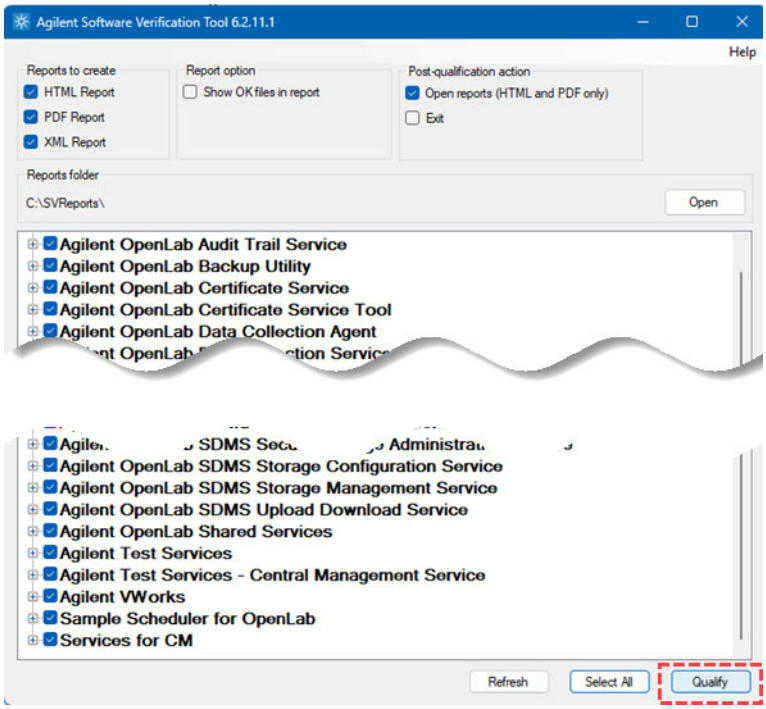
The Agilent Software Verification Tool can be used to verify a successful installation of a new version or patch. This test is typically performed at installation and can be performed at any time to verify the file level integrity of the software installed. Test reports can be printed or saved to files.

The Agilent Software Verification Tool has a reference file that provides an index of the files required for a proper installation. The tool checks the reference list against the files installed, their locations and revisions, including operating system files with specific dependencies.

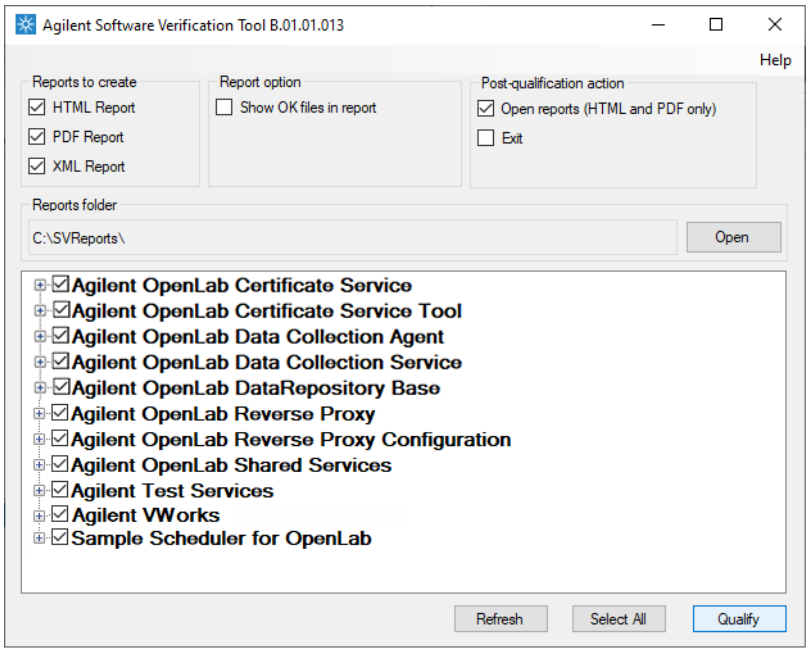
IMPORTANT The Software Verification Tool does not replace the Installation Qualification (IQ) service. To qualify the accuracy of Bravo liquid handling, the customer can order Bravo qualification services from Agilent. The Bravo IQOQ service requires a reagent kit in addition to the software and is performed by an authorized Agilent service provider.

To verify the Agilent software installation:

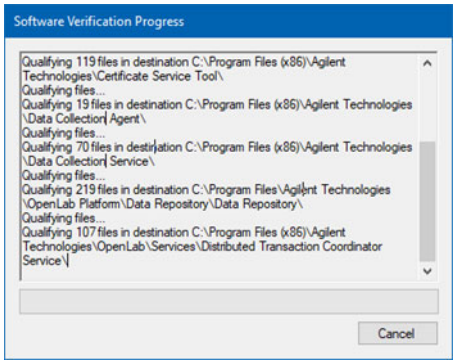
1. On the Windows desktop, click **All Apps > Agilent Technologies > Software Verification Tool**.
2. In the **Agilent Software Verification Tool** window, select the check boxes of all the software components to be qualified. The software components that you select depend on the VWorks version installed:



- *VWorks Standard*. Select the check boxes of all the components, as the following figure shows, and then click **Qualify**.



3 Wait for the tool to complete the processing.

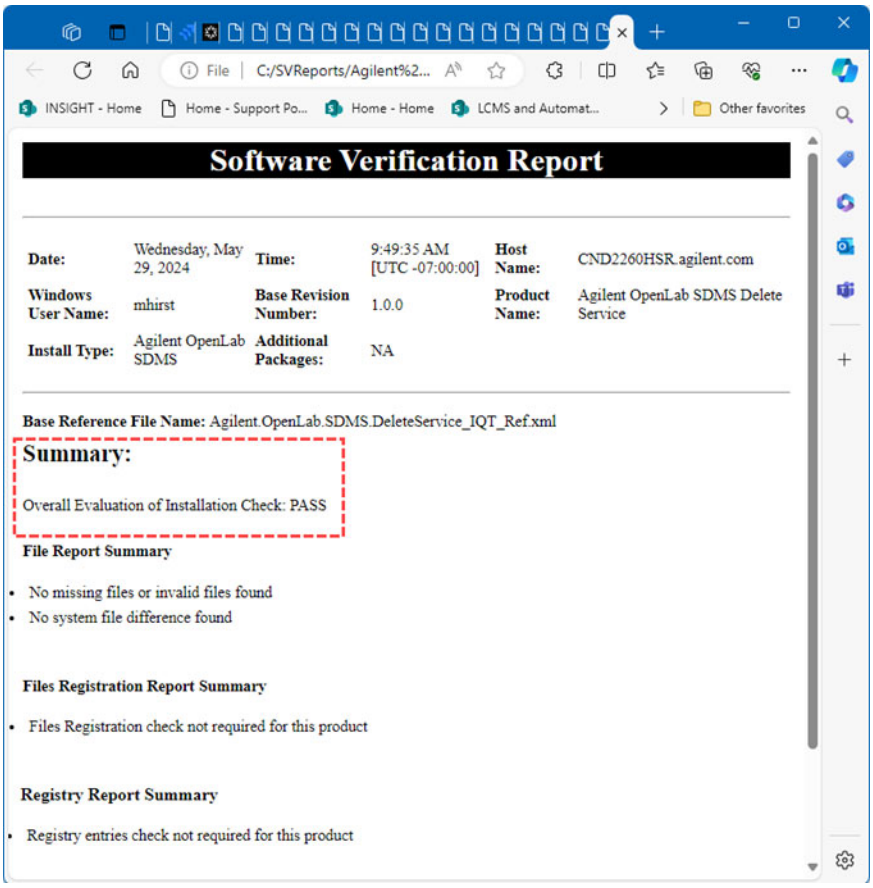


After the processing is completed, a PDF report and an HTML page displays for each software component.

4 Ensure that each report displays a **PASS** under the **Summary** section.

If any test results in a FAIL, re-install the software, and rerun the test.

5 Save the PDF reports for inclusion in the customer installation report.



Enabling the ability to upload JavaScript (.js) and Structured Query Language (.sql) files in VWorks

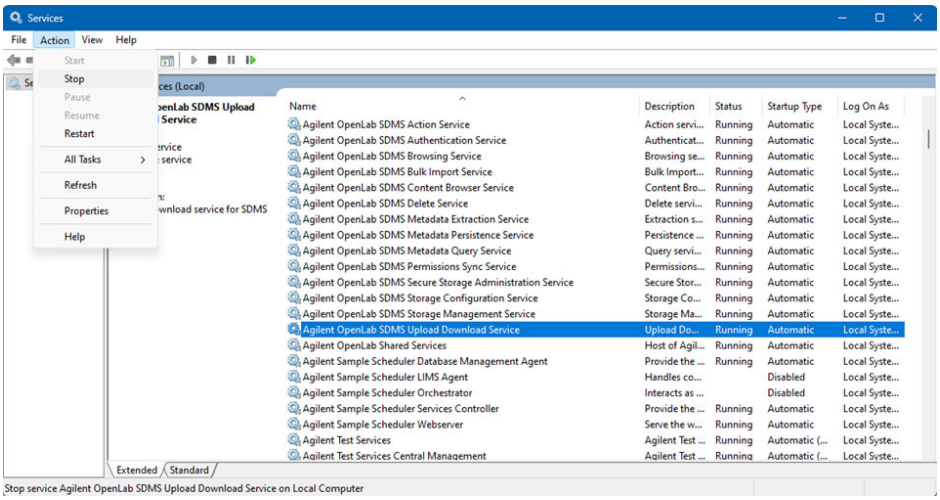
For security reasons, OpenLab for VWorks's default setting prohibits the upload of certain file types, such as JavaScript (.js) and Structured Query Language (.sql) files.

VWorks protocols can contain both types of these files.To allow the upload of these file types directly on the OpenLab Secure Storage (Content Browser), modifications need to be made to a file located on the local drive. Follow the steps outlined below to implement these changes.

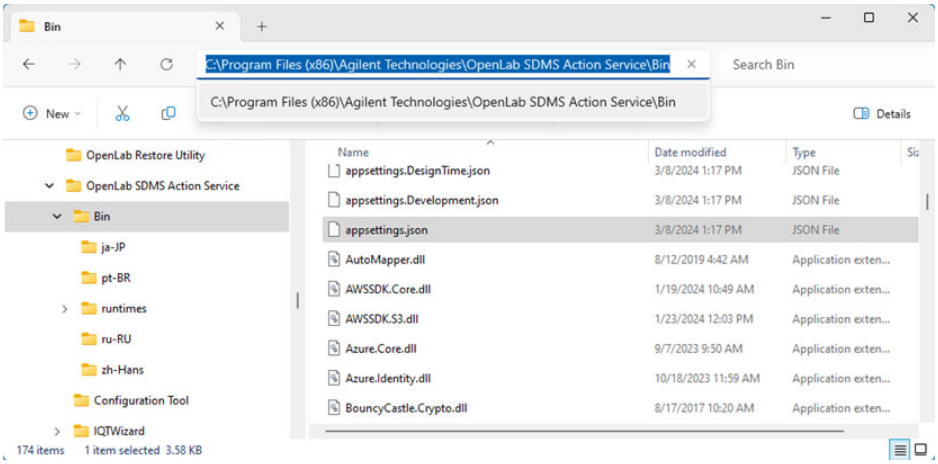
Procedure

To enable the ability to upload of .js and .sql files:

1. Open the Services.msc app.
2. Locate and select the **Agilent OpenLab SDMS Upload Download Service** service.
3. Click **Action**, and select **Stop** to stop the service.

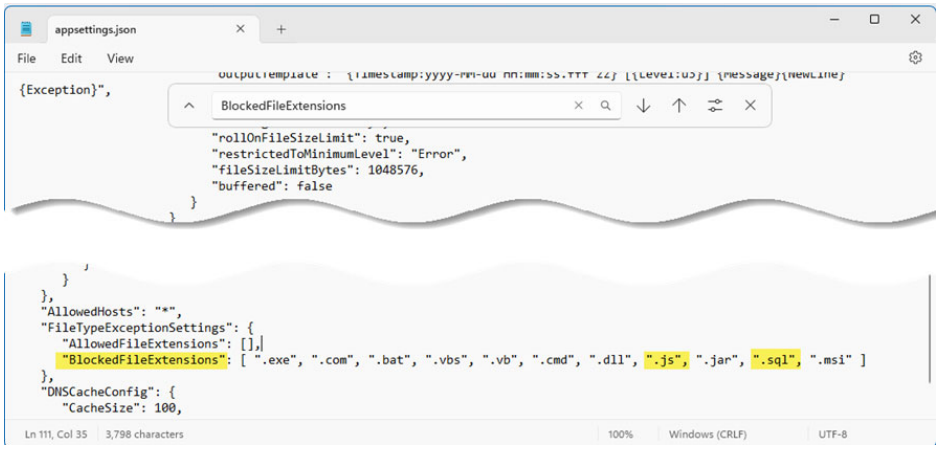


4 Navigate to the folder **C:\Program Files (x86)\Agilent Technologies\OpenLab SDMS Upload Download Service\Bin** in File Explorer.



5 Locate the **appsettings.json** file and open it in Notepad.

6 Remove the **".js",** and **".sql"**, strings from the list of **BlockedFileExtensions** array as highlighted below:



7 Save and close the updated file.

8 Return to the Services.msc app and restart the **Agilent OpenLab SDMS Upload Download Service** by selecting **Restart** from the **Action** menu.

9 Close the Services.msc app.

Uninstalling VWorks Plus or VWorks Standard 14.0 or later

About this topic

Use the following procedure to uninstall VWorks Plus or VWorks Standard edition.

Procedure

To uninstall VWorks Plus or Standard 14.0 or later:

1 In Microsoft Windows, go to **Settings > Apps > Apps & features.**

2 In the **Apps & features** list, uninstall each of the following.

Note: To uninstall an item, select the item, and then click **Uninstall**.

a Agilent Bravo IQOQ Test Utilities

b Agilent VWorks 14.0.0.*xxxx* or 14.x.x.*xxxx*, where *xxxx* is the build number

When the message appears saying that a reboot will be required to complete the setup, click **OK**.

Note: Do not uninstall Microsoft .NET framework.

c If applicable, AssayMAP Protein Sample Prep Workbench.

3 Restart the computer.

Note: If you plan to install VWorks 13.1.x and you also plan to use the labware inventory database, ensure that you install MySQL 5.7 as well as the VWorks software. Contact Agilent Technical Support if you need assistance.

Uninstalling VWorks 13.1.x or earlier

Before you uninstall

Create backup copies of the following items for safekeeping:

- Copy the C:\VWorks Workspace\ folder.
- Export the full set of Velocity11 registry keys to a file (.reg).

To export the Velocity11 registry keys:

1 Open **Registry Editor**.

2 In the **Registry Editor** window, right-click the following, and then click **Export**.

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Velocity11

3 In the **Export Registry File** dialog box, specify a file name and storage location, and click **Save**.

About migrating your VWorks files

Even though you must uninstall any previous VWorks versions before installing VWorks 14.0 or later, the files and records created by the previous version remain on the hard drive of the computer and will be accessible by the VWorks Migration Wizard. The VWorks 14.3 Migration Wizard enables you to migrate the VWorks protocols and associated files from VWorks 12.3, 13.0, or 13.1.x.

Uninstalling VWorks 13.1.x or earlier versions

Uninstall any previous versions of the following:

- Agilent Bravo IQOQ Test Utilities
- Agilent Bravo Metabolomics Workbench, Protein Sample Prep Workbench, and BenchCel Workstations, if applicable
- Agilent Software Verification Tool
- VWorks software

To uninstall a previous version:

1. In Windows, go to **Settings > Apps & features**.
2. Select the program, for example, VWorks xx.x.x.xxx, and click **Uninstall** to uninstall the selected software.
3. Click **Yes** to allow the installer to make changes to your device.

After uninstalling the VWorks software, ensure that the following folder is not present. If necessary, delete it: C:\Program Files (x86)\Agilent Technologies\VWorks\Plugins.

Uninstalling OpenLab for VWorks

About uninstallation of OpenLab for VWorks

Normally, you should only need to uninstall OpenLab for VWorks for the following scenarios:

- You are upgrading from VWorks Standard edition to VWorks Plus edition
- You are downgrading from VWorks Plus edition to VWorks Standard edition

If you do need to uninstall OpenLab for VWorks, use the following procedure.

To uninstall OpenLab for VWorks:

1. In Microsoft Windows, go to **Settings > Apps > Installed Apps**.
2. Locate **Agilent OpenLab Server 2.x**, and select Uninstall.
3. In the message stating "This app and its related info with be uninstalled", click **Uninstall** to start the uninstallation.

   Note: This step uninstalls the remaining Agilent OpenLab components. Any components that you must uninstall manually are identified.
4. When the uninstallation of the server is complete, locate and uninstall the Agilent Software Verification Tool.
5. Restart the computer.

In This Book

This guide provides instructions on how to install VWorks 14.4 software on a new computer and on a computer running older versions of VWorks software.

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