Technical Document

Niagara 4 Installation Guide

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U.S.A.

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Contents

About this (Guide	5
	Document change log	5
	Related documentation	6
Chapter 1.	Important information	
	Quick Start	7
	PC requirements	7
	Supported operating systems	8
	Java installation and disabling an earlier Java plugin	8
	Supported web browsers	9
	Supported relational database software	9
	License requirement	10
	32-bit vs. 64-bit installations	10
	Determining installation version (32-bit or 64-bit)	11
Chapter 2.	Installation	13
	Downloading the latest build	13
	Running the installation program	14
	Selecting the installation location	15
	Selecting the Daemon User Home location	16
	Setting the system passphrase	
	Selecting install options	
	Finishing install options	
	License confirmation	
	Performing a "clean" installation	
	Uninstalling	
Chapter 3.	Silent Installer	
	Editing silent.properties file	
	Running the unattended installer	
	Viewing the installation process	28
Chapter 4.	Getting started in Workbench	31
	Desktop shortcuts and tiles	
	File locations	32
Chapter 5.	Frequently asked questions	
	Niagara 4 FAQs	
	General FAQs	36
Chapter 6.	Glossary	37

About this Guide

This topic contains important information about the purpose, content, context, and intended audience for this document.

Product Documentation

This document is part of the Niagara technical documentation library. Released versions of Niagara software include a complete collection of technical information that is provided in both online help and PDF format. The information in this document is written primarily for Systems Integrators. To make the most of the information in this book, readers should have some training or previous experience with Niagara software, as well as experience working with JACE network controllers.

Document Content

This guide provides essential instructions on how to install Niagara 4 software.

Topics in this document include information on system and license requirements and how to get started with Workbench. Topics also include descriptions of the Niagara 4 directory structure and Niagara homes.

Document change log

Changes to this document are listed in this topic.

May 1, 2025

- Updated supported operating systems and database software tables in "Important information" chapter.
- Edited "Editing silent.properties file" topic in "Silent Installer" chapter.

September 11, 2024

• Updated supported Operating Systems, supported Relational Databases, and supported Web browsers tables for version Niagara 4.14 supervisor.

March 27, 2024

• Updated hardware requirements for Niagara 4 supervisor.

December 21, 2023

- In the "Silent Installer" chapter, added information about the location of the silent.properties file.
- Updated "Supported operating systems" topic. to show support for Windows Server 2022 in Niagara 4.10u6.

July 25, 2023

- Added "Silent Installer" chapter (Niagara 4.13).
- Added JACE reference to "Setting the system passphrase" topic.
- Updated the 4.13 table for Supported operating systems, Supported web browsers, Supported relational database software and Supported mobile operating systems. Supported operating systems

October 17, 2022

Updated the 4.12 table for Supported operating systems, Supported web browsers, Supported relational database software and Supported mobile operating systems.

November 29, 2021

- Updated 4.11 column in these tables: operating systems, web browsers, relational database software and mobile operating systems.
- Updated two examples with more recent Niagara version numbers.

April 5, 2021

Corrected the supported relational databases table.

Related documentation

Additional information about Niagara platforms, installation and operation Workbench is available in the following documents.

- Niagara Platform Guide
- Getting Started with Niagara

Chapter 1. Important information

The topics in this section include a short quick start task as well as hardware, licensing, and operating system requirements for installation. Refer to the Niagara Community Resource Center at https://docs.niagara-community.com for the latest versions of the following information.

Before initiating a Niagara installation, verify that you can meet all hardware and software requirements described in this section.

Quick Start

This is a quick summary of installation; see the following sections for more detailed information.

Prerequisites:

Your PC meets the PC requirements.

Step 1. Download the latest build.

- Step 2. Run the appropriate Installer (Installer_x32.exe or Installer_x64.exe) and follow the installation wizard steps to define the requested information, such as:
 - Installation location.
 - Installation options including the installation of start menu and desktop shortcuts and tiles.
 - Finish installation options, including whether to launch Workbench after installation and load the start platform daemon.
- Step 3. Launch Workbench and confirm your license.

PC requirements

The Niagara Framework® requires an adequate processor, hard disk, memory and speed to run complex building models.

Niagara 4 Supervisors may run acceptably on lower-rated platforms or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, trend collection rate, number of concurrent users, performance expectations, etc. The minimum hardware requirements include:

- Processor: Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors
- Operating System: Windows 11 and 10 Pro x64-bit; Windows Server 2022 and 2019; Linux x64-bit: RedHat Enterprise Linux 8.7, Ubuntu 22.04
- Browser: Chrome, Firefox, Microsoft Edge
- Mobile Browser: Safari on iOS, Chrome on Android Relational Database (optional): MS SQL Server 2019, 2016; Oracle 19c; MySQL 8.0.
- Memory: 6 GB minimum, 8 GB or more recommended for larger systems
- Hard drive space: 4 GB minimum, more recommended depending on archiving requirements.
- Display: Video card and monitor capable of displaying 1024 x 768 pixel resolution, 1080p (1920 x 1080) minimum resolution recommended.
- Ethernet 100 Mbit or 1Gbit NIC (network interface card) with TCP/IP support
- Network Support: Ethernet adapter (10/100/1000 Mb with RJ-45 connector).
- Container Engine (for Containerized Supervisors): Docker.
- Valid license
- Internet access for confirming your license.

As a multi-threading Java application, the Niagara Framework® can take advantage of the added power available in multi-core processors. A processor that goes beyond minimum requirements, such as the current Intel Core i3, i5, i7 or AMD A6, A8, A10 series processors, can provide performance benefits.

Supported operating systems

The Niagara Framework® supports "Professional", "Enterprise", and "Ultimate" level operating systems (OS) as shown in the following tables.

Niagara 4.14 - 4.15: supported operating systems

Refer to the Niagara Community Resource Center at https://docs.niagara-community.com for the latest versions of the following information.

Operating Systems	Niagara 4.14	Niagara 4.15
Red Hat Enterprise Linux 8.x 64-bit	Yes	Yes
Red Hat Enterprise Linux 8.7	Yes (Supervisor only)	Yes
Red Hat Enterprise Linux 9.x 64-bit		Yes
Ubuntu Desktop & Server 20.04 LTS	Yes	Yes
Ubuntu Desktop & Server 22.04 LTS	Yes	Yes
Ubuntu Desktop & Server 24.04 LTS		Yes
Windows Server 2016	Yes	Yes
Windows Server 2019	Yes	Yes
Windows Server 2022	Yes	Yes
Window Server 2025		Yes
Windows 10 (64-bit)	Yes	Yes
Windows 11 (64-bit)	Yes	Yes

NOTE: To install Niagara on a Windows host, you must be logged in to Windows as a user with administrator privileges.

Java installation and disabling an earlier Java plugin

The Java SE Runtime Environment (JRE) 8 (1.8.0.241.0.1) must be installed on any client PC that will access the station with a browser and Workbench web profile.

Prerequisites:

You downloaded and installed the latest JRE 8.

The free download is available at: java.com/en/. After installing JRE 8, ensure that the Java plugin for any earlier versions is disabled:

Step 1. Under the Windows Start menu, click All Programs > Java > Configure Java > View.

NOTE: If the View button appears disabled, then only one JRE version is installed. Clicking Java > About Java (under the Windows Start menu) shows installed version(s).

Step 2. Confirm that only the JRE 1.8 plugin is enabled, as shown here. For any version other than 1.8, click the check box in the **Enabled** column to deselect.

📙 Java								
📥 A	bout Java	n						
💪 C	heck For l	Jpdates						
💪 <u>C</u>	onfigure 3	lava						
🍰 G	et Help	75						
📥 Vi	🛃 Java	a Control Pane	I					
	-	l Update Java	- K	Advanced				
< B≀	Genera	i opdate son	- security	Advanced			1	
Search	View	and manage Jav	a Runtime ve	rsions and setting	is for Java appl	cations an	d applets.	
Search							/iew	
							//ew	
Start							6	
		🦸 Java Punt	ime Enviror	nment Settings				×
		Sava Kullt	inte chviroi	intent securys				
		User Syst	1					
								<u></u>
		Platform	Product	Location	Path		Runtime Parameters	Enabled
		1.8	1.8.0_25	http://java.s	C:\Program File			
		1.7	1.7.0_55	http://java.s	C:\Program File	es\Java		
						Find	Add	Remove
								the first fi
								1
							OK	Cancel

Supported web browsers

Use a late version HTML5-capable web browser, such as those shown in the following tables.

Niagara 4.14 - 4.15: supported web browsers

Refer to the Niagara Community Resource Center at *https://docs.niagara-community.com* for the latest versions of the following information.

Web browser	Niagara 4.14	Niagara 4.15
Google Chrome (mobile, tablet, desktop)	Yes (v125)	Yes
Mozilla Firefox	Yes (v126)	Yes
Microsoft Edge	Yes (v125)	Yes
Safari on iOS (mobile, tablet)	Yes (v15)	Yes
Niagara Web Launcher	Yes	Yes
Chrome on Android (v85)	Yes	Yes

NOTE: The following browsers do not support the WbApplet (Wb Web Profile):

- Google Chrome version 45 and higher
- Microsoft Edge
- Firefox version 42 and higher
- Opera

Supported relational database software

The following tables list third party relational database servers which can integrate with specific releases of Niagara 4.

Niagara 4.14 - 4.15: supported relational database software

Refer to the Niagara Community Resource Center at *https://docs.niagara-community.com* for the latest versions of the following information.

Relational database servers	Niagara 4.14	Niagara 4.15
MySQL Server 8.0 (mysql-connector-java-8.0.24)	Yes	Yes
MySQL Server 8.4 (mysql-connector-java-8.0.24)		Yes
MySQL Server 9.0 (mysql-connector-java-8.0.24)		Yes
MS SQL Server 2016 (13.0)	Yes	Yes
MS SQL Server 2017 (14.0)	Yes	Yes
MS SQL Server 2019 (15.0)	Yes	Yes
MS SQL Server 2022 (16.0)		Yes

NOTE: Oracle 12g is not supported. MySQL 8.0 and MySQL 5.7 are both tested with connector version: 8.0.13. Connector 5.1.46 works with MySQL 5.7.

License requirement

You can install Niagara 4 on any PC with a supported Windows operating system. However, to successfully start Workbenchapplication framework, you must have a license file installed.

You only have to license the application on your computer once, typically soon after you finish installation by starting Workbench.

Your product purchase creates an "unbound" license on the online licensing server. The server may email you a corresponding license key—a unique string that corresponds to your license.

32-bit vs. 64-bit installations

For earlier versions of Niagara, a number of factors can determine which type of installation is required. These restrictions do not apply to latest versions of Niagara, which require 64-bit PCs and Niagara 64-bit software.

Newer PCs run a 64-bit Windows operating system. On these computers, the Niagara 4 64-bit install provides certain advantages. Most notably, the 64-bit Java VM (Virtual Machine) does not have a 2 GB memory limit. Coupled with a typical configuration that has 4 GB or more of RAM installed in the host PC, this allows a Supervisor host to run more effectively in a large installation. Depending on the PC host hardware, a 64-bit OS may provide other performance benefits.

However, in the following cases, it may be more effective to install the 32-bit version on a 64-bit Windows PC:

• When installing earlier version of Niagara on an engineering workstation that is licensed to run stations engineered for a Lonworks network (LonNetwork component) with the eventual intention of installing on a remote controller.

The term "engineering workstation" refers to an installation on a PC, which is used to commission controller hardware and perform application engineering on both offline and online stations. In some cases the "engineering workstation" may also be licensed to run a station to facilitate application development and testing.

CAUTION: Although this configuration may work for some installations, be aware that the LON FTT-10 USB adapter is NOT supported. Consequently, results are not guaranteed. Use of the non-supported LON FTT-10 USB adapter is done at your own risk.

• When your Supervisor contains limited RAM (less than 4 GB). In this configuration, shorter 32-bit memory pointers could be advantageous. A station running in a 64-bit VM requires more memory than the exact same station running in a 32-bit VM.

NOTE: If you install a 32-bit Niagara 4 version on a 64-bit Windows OS, you could cause licensing confusion if you later install a 64-bit version on the same host.

If you attempt to install the 64-bit Niagara 4 version by selecting Installer_x64.exe on a 32-bit Windows OS, the Installer window displays an error, which alerts you that it is not a valid Win32 application.

Determining installation version (32-bit or 64-bit)

You can determine which version of Niagara 4 installation is on a PC using either of the following methods. This procedure is not required for the installation of 64-bit Niagara version, which require a 64-bit PC.

• Make a platform connection to your local machine and look at the **Platform Administration** view. Check the JVM information, which indicates either: win-x86 for a 32-bit installation or win-x64 for a 64-bit installation, as shown here:

Platform Administration		
View Details	Baja Version	Tridium 4.0.8
y nun secuns	Daemon Version	4.0.0
🔍 Update Authentication	System Home	C:\niagara\Niagara-4.0.8
Change HTTP Port	User Home	C:\ProgramData\Niagara4.0
Data an an	Host	My Host:
Change SSL Settings	Daemon HTTP Port	3011
Ghange Date/Time	Daemon HTTPS Port	5011
Change Output Settings	Host ID	Nov-7538-8307-C782-7850
	Model	Workstation
View Daemon Output	Local Date	14-Jan-15
Configure Runtime Profiles	Local Time	14:30 Eastern Standard Time
) Backup	Local Time Zone	America/New_York (-5/-4)
Баскир	Operating System	Windows 7 Service Pack 1 (6.1)
Commissioning	Niagara Runtime	nre-core-win-x86 (4.0.8)
C Reboot	Architecture	x86
	Enabled Runtime Profile	s rt,se,ux,wb
	Java Virtual Machine	oracle-jre-win-x86 Oracle Corporation 1.8.0.25
	Niagara Stations Enabled	enabled 👻
4		

• Make a station (Fox) connection, look at the Java Version property in the Station Summary view on the top level Station node, or else the Java VM Name property in the Platform Service Container Plugin view (default view of the PlatformServices container). Only 64-bit installations show Java Hotspot(TM) 64-Bit Server VM. Whereas 32-bit installations show Java Hotspot(TM) Server VM.

Chapter 2. Installation

The Installation wizard installs both Niagara Framework® and Workbench on a Supervisor or engineering workstation.

Launch the installation program by running one of the Installer files located in the files extracted from a downloaded software zip file (or possibly in an installation CD).

NOTE: Installation files can vary from one vendor (org) to another, consequently some installation items or dialog options mentioned in this document may not appear. Conversely, some files may include additional installation items or options that are not covered in this document. As needed, consult the technical support resource for your brand and sales channel.

Niagara 4 promotes security by storing system files and user files in separate home folders. The daemon home folder defaults to ProgramDataNiagara4.<n><brand> (where <n> is the software version and <brand> is your product name). In Niagara, you can change the location of the daemon home. Look for this option when running the Installation wizard.

The system writes the new location to the registry at HKEY_CLASSES_ROOT\Applications\wb.exe\ installations along side the other install (latest/N4latest) registry keys it maintains. If this registry key exists, the Windows NRE uses the location specified. If the key does not exist, the installation uses the default: ProgramData\Niagara4.<n><brand> (where <n> is the software version and <brand> is your product name).

Close other applications before you run one of the Installer files.

Related concepts

• Silent Installer

Downloading the latest build

Unless you have a copy on physical media, first download the latest build from Niagara Community. This topic explains the importance of extracting the files from the download before running the installer program.

- Step 1. If you do not already have a copy, download the latest software zip file from Niagara Community.
- Step 2. Extract (unzip) its contents to a local folder.

NOTE: You must extract (unzip) the zip file to a local folder before starting the install, and use the unzipped files for the installation. Although Windows allows you to see the contents of a compressed zip file and even to launch an executable without extracting files, an attempt to install the software this way will fail.

Installation

Result

Figure	1.	Installation	files	extracted	from	downloaded zip
--------	----	--------------	-------	-----------	------	----------------

鷆 dev	1/6/2015 4:26 PM	File folder	
鷆 dist	1/6/2015 4:26 PM	File folder	
鷆 docs	1/6/2015 4:26 PM	File folder	
鷆 install-data	1/6/2015 4:26 PM	File folder	
鷆 modules	1/6/2015 4:29 PM	File folder	
鷆 overlay	1/6/2015 4:26 PM	File folder	
🔊 install.html	1/6/2015 9:30 AM	HTML Docu	4 KB
🤧 Installer_x64.exe	1/6/2015 9:30 AM	Application	437 KB
🤧 Installer_x86.exe	1/6/2015 9:30 AM	Application	407 KB
logo.png	1/6/2015 9:30 AM	PNG File	30 KB
🗿 style.css	1/6/2015 9:30 AM	Cascading	3 KB
🙀 Uninstaller_x64.exe	1/6/2015 9:30 AM	Application	325 KB
🙀 Uninstaller_x86.exe	1/6/2015 9:30 AM	Application	302 KB

Running the installation program

The installation program provides sections that step through necessary install options.

The installation program windows have **Next** and **Back** control buttons. Click **Next** to advance to the next step. Click **Back** to return to a previous window to review or make a change.

NOTE: A best practice for installing an upgrade build to any Niagara version is to clear your browser cache prior to installation. This removes any cached web resources that have changed since the previous installation or upgrade.

 In the folder containing the extracted software zip file, right-click on the appropriate Installer file for your system, 64-bit (required for latest Niagara versions) or 32-bit or 64-bit (for earlier Niagara versions), then select Run as administrator.

NOTE: On launching the Installer, if you receive an error message stating that the software is not supported on the current operating system, it may be due to a file property setting. Check the Installer file properties Compatibility tab to be sure the option to Run In Compatibility Mode is not selected. If it is, deselect it and run the Installer again.

When launched, the installation program opens to the Welcome window.

- Step 2. On the Welcome window, click Next to continue.
- Step 3. On the License Agreement window, click Yes to accept the terms and then click Next to continue.

Selecting the installation location

This procedure describes selecting the location for the installation. The program provides the default location which you can change if you wish. It also provides options to use this instance of Workbench as an installation tool and to install PDF versions of all documentation.

Niagara 4 Installation F	Program	×
Niagara	Framework®	
	Destination Folder C:\Niagara\Niagara-4.0.22.2 Default Browse	
	Space Required 613300 K Space Available 261906720 K Refresh	
	This instance of Workbench will be used as an installatio (481458 K)	n tool
	Install Documentation (146 K)	
	< <u>B</u> ack Next >	Cancel

Step 1. In the installation window, accept the default destination folder or if desired, click **Browse** to navigate to a different folder.

The default location is C:\niagara\niagara-4.x.<nnn> (where <nnn> is the build number). If needed, you can directly edit the folder path (for example, changing the drive from C: to D:), or click Browse and navigate to another folder.

NOTE: If you change the default destination folder, you can click the **Refresh** button to recalculate the **Space Required** and **Space Available** values.

Step 2. Accept or deselect, as needed, the two options that are selected by default:

• This instance of Workbench will be used as an installation tool — Typically, you leave this selected.

This option installs additional files that allow the installation to be used to commission controllers. Always select this option for any Supervisor host. This option installs the distribution (dist) files in the appropriate folders under the Niagara 4 version (software) folder. Using a platform connection, these files allow you to commission, or provision, a remote host to the same revision and build level as this Niagara installation.

• Install Documentation — Installing this documentation requires additional disk storage. It is not required for any functions, but it is recommended for reference information.

This option installs PDF versions of the help files, hardware installation guides, and other manuals, which are available as PDFs, in the ! docs folder.

NOTE: These are the same PDFs that are in the ! docs folder of the zipped distribution file (or CD).

Step 3. Click Next to proceed.

Selecting the Daemon User Home location

This procedure describes selecting the location for the daemon user home folder. In Niagara, the program provides the default location which you can change if you wish.

Niagara 4 Installation Pro	gram
Niagara F	Framework®
	Niagara Daemon User Home Folder C:\ProgramData\Niagara4.4\tridium Default Browse The Niagara Daemon User Home is the location of the Niagara Daemon's user data and running Niagara Stations. .
	< Back Next > Cancel

Step 1. In the Niagara 4 Installation Program window, accept the default daemon user home folder (ProgramData\Niagara4 <n>\<brand>, where <n> is the software version and <brand> is your product name), or you can indicate another location. If needed, you can directly edit the folder path (for example, changing the drive from C: to D:), or click **Browse** to navigate to a different location.

CAUTION: The Daemon User Home and the Workbench User Home are intended to be installed in distinctly separate locations. This separation of homes is for security reasons but it also prevents certain unintended results. For example, when the two homes are installed in the same location the **Station Copier** becomes unavailable, and you will not be able to make a portable copy of the station.

Step 2. Click Next button to proceed.

Setting the system passphrase

If you are performing a new installation, the program prompts you to set a system passphrase for encryption purposes, as shown in the following image. Once the installation program sets the system passphrase, this step does not present again upon subsequent Niagara 4 installations.

NOTE: It is important to remember the system passphrase and keep it safe. If you lose the system passphrase, you will lose access to encrypted data.

The system passphrase is used to protect sensitive information stored on all Niagara systems, and on the memory card in JACE-8000 and JACE-9000 controllers. The system passphrase is assigned as the file passphrase for "portable" files, such as backups and station copies, and is used to encrypt those files. During operations in which you transfer encrypted files to a system (restoring backups, transferring a station, etc.) you are prompted to supply the file passphrase if it doesn't match the system passphrase. The system passphrase defaults to the factory default platform password. During commissioning, you will be prompted to change the default system passphrase. You must remember the system password and keep it safe. If you lose the system passphrase, you will lose access to encrypted data. To change the system passphrase, use the Platform Administration tool. For more detailed information, see "System passphrase" in the *Niagara Platform Guide*.

Niagara 4 Installation P	rogram	×
Niagara	Framework®	
	Set the passphrase used to encrypt sensitive information on the filesystem: Passphrase Confirm Passphrase	
	< <u>B</u> ack <u>N</u> ext > Can	cel

NOTE: Once the installation program sets the system passphrase, this step will not be presented again upon subsequent Niagara 4 installations.

Step 1. In the **Passphrase** property, enter the passphrase and then repeat the entry in the **Confirm Passphrase** property.

NOTE: A strong passphrase is required. Use 10 or more characters and include at least one of each of the following: uppercase, lowercase, and numeric.

- Step 2. Write down the passphrase you created. NOTE: It is important to remember the system passphrase and keep it safe. If you lose the system passphrase, you will lose access to encrypted data.
- Step 3. Click Next to continue.

Selecting install options

The options available to you differ based on the version of Windows installed on your PC or laptop.

Figure 2. Select options window

Niagara 4 Installation P	rogram	×
Niagara	Framework®	
	☑ Install Start Menu Shortcuts ☐ Install Desktop Shortcuts	
	< <u>B</u> ack Next > Can	cel

If using Windows 7, your shortcut options are:

• Install Start Menu Shortcuts.

This option is selected by default. This option creates a folder (group) of shortcuts in the Windows Start Menu.

• Install Desktop Shortcuts

This option is selected by default. This option creates a number of icon-based shortcuts on the Windows desktop.

If you are using Windows 8 or Windows Server 2012, your shortcut options are:

• Install Start Screen Tiles

This option creates tiles that appear on the Apps screen. The group of tiles is labeled, for example, Niagara4 4.1.13.0.

Install Desktop Shortcuts

This option creates icon-based shortcuts to launch Workbench from the desktop.

Accept default settings or deselect and click **Next** to continue.

Finishing install options

The final window appears after the installation of all files. The options allow you to launch Workbench immediately, install and start the platform daemon, and copy daemon data from the prior release.

Figure 3. Finish install window

Niagara 4 Installation P	rogram	×
Niagara	Framework®	
	Niagara installation is complete! Would you like to? Install and Workbench Install and Start Platform Daemon Copy Daemon Data From Prior Version	
	< Back Finish Cano	cel

• Launch Workbench.

This option is selected by default, and recommended.

• Install and Start Platform Daemon.

This option is selected by default. Any Supervisor installation, or engineering workstation PC that is licensed to run a local station requires that you start the platform daemon.

Installing the platform daemon automatically stops and replaces any other running platform daemon with the platform daemon from this release. Also, at any time you can install and start the platform daemon from any installed Niagara build, using the **Start** menu shortcut: **Install Platform Daemon**.

The platform daemon runs as a Windows service. To verify that it is running, from a command prompt, type: services.msc and press Enter. In the Services window, double-click on the Niagara named service to see details, such as the software release and build number.

Copy Daemon Data From Prior Version

This option is selected by default when the installer detects daemon data in an earlier version. When selected, the installer copies from the earlier version the stations, templates, and other files needed for the stations to run.

NOTE: In Niagara, if the installer detects that there is an existing daemon home for the version being installed, then this option is not available. This is to avoid overwriting a daemon home with an older version when re-installing software or upgrading a newer version.

For example, if you have existing Niagara 4.10 and Niagara 4.11 daemon homes, you install a newer version of Niagara 4.11, and, if this option was selected, the installer would copy files from the Niagara 4.10 daemon home to the existing Niagara 4.11 daemon home, overwriting more recent files. This is, most likely, an unwanted outcome.

Click Finish to close the window and execute the selected options.

License confirmation

If you choose to launch Workbench immediately and click **Finish** to exit the installation wizard, a license check routine occurs. You may briefly see a **Check License** popup window, and possibly a **License Installed** window.

- License Installed indicates that Niagara has successfully found a matching (bound) license for your Windows host on the licensing server, and installed it. When you click Continue, Workbench should continue to open after another possible popup window (Platform Daemon Restart Required click Continue).
- If, instead, the License Request form appears in the browser, enter the License Key string you received for this installation, along with other information requested on the form. After submitting this form the licensing server should finalize (bind) your license and make it available for download, and also email it to you. If Workbench successfully confirms the license online, you can restart it after receiving the email.

Workbench is now ready for use (without further license checks) on your host, for the duration of your license.

Depending on which popup displays do the following:

• If the License Installed popup displays (shown below), click Continue, Workbench should continue to open after another possible popup window (Platform Daemon Restart Required - click Continue).



• If the License Request form appears in the browser (shown below), enter the License Key string you received for this installation, along with other information requested on the form. After submitting this form the licensing server should finalize (bind) your license and make it available for download, and also email it to you. If Workbench successfully confirms the license online, restart the program after receiving the email.

Bind License NiagaraCen ×		
← → C 🗋 axlicensing	g.tridium.com/license/request?params=YnJhbmũ1 Q 🖧	≡
niagar	Sing	Î
Request/Bind Licens	e	
License Details		
Host Id ^e	100-1001-0000-FC20-0400	
License Key	:	
Requester Details		
Name*	:	=
Company	:	
E-mail*	:	
Canicol	Submit	
		•

Result

Workbench is now ready for use (without further license checks) on your host, for the duration of your license.

Performing a "clean" installation

This procedure describes steps to perform a "clean" installation for a subsequent build (other than a first time installation), which means that no files and folders from a previous installation are persisted.

Prerequisites:

• Stop the Niagara service in the Windows Services maintenance console.

The files and folders in your Workbench user home and in the platform daemon user home persist, so that all configuration data stored there is used by each new Niagara 4 build that you install. However, for troubleshooting or testing purposes you may prefer to start fresh rather than continue to use any of the files or folders from the existing installation. If that is the case, you can move or rename your existing Workbench user uome and platform daemon user home folders so that new ones are created by the installer.

- Step 1. Navigate to your niagara_user_home location (C:\Users\userName\Niagara4.x\<brand>) and rename the Niagara4.x folder.
 For example, change the folder name to niagara4.x myBackup.
- Step 2. Navigate to the platform daemon user home for the localhost (C:\ProgramData\ Niagara4.x\<brand>) and rename the Niagara4.x folder. For example, change the folder name to niagara4.x daemonBackup.
- Step 3. Run the installation wizard to install another build.

During the installation, the installer creates new Niagara4.x folders in both of those locations.

Uninstalling

During the Niagara installation, the appropriate Uninstall executable is copied to the !bin subfolder, and renamed to uninstall.exe. The installed Start menu Uninstall shortcut points to this executable.

Running the Uninstaller removes only the installation runtime files and folders in the niagara_home location (C:\Niagara\Niagara-4.11.xx.xx). The files and folders located in your niagara_user home (C:\Users\ userName\Niagara4.x\<brand>) and in the platform daemon user home (C:\ProgramData\ Niagara4.x\<brand>) are left untouched.

- Step 1. Under the Windows Start menu, click **All Programs** and scroll to the Niagara build you wish to uninstall.
- Step 2. Click Niagara build > Uninstall. The Uninstall Program wizard opens.
- Step 3. Confirm that the wizard lists the correct build and click Next. The wizard notifies you as it immediately begins uninstalling.

Result

On completion, the wizard notifies you that the uninstallation is complete.

Chapter 3. Silent Installer

As of Niagara 4.13, Silent Installer allows for an automated and unattended installation of Niagara Framework via programming.

It simplifies PC maintenance, automated testing, and bundling installations with additional applications. Running the Niagara installer for Windows or Linux does not require user input. The properties file allows you to generate installation choices prior to execution using the command line.

NOTE: You can find the silent.properties file in your installation file. For example, Windows images should include the silent.properties file under the /overlay/... folder since the Windows installer expects the file in that location.

The Linux images should include the silent.properties file in the root folder along with the install.sh and install common.sh files since the Linux installer expects the file in that location.

Editing silent.properties file

In the silent.properties file, you have the following configuration options (presented in four sections) for the silent installation. It runs a windowless installation and no user input is required.

Prerequisites:

• You have administrator rights to run Installer_x64.exe.

NOTE:

- As a quick overview, in the silent.properties file, you will set the passphrase and installDirectory.
- You can uninstall the previous standard version using its uninstall.exe file or with the help of the Windows control panel. The silent.properties file allows you to configure the installation directory. If you do not change the default configuration settings, the installation will result in a new directory with the applicable Niagara version number. As a consequence, it will not overwrite any existing installation. If you run the Silent Installer a second time on the same device, it will overwrite files.

Step 1. No editing needed in following section of the silent.properties file.

NOTE:

By default, the silent.properties file can be set to silentInstall=false because the Windows installer automatically attempts to use the silent.properties file.

Configure options for silent installation. # This will run a windowless installation. No user input is expected.

Set "silentInstall" to "true" to enable the installation without any user prompts. silentInstall=false silentInstallMessage=Proceed with silent installation.

The license agreement acceptance is provided by the following "acceptLicense" property.
Any value except "yes" will cause the installer to exit.
acceptLicense=yes
Setting "showLicense" to "yes" will print out the entire license agreement to the installation console.
showLicense=no
licenseAgreementAccept=Acceptance of the license agreement is assumed when installing silently.
licenseAgreementDecline=License agreement was not accepted.

Step 2. Edit the passphrase in the following section of the silent.properties file if the system

passphrase value has not been previously configured on the host.

The system passphrase value here is used only if one does not already exist on the install target host ID.
Your passphrase must contain:
at least 10 characters
at least 1 lower case character
at least 1 upper case character
at least 1 digit
systemPassphrase=Password10
systemPassphraseFailureMessage=Error setting System Passphrase caused installation failure.

Step 3. Edit installDirectory in the following section of the silent.properties file.

Set the "installDirectory" to a Windows path to override the default installation directory.
Example: installDirectory=C:\Niagara\Niagara-%version%
installDirectory=
installDirectoryNotEnoughSpaceMessage=Insufficient space is available to complete installation.

Step 4. Review the following section of the silent.properties file.

Set "createInstallDirectory" to "true" to create the install directory if it does not exist. createInstallDirectory=true createInstallDirectoryDeclineMessage=Creating the install directory was rejected in the configuration. distFileSizeMessage=Dist file space required

Set "installService" to "true" to install the Niagara daemon as a service. installService=true

Set "installDesktopShortcuts" to "true" to install Windows desktop shortcuts. installDesktopShortcuts=false

Set "installMenuShortcuts" to "true" to install the Windows Start menu shortcuts. installMenuShortcuts=true installStepCompleteMessage=Completed installation step installFailureMessage=Installation failed.

Running the unattended installer

The following section describes how to execute the Silent Installer.

Prerequisites:

- You have edited the silent.properties file.
- You have administrator rights to run Installer_x64.exe.
 - Step 1. Expand Niagara 4.13 (or higher) > overlay, copy the edited silent.properties file in the etc folder, and keep all existing default settings.



- Step 2. Choose one of the following options:
 - In the program folder, double-click the Installer_x64.exe file.

Name	Date modified	Туре
📜 dev	7/10/2023 11:03 AM	File folder
📙 dist	7/10/2023 11:03 AM	File folder
🦲 docs	7/10/2023 11:02 AM	File folder
📕 install-data	7/10/2023 11:02 AM	File folder
📙 modules	7/10/2023 11:02 AM	File folder
overlay	7/10/2023 11:02 AM	File folder
😼 Installer_x64.exe	3/28/2022 11:05 AM	Application
🔀 Uninstaller_x64.exe	3/28/2022 11:05 AM	Application

• Open a command prompt as administrator, change directory, and use the start command (start Installer_x64.exe) to execute the installation.

Wait a few minutes, go to the **Start** menu and verify if the new entry for the Niagara software has been added. You can watch this step being performed in the Task Manager.

Step 3. When the new Niagara software has been added to the **Start** menu, click Workbench and ensure that Workbench launches and runs successfully.

Figure 4. Windows

C:\Users\myname\Downloads\Niagara_4.13>start	Installer_x64.exe	
C:\Users\myname\Downloads\Niagara_4.13>		

There is no output via logging or debugging console.

Viewing the installation process

You can follow the installation process via Task Manager watching the Terminal Application from which you launch the Silent Installer.

You will see the installation file execute within the following:

- Niagara Framework Installer
- Niagara Runtime Launcher
- Niagara Platform command line tools.

Figure 5. Windows Task Manager- default

Processes Performance App	history Startup	Details Servi						
^			7%	44%	0%	0%	2%	
Vame		Status	CPU	Memory	Disk	Network	GPU	GPU engine
Apps (7)								
Microsoft Edge (29)			0.2%	699.8 MB	0 MB/s	0.1 Mbps	0%	GPU 0 - 3D
Microsoft Outlook			0%	120.4 MB	0.1 MB/s	0.1 Mbps	0%	
Microsoft Teams (8)			0%	544.4 MB	0 MB/s	0 Mbps	0%	GPU 0 - 3D
🛛 🙀 Task Manager			1.0%	49.3 MB	0 MB/s	0 Mbps	0%	
🖌 🔽 Terminal (4)			0.1%	30.1 MB	0 MB/s	0 Mbps	0%	GPU 0 - 3D
Administrator: Comm	nand Prompt		0.1%	26.7 MB	0 MB/s	0 Mbps	0%	
OpenConsole.exe			0%	1.5 MB	0 MB/s	0 Mbps	0%	
Runtime Broker			0%	1.1 MB	0 MB/s	0 Mbps	0%	
Windows Command	Processor		0%	0.8 MB	0 MB/s	0 Mbps	0%	
unattended installer.pp	otx - PowerPoint		0%	314.5 MB	0 MB/s	0.1 Mbps	0%	
Windows Explorer (5)			0.1%	113.1 MB	0 MB/s	0 Mbps	0%	
Background processes	(205)							
5			0.1%	749.7 MB	0.1 MB/s	0 Mbps	1.2%	GPU 0 - 3D

March 12, 2025

Figure 6. Windows Task Manager — install process stages

	✓ ► Terminal (4)	0%	14.2 MB	0 MB/s	0 Mbps	0%	GPU 0 - 3D
	📧 Administrator: Command Prompt	0%	12.3 MB	0 MB/s	0 Mbps	0%	
	OpenConsole.exe	0%	0.8 MB	0 MB/s	0 Mbps	0%	
	📧 Runtime Broker	0%	0.5 MB	0 MB/s	0 Mbps	0%	
	Windows Command Processor	0%	0.6 MB	0 MB/s	0 Mbps	0%	
	V 🔽 Terminal (5)	6.5%	17.8 MB	88.4 MB/s	0 Mbps	0.1%	GPU 0 - 3D
⊂	Administrator: Command Prompt	0%	13.3 MB	0 MB/s	0 Mbps	0.1%	GPU 0 - 3D
80	🚚 Niagara Framework Installer	6.5%	2.7 MB	88.4 MB/s	0 Mbps	0%	
Stag	on OpenConsole.exe	0%	0.8 MB	0 MB/s	0 Mbps	0%	
St	Runtime Broker	0%	0.5 MB	0 MB/s	0 Mbps	0%	
	Windows Command Processor	0%	0.6 MB	0 MB/s	0 Mbps	0%	
	✓ 🔽 Terminal (7)	5.7%	80.9 MB	293.6 MB/s	0 Mbps	0.3%	GPU 0 - 3D
	Administrator: Command Prompt	0%	13.6 MB	0 MB/s	0 Mbps	0.3%	GPU 0 - 3D
5	Console Window Host	0%	5.7 MB	0 MB/s	0 Mbps	0%	
	Niagara Framework Installer	2.3%	3.2 MB	293.6 MB/s	0 Mbps	0%	
Stage	Niagara Runtime Launcher	3.4%	56.6 MB	0 MB/s	0 Mbps	0%	
St	OpenConsole.exe	0%	0.8 MB	0 MB/s	0 Mbps	0%	
	Runtime Broker	0%	0.5 MB	0 MB/s	0 Mbps	0%	
	🛤 Windows Command Processor	0%	0.6 MB	0 MB/s	0 Mbps	0%	
	V 5 Terminal (6)	0%	21.4 MB	0 MB/s	0 Mbps	0.1%	GPU 0 - 3D
m	Administrator: Command Prompt	0%	13.3 MB	0 MB/s	0 Mbps		GPU 0 - 3D
e B	Console Window Host	0%	5.7 MB	0 MB/s	0 Mbps	0%	_
Stage	Niagara Platform Command Line Tools	0%	0.5 MB	0 MB/s	0 Mbps	0%	
Š	OpenConsole.exe	0%	0.8 MB	0 MB/s	0 Mbps	0%	
	Runtime Broker	0%	0.5 MB	0 MB/s	0 Mbps	0%	
	Windows Command Processor	0%	0.6 MB	0 MB/s	0 Mbps	0%	

Chapter 4. Getting started in Workbench

Technical documents are available in the !docs folder as PDFs. Also, to view online help, open a the Help window and explore the Table of Contents.

Desktop shortcuts and tiles

Start Menu and desktop shortcuts for Windows provide access to Workbench from the Windows desktop.

The installer sets up shortcuts or tiles for the following applications:

 Alarm Portal 4.0.<nnn> (where <nnn> is the build) is a way to start Workbench using an alarm profile. This mode limits most menu options to the support of the Alarm Portal view, which you can configure to monitor and acknowledge alarms from different stations. Alternatively, you can access the same view in the standard Workbench interface, via the Tools > Alarm Portal selection. For more details, refer to *Niagara Alarms Guide*.

• Console

This shortcut opens a blue Windows command prompt window with the path set appropriately for command line utilities.

NOTE: One command that may be useful is: nre -hostid. In cases where Workbench refuses to start, use this command to retrieve the Host ID of your Windows PC.

You can also open a console within Workbench, by choosing **Window** > **Console**. The console area then appears at the bottom of the window.

Install Platform Daemon

This shortcut installs and starts the platform daemon for this release and build of Niagara. The platform daemon is a server process that allows automatic station restart in case of reboot or failure, as well as remote platform management. To host a local station on this platform, you must install and start the platform daemon. If another platform daemon instance is running, **Install Platform Daemon** stops the running daemon and overwrites it with this daemon. For related details, see the *Niagara Platform Guide*.

• Workbench (Console)

This shortcut launches Workbench with a separate, associated Console (black) window, which can be helpful in troubleshooting. This is similar to opening a **Console** (blue) window and entering the command: **wb**. Either console provides client debug messages, similar to the platform Application Director, which provides debug for the (server) station application. If a client side error occurs in Workbench, there should be some sort of stack trace debug in the **wb** console output.

NOTE: If you start Workbench this way, and then close the console window, the program also immediately closes. Any unsaved changes are lost. Be sure to save changes before closing the associated console window. Exiting Workbench from File > Exit forces options to be saved. It also prompts for any unsaved files in the session to be saved or discarded.

Workbench

This shortcut launches Workbench without an associated console window. If during installation you selected the option to start Workbench upon completion, the application uses this shortcut to start the program when it finishes the installation process.

• Uninstall

This shortcut removes this Niagara installation. It provides separate options to save station files and user files.

• Demo Station

This shortcut launches the standard demonstration station outside of normal platform daemon control. As a convenience, the station launches using the station.exe command in a console window.

If Workbench is running, you can connect to the station (Open station). To save any changes made and

stop the station, type **quit** in the **Demo Station** console window and press **Enter**. To stop without saving any changes, close the **Demo Station** console window.

NOTE: Using station.exe is not the recommended way to start a local station. It is a developer utility that allows quick access to station debug messages in the console window. While the station is running, the console window can also process a few entered commands (to see them, in the console window enter: **help**). The recommended way to start a production station is to open a platform connection and start the station from the **Application Director**. This allows configuration for auto-start and restart on failure.

File locations

During the Workbench installation and platform commissioning processes, the software differentiates between two types of files based upon the content of the files: *configuration* and *runtime* data. Files and folders that contain configuration data reside in separate locations from files and folders that contain runtime data. This separation enhances security by denying general access to the runtime files and allowing each user access to only their personal configuration files.

As a result of separating configuration and runtime data, the system supports multiple home directories on the Supervisor or engineering workstation. These homes may be identified as:

- The system home contains runtime files, such as core software modules, the JRE, and binary executables.
- Workbench user home for each user contains configuration data, including option files, and registries.
- A platform daemon user home for the Supervisor or engineering workstation contains platform configuration data.
- Two station homes called, protected station home and station home, are part of each user home.

Homes on a Supervisor

The following table provides a summary of the Supervisor or engineering workstation homes with shortcut information.

Home in the Workbench Nav tree	Home in the Platform Administration view	Niagara 4 alias	Windows folder location and contents	File ORD shortcut
My Host > My File System > Sys Home	System Home	niagara_home	C:\niagara\niagara-<4.x.xx> where <4.x.xx> is the software version contains executable and software files.	!(asin Niagara4.x)
My Host > My File System > User Home	N/A	niagara_user_home	C:\Users\ <username>\N4-<4.x.xx>\tridium where: <username> is your name to identify you as the user of your computer. <4.x.xx> is a software version. Workbench user home for each human user contains that user's unique configuration files.</username></username>	~ (unique to Niagara 4)
shared folder	N/A	station_home	C:\Users\ <username>\N4-<4.x>\tridium\shared where: <username> is your name to identify you as the user of your computer.</username></username>	∧(asin Niagara4.x)

Home in the Workbench Nav tree	Home in the Platform Administration view	Niagara 4 alias	Windows folder location and contents	File ORD shortcut
			<4.x.xx> is a software version.	
stations folder	N/A	protected_station_home	$\texttt{C:\ProgramData} \\ N4-<4.x> \\ tridium \\ \texttt{stations} \\ <\texttt{stationName} \\$	^^ (unique to Niagara 4)
N/A	User Home	niagara_user_home	C:\ProgramData\Niagara4.x\ <brand> Platform daemon user home (non-human user) holds platform daemon configuration files. Requires a local platform connection to view in the Platform Administration view.</brand>	~ (unique to Niagara 4)

Homes on a controller

On a controller there are two homes.

Home in the Platform Administration view	Home in the Platform Administration view	Niagara 4 alias	OFD location and contents	File ORD shortcut
Platform > Remote	System Home	niagara_home	/opt/niagara	!(as in Niagara4.x)
File System > Sys Home (Read Only)			Contains operating system data.	
Platform > Remote File System > User Home (Read Only)	User Home	niagara_user_homeYYYYY	/home/niagaraContains configuration data and the installed and running station.	~ (unique to Niagara 4)

Chapter 5. Frequently asked questions

Questions and answers cover subjects ranging from the Niagara 4 directory structure to general Framework subjects such as, installing individual modules and configuring your Windows firewall to allow for communication.

Niagara 4 FAQs

Questions and answers specifically about Niagara 4.

Q: Why does an installation have so many "homes"?

A: The multi-homed directory structure results in improved security. Because configuration data is separated from runtime data, users do not require full access permissions to the installation. This allows administrators flexibility in regulating access. For more details on the homes, refer to the *Niagara Platform Guide*.

Q: The new station that I just created does not show-up in the Application Director view. How am I supposed to start the station?

A: The **New Station** Wizard creates the station in your Workbench user_home. To start the station in the Application Director, you must first copy the station, using the platform **Station Copier**, to the platform daemon user_home .

NOTE: The final (Finish) step of the wizard includes several action-on-Finish options, one of which is: Copy station to secure platform for "localhost" on Finish. If selected, on finishing the wizard closes and the platform Station Copier appears.

Q: Why on my Supervisor PC am I required to make a local platform connection and the Station Copier to copy (transfer) a station to the daemon user home from my Workbench user home, when I could more easily just use Windows Explorer to copy and paste folders and files there?

A: Bypassing platform tools, even with "localhost" operations, increases security risks. In the example cited, if you simply copy and paste a station folder using Windows Explorer, client passwords in that station are left in a portable format. Whereas if you use the Station Copier, those passwords become encrypted with the unique keyring files for the opened platform.

Q: Will other Windows users with admin privileges who log on to the PC where the installation exists be able to see the Start menu shortcuts, installation folders, etc?

A: The shortcuts are visible only to the original installer. Other administrator-level users, logged on to the Windows PC, can make their own shortcuts to Workbench, etc., or simply navigate to the installation folders to start Workbench. The result is that the user gets their own unique Workbench niagara_user_home (C:\Windows\users\userName\Niagara 4.x, a separate location from that of the user who installed the framework.

Different Windows logons have different niagara_user_homes, which is by design, it protects any passwords you may be using. This also means that sharing backups (and other items) with other users requires some thought.

Q: Is it possible to use Workbench with an earlier release of Niagara installed on a controller?

A: No, you need to use a version of Workbench that is compatible with the software on the controller. However, a remote controller can be integrated in the Niagara 4 Supervisor's station, where you can discover points, schedules, and histories. Also if the Supervisoris configured for provisioning, it can do provisioning tasks on a remote controller. Refer to the *Niagara AX* to *N4 Migration Guide* for related details.

General FAQs

Questions and answers on the framework.

Q: From my engineering workstation, I need to support different jobs at different software release levels. Is there a recommended method to do this?

A: You can install different release levels on your workstation, and keep them separate by installing them in different locations. To run stations locally, remember to check which platform daemon is running at the time (from command prompt: services.msc and look at Niagara service). As needed, use the shortcut **Install Platform Daemon** to start the appropriate platform daemon.

Q: Is it possible to select which modules are installed?

A: By default, the installer installs all modules in your <code>!modules</code> folder. These include all the online versions of software documents, such as (*Getting Started with Niagara*) and so on, various lexicon modules, and all the software modules, including ones for drivers and other features.

NOTE: When you use Workbench to install software in remote hosts (typically JACE controllers), you do select which modules to install, among them all the software modules in your <code>!modules</code> folder, as well as other items in your software database (!sw folder).

Q: Does Niagara require changes to my Windows Firewall?

A: Most configurations work with the default ports. You would make changes to your firewall to run a station locally on a PC with other remote stations connected to it, or to allow a remote Workbench client to connect to the station and platform on this host.

Q: When installing Niagara on a Supervisor, is the software supposed to be installed with the "use as install tool" box checked? Is there any reason not to check this box?

A: This box is optional because the installation is 200MB bigger when it is selected. You need to have it checked if the Supervisor will be using provisioning to install software to subordinate controllers, or if you want to use Workbench from that computer to upgrade software on a controller.

Q: What is the difference between wb_w.exe and wb.exe?

A: Starting Workbench using wb.exe starts an associated console window that provides debug information for the client Workbench application in much the same way that the application director provides server-side debug information for the station. It is typical to start Workbench using wb.exe when trouble shooting client side issues.

Starting Workbench using wb_w.exe launches the program without a console window. You may prefer to use wb.exe because of the console. If Workbench freezes with a console open, you can quickly terminate the program by closing the console window.

Q: I've got different versions of Workbench installed. When is it really necessary to start the platform daemon?

A: You only need to start the platform daemon when you are planning to run a station locally. However, it does not hurt to get in the habit of loading the platform daemon for the current release each time you launch Workbench. Some customers use batch files for starting the platform daemon followed by starting the program. This simplifies things because you can just double-click the shortcut icon for the particular version and brand of Workbench you need. Customers share such solutions on Niagara Community.

Chapter 6. Glossary

The following glossary entries relate specifically to the topics that are included as part of this document. To find more glossary terms and definitions refer to glossaries in other individual documents.

Alphabetical listing

engineering workstation

An installation of Niagara on a PC, which is used to commission controller hardware and perform application engineering on both offline and online stations. In some cases the this workstation may also be licensed to run a station to facilitate application development and testing.