

iC Niagara Expansion Pack

User Manual

Quick Start-up



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1 Introduction

The iC Niagara Expansion Pack is a comprehensive file installer designed for Niagara Framework users who do not utilize iC Workbench, but use iSMA CONTROLLI products like MAC36 controllers, I/O modules, and others. This all-in-one installer includes the latest versions of all iC software products specifically tailored for the Niagara Framework, ensuring users have access to the most current and compatible tools for their projects.

This manual shows how to successfully install the iC Niagara Expansion Pack on the local PC.

The iC Niagara Expansion Pack includes the MAC36 support packs and iC modules. Please check the product's release notes for detailed information on included modules and versions in each expansion package.

1.1 Revision History

Date	Rev.	Description	
18 Jul 2024	1.0	First edition	
Table 1 Devision bistory			

Table 1. Revision history



2 System Requirements

The iC Niagara Expansion Pack requires the following environment for correct operation:

• a PC running a compatible version of the Niagara Framework (pre-installed, supported Niagara version on the PC is required);

For example, iC Niagara Expansion Pack 4.13.2 requires the Niagara Workbench 4.13.2 installed on the device.

- admin privileges for installation;
- at least 4 GB free disk space for iC software products and MAC36 support files.



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3 Installation Steps

To use the iC Niagara Expansion Pack, follow these steps:

- Step 1: Download the Installer
- Step 2: Setup Wizard
- Step 3: Files Review
- Step 4: Destination Folder
- Step 5: Installation
- Step 6: Summary
- Step 7: Using Modules in the Niagara Workbench

3.1 Step 1: Download the Installer

Download the iC Niagara Expansion Pack in the iC Connect tool.

In order for the installer to work properly, the user must have a compatible version of Niagara on the PC. The installer is issued for specific versions of Niagara and can be identified by the version number of the installer.

Example: The user has Vykon N4 Supervisor 4.10.7.x installed on the PC. Dedicated for this version of Niagara Workbench is iC Niagara Expansion Pack 4.10.7.x

3.2 Step 2: Setup Wizard

Open the wizard. The setup wizard is started. Once again, make sure that the version of the iC Niagara Expansion Pack is identical as the installed Niagara instance.

Make sure to close all other Niagara applications before continuing to ensure uninterrupted installation.

Click Next.

<image><image><image>

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3.3 Step 3: Files Review

The second window of the setup wizard allows to select files to install:

- MAC36PRO support pack;
- MAC36NL support pack;
- iC modules.

Software	Descrption
MAC36PRO support pack	Contains files required for a proper operation of the MAC36PRO controller with the new Niagara version, clean-dist and OS versions. Provides a list of clean-dist, Niagara Framework, and OS versions.
MAC36NL support pack	Contains files required for a proper operation of the MAC36NL controller with the new Niagara version, clean-dist and OS versions. Provides a list of clean-dist, Niagara Framework, and OS versions.
iC modules	Modules, services and graphic packages that extend the functionality of Niagara by iSMA CONTROLLI.

By default, all files are checked to be installed. Uncheck an element if it is not required to be installed. Click Next to continue.

Note: To ensure product compatibility, it is recommended to install all files supported by the installer.

iC Niagara Expansion Pack

The iC Expansion Pack 4.10.7.3 contains iC software dedicated to the Niagara Framework, including MAC36 support packages and exclusive iC modules. The list below summarizes the software and versions included in this expansion pack.

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	Software	Versions	
√	MAC36PRO support pack:		^
	nre-clean-iSMA-MAC36-PRO.dist	2.0	
	nre-config-isma-controlli-SD-PRO.dist	4.10.7.42	
	nre-core-isma-controlli-os-aarch64.dist	4.10.7.42	
	isma-controlli-os.dist	5.15.71.73	
√	MAC36NL support pack:		
	nre-clean-iSMA-B-MAC36-v1.4.dist	1.4	
	nre-clean-iSMA-B-MAC36-v2.1.dist	2.1	~
			- ·
	< Back	Next >	Cancel

< Back

Figure 2. Files review

3.4 Step 4: Destination Folder

The next window allows to select the supported Niagara installation path. The folder with a compatible version of Niagara is detected automatically. If not, select the folder manually, clicking on the folder icon.

At this point, it is also possible to select an option to install iC Modules to all detected versions of Niagara. The option is checked by default. If not required, uncheck the option.

Note: Only iC modules will be installed in the detected versions. MAC36PRO and MAC36NL support packs support only selected versions of Niagara, shown in the path.

Click Next to continue.	
iC Niagara Expansion Pack	
Choose the folder where your Niagara is located. The iC Niagara Expansion Pack 4.10.7.3 will only be installed in the supported version. The default Niagara path is provided, but you can change it if needed.	Ö
Select custom installation path:	
C:/Niagara/Niagara-4.10.7.42	
 In addition, I would like to install iC modules in all detected versions of Niagara. Note: Does not apply to MAC36 support packages, which only work for specific versions. Detected version on your PC: Niagara-4.10.6.18 Niagara-4.12.2.16 Niagara-4.13.2.18 	
< Back Next >	Cancel
Figure 3. Destination folder	

3.5 Step 5: Installation

Files to install and destination folder have been selected. Check the summary of files to install. The installer is ready to start. Click Install to launch.



iC Niagara Expansion Pack Х The installer has detected the following supported versions of the Niagara Framework on your PC. In the following versions, an iC Niagara Expansion Pack 4.10.7.3 will be installed. MAC36PRO and MAC36NL support packs will be installed in localization: C:/Niagara/Niagara-4.10.7.42 iC modules will be installed in localizations of all detected Niagara versions: C:\Niagara\Niagara-4.10.6.18 C:/Niagara/Niagara-4.10.7.42 C:\Niagara\Niagara-4.12.2.16 C:\Niagara\Niagara-4.13.2.18 < Back Cancel Install Figure 4. Pre-installation window Installation process is running. To stop the running process for any reason, click Cancel. iC Niagara Expansion Pack \times The installer is now copying files and installing the selected iC software products. This process may take a few minutes. Please wait until the installation is complete. Installing file iSMA_Modbus_Tunnel-rt.jar 44 % Cancel Figure 5. Installation process in progress

3.6 Step 6: Summary

The installation is now completed. Click Finish to complete the process.

All selected files are now saved in the selected locations. Niagara is ready to work with iSMA CONTROLLI products.





Figure 6. Installation summary window

3.7 Step 7: Using Modules in the Niagara Workbench

To start using installed files, navigate to the Niagara Workbench, and select the Open Palette option. Installed modules are available along with any other Niagara module.

📱 Open Palette 🛛 🕹			
Select one or more palettes to	to open, or just start typing:	Browse	
Module	Description	Ę	
iSMA_CONTROLLI_Library	iSMA CONTROLLI Solutions Library for enhanced products integration in Niagara		
iSMA_EC_2D_Graphics	iSMA EC 2D Image Module for N4		
iSMA_Graphics	iSMA Image Module for N4		
iSMA_HDMI	iSMA HDMI Service		
iSMA_IO	This is module for iSMA I/O Driver		
iSMA_Modbus_Tunnel	Modbus TCP Tunnel for GC5 software and hardware		
	OK Cancel		

Figure 7. Open Palette window in the Niagara Workbench