



**ControlEdge PLC**

**ControlEdge RTU**

**Release 174.1**

# ControlEdge Builder Software Installation User's Guide

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# ABOUT THIS GUIDE

## Revision history

Revision	Date	Description
A	December 2022	Initial release of this document

## Intended audience

This documentation is intended for the following audience: Users who plan, install, configure, operate, or maintain ControlEdge™ 2020 Controller, ControlEdge 900 Controller and I/O modules running the eCLR ( IEC 61131-3) execution environment.

## Prerequisite skills

Knowledge of SCADA systems and experience of working in a Microsoft Windows environment are required.

## Special terms

The following table describes some commonly used industry-wide and Honeywell-specific terminology:

Terminology	Description
ControlEdge Builder	A integrated configuration tool to design, configure, program and maintain ControlEdge controllers.
Experion® PKS	Experion® Process Knowledge System
RTU	Remote Terminal Unit
SCADA	Supervisory Control and Data Acquisition

## Related documents

The following list identifies publications that may contain information relevant to the information in this document.

- ControlEdge Builder Software Change Notice
- ControlEdge Builder User's Guide
- ControlEdge PLC and ControlEdge RTU Getting started
- ControlEdge 900 Platform Hardware Planning and Installation Guide
- ControlEdge 2020 Platform Hardware Planning and Installation Guide
- ControlEdge Builder Function and Function Block Configuration Reference
- ControlEdge Builder Protocol Configuration Reference Guide
- ControlEdge PLC and ControlEdge RTU Network and Security Planning Guide
- ControlEdge EtherNet/IP User's Guide
- ControlEdge RTU and PLC DNP3 Device Profile
- ControlEdge Bulk Configuration User's Guide
- ControlEdge PLC PROFINET User's Guide
- ControlEdge RTU Electronic Flow Measurement User's Guide
- Firmware Manager User Guide

# CONTROLEDGE BUILDER

## Overview of ControlEdge Builder

ControlEdge Builder is an integrated configuration tool to design, configure, program and maintain the ControlEdge 900 Controller and 2020 Controller when running the eCLR (IEC 61131-3) execution environment. This includes:

- ControlEdge 900 Controller and I/O modules
- ControlEdge 2020 Controllers and expansion I/O modules

ControlEdge Builder is fully compliant to IEC 61131-3, supporting all five programming languages. This includes Sequential Function Chart (SFC), Ladder Diagram (LD), Structured Text (ST), Instruction List (IL), and Function Block Diagram (FBD). ControlEdge Builder also provides the capability to maintain and upgrade controller and I/O firmware as well as online diagnostics.

# BEFORE YOU BEGIN

## Hardware Requirements

Item	Specification
Processor	Minimum: Pentium or compatible 2 GHz Recommended: Intel® Core™ i5 or equivalent better
System RAM	Minimum: 1 GB Recommended: 4 GB
Hard disk	5 GB free memory space
DVD-ROM drive	Required
Graphic Card	DirectX9 compatible graphic adapter
Display color settings	True color (32 bit)
RS232 interface	Optional
Resolution	Recommended: 1280x800 or above Optimal: 1920x1080, 1366x768, 1280x1024 and 1280x800

## Software Requirements

Item	Specification
Installation Media	ControlEdge Builder Media Kit
Operation system	Windows 10 32-bit or 64-bit (Support Secure Communication) Windows Server 2016 Standard Edition 64-bit
Certified antivirus software	McAfee AV + Virus Scan Engine + patch (8.7i + Engine 5400 + Patch3)

**ATTENTION:** If ControlEdge Builder does not display correctly on your computer, try upgrading the computer's graphic driver to the latest version available.

# INSTALLING CONTROL EDGE BUILDER

## Prerequisites

- The user must log on the computer as an administrator or a member of the Administrator group to install ControlEdge Builder.
- Uninstall the previous version ControlEdge Builder or RTU Builder if it has been installed.
- The user should set the format language, keyboards default input language as English and set the location of English speaking region.

## To install ControlEdge Builder

1. Insert the **ControlEdge Builder Media Kit** into the DVD-ROM drive.
2. Browse to the folder containing `ControlEdge_builder_setup.exe`. Double-click this file.
3. The **Honeywell ControlEdge Builder Setup-Prelaunch Task** page appears. If the system does not have DotNet 4.8 installed, it prompts you that DotNet 4.8 is being installed. Once it is completed, a window prompts you to restart the system. Click **OK** to reboot your computer.
4. After the restart, the Honeywell ControlEdge Builder - InstallShield Wizard dialog appears. Click **Next** to continue.
5. In the **License Agreement** page, click **I accept the terms in the license agreement** and click **Next**.
6. In the **Ready to Install the Program** page, click **Install** to begin the installation.
7. The installation is in progress. When the **InstallShield Wizard Completed** page appears, click **Finish**.
8. A window prompts you to reboot the system, click **Yes** to reboot your computer.

## Results

ControlEdge Builder is installed successfully.

# INSTALLING BULK CONFIGURATION

## Prerequisites

- The user must log on the computer as an administrator or a member of the Administrator group to install Bulk Configuration.
- Bulk Configuration can be installed over a previous version without uninstalling it first.
- The user should set the format language, keyboards default input language as English and set the location of English speaking region.

## To install Bulk Configuration

1. Insert the **ControlEdge Builder Media Kit** into the DVD-ROM drive.
2. Browse to the folder "BulkConfiguration" containing **BulkConfiguration.exe**. Double-click this file.  
The **User Account Control** dialog appears to ensure that you allow the app to make changes to your device.
3. Click **Yes**. The BulkConfiguration- InstallShield Wizard dialog appears.
4. Click **Next** to continue.
5. In the **License Agreement** page, click **I accept the terms in the license agreement** and click **Next**.
6. In the **Setup Type** page, select **Complete** and click **Next**.
7. In the **Ready to Install the Program** page, click **Install** to begin the installation.
8. The installation is in progress. Then in the **InstallShield Wizard Completed** page that appears, click **Finish**.

## Results

Bulk Configuration is installed successfully.

## INSTALLING FIRMWARE PACKAGE

Starting with ControlEdge Builder R170, the firmware package is no longer installed along with the installation of ControlEdge Builder. Users must install it separately after installing ControlEdge Builder.

### Prerequisites

- The user must log on the computer as an administrator or a member of the Administrator group to install ControlEdge Builder.
- The user should set the format language, keyboards default input language as English and set the location of English speaking region.

### To install firmware package

1. Insert the **ControlEdge Builder Media Kit** into the DVD-ROM drive.
2. Browse to the folder **Firmware** and double-click the file **ControlEdge\_Firmware\_Installer.exe**.
3. The **ControlEdge\_Firmware\_Installer - InstallShield Wizard** dialog appears. Click **Next**.
4. In **License Agreement** page, click **I accept the terms in the license agreement** and click **Next**.
5. In **Customer Information** page, enter the **User Name** and **Organization**. Click **Next**.
6. In **Setup Type** page, select **Complete** and click **Next**.
7. In **Ready to Install the Program** page, click **Install** to begin the installation.
8. The installation is in progress. When the **InstallShield Wizard Completed** page appears, click **Finish**.
9. A folder **Firmware** containing all firmwares appears in the location `C:\ProgramData\Honeywell\ControlEdge Builder`.

### Results

Firmware package is installed successfully.

# INSTALLING CONTROLEDGE INTEGRATION SERVICE

Starting with Experion R501.1, you can communicate with the following controllers in the Experion PKS system through CDA. You should install and start the ControlEdge integration service on the Experion Server.

- C300
- ACE
- Sim-C300
- Sim-ACE

**ATTENTION:** It is required to install the ControlEdge integration service on both Experion servers when using Experion Server redundancy, and all Server nodes in the Experion Backup Control Center topology.

## To install the ControlEdge integration service

1. Insert the **ControlEdge Builder Media Kit** into the DVD-ROM drive.
2. Browse to the folder **ControlEdgeIntegrationService**, and double-click the file **ControlEdgeIntegrationService.exe**.
3. The **ControlEdgeIntegrationService - InstallShield Wizard** dialog appears. Click **Next**.
4. In the **License Agreement** page, click **I accept the terms in the license agreement** and click **Next**.
5. In the **ExpAcctSvcLP Login** page, enter the **Username**, **Password** and **Confirm password** for the user account that the ControlEdge Integration Service shall log on as. Click **Next**.

**ATTENTION:** The user name must be started with ".\". The user should have a "Security level" of at least "Engineer" in the Experion server. See "Configuring system security" in the *Experion Server and Client Configuration Guide* for more information.

6. In the **Setup Type** page, select the setup type that best suits your needs. It is recommended to select **Complete**. Click **Next**.
7. In the **Ready to Install the Program** page, click **Install** to begin the installation. You can click **Cancel** to abort the installation.
8. The installation is in progress.
9. The **InstallShield Wizard Completed** dialog appears. Click **Finish**.

**To check the status of the ControlEdge integration service**

1. Click **Start button** of PC, and enter **services.msc** in the search bar. The **Services** dialog appears.
2. Find **Honeywell ControlEdge Integration Service**, and ensure the **Status** is **Running**. If not, right-click the service and click **Start**.
3. Check the **Startup Type** is **Automatic**. If not, right-click the service and select **Properties**, and then select **Automatic** from the **Startup type** drop-down list.

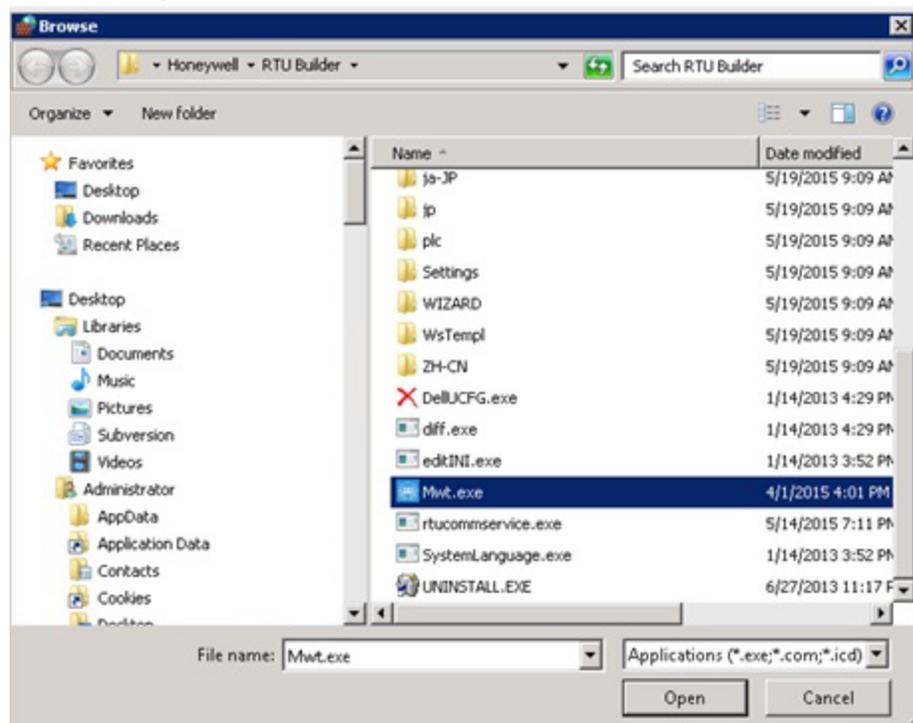
# POST-INSTALLATION TASKS

## Configuring a Firewall

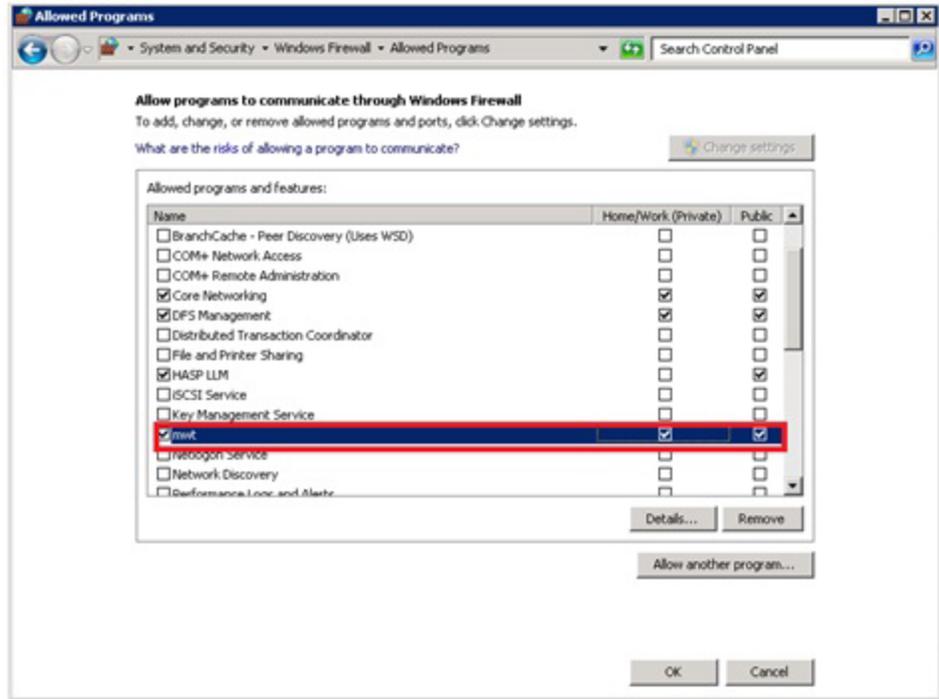
The Windows Firewall running on the ControlEdge Builder computer may prevent the ControlEdge Builder from communicating to the controller. It is recommended to add the ControlEdge Builder as an “allowed program” in the Windows Firewall settings.

To configure the Firewall

1. Select **Control Panel** and find **Windows Firewall**.
2. Click **Allow a program or feature through Windows Firewall** from the left side, the **Allowed Programs** window appears.
3. Click **Change settings** and click **Allow another program**, the **Add a Program** window appears.
4. Click **Browse** and select **Mwt.exe** file. Click **Open** to add it into **Allowed programs and features** list.



5. Select appropriate options for `mwt`, and click **OK** to complete the configuration.



### Results

The Firewall is successfully configured and ControlEdge Builder will not be blocked from communication to a controller.

# UNINSTALLING CONTROL EDGE BUILDER

## Prerequisites

- The user must log on the computer as an administrator or a member of the Administrator group to uninstall ControlEdge Builder.
- The user should set the format language, keyboards default input language as English and set the location of English speaking region.
- The user must disconnect with controller and save & close all opened projects.

## To uninstall ControlEdge Builder

1. In the search box on the taskbar, type **Control Panel** and select it from the results.
2. Click **Programs > Programs and Features**.
3. Select **Helpfile\_ControlEdge Builder** and click **Uninstall** or **Uninstall/Change**. Then follow the directions on the screen.  
The **Helpfile\_ControlEdge Builder** uninstalled successfully.

**ATTENTION:** It is recommended to uninstall the main **ControlEdge Builder** only after uninstalling **Helpfile\_ControlEdge Builder**.

4. Select **Honeywell ControlEdge Builder** and click **Uninstall** or **Uninstall/Change**. Then follow the directions on the screen.
5. The **Honeywell ControlEdge Builder** page appears:
  - Choose **Automatically Close applications and attempt to restart them after setup is complete** if the user want restart the system immediately, and click **Ok**.
  - Choose **Do not Close applications** if the user want restart later, and click **Ok**.
6. A window prompts you to reboot the system, click **Yes** to reboot your computer.

**NOTE:** After uninstalling the old ControlEdge Builder, users must reboot the system to install the new ControlEdge Builder.

**Results**

ControlEdge Builder is uninstalled successfully.

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<https://process.honeywell.com/us/en/support/product-documents-downloads>

If you have comments about Honeywell Process Solutions documentation, send your feedback to: [hpsdocs@honeywell.com](mailto:hpsdocs@honeywell.com)

Use this email address to provide feedback, or to report errors and omissions in the documentation. For immediate help with a technical problem, contact HPS Technical Support through your local Customer Contact Center, or by raising a support request on the Honeywell Process Solutions Support website.

## **How to report a security vulnerability**

For the purpose of submission, a security vulnerability is defined as a software defect or weakness that can be exploited to reduce the operational or security capabilities of the software.

Honeywell investigates all reports of security vulnerabilities affecting Honeywell products and services.

To report a potential security vulnerability against any Honeywell product, please follow the instructions at:

<https://www.honeywell.com/en-us/product-security>.

## **Support**

For support, contact your local Honeywell Process Solutions Customer Contact Center (CCC). To find your local CCC visit the website, <https://process.honeywell.com/us/en/contact-us>.

## **Training classes**

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