Honeywell

ControlEdge Builder

Software Installation User's Guide

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ControlEdge PLC
ControlEdge RTU
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# CONTENTS

<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1 - About this guide</td>
<td>5</td>
</tr>
<tr>
<td>Chapter 2 - ControlEdge Builder</td>
<td>7</td>
</tr>
<tr>
<td>Overview of ControlEdge Builder</td>
<td>7</td>
</tr>
<tr>
<td>Chapter 3 - Before You Begin</td>
<td>9</td>
</tr>
<tr>
<td>Hardware Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Software Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Chapter 4 - Installing ControlEdge Builder</td>
<td>11</td>
</tr>
<tr>
<td>Chapter 5 - Installing ControlEdge integration service</td>
<td>13</td>
</tr>
<tr>
<td>Chapter 6 - Post-installation Tasks</td>
<td>15</td>
</tr>
<tr>
<td>Configuring a Firewall</td>
<td>15</td>
</tr>
<tr>
<td>Notices</td>
<td>17</td>
</tr>
</tbody>
</table>
CHAPTER 1

ABOUT THIS GUIDE

Revision history

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>March 2020</td>
<td>Initial release of this document</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Terminology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ControlEdge Builder</td>
<td>A integrated configuration tool to design, configure, program and maintain ControlEdge controllers.</td>
</tr>
<tr>
<td>Experion® PKS</td>
<td>Experion® Process Knowledge System</td>
</tr>
<tr>
<td>RTU</td>
<td>Remote Terminal Unit</td>
</tr>
<tr>
<td>SCADA</td>
<td>Supervisory Control and Data Acquisition</td>
</tr>
</tbody>
</table>

Related documents

The following list identifies publications that may contain information relevant to the information in this document.
Chapter 1 - About this guide

- 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.
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.
## Hardware Requirements

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

## Software Requirements

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Media</td>
<td>ControlEdge Builder Media Kit</td>
</tr>
<tr>
<td>Operation system</td>
<td>Windows 7 32-bit or 64-bit with SP1</td>
</tr>
<tr>
<td></td>
<td>Windows 2008 32-bit or 64-bit with SP1</td>
</tr>
<tr>
<td></td>
<td>Windows 10 32-bit or 64-bit (Support Secure Communication)</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2016 Standard Edition 64-bit</td>
</tr>
<tr>
<td>Certified antivirus software</td>
<td>McAfee AV + Virus Scan Engine + patch (8.7i + Engine 5400 + Patch3)</td>
</tr>
</tbody>
</table>
ATTENTION: If ControlEdge Builder does not display correctly on your computer, try upgrading the computer’s graphic driver to the latest version available.
CHAPTER 4

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.
- 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 4.0 installed, it prompts you that DotNet 4.0 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. Then in the InstallShield Wizard Completed page that appears, click Finish.
8. A window prompts you to reboot the system, click Yes to reboot your computer.

Results

ControlEdge Builder is installed successfully.
Chapter 4 - Installing ControlEdge Builder
CHAPTER 5

INSTALLING CONTROLEEDGE 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 **Customer Information** page, enter your information if required. Click Next.
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, and then the **Set Service Login** dialog appears.
9. Enter the **Username, Password** and **Confirm password** for the user account that the ControlEdge Integration Service shall log on as.
Click **OK**.

**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.

10. 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**, check the **Status** is **Running**. If it is not, right-click the service and click **Start**.

3. Check the **Startup Type** is **Automatic**. If it is not, right-click the service and select **Properties**, and then select **Automatic** from the **Startup type** drop-down list.
CHAPTER 6

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.

![Firewall Configuration](image)

**Results**

The Firewall is successfully configured and ControlEdge Builder will not be blocked from communication to a controller.
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Use this email address to provide feedback, or to report errors and omissions in the documentation. For immediate help with a technical problem, contact your local Honeywell Technical Assistance Center (TAC).
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:


Support

For support, contact your local Honeywell Process Solutions Customer Contact Center (CCC). To find your local CCC visit the website, https://www.honeywellprocess.com/en-US/contact-us/customer-support-contacts/Pages/default.aspx.

Training classes

Honeywell holds technical training classes that are taught by process control systems experts. For more information about these classes, contact your Honeywell representative, or see http://www.automationcollege.com.