



Proficy HMI/SCADA - CIMPLICITY 2022

Important Product Information



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doc@ge.com

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Chapter 1. Important Product Information 2022

Customer and Technical Support Contact Information

For information on how to contact our Technical Support team, see digitalsupport.ge.com.

System Requirements and Compatibility

The following are the hardware and software requirements for CIMPLICITY.

Hardware Requirements

CIMPLICITY v2022 requires, at a minimum, the following hardware specifications. GE Digital recommends testing your particular system to determine if your performance needs require hardware beyond the base system recommendations.

Hardware	Requirements
Microprocessor	Intel Core 2 Duo 3.0 GHz
RAM	4 GB
Hard disk	40 GB
Ports	<ul style="list-style-type: none"> • USB port, if using a USB M4 or M5 license or a green key. • Serial port for some touch screens, pointing devices, and I/O drivers • Additional ports for I/O hardware
Monitor	<ul style="list-style-type: none"> • Color graphics monitor, SVGA or better • 24-bit graphics card capable of 800 x 600 resolution




Supported Operating Systems and Versions

CIMPLICITY v2022 runs on any of the following operating systems, provided that specified revisions and service packs are included.

- Microsoft Windows 11 (64-bit)
- Microsoft Windows 10 (64-bit)
- Microsoft Windows Server 2022
- Microsoft Windows Server 2022 Cluster
- Microsoft Windows Server 2019
- Microsoft Windows Server 2019 Cluster
- Microsoft Windows Server 2016
- Microsoft Windows Server 2016 Cluster
- Microsoft Windows 10 IoT Enterprise (LTSB) (Only full blown IoT version is supported. Not the core & mobile versions)

Supported External Software Versions

CIMPLICITY v2022 is compatible with the following external software.

External Software	Supported Version
Microsoft Office	2019
Microsoft SQL Server	2019, 2017, and 2016  Important: SQL Server 2008 can be installed but is no longer supported.  Note: CIMPLICITY has been validated to work with Database configurations using SQL 2016 AlwaysOn with the exception of the Tracker Attribute Database (TADB) functionality.
SQL Express	2019, 2017, and 2016
Oracle	18c and 19c  Note: Both the client and server should be running same version of Oracle.
Microsoft Visual Studio	2017
Flexera Software - Install Shield	2018
Sequent - Alarm Cast	10.04.01
Dream Report	Latest version
Azure	

Supported GE Software Versions

CIMPLICITY v2022 is compatible with the following GE software.

GE Software	Supported Version	Install Before or After CIMPLICITY
Alarm Cast Administrator	10.04.01	After
Change Management	9.5	Before
Common Licensing	Latest version	With CIMPLICITY
Driver Server	Latest version	Either
Global Discovery Server	2.2	After
Historian (full version)	2022, 9.1, 9.0 and 8.1 Note: Logging array points to Historian is supported from version 7.0 onwards.	Either
IGS OPC Server	Latest version	Either
Machine Edition	9.5 and 9.0	Either
Plant Apps	2022, 8.2 and 8.1	Either
Portal	3.5 SP5	Either
Proficy Driver Server (PDS) *	Latest version	With CIMPLICITY
OPSHUB and UAA	2022 and 2.1	After
Webspace	6.0	After

Starting CIMPLICITY 11.1, the Proficy Driver Server will not be installed with CIMPLICITY installation.



To install Proficy Driver Server, navigate to the CIMPLICITY Install Media located at **Setup \Proficy Driver Toolkit\setup.exe**. Before you install Proficy Driver Server, you must install .NET Framework 3.5 through your Windows options.



 **Note:**

- If you are already using the Proficy Driver Server in your CIMPLICITY projects, it will continue to work as expected. Existing PDS is not uninstalled when you uninstall CIMPLICITY and upgrade to 11.1 or higher.
- The Driver Server protocol may be enabled in Project Properties even when Proficy Driver Server is not installed.

Compatibility Requirements

Note the following as they apply to your installation:

Element	Requirement
Network Communication I/O	<p>Allen-Bradley Ethernet Driver</p> <p>Note the following:</p> <ul style="list-style-type: none"> • RSLINX OEM 3.80.00 is required. • Rockwell requires a Factory Talk activation for RSLINX OEM. If RSLINX OEM is not activated, the Allen-Bradley Ethernet device communication interface will not run. Allen-Bradley Internet is supported on the following operating systems: <ul style="list-style-type: none"> ◦ Microsoft Windows 11 (64-bit) ◦ Microsoft Windows 10 (64-bit) ◦ Microsoft Windows Server 2022 ◦ Microsoft Windows Server 2022 Cluster ◦ Microsoft Windows Server 2019 ◦ Microsoft Windows Server 2019 Cluster ◦ Microsoft Windows Server 2016 ◦ Microsoft Windows Server 2016 Cluster ◦ Microsoft Windows 10 IoT Enterprise (LTSB) (Only full blown IoT version is supported. Not the core & mobile versions) <p> Note: Depending on the OS, some RSLINX OEM features may not be supported. Refer to the RSLINX documentation for further information.</p>
Genius PCI	<p>If you are using Genius PCI communications you need:</p> <ul style="list-style-type: none"> • One full height PCI slot for each port (up to four) • One Genius PCI card (IC660ELB931) <p> Note: Genius PCI is only supported on 32-bit Windows 7 and Windows 10 systems.</p>

Element	Requirement
Reflective Memory	<p>If you are using reflective memory, the card requirements are:</p> <ul style="list-style-type: none"> • PCPCIE-5565PIORC requires a low profile PCI Express Slot for each card • PCI-5565PIORC requires a 64-bit PCI slot for each card • PCIE-5565RC requires a PCI Express Slot. <p> Note: You can install up to two reflective memory cards, but not all computers support two cards due to hardware or BIOS-specific limitations. The Reflective Memory driver is only supported on Windows 7 and is no longer packaged with CIMPLICITY. However, the package is available from Abaco, who is also the vendor for the reflective memory cards.</p> <p>You must install the following package:</p> <p>RFM2G Windows 7/XP/Vista/Server 2008/Server 2003/32/64-bit PCIE/PCI/PMC Driver for X86 R08.01.</p>
DDE Communications	<p>The DDE communications interface runs in the service session only. The DDE server must be able to run from the service session.</p>
Browsers	<p>The following browsers are supported for Webspaces with CIMPLICITY and SCADA Web Configuration.</p> <ul style="list-style-type: none"> • Google Chrome 92 or Greater • Microsoft Edge 92.x • Firefox 90.x • Safari 14 or Greater <p> Note: Ensure that you use the browsers supported by CIMPLICITY, as the support for TLSv1 and TLSv1.1 HTTPS protocols is deprecated.</p> <p>You must use TLS libraries for the rest calls that support TLS 1.2 or higher.</p>

CIMPLICITY Installation

Installation Prerequisites

Before you install CIMPLICITY v2022, complete the tasks listed below.

Keeping the CimEdit/CimView Global Configuration

Complete this task if global specifications were configured in the CimEdit Global Configuration dialog box. The global configuration can affect navigation, script selections, compatibility, and so forth.

1. Locate the the CimView.cfg file located in the ..\<CIMPLICITY Installation>\Data directory.
2. Move the file to a different location.
3. When the installation is complete, move the configured file back into the ..\<CIMPLICITY Installation>\Data directory to continue using those settings.

Uninstalling CIMPLICITY

If you are upgrading from an earlier version, the existing CIMPLICITY version must be uninstalled before you install the new version.

To remove the older version:

1. Open Windows Control Panel and select **Programs and Features**.
2. From the list of programs, locate CIMPLICITY, then select the application and select **Uninstall**.
3. When the wizard displays the Uninstall Complete window, select **Yes, I want to restart my computer now**.
4. Select **Finish**.

 **Important:** You do not need to uninstall Historian before upgrading from earlier version of CIMPLICITY. Historian is not available with CIMPLICITY install media. You must use Historian's install media if you want to install Historian.

The CIMPLICITY uninstall process attempts to remove components that depend on CIMPLICITY, such as Alarm Cast, CNC, GlobalView, and Tracker.

You should verify that these components were removed when you uninstalled CIMPLICITY. If they were not, you must uninstall them manually.

 **Note:** Ensure that your system is updated with the latest Microsoft updates.


CIMPLICITY Server and Viewer

About CIMPLICITY Server or Viewer

The HMI/SCADA CIMPLICITY v2022 splash screen provides links to the core CIMPLICITY installation components and optional applications.



- You must install CIMPLICITY with a local Windows user account that has administrator rights. See your Windows documentation for details about creating this type of account.
- You must install Historian using Historian's install media.
- If SQL Server is required for Viewers to display reported logged point and alarm data, or trend point lines plotting historical data in the Historical Alarm Viewer (HAV) , you must install the SQL Native Client driver that is used on the CIMPLICITY Server for the data to be displayed correctly. For CIMPLICITY 2022, The SQL Native Client driver version is 11.0.
- If you will be using a supported Historian version that is already installed, do not uninstall it.

 **Note:** Ensure that your system is updated with the latest Microsoft updates.


CIMPLICITY Server Installation

 **Note:** If you are upgrading to CIMPLICITY 2022 or higher, you will be prompted to manually uninstall the previous version and re-initiate the installation process.

1. From the CIMPLICITY splash screen, click **Install CIMPLICITY Server**.
2. When the Welcome screen opens, click **Next**.
3. Accept the license agreement terms and click **Next**.
4. If you want to keep the default location for the CIMPLICITY server files, click Next or click **Change** to select a new destination and then click **Next**. If you are installing CIMPLICITY on a 32-bit system, the default destination is C:\Program Files\Proficy\CIMPLICITY and on a 64-bit system, the default destination is C:\Program Files (x86)\Proficy\CIMPLICITY.
5. Enter the Web TCP ports for Web TCP configuration, and then click **Next**:
 - Web: Default is 9443
 - Config: Default is 4955


 **Important:** SQL Express, Historian, and A&E Archiver are installed separately. If you did not install SQL Express before installing CIMPLICITY, you must ensure the DNS configuration is mapped to connect with CIMPLICITY logging.


6. Select one of the following Help options:
 - Online Help (Internet): To access the Help available online. All the help requests from the product are directed to the latest Online Help on GE website. The Online Help is always up-to-date with latest changes.
 - Local Help: To install local help and use it with CIMPLICITY. This option enables you to can access the Help even if you are not connected to the Internet.
 - Remote Help Server (Intranet): To access the Help available on other CIMPLICITY server.

 **Note:** Installing local help will increase the installation time. If you are connected to the internet, you are recommended to use the Online Help option to save the installation time and disk space.

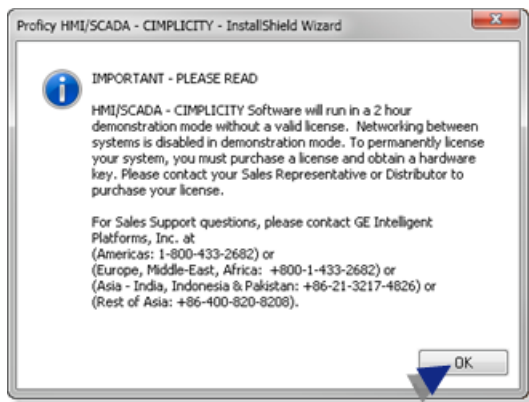
 **Note:** You cannot install local help on CIMPLICITY viewer.

7. If you have selected the Remote Help option, enter the following details:
 - Help Server Name: Enter the name of the server that has CIMPLICITY Help installed.
 - Port Number: Enter the port number of the Server. Default is 9443.

 **Note:** You must change the port number only if you have explicitly changed the CIMPLICITY Web port on the remote server.

 **Important:** To view Remote Help in secure mode, you must import the root certificate on viewer/remote machine. Refer .

8. Click **Install**.
9. Click **OK** to display the licensing message.



10. Click **OK** again to display the InstallShield Wizard Complete dialog.

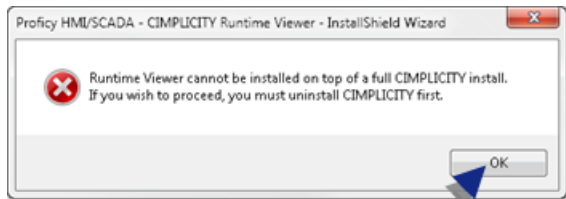
11. Select a button to either restart the computer now or postpone the restart, then click **Finish**.

CIMPLICITY Server is ready to perform as soon as the restart is complete.

If you have selected Local Help option, the files are installed in C:\Program Files \Proficy\Proficy Common\Docs\ directory. If you have another product installed prior to CIMPLICITY the Help will be installed in the default Help location of that product.

CIMPLICITY Viewer Installation

Ensure you are installing the viewer on a client machine. You cannot install the viewer on the computer hosting CIMPLICITY server.



1. From the CIMPLICITY splash screen, click **Install CIMPLICITY Viewer**.

2. When the Welcome screen opens, click **Next**.

3. Accept the license agreement terms and click **Next**.

4. In the Setup Type dialog, do one of the following:

- Select Complete to ensure that all CIMPLICITY program files, help files, and demo files are installed.
- Select Custom to select components.

5. Click **Next**, then either keep the default location for the CIMPLICITY files or click Change to select a new destination.

6. Click **Next**, then do one of the following:

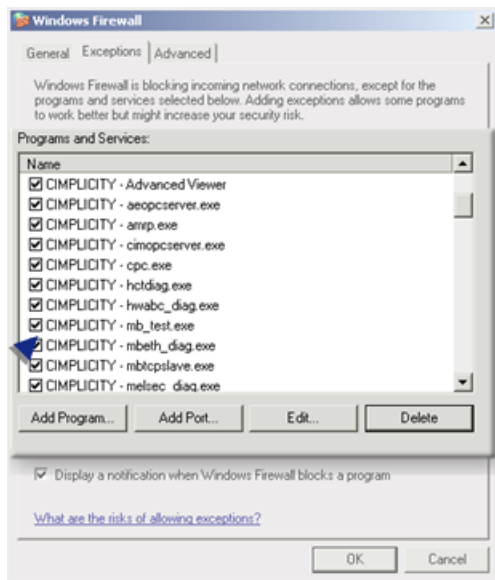
- If you selected a complete installation, all applicable CIMPLICITY components are installed. Go to Step 7.
- If you selected a custom installation, the **Select Features** dialog appears. Choose the components to install, then click Next and go to Step 7.

! **Important:** SQL Express, Historian, and A&E Archiver are installed separately. If you did not install SQL Express before installing CIMPLICITY, you must ensure the DNS configuration is mapped to connect with CIMPLICITY logging.

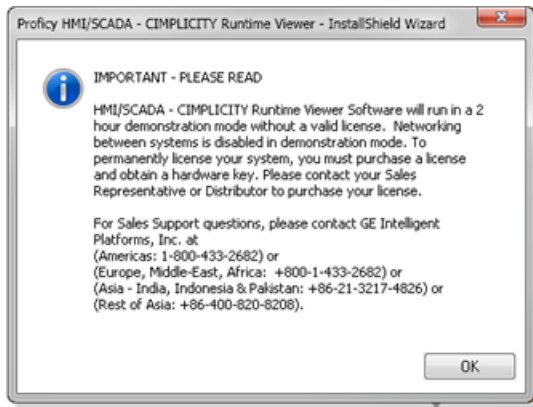
7. If the Windows Firewall is enabled, a pop-up message appears, asking if you want to integrate CIMPLICITY with the Windows Firewall. Do one of the following:

- Click **Yes** to add applicable CIMPLICITY applications to the Windows Firewall exception list.
- Click **No** if CIMPLICITY applications should not have off-node communications enabled.

📌 Note: If you click **No** but keep the Windows Firewall enabled, CIMPLICITY does not perform correctly. However, you can add applications to the exception list after the installation is finished. A complete list of CIMPLICITY exceptions is stored in the Proficy CIMPLICITY \Firewall directory.



8. When the Ready to Install dialog appears, click **Install**. A Setup Status screen opens, displaying consecutive messages on the installation progress.
9. When the installation is finished, a pop-up prompt appears, instructing you to insert the DVD so you can install or upgrade Historian components.
10. Click **OK** to display the licensing message.



11. Click **OK** again to display the InstallShield Wizard Complete dialog.
12. Select a button to either restart the computer now or postpone the restart, then click **Finish**.

CIMPLICITY Viewer is ready to perform as soon as the restart is complete.

Help files are installed in a common help directory.

CIMPLICITY Program File Components

The following CIMPLICITY components are installed with the CIMPLICITY program files. Licensed features will be enabled when installation is complete. You can enable other features at any time by simply obtaining the appropriate license. Refer [Customer and Technical Support Contact Information \(page 3\)](#).

! **Important:** Components that are identified as:

Legacy	Accommodate clients who are still using them from previously configured CIMPLICITY versions. This will give you time to upgrade your systems.
As-Is	Are not actively being developed or supported.

These features support equipment that is obsolete or functionality that has been superseded by far more effective and efficient functionality. Therefore, these features will not be available in the next major CIMPLICITY release after version 10.

Server/Viewer Development components

Component/Option	Description
HMI Server Base	The Proficy CIMPLICITY Server for supported operating systems provides configuration and runtime support for graphic monitoring (CimEdit/CimView) and control, alarm management and Viewer support (Alarm Viewer/Historical Alarm Viewer).

Component/Option	Description
ApplicationOptions	Proficy CIMPLICITY Application Options supplement the base functionality of the Proficy CIMPLICITY Server and Viewer products.
Action Calendar	Allows calendar based scheduling of set points.
A&E OPC Server	Allows you to provide alarm information to OPC clients through COM and DCOM.
Change Management	<p>Enables users who also have a licensed Change Management product can now manage CIMPLICITY project configuration revisions.</p> <p>Change Management functionality includes:</p> <ul style="list-style-type: none"> • Check-in • Check-out • History • Roll-back capabilities
Change Approval	Requires valid users to electronically sign a setpoint action for selected points.
Document Delivery	Provides the ability to send files to remote locations using mapped network drives, FTP and HTTP.
Dynamic Graphic Replay	<p>Provides dynamic replay of Historian or SQL historical point data through CimView.</p> <p>Note: Dynamic Graphic Replay (DGR) replaces VCR.</p>
Marquee Driver	Controls Marquee display devices on COM ports.
OPC Server	Allows you to provide point management information to OPC clients through COM and DCOM.
Alarm Cast	Allows a user to send alarm messages to alphanumeric Pagers, SMS, and SMTP Servers.
Recipes	<p>Allows the user to</p> <ul style="list-style-type: none"> • (Server only) configure recipe groups. • (Server and Viewer) Upload/download recipes.
Screen Navigation	Allows you to create buttons and menus that aid a user to navigate through your system's CimView screens and global scripts.
Server Redundancy	Provides server level redundancy for Proficy CIMPLICITY applications.
SPC Charts	(Statistical process control) allows users to collect quality data and make control charts.
System Sentry	Allows you to monitor the functioning of your computer.
Alarm Management	Allows a user to integrate custom software to Proficy CIMPLICITY by generating and clearing Proficy CIMPLICITY alarms.
Devcom Toolkit	Allows a user to create a communication module to third party hardware not directly supported by Proficy CIMPLICITY.

Component/Option	Description
Point Management	Allows a user to integrate custom software to Proficy CIMPLICITY by passing real time point data between the applications.
Communications	Options allow Proficy CIMPLICITY Servers to gather data from, or send data to, controller devices, as follows.
CCM2	Series 6, Series 5 and Series 90 Model 90-70 and 90-30 PLC's.
S90 Triplex	TCP/IP communications to redundant and non-redundant Model 90-70, Model 90-30, Rx3i, and Rx7i PLCs.
SNP	Series 90 PLC's.
SNPX	Series 90 PLC's.
AB Ethernet	Utilizes Rockwell's RSLinx software to communicate to Allen-Bradley PLC's over Ethernet.
Allen Bradley RFID	Allen Bradley Intelligent Antennas
Allen Bradley DF-1	Serial communications protocol to Allen-Bradley device communications.
DDE Client	(As-Is-Local only) DDE communications to DDE server.
FloPro/FloNet Ethernet	FloPro via Ethernet.
Genius PCI	Genius PCI communications via a supported PCIM card.
Honeywell IPC 620	Honeywell IPC 620 PLC's.
Mitsubishi Serial	Mitsubishi A Series Serial communications.
Mitsubishi TCP/IP	Melsec PLC via Ethernet.
Modbus RTU	Modicon PLC's.
Modbus TCP/IP	Modicon PLC's.
N2 Serial	(Johnson Controls N2) to Johnson Controls Unitary and DX9100 Controllers.
Omron Host Link	Omron Host Link.
OMRON TCP/IP	(Omron Ethernet) TCO/IP communications to OMRON PLC's.
OPC Client	COM and DCOM communications to an OPC server.
Reflective Memory	(As-is) Reflective Memory communications via a supported Reflective Memory card.
Sharp TCP/IP	Sharp PLC via Ethernet.
Smarteye	SMARTEYE Readers via SMARTEYE Electronic Assemblies.
Square D	SYMAX PLC's.
TI Serial	Texas Instruments PLC's.
TOYOPUC TCP/IP	Toyota Machine Work's Toyopuc PC2 Series programmable controllers via Ethernet.
SystemUtilities	System utilities for Proficy CIMPLICITY Server and viewer products.
Login Panel	Displays the current project the local node connects to. It shows whether the projects are logged in or logged out.

Component/Option	Description
Process Control	Provides control of programs running on a Proficy CIMPLICITY system.
Show Users	Displays the current users of a Proficy CIMPLICITY system.
Viewer Runtime Components	
Components/Options	Description
Viewer	Configuration and runtime support for graphic monitoring and control. Information is received from a Proficy CIMPLICITY Server.
Advanced Viewer	Viewers can report point values straight from a PLC. A CIMPLICITY project does not have to be running.
ApplicationOptions	Supplement the base functionality of the Proficy CIMPLICITY Server and Viewer products.
Dynamic Graphic Replay (DGR)	Provides dynamic replay of Historian or SQL historical point data through CimView. Note: Dynamic Graphic Replay (DGR) replaces VCR
Help Files	Detailed CIMPLICITY documentation.
Recipes	Allows the user to upload/download recipes.
Server Redundancy Support	Provides Viewer support for Server level redundancy for Proficy CIMPLICITY applications.
SPC Charts	(Statistical Process Control option) allows users to collect quality data and make control charts.
TrackerDisplay	Provides factory tracker/routing interfaces.
OrderExec. Mgt. Display	Provides factory tracking/routing interfaces.
SystemUtilities	System utilities for Proficy CIMPLICITY server and viewer products.
Process Control	Provides control of programs running on a Proficy CIMPLICITY system.
Show Users	Displays the current users of a Proficy CIMPLICITY system.
Login Panel	Displays the current projects that the node is logged into.
CablingRedundancy	Provides network cabling redundancy to a Proficy CIMPLICITY server.

(Optional) Installation: Tracker

 **Note:** Tracker is available for installation after rebooting the server to complete the CIMPLICITY installation.

1. Click **Install Tracker** on the HMI/SCADA CIMPLICITY Splash screen.



2. When the Welcome screen appears, click **Next** to open the license agreement, then accept the license agreement to continue.
3. A Firewall message opens, asking if you want to integrate Tracker with the Windows Firewall. Click **Yes** to add Tracker apps to the Windows Firewall Exception list, or **No** to not add them, in which case Tracker apps will not have any off-node communications.
4. Click **Install**. A Setup Status screen opens and displays the progress of the Tracker installation.
5. Click **OK**.

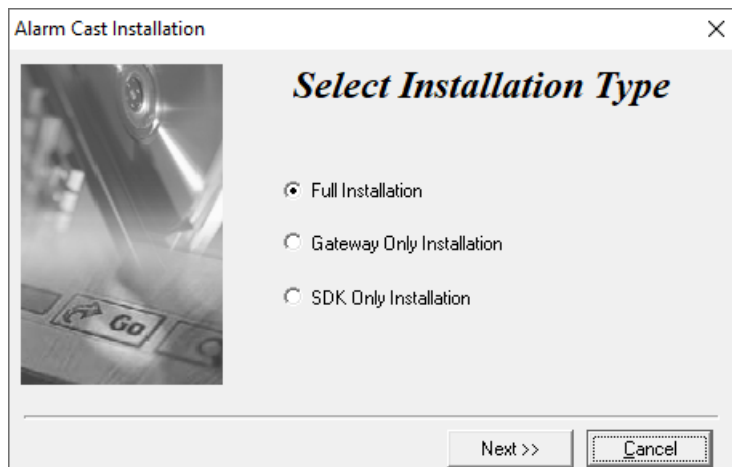
An InstallShield Wizard Complete screen opens. (If you have not already rebooted after installing CIMPLICITY and Tracker is your last selection) reboot the computer.

(Optional) Installation: Alarm Cast

1. Click **Install Alarm Cast** on the HMI/SCADA CIMPLICITY Splash screen.



2. When the Welcome screen appears, click **Next** to open the license agreement, then accept the license agreement to continue.
3. A Firewall message opens, asking if you want to integrate Alarm Cast with the Windows Firewall. Click **Yes** to add Alarm Cast apps to the Windows Firewall Exception list, or **No** to not add them, in which case Alarm Cast apps will not have any off-node communications.
4. Click **Install**.
5. In the Select Installation Type window, select one the following options.
 - **Full installation**, to install Alarm Cast Server and Alarm Cast Gateway
 - **Gateway Only Installation**, to install a bridge between CIMPPLICITY project alarms and the Alarm Cast Server.
 - **SDK Only Installation**, to install SDKs which can be used to programmatically incorporate specific features from Alarm Cast.



6. Select one of the following to identify the Alarm Cast Server:

- **Local**, to indicate the local machine
- **Remote**, then enter the server name and port.

A Setup Status screen opens and displays the progress of the installation.

7. When the installation is complete, click **Finish**, then restart the server.


CIMPLICITY Silent Installation

CIMPLICITY installations may be performed without requiring any user input. This mode of installation is called Quiet Mode or Silent Mode. This topic describes the steps required to setup a Quiet Mode installation of CIMPLICITY as well as CIMPLICITY SIMs.

1. Create an .ini file specifying the install options to be used.



Table 1.

Component	Content of quiet.ini
Server	<pre>[Config] QuietMode=1 InstallDir=C:\Program Files (x86)\Proficy\Proficy Cimplicity\ InstallType=COMPLETE StopClusterOnUpgrade=TRUE ContinueAfterStopClusterFail=TRUE ClusterStartRetries=3 AutostartService_0=1 FirewallIntegration=TRUE WebConfigPort=9443 CimConfigServicePort=4955 HelpMode=1 HelpServerName=Gei32itv HelpServerPort=9696 ComputerAdminUser=Operator_1 ComputerAdminPassword=Operator*34</pre>

Component	Content of quiet.ini
Viewer	<pre>QuietMode=1 InstallDir=C:\Program Files (x86)\Proficy\Proficy CIMPLICITY\ AutostartService_0=1 FirewallIntegration=TRUE HelpMode=0 HelpServerName=Gei32itv HelpServerPort=9696</pre> <p> Note: HelpMode=1 is not a valid option for a viewer.</p>
Tracker	<pre>QuietMode=1 InstallDir=C:\Program Files (x86)\Proficy\Proficy CIMPLICITY\ AutostartService_0=1</pre>
Help	<pre>QuietMode=1 InstallDir=C:\Program Files (x86)\Proficy\Proficy CIMPLICITY\</pre>


2. Add the parameter values as required.

Parameter	Description
QuietMode	<ul style="list-style-type: none"> A value of 1 indicates that the install should proceed quietly (without user input). A value of 0 indicates user input (a standard install).
InstallDir	This is the directory in which CIMPLICITY will be installed. If the command-line parameter /targetdir="C:\Some Folder" is used, this parameter will be ignored.
InstallType	InstallType=COMPLETE indicates complete installation.
StopClusterOnUpgrade	If installing on a cluster, this is the same as the "Stop Cluster Service" dialog in setup. A value of FALSE will abort the install if it is a cluster.
ContinueAfterStopClusterFail	If we are unable to stop the cluster service, this determines if we continue the install. A value of FALSE will abort, TRUE will continue.
ClusterStartRetries	The number of tries to be attempted to start the cluster service after install.
AutostartService_0	Do we auto-start the services that would normally be listed in a dialog near the end of the installation interview. They are numbered sequentially in the same order as they would appear in the dialog. <ul style="list-style-type: none"> A value of 1 indicates that the service should be auto-started, A value of 0 indicates that the service should not be auto-started .
FirewallIntegration	To integrate CIMPLICITY with the firewall: <ul style="list-style-type: none"> A value of TRUE will trigger firewall integration. A value of FALSE will not trigger firewall integration.
WebConfigPort	The NGINX port for Scada Web Configuration. Default is 9443.
CimConfigServicePort	The CIMPLICITY Configuration Service Port. Default is 4955.

Parameter	Description
HelpMode	<p>The type of Help you want to configure with CIMPPLICITY:</p> <ul style="list-style-type: none"> • 0= Remote Help (To access Help installed in another server). • 1= Local Help (To install local Help and use it with CIMPPLICITY). • 3= Online Help (To access Online Help available on internet). This the default Help option. If the parameter is not specified the Online Help is integrated with the product. <p> Note: HelpMode=1 is not a valid option for a viewer.</p>
HelpServerName	<p>Host Name or IP Address of the server that has help installed. This parameter is required only if you selected Remote Help (HelpMode=0).</p> <p> Note: This value defaults to localhost if it is not specified in <code>quiet.ini</code>. It is useful to specify help server name if helpfiles feature is not included as part of installation using the InstallFeatures parameter.</p>
HelpServerPort	<p>NGINX Port of the Help Server. Default is 9443 (The default NGINX port of the Help Server node).</p>
ComputerAdminUser	<p>User name of the computer admin who can to create a new project user or enable the project for web configuration using the following REST APIs:</p> <ul style="list-style-type: none"> • /user-config • /rest-settings
ComputerAdminPassword	<p>Password for the computer admin.</p>

3. Add the `quiet.ini` file to the required folder based on the component you are installing, and then run the corresponding `.exe` file in the command prompt.

Component	Folder	Executable
Server	ServerSetup	ServerSetup.exe
Viewer	ViewerSetup	ViewerSetup .exe
Tracker	Tracker	TrackerSetup .exe
Help	Setup\help	<pre>helpinstaller.exe / srcdir="%PACKAGE_DIR %\..\..\help</pre>

 **Note:** If you add the `quiet.ini` file to a different location, you must specify the location in the command prompt: `ServerSetup\ServerSetup.exe /quietinifile="<File Location>\quiet.ini"`

The silent installation is completed. You can verify the success of the install using the log files (Proficy CIMPPLICITY_Setup.log and Proficy CIMPPLICITY Help_Setup.log) created in your windows directory.

Reboot your system after silent installation to successfully register the components.

CIMPLICITY Post-Installation Tasks

After you install CIMPLICITY, you must reset your global configuration:


1. Locate the configured CimView.cfg file that you saved before you began the installation.
2. Copy the file to the `..\<CIMPLICITY Installation>\Data` directory.

Any global specifications that were configured in the CimEdit Global Configuration dialog box (such as Navigation, script selections, compatibility, and so forth.) are applied to CIMPLICITY v2022 global specifications.

If you did not save the file, global specifications are represented by default values. You can use the global dialog boxes to redo the configuration. See CimEdit Global Specifications.

What's New in CIMPLICITY 2022

The HMI/SCADA CIMPLICITY v2022 release includes the following new features and enhancements.

 **Note:** The on-premise version of Help is current as of the release date of CIMPLICITY 2022, for the most up-to-date Important Product Information, refer to the Online version, https://www.ge.com/digital/documentation/cimplicity/version2022/oxy_ex-2/ipi/topics/c_cimplicity_whats_new.html

Alarms

- **Alarm Counters**

You can now count/classify the alarms based on the resource at which they are generated. The **Enable Alarm Counters** check box is added to **Resource Definition** window to allow you to view total alarms, unacknowledged alarms, unreset alarms generated at a resource. This check box is disabled by default.

- **Enhanced Alarm Viewer**

- New Alarm Fields are added to AMV Control Properties that enable you to view the following columns in the Alarm Viewer Grid:

Field/Column	Description	Parameter for custom button
Ack User	The user who acknowledged the alarm.	%AckUser
Last Comment	The last comment entered for the alarm.	%LastCommentText

The above fields are only available from an AMV control in CimEdit. The fields are disabled by default. To enable them, select the **Ack User** and **Last Comment** check boxes in the **Fields** tab of AMV control object properties.

Note:

- You can sort the Alarm Viewer data based on the above fields.
 - You can use %AckUser or %LastCommentText as parameters to create custom buttons for Acknowledge User and Last Comment.
- You can now save and view performer's comments in Alarm Viewer.
- !** **Important:** You can save performer's comments in the Alarm Viewer of a CIMPLICITY Viewer node, only if you upgrade the viewer to 11.1 SIM 1 or higher.
- When you acknowledge/reset an alarm that has change approval configured as **Perform** or **Perform and Verify**, the comment entered by the performer is added to the **Last Comment** column in Alarm Viewer and to the **Comment History** of the alarm.
 - When you delete an alarm that has the **Last Comment** column configured, and **Store Alarm Comments** option enabled in the Alarm Properties for the project, the last comment of the alarm appears in the **Last Comment** column in Alarm Viewer and in the **Comment History** of the alarm the next time the point goes into an alarm state.
- Enhanced the Alarm Viewer to enable you to add a single comment to multiple alarms. You can now select multiple alarms in Alarm Viewer, and then select **Comments** to enter a comment for multiple alarms at once. The comment entered appears in the Last Comment column of the Alarm Viewer.

APIs

• Python Support

CIMPLICITY Event Manager now supports Python scripts. You can now create a Python script in CIMPLICITY and run the Python script in response to a system event. The Proficiency Code Editor enables you to create and edit the Python scripts. You can also use other editors such as VSCode with CIMPLICITY.

• Rest API

CIMPLICITY REST APIs are introduced to provide capabilities to access CIMPLICITY remotely through web interface(https), which enables you to build client applications on any OS, or browser-based client applications using the hypermedia provided by CIMPLICITY.

CimEdit/CimView

• Assign method result to a variable

In CimEdit, when you add an OLE control and select **Invoke Method** as the action type, you can assign the value of the method result to a variable. A new check box **Assign result to variable** is added in the **Edit Method** window to allow you to assign the value of the method result to a variable.

- **IsConfigured**

When IsConfigured function is used in an expression, the expression is considered as valid if the syntax of the expression is correct, irrespective of whether the points included in the IsConfigured function are configured or not. A valid expression is displayed with a green check mark in Expression View.

- **Command Line Argument**

A new command line argument **/new** is introduced to enable you to create new CimEdit \CimView instances. Multiple instances of CimEdit/CimView allow you to configure independent global scripts for each instance.

CIMPLICITY Options

Configure CIMPLICITY Help

The **Help** tab is introduced in the CIMPLICITY Option Dialog. This feature allows change the Help option select during the installation.

Support for Project Level Historian Connections

You can now add project level Historian connections in your project. The project level connections are saved in the project. Hence, when you move the project to a different node, you do not need to reconfigure the connections.

The **Historian Connections** tab is added to the **Project Properties** window to enable you to add project level Historian connections.

A project level connection is denoted with **P** and the computer level connection is denoted with **C**.

Installation

CIMPLICITY Help

You can now choose one of the following Help options during the installation:

- **Online Help (Internet):** To access the Help available online. All the help requests from the product are directed to the latest Online Help on GE website. The Online Help is always up-to-date with latest changes.
- **Local Help:** To install local help and use it with CIMPLICITY. This option enables you to can access the Help even if you are not connected to the Internet.

- Remote Help Server (Intranet): To access the Help available on other CIMPLICITY server.

A new **Help** tab is added to CIMPLICITY Options to enable you to change the Help option selected during the installation.

 **Note:** You cannot install local help on CIMPLICITY viewer.

Logging

Scan Rate

The Scan Rate field is added to COR_LOG table properties to enable you to specify the periodic rate at which you want to scan the Status Log file for added records.

Security

Project Level Security

CIMPLICITY supports project level security. That is, you can allow or disallow certain projects from running on a server. To enable this, you must add the projects that are allowed to run on the server to `AllowProjects.json` file located at `<Install_Location>\Proficy\Proficy\CIMPLICITY\admin_data`. The projects that are not included in the list are not allowed to run. Only an administrator has the permission to edit `AllowProjects.json`.

Fixed Defects in CIMPLICITY 2022

The following issue has been identified in CIMPLICITY v2022.

DE138491

Issue: Previously, if a screen was referenced in two locations, the screen path of the second screen was not displayed correctly in the navigation bar.

Resolution: This issue is now resolved. Now, when a screen is referenced in two locations, the screen paths are displayed correctly in the navigation bar.

US493575

Issue: Previously, when you downloaded a hardware configuration in PPS, the communication between CIMPLICITY and the PLC was lost, and the point values were not updated.

Resolution: This issue is not resolved. The points are now updated from the PLC, as expected.

US493573

Issue: Previously, when you shut down a PDS Port the device points created in other PDS ports would also become unavailable.

Resolution: This issue is resolved. When you shut down a PDS port the points of other PDS ports are not affected.

Known Issues in CIMPLICITY 2022

The following issues have been identified in CIMPLICITY v2022.

DE160167

Issue: To save the performer comments of an alarm on a CIMPLICITY client machine, you must upgrade the client to version 2022.

DE155485

Issue: When adding additional custom control from an assembly that controls have already been added from, the properties and methods for the additional controls are not included in the interface to the control.

Workaround: Change either IncludeBaseMembers or IncludeNewMembers flag to true based on your requirement. You must modify the flag in the GEIP.Orion.ComponentBuilder.config file located at <installation_location>\Proficy\Proficy CIMPLICITY\exe.

Issue: When **IncludeNewControls** flag is false, any new control that is added may appear on the UI, but it would not be functional.

Workaround: If you want to add a new control, you must ensure that IncludeNewControls flag is set to true in the GEIP.Orion.ComponentBuilder.config file located at <installation_location>\Proficy\Proficy CIMPLICITY\exe.

11.1 SIM Releases

Important Product Information of 11.1 SIM releases:

- [oxy_ex-1/topics/IPI_CIMPLICITY11.1_SIM2.pdf](#)
- [oxy_ex-1/topics/IPI_CIMPLICITY11.1_SIM1.pdf](#)