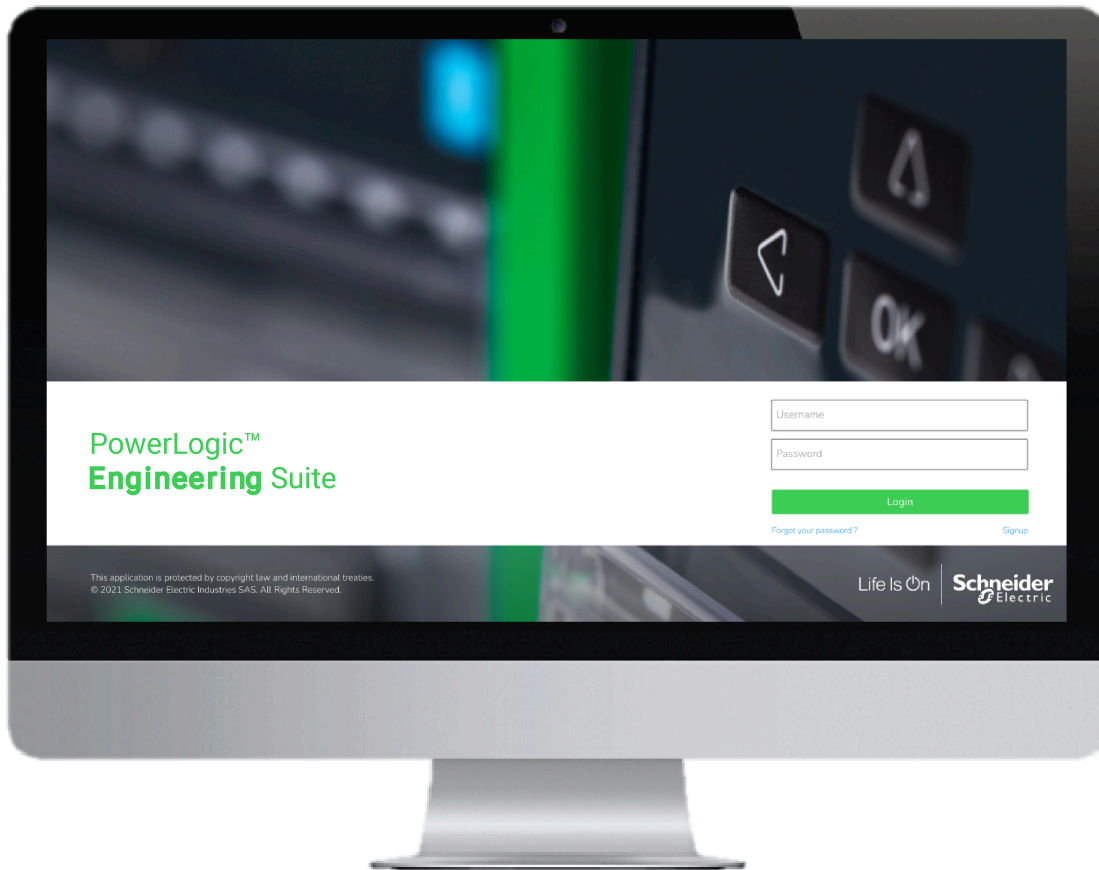


PowerLogic™ Engineering Suite

User manual

09/2024

Version: PLES/EN M/15A



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Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in death or serious injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚡ ⚠ DANGER
DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
Failure to follow these instructions will result in death or serious injury.

⚠ WARNING
WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ CAUTION
CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury, or equipment damage.
Failure to follow these instructions can result in injury or equipment damage.

NOTICE
NOTICE is used to address practices not related to physical injury.
Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety Precautions

During installation or use of this software, pay attention to all safety messages that occur in the software and that are included in the documentation. The following safety messages apply to this software in its entirety.

⚠ WARNING

LOSS OF PROTECTIVE FUNCTION DURING SETTING CHANGES

- Following a setting change, the relay could reboot and equipment protection is unavailable. Ensure all operators are outside the arc flash boundary during device reboot.
- Use appropriate personal protection equipment (PPE) while making setting changes within the arc flash boundary.
- Do not approach the equipment until the device reboot is complete.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not use the software and associated devices for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Do not use the software and associated devices to control remote equipment without proper access control and status feedback.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING

INACCURATE DATA RESULTS

- Do not incorrectly configure the software and its associated devices.
- Do not rely solely on software messages and reports to determine if the software and its associated device are functioning correctly or meeting all applicable standards and requirements.
- Do not use reports or data results as substitutes for proper workplace practices or equipment maintenance; they are supplemental only.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Overview

This manual offers a comprehensive introduction to the features of the PowerLogic™ Engineering Suite common functions across devices. It guides you through the installation process, provides a quick start introduction, and explains how to manage projects, sites, and devices. Additionally, it covers information on logging functions.

This manual does not cover device configuration. For detailed instructions on configuring your devices, refer to the corresponding device user manual or configuration guide.

Introduction

The PowerLogic™ Engineering Suite is organized around projects, containing sites, themselves containing devices.

Use the PowerLogic™ Engineering Suite to build a list of devices and organize them in the same manner as they physically exist in a system (collection of interconnected IEDs through communication networks). Create and upload setting parameters for each device and use the PowerLogic™ Engineering Suite to supervise the devices directly.

Purpose of this manual

This User Manual is intended for electrical power engineering experts, system integrators, experienced users, communication specialists, or other qualified personnel who are responsible for installing, configuring, maintaining, and using the PowerLogic™ Engineering Suite software.

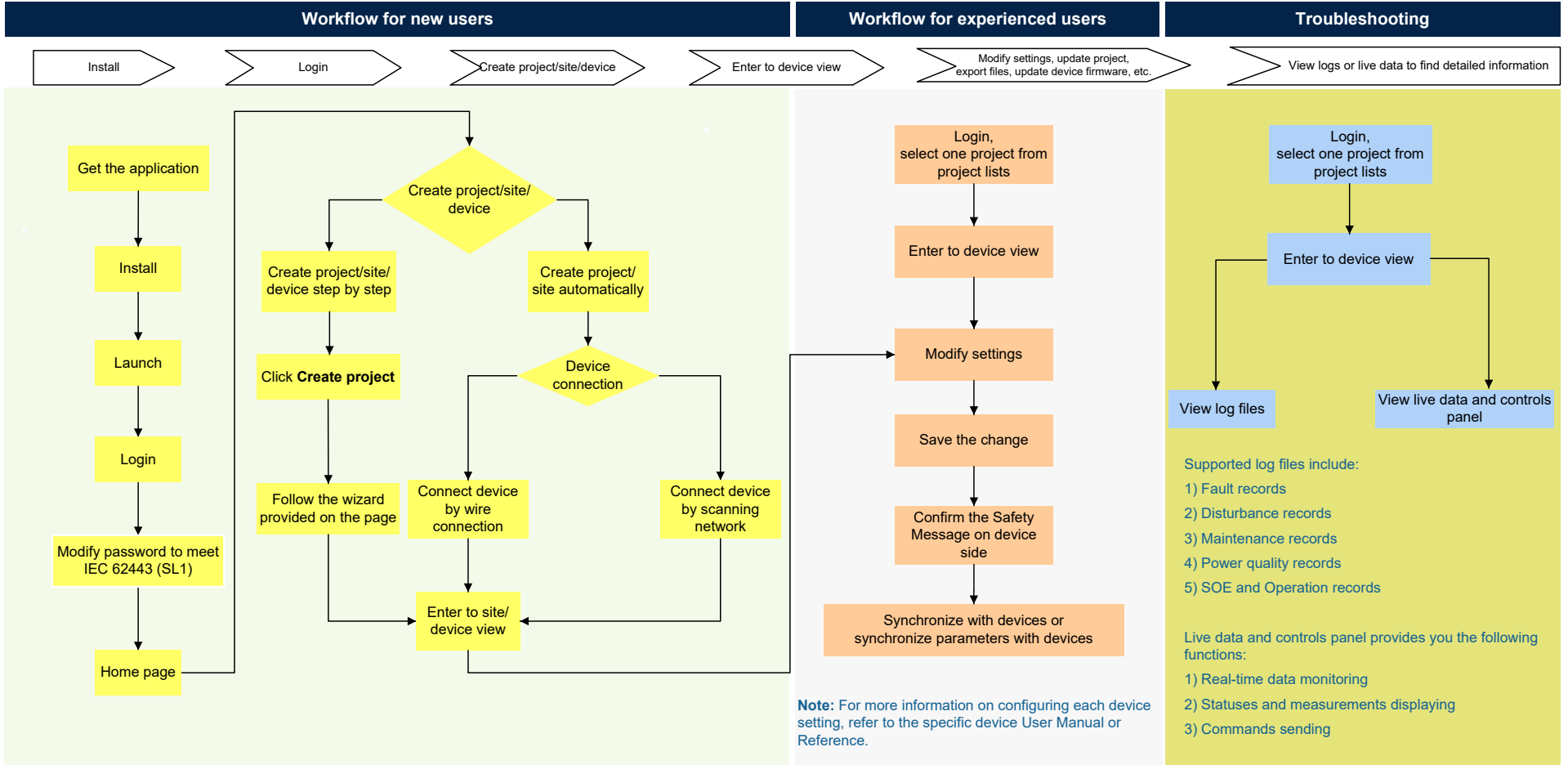
This manual is not a tutorial, it was created with the assumption that you have been trained in the use and configuration of PowerLogic™ Engineering Suite.

NOTE: This manual does not discuss the detailed settings configuration and safety precautions of supported devices. Refer to the specific device User Manual for detailed information.

Workflow

The following figure shows the main workflow for two types of users: new users and experienced users.

The workflow can help provide a quick reference before you use the PowerLogic™ Engineering Suite.



Supported devices

Use the PowerLogic™ Engineering Suite to configure the following devices:

- PowerLogic™ P7 protection and control devices
- PowerLogic™ P3X60 protection and control devices

NOTE: To get specific configuration instructions for the supported devices, refer to the user manual or configuration guide that comes with the device.

Software user manual version

This user manual pertains to PowerLogic™ Engineering Suite 2024 in the latest release.

Cybersecurity

This chapter contains information about PowerLogic™ Engineering Suite's cybersecurity. Network administrators, system integrators, and personnel that commission, operate, maintain, or decommission this application should review [Recommended actions, page 12](#) section to help secure your PowerLogic™ Engineering Suite in a protected environment.

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords to help prevent unauthorized access to device settings and information.
- Disable unused ports/services and default accounts, where possible, to minimize pathways for malicious attacks.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Use cybersecurity best practices (for example: least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Recommended actions

Your PowerLogic™ Engineering Suite is designed to be used in a protected environment that uses a defense in depth strategy, in compliance with IEC 62443, the global standard for industrial automation control system security.

To help secure PowerLogic™ Engineering Suite, you must take specific actions at every stage of the project life-cycle.

NOTE: The list of recommended actions below is not a complete list of possible cybersecurity measures. It is meant to be a starting point to improve the security of the PowerLogic™ Engineering Suite in a protected environment. Consult with cybersecurity experts to plan, configure, operate, maintain, and decommission your PowerLogic™ Engineering Suite based on your needs.

The following table lists the actions we recommend you take to help secure your PowerLogic™ Engineering Suite in a protected environment, organized by life-cycle stage:

Recommended action	Defense-in-depth role
Plan	
Review cybersecurity awareness, page 14	Resources to increase your cybersecurity knowledge and awareness.
Review the system defense in depth, page 14	Understand the security measures expected to be provided by the external environment in which the PowerLogic™ Engineering Suite is to be used.
Review the security capabilities of PowerLogic™ Engineering Suite, page 15	Understand how the PowerLogic™ Engineering Suite's security capabilities can be used in a protected environment.
Review the security risks and mitigation strategies, page 16	Known security risks and the mitigation strategies to help minimize the risks.
Configure	
Change the default password, page 16	Help reduce unauthorized access. Default account settings are often the source of unauthorized access by malicious users.

Recommended action	Defense-in-depth role
Limit user access, page 16	Limit user access to the minimum, least privilege level of access needed to perform their job functions. Revoke user privileges when no longer needed due to role change, transfer, or termination.
Create new user and password, page 17	Create strong passwords for each user that requires access to the PowerLogic™ Engineering Suite.
Disable a user, page 18	Revoke user privileges when no longer needed due to role change, transfer, or termination.
Disable unused protocols and change default port numbers	Disable unnecessary and unused communication protocols ports, such as SFTP and network ports, to reduce the product attack surface.
Operate	
Monitor operation logs, page 20	Monitor event logs for suspicious activity and to help identify the cause of cybersecurity breaches that could lead to a cybersecurity incident.
Report a cybersecurity incident or vulnerability, page 20	Report suspicious activity, a cybersecurity incident, or a vulnerability to Schneider Electric.
Maintain	
Application data backup, page 20	Periodically backup the application data as per your company's policies by using professional backup software.
Keep the PowerLogic™ Engineering Suite up to date	Keep your PowerLogic™ Engineering Suite up to date helps protect you from security vulnerabilities.
Review user accounts on a regular basis	Limit user access to the minimum, least privilege level of access needed to perform their job functions. Revoke user privileges when no longer needed due to role change, transfer, or termination.
Keep your network security up to date	Help reduce your attack surface, decreasing the likelihood of a vulnerability.
Perform security audits	Help verify the security status of your system.
Decommission	
Record decommissioning activities	Document disposal actions according to your company's policies and standards to keep a record of activities.
Decommission-related rules and records	Follow decommission tasks as described by your organization or contact your network administrator. Decommission network and security rules. For example, a firewall rule that could be used to get past the firewall.
Clean-up user's application artefacts	Help prevent the potential disclosure of data.
Wipe the application, page 21	Follow local disposal regulations.
Use a security tool to completely remove data, page 21	Help erase all the sensitive data from your hard drive.

Plan

Before you install your PowerLogic™ Engineering Suite, use the following planning information to help you prepare for the installation and commissioning of the PowerLogic™ Engineering Suite in your facility.

- Cybersecurity awareness, page 14
- System defense-in-depth, page 14
- Security capabilities of the PowerLogic™ Engineering Suite, page 15
- Security risks and mitigation strategies, page 16

Cybersecurity awareness

Knowledge is the first step to help prevent cyber intrusions. Review the following to increase your cybersecurity awareness:

- Cybersecurity Best Practices guide

Subscribe to Schneider Electric security notifications

Register for Schneider Electric security notifications on the Schneider Electric Cybersecurity Support Portal website.

System defense in depth

In the defense in depth approach, Schneider Electric is promoting cybersecurity capabilities for people, process and technologies.

Only user with the right level of privilege on underlying system can do administrative task, as a consequence hardening of the host machine is mandatory and recommendation are provided in the following user documentation.

This interface is accessible within the machine boundary.

ID	Layer name	Responsibilities to each layer of defense
L1	Layer 01: system hardening	Typical application usage within system context <ul style="list-style-type: none"> • Zone and Levels usage of the application
L2	Layer 02: Operating system hardening	Windows OS Hardening: <ul style="list-style-type: none"> • user account restriction • disabling unused services (protocols, ports, ...) • patch management For more details, refer to PowerLogic™ Engineering Suite Hardening Guide.
L3	Layer 03: Schneider Electric software integrity	Application package <ul style="list-style-type: none"> • Setup, executable and libraries are signed using Schneider Electric trusted certificate
L4	Layer 04: Schneider Electric software Hardening	Files and folders permission <ul style="list-style-type: none"> • Binary application folders with limited access permission (program files) • User's data folder with restricted access permission (program data) • Application upgrade for vulnerability fixing For more details, refer to PowerLogic™ Engineering Suite Hardening Guide.

NOTE:

- Each layer provides additional defense mechanisms
- Each layer may be compromised; therefore, secure design principles are applied to each layer
- The objective is to reduce the attack surface of the subsequent layers

Potential risks and compensating controls

Address potential risks using these compensating controls:

Area	Issue	Risk	Compensating controls
User accounts	Default account settings are often the source of unauthorized access by malicious users.	If you do not change the default password, unauthorized access can occur.	Change the default password to help reduce unauthorized access. See Change the default password, page 16 section.
Unsecured protocols	Not applicable	Not applicable	Not applicable

Security capabilities of PowerLogic™ Engineering Suite

The PowerLogic™ Engineering Suite includes security capabilities that, when combined with other defense-in-depth measures, can help reduce vulnerabilities.

Before you install the application, carefully review the following device security capabilities to understand how you can configure and securely use the product in a protected environment.

Secure area	Application security capabilities	Defense-in-depth role
Information confidentiality	The application is promoting standard secured protocol to communicate with the device, such as HTTPS, SSH.	Secure protocols employ cryptographic algorithms, key sizes, and mechanisms to help prevent unauthorized users from reading information in transit.
Access	<p>Least privilege in multiple dimensions: create, read, update and delete device configuration(s) and security management configuration.</p> <p>User account lockout limits the number of unsuccessful login attempts.</p> <p>Password strength feedback.</p> <p>Use control restricts allowed actions to the authorized use of the control system.</p> <p>Application administrator can override user authorizations by deleting user accounts.</p> <p>The parameter settings of the application are stored in protected files and folders with administrator rights privilege.</p>	These capabilities help enforce authorizations assigned to users, segregation of duties, and least privilege.
Machine hardening	<p>Least functionality.</p> <p>Unused protocols can be disabled to reduce the attack surface of the machine.</p> <p>Limit the number of consecutive failed login attempts.</p> <p>The default inactivity timeout is 15 minutes in PowerLogic™ Engineering Suite application. To unlock the session, you must enter the login credentials.</p>	These capabilities help prohibit and restrict the use of unnecessary functions, ports, protocols, and services.

Security risks and mitigation strategies

Address potential risks using these compensating controls:

Issue	Security risk	Mitigation strategies
User accounts Default account settings are often the source of unauthorized access by malicious users.	If you do not change the default password, unauthorized access can occur.	Application administration account must be changed following the first launch and login. Change the default password for the other users helps reduce unauthorized access.

Configure

This section contains detailed information on the following tasks:

- Limiting user access, page 16
- Changing the default password, page 16
- Creating new user and password, page 17
- Changing the password, page 17
- Disabling a user, page 18
- Enabling a user, page 18

Limiting user access

In addition to the secure machine access provided by the operating system's user management, PowerLogic™ Engineering Suite also limits access and usage of the application through Role-based Access Control (RBAC).

Role	Description
Operator	This role allows for the ability to see all information without being able to make changes to projects, devices, or configurations. Additionally, this role is able to connect to devices through network or USB, but is unable to change any parameters, only able to monitor data, use live data features, and access DR and Logs, etc.
Engineer	This role allows for the ability to execute all necessary actions to configure, commission, and test the device; however, it does not include the Installer role's capabilities.
Installer	This role allows for the ability to do all included firmware upgrades or downgrade.
Application administrator	This role is mainly used to create or manage the user's account within the application.

Changing the default password

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

Change default passwords to help prevent unauthorized access to device settings and information.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Default username and password is:

- username: ApplicationAdmin
- password: AAAAAAAA

The password must be changed during the first login, it is recommended to store password within a safety location.

It is also strongly recommended to keep “ApplicationAdmin” account as a safe backup account and create another “Administrator” account to be used when required.

To change the default password:

1. Open the PowerLogic™ Engineering Suite application.
2. Enter your username and default password for the first time, click **LOGIN**.
3. According to the system prompts, enter and confirm the new password.

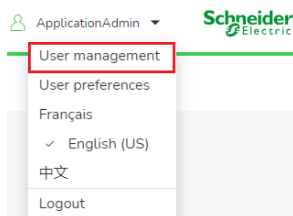
NOTE: A password must have at least 8 characters and contain at least one character from each of the following:

- uppercase letters
 - lowercase letters
 - numbers
 - special characters.
4. Click **Save**.

Creating new user and password

Only the Application administrator role can create a new user and password.

1. Open drop-down menu by selecting user identity.
2. Click **User management**.



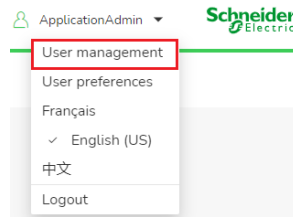
3. On the lower-left corner of **User management** interface, click **Add new user**.
4. In the **User Profile** area, complete all required fields and options.
5. In the **Authentication** area, enter the username, and then enter and confirm the password.
6. Click **Save All**.

Changing the password

Only the Application administrator role can change the password.

1. Open drop-down menu by selecting user identity.

2. Click **User management**.

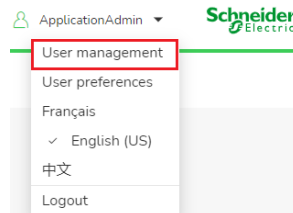



3. Select the required user from the user list on the **User management** interface.
4. In the **Authentication** area, enter and confirm the new password.
5. Click **Save All**.

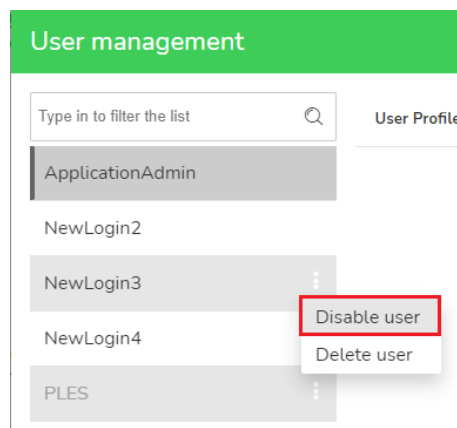
Disabling a user

Only the Application administrator role can disable a user.

1. Open drop-down menu by selecting user identity.
2. Click **User management**.



3. Select the required user from the user list on the **User management** interface.
4. Click the  icon on the right of selected username.
5. Select **Disable user**.

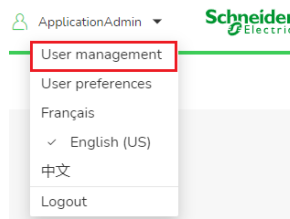



Enabling a user

Only the Application administrator role can enable a user.

1. Open drop-down menu by selecting user identity.

2. Click **User management**.

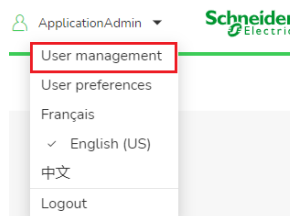



3. Select the required user from the user list on the **User management** interface.
4. Click the  icon on the right of selected username.
5. Select **Enable user**.

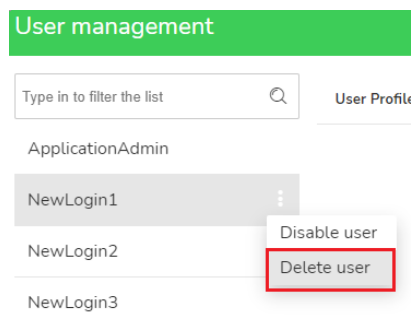
Deleting a user

Only the Application administrator role can delete a user.

1. Open drop-down menu by selecting user identity.
2. Click **User management**.



3. Select the required user from the user list on the **User management** interface.
4. Click the  icon on the right of selected username.
5. Select **Delete user**.



6. Click **Yes** to confirm your operation.
This user is removed from the user list.

Operate

Review the following recommended actions to operate the PowerLogic™ Engineering Suite in a protected environment:

- Monitor operation logs, page 20
- Report a security incident or vulnerability, page 20

Monitor operation logs

The PowerLogic™ Engineering Suite monitors the user's activity by using the log files.

Two kinds of log are continuously recorded during the user's activity:

- A technical log file is created during the first launch of the day to collect internal information sequence of processing
 - Storage location: C:\ProgramData\Schneider Electric\PowerLogic Engineering Suite\logs
- User's activity log files are created on daily basis and contain log for user's action on project artefacts
 - Storage location: C:\ProgramData\Schneider Electric\PowerLogic Engineering Suite\project-logs

Report a security incident or vulnerability

To report suspicious activity or a cybersecurity incident, go to the Schneider Electric Report an Incident website.

To report a security vulnerability affecting your product or solution, go to the Schneider Electric Report a Vulnerability website.

Maintain

This section contains information on the tasks you should perform periodically to help maintain the security of the PowerLogic™ Engineering Suite in a protected environment.

Application data backup

It is recommended to periodically backup the application data as per your company's policies by using professional backup software.

NOTE: The application data is stored in the default location C:\ProgramData\Schneider Electric\PowerLogic Engineering Suite.

The backup object including:

- Projects database of the application
- Security database of user management
- Device log artefacts

Accommodate the backup periodicity to the criticality of the data as per the device engineering stage, for example:

- Daily backup during device engineering
- Final backup following the device commissioning and sign off
- Backup following changes during operation

Upgrades and security configuration

Recommended action	Defense-in-depth strategy	Benefit
Maintenance: Upgrade and backup	Digitally signed software is used to help protect the authenticity of the application binaries.	This security capability helps protect the authenticity of the application running on user's machine.

Decommission

During decommissioning stage, the following operations are recommended.

Recommended action	Defense-in-depth strategy	Benefit
Decommission	<ul style="list-style-type: none"> Use Windows OS capability to uninstall the application. Purge application data created during usage by following Secure disposal of application, page 21 section. 	These capabilities help prevent the potential disclosure of data when the application is decommissioned.

NOTICE

UNINTENDED DATA LOSS OR LOSS OF SOFTWARE FUNCTION

- Only decommission PowerLogic™ Engineering Suite when it is no longer needed.
- Archive important data and files before decommissioning.

Failure to follow these instructions can result in irreversible damage to software.

Wipe the application

Wipe the PowerLogic™ Engineering Suite during the decommissioning to help prevent potential disclosure of data.

Prerequisites:

- Admin rights access privileges.
- Application is not in use.

To wipe the application:

- Uninstall the application from the operating system application management panel.
- Ensure that the application folder in “Program Files” is fully cleared.
- Delete the application data folder and its content (Program Data).

NOTE: For safety reason, it is recommended to use dedicated software to ensure the application data are completely deleted and cannot be recovered.

More information about the dedicated software mentioned above, refer to Use a security tool to completely remove data, page 21 section.

Use a security tool to completely remove data

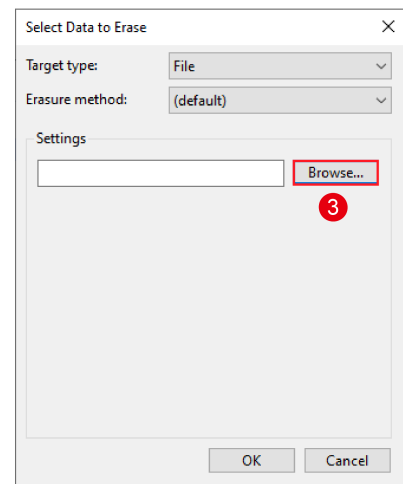
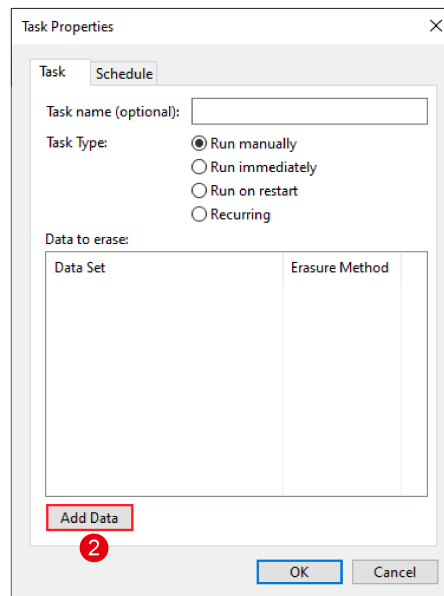
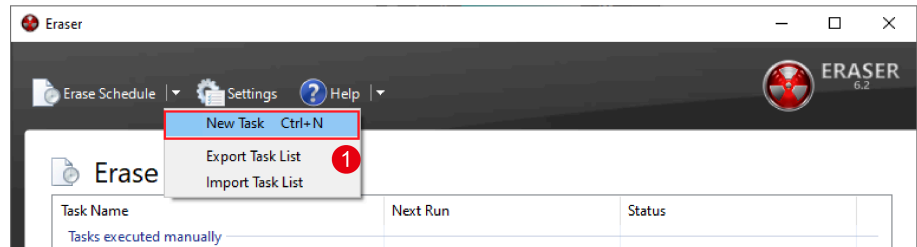
When you delete a file, the operating system does not really remove the file from the disk; it only removes the reference of the file from the file system table. The file remains on the disk until another file is created over it, and even after that, it might be possible to recover data by studying the magnetic fields on the disk platter surface. Before the file is overwritten, anyone can easily retrieve it with a disk maintenance or an undelete utility.

In view of the above-mentioned facts, we strongly recommend you use a security tool to wipe the data.

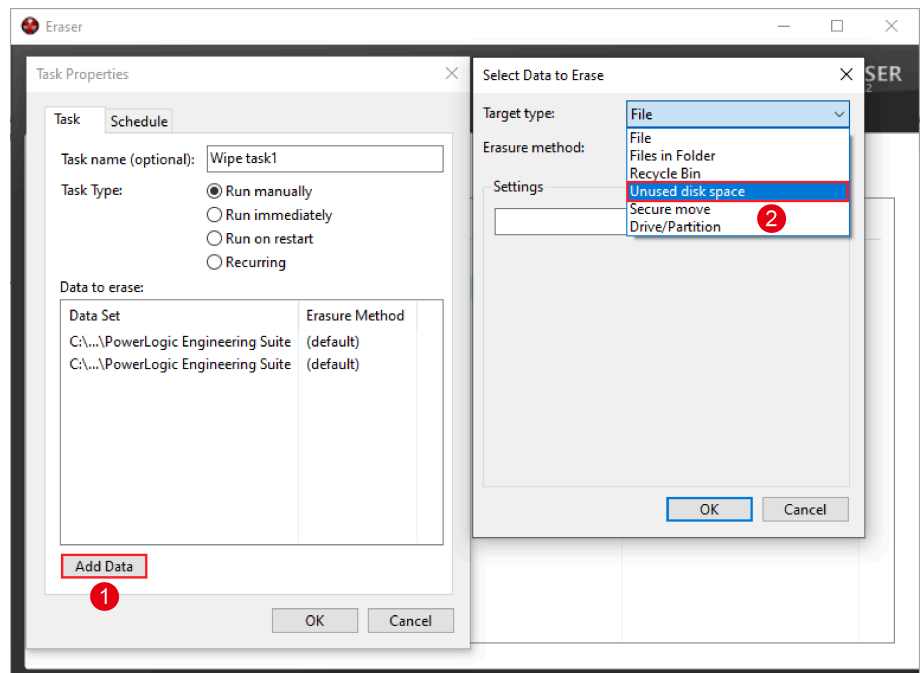
We recommend the use of "Eraser" (<https://eraser.heidi.ie/>). It is an advanced security tool for Windows which allows you to completely remove sensitive data from your hard drive by overwriting it several times with carefully selected patterns.

Wiping process:

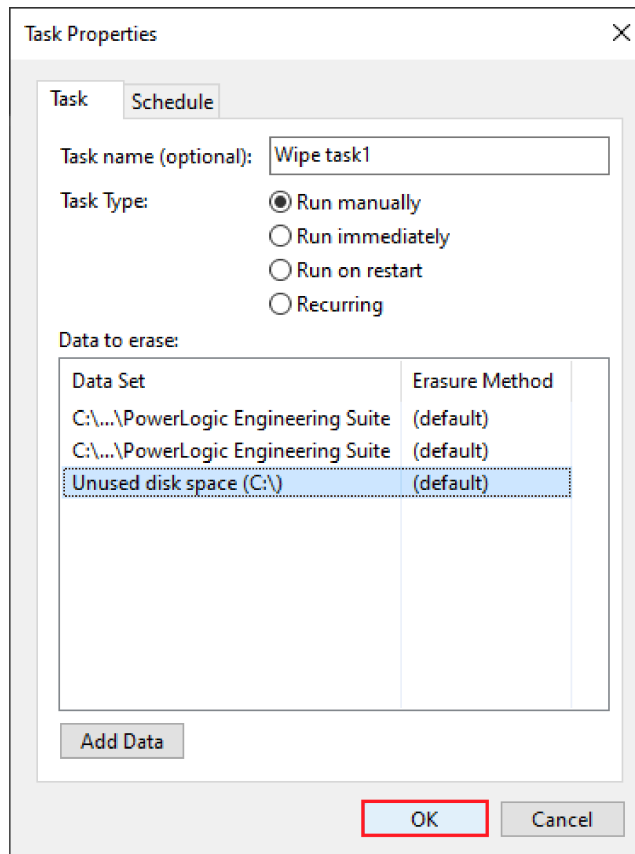
1. Access to the **DOWNLOAD** page to get the latest version of the tool: <https://eraser.heidi.ie/download/>
2. Follow the instructions from the Eraser tool (<https://eraser.heidi.ie/selecting-data-to-erase/>) to wipe the data from the following two folders:
 - Application folder: C:\Program Files\PowerLogic Engineering Suite
 - Configuration and communication driver folder: C:\ProgramData\Schneider Electric\PowerLogic Engineering Suite



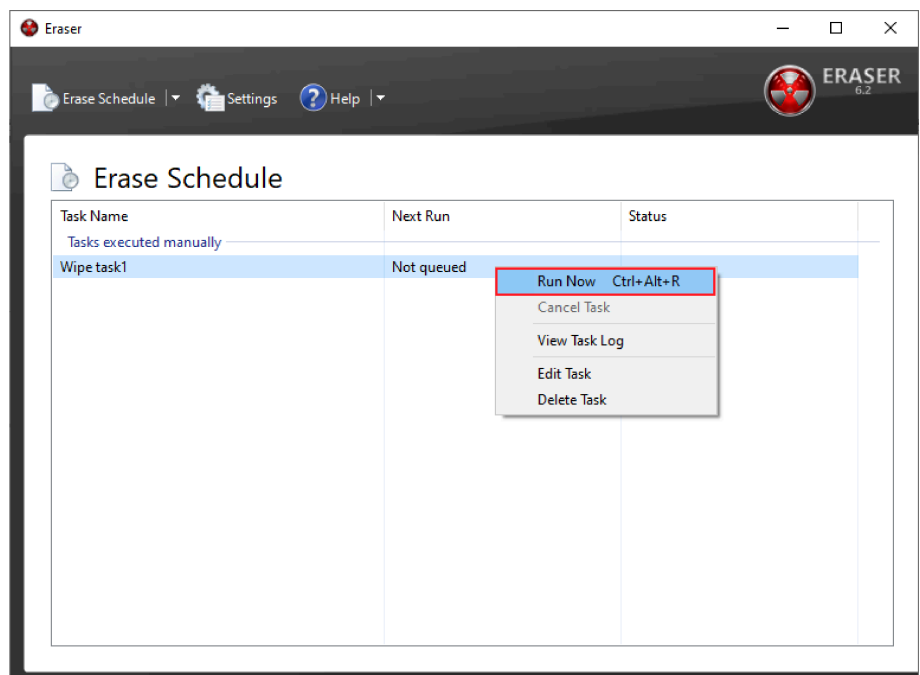
3. In addition to the two folders mentioned earlier, we also recommend you wipe the unused disk space.



4. Ensure you have selected all the desired files, click **OK**.



5. From the ask list, right-click the newly created task and select **Run Now**.



6. After the erase is complete, view the result in the **Status** column.
If it displays **Completed with Errors**, the erase was unsuccessful and you should determine the cause so as to ensure no privacy leaks occur. Once again, right-click on the affected task and select **View Task Log** until the erase is successful.

Hardening

Hardening is the process of configuring various settings to strengthen security on connected devices supported by PowerLogic™ Engineering Suite. It involves password management, access control and disabling all unnecessary protocols and services.

More information, refer to PowerLogic™ Engineering Suite Cybersecurity - Windows 10 Hardening Application Note (Document number: PLES HARDENING/EN AN/ZX.X¹).

Hardening PC based solution

Hardening for Windows Operating System is applied following these recommendations:

- follow security benchmark (CIS)
- define internal firewall rules
- define Services used
- use HIPS (Host Intrusion Prevention System) - Whitelisting
- use antivirus protection for engineering workstation only
- use hardening file system management
- remove remote management privileges
- apply systematic patch management
- apply methods of least privilege applied to applications and user accounts
- respect strong password management
- respect user account management
- removing unused / potential dangerous software
- security system monitoring

Hardening network infrastructure

Hardening applies to routers, firewalls, switches and other devices on the network.

Examples of the hardening activities, tools, and methods include:

- password management including encryption
- disabling of unused services
- access control
- patches, hot fixes, application updates
- strong authentication
- use of secure protocol (SSH V2, HTTPS)
- security system Log (Syslog)

Ethernet switch port access: A malicious user who has physical access to an unsecured port on a network switch could plug into the network behind the firewall to defeat its incoming filtering protection.

The following hardening methods can help to mitigate vulnerabilities:

- disable unused ports
- lock specific MAC addresses to specific ports on the ethernet switch

1. X means variable number along with this Application Note release

- lock specific IP addresses to specific ports on the ethernet switch

Password management guidelines

Passwords are often neglected in industrial control systems. Policies and procedures on password management are often inadequate or missing entirely.

The list proposes generic recommendations for Password management.

Password coverage	Recommendation
Password authentication	Enable password authentication, Ethernet interface modules, and embedded Web servers.
Default password	<p>Change all default passwords immediately after installation, including those for:</p> <ul style="list-style-type: none"> • User and application accounts on Windows, PowerLogic™ Engineering Suite, HMI and other systems. • Scripts & source code Network control equipment, devices with user accounts. • Grant passwords only to people who need access. Prohibit password sharing. • Require users and applications to change passwords regularly (and do not use the last N passwords) on a scheduled interval. • Remove employee access account when employment has terminated. • Require use of different passwords for different accounts, systems and applications. • Maintain a secure master list of administrator account passwords so that they can quickly be accessed in the event of an emergency. • Implement password management in a way that does not interfere with the ability of an operator to respond to an event such as an emergency shutdown. • Do not transmit passwords via e-mail or in any other way over the insecure Internet.

Install and upgrade

Use the information provided in this section to install or upgrade the PowerLogic™ Engineering Suite.

System requirements

System configuration	Minimum	Recommended
Operating system	Windows 10 Pro (64 bits)	Windows 10 Pro (64 bits)
Processor clock	1 GHz	> 1 GHz
Free storage	1 GB	2 GB
RAM	8 GB	16 GB
Screen resolution	1366 x 768 (HD)	1920 x 1080 (Full HD)

NOTE: macOS is not supported with the PowerLogic™ Engineering Suite.

Installing PowerLogic™ Engineering Suite

To install the PowerLogic™ Engineering Suite:

1. Double-click the **PowerLogic Engineering Suite Setup.exe** to open the installation screen.
2. Select the language option for your PowerLogic™ Engineering Suite.
3. Accept the End User License Agreement (EULA) and click **Next**.
4. On **Customer Information** page, enter your information and click **Next**.
5. Under **Device Support** node, select your desired device series and click **Next**.
6. Confirm the component to install and click **Next**.
7. (Optional) Confirm the installation of the device driver to connect the devices.
8. Wait the installation process.
9. When the installation is complete, a confirmation page will open. Click **Finish** to close the installation.

Installing digital certificate

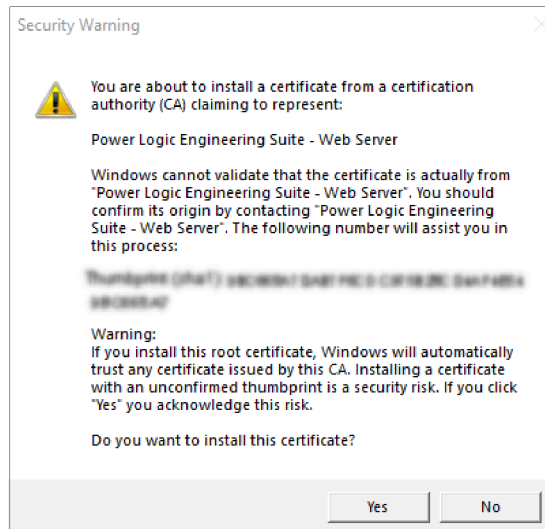
PowerLogic™ Engineering Suite uses client and server communication. To ensure the privacy and integrity of data transmission, and to prevent unauthorized access, loss, or theft, the PowerLogic™ Engineering Suite mandates the user's acceptance of Schneider Electric's digital certificates. The following digital certificates are required to be installed by Windows™ operating system:

- for "Cybersecurity Admin Expert - Web Server",
- for "Power Logic Engineering Suite - Web Server".

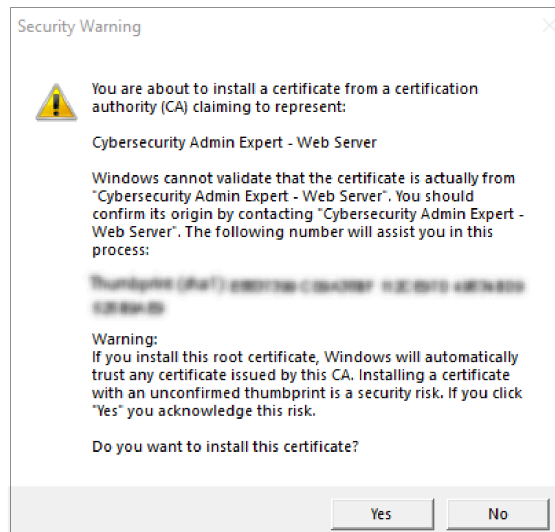
Prerequisite: You have installed the PowerLogic™ Engineering Suite and never launched it on your computer.

1. Launch the PowerLogic™ Engineering Suite application.

2. From the pop-up **Security Warning** page, click **Yes**.



3. Then from another pop-up **Security Warning** page, click **Yes**.



4. Close and restart the PowerLogic™ Engineering Suite for further operation.

NOTE:

- Click **No** to one of the two dialogs will block the launch of the application on the machine. Nevertheless, the next launch of the application allows to accept the digital certificate.
- Digital certificate approvals are valid for the login user only (Windows™ account).

Any user who registers on the same computer must follow previous procedures.

- Schneider Electric digital certificates are valid for one year.

After the expiration date, digital certificate will be automatically renewed, and the same procedure must be followed.

First login

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

Change default passwords to help prevent unauthorized access to device settings and information.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Cybersecurity policies that govern user accounts and access, such as least privilege and separation of duties, vary from site to site. Work with the facility IT System Administrator to ensure that user access adheres to the site-specific cybersecurity policies.

NOTICE

UNINTENDED OPERATION

- Follow operations and recommendations in the hardening guide to help secure the system.
- General procedures must be respected for nominal installations and operations.

Failure to follow these instructions can result in irreparable damage.

Application administration account must be changed after the first launch and login. The first time you log in, PowerLogic™ Engineering Suite will prompt you to change the default password.

Strong password criteria: A password must have at least 8 characters and contain at least one character from each of the following:

- uppercase letters
- lowercase letters
- numbers
- special characters.

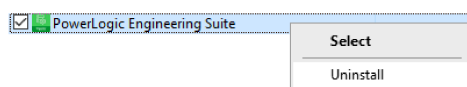
For more detailed information, refer to [Changing the default password](#), page 16 section.

Upgrading PowerLogic™ Engineering Suite

To stay up to date with the latest features, including cybersecurity updates, we recommend you upgrade to the latest version.

To upgrade the PowerLogic™ Engineering Suite:

1. In Windows **Control Panel** window, select **Uninstall a program**. The pop-up page displays all the programs installed in current computer.
2. Right-click **PowerLogic Engineering Suite** program, select **Uninstall** option from the pop-up menu.



3. When the uninstallation process is complete, you see a confirmation page. Click **Finish** to close the page.
4. Next, extract the latest installer program.

5. Double-click the **PowerLogic Engineering Suite Setup.exe** to open the installation screen.
6. Accept the license agreement and follow the pages of the installation, using the default settings where possible.
7. When installation is completed, a confirmation page opens. Click **Finish** to close the installation.

Getting started with PowerLogic™ Engineering Suite

This section introduces the overall layout and module descriptions of the home page to help you quick get started with PowerLogic™ Engineering Suite.

This section is organized by how to login the PowerLogic™ Engineering Suite, home menu, **Get started** panel, connect to a device by wire connection or the network, user preference setting and system localization setting.

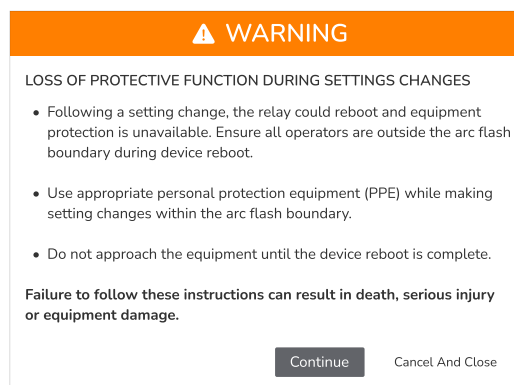
Use the information in the following table to find the content you are looking for:

Main modules:

Module	Description
PowerLogic™ Engineering Suite login and access, page 30	Provides information on how to login the PowerLogic™ Engineering Suite.
Home page and Home menu, page 31	Provides instructions for About page, Help page and Modules and License page.
Creating new project by wire connection, page 32	Provides two methods for wire connection: by local USB port or by Ethernet port.
Discovering networked devices, page 33	Provides specific procedures to explain how to discover networked devices.
Setting preferences, page 34	Provides optional preferences, such as: application theme, IEC 61850 display mode, inline guidance, primary value display, restricted parameter editing, device records folder.
System localization, page 38	Provides instructions for language support and preference setting.

PowerLogic™ Engineering Suite login and access

- In the Windows Start menu, select the program entry for the PowerLogic™ Engineering Suite.
The pop-up page displays a warning message.



- Click **Continue** to acknowledge the warning message and open the PowerLogic™ Engineering Suite.
Or click **Cancel and Close** to exit the application.
- From the login view, enter your username and password.

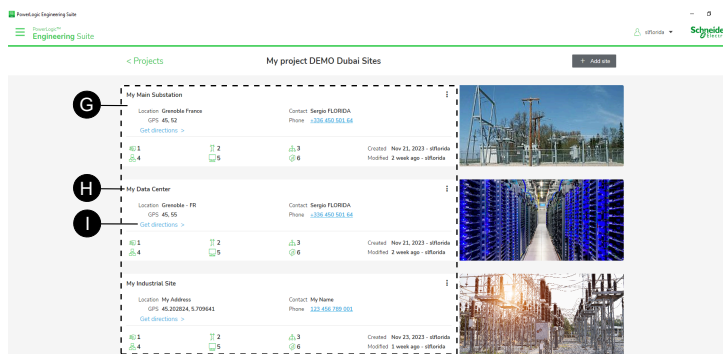
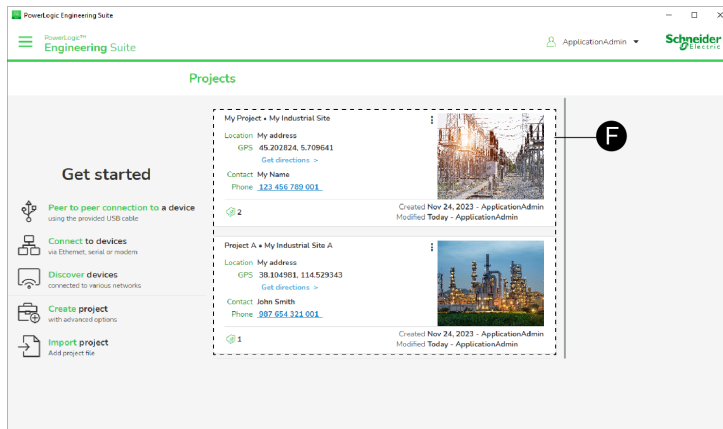
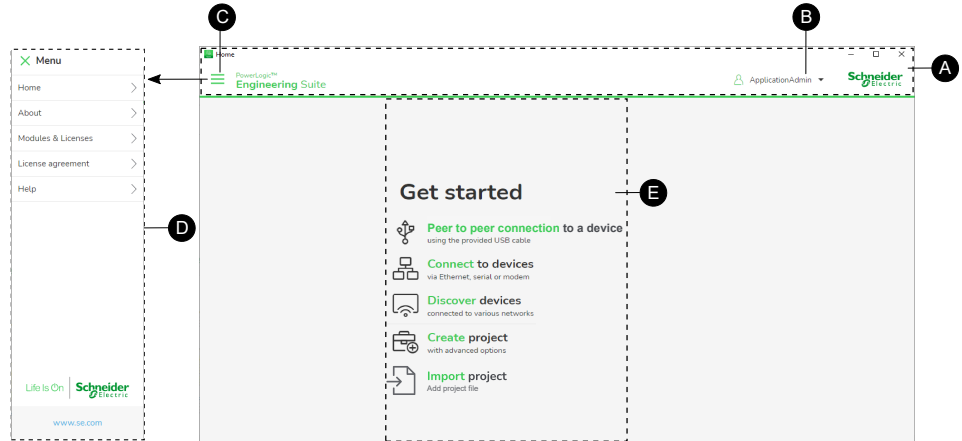
NOTE: If you have forgotten your password, seek the assistance from the Application Administration to help you reset the password.

- Click **LOGIN**.

NOTE: There is a timeout mechanism for PowerLogic™ Engineering Suite, the default inactivity timeout is 15 minutes. To unlock the session you must enter the login credentials.

The Home page and Home menu

The following figures show two examples of the Home page of the PowerLogic™ Engineering Suite user interface.



- A Main header bar** Provides the overview information and navigation function of the PowerLogic™ Engineering Suite.
- B User info menu** Provides the user with login information. You can change the display language and custom preference by selecting the drop-down menu.
- C Home icon** Provides the shortcut to the Home Menu.
- D Home menu** Provides the current software version, supported modules, licenses and online help of the PowerLogic™ Engineering Suite.
- E Get started panel** Allows to quickly configure a single device or multiple devices, and create a project entry.

F	Project list	Displays the list of projects created by the logged-in user.
G	Site list	Displays the list of sites if your project has created two or more sites.
H	Site name	Displays the specific site name you created.
I	Get site location from Google Maps	Opens the Google Maps window after you click Get directions .

About page

In **Home menu > About** page, you can find current application version.

Help page

The PDF version of PowerLogic™ Engineering Suite User Manual can be downloaded from **Home menu > Help** page, click **Open guide** to view the detailed information.

Modules and Licenses

Click **Home menu > Modules and Licenses**, you can find the following information:

- Current version number of the PowerLogic™ Engineering Suite Core
- Licenses

Click **Licenses** from the **Application Core** panel, check the licensing requirements of these applications before using them with PowerLogic™ Engineering Suite.

- Supported device name and version number
- Supported data model number of the devices

Click the Add icon + from the **Data Models** panel, import the required data model if you need.

Creating new project by wire connection

There are two methods for wire connection: by local USB port or by Ethernet port.

Connecting to a device by USB port

1. Plug the USB port to the front panel port of the device.
2. From the **Get started** panel of Home page, click **Plug in a device**.
3. Click **Connect**.

Authentication required window pops up after the PowerLogic™ Engineering Suite detects the connection.

4. Enter the username and the password.
5. Click **Authenticate**.

For initial setup, if you are using the default username and password on the connected device, check the **Cybersecurity** chapter of connected device User Manual for instructions.

6. Click **Create Project With The Device**.
After a few minutes, the workspace is created successfully.
7. Click **Open project**.

Connecting to a device by Ethernet port

1. From the **Get started** panel of the home page, click **Connect to devices**.
2. Select **Ethernet Network** from the drop-down list.
3. Select **Single Device**.
4. (Optional) Configure other options if you need.
5. Click **Connect**.
Authentication required window pops up after the PowerLogic™ Engineering Suite detects the connection.
6. Enter the username and the password.
7. Click **Authenticate**.
8. Click **Create Project With The Device**.
After a few minutes, the workspace is created successfully.
9. Click **Open project** when the process is complete.

Discovering networked devices

1. From the **Get started** panel of the Home page, click **Discover devices**.
2. Click **Scan** to search the devices.
3. **No device was found** information displays if no devices were found. Click **Scan again** to try again.
When the device is found, the name, device type, network type, IP address, details, and firmware version information are displayed in a single row.
4. Click **Connect**.
Authentication required window pops up after the PowerLogic™ Engineering Suite detects the connection.
5. Enter your username and the password.
6. Click **Authenticate**.
If the username and password are correct, a message displaying **Connection successful** along with the device name and product name appears.
If the username or password is incorrect, an error message will appear.
7. Click **Create Project With The Device**.
After a few minutes, the workspace is created successfully.
8. Click **Open project** when the process is complete.

Setting preference

User preferences page is used to tailor your device platform options and the PowerLogic™ Engineering Suite application options. To access **User preferences** page, click the drop-down menu of user identity. Options available to support as follows:

- Application theme
- IEC 61850 display mode
- Inline guidance
- Primary value display
- Restricted parameter editing
- Device records folder

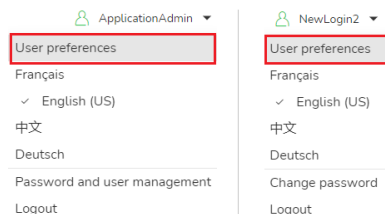
Application theme

PowerLogic™ Engineering Suite offers three themes to accommodate your preference.

Theme	Description
Auto	When you select Auto , the application will adjust to the settings on your computer.
Light	Light theme is selected by default during the initial installation.
Dark	When you select Dark , the application background turns black.

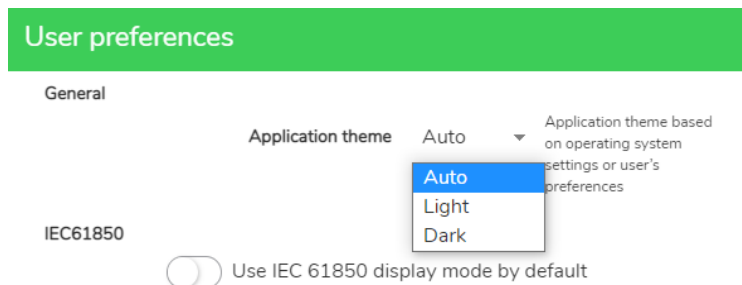
To set the application theme:

1. Open the drop-down menu by selecting user identity.
2. Click **User preferences**.



NOTE: The menu varies between the administrator role and other roles.

3. Under **General**, select **Auto**, **Light** or **Dark** from **Application theme** drop-down menu.

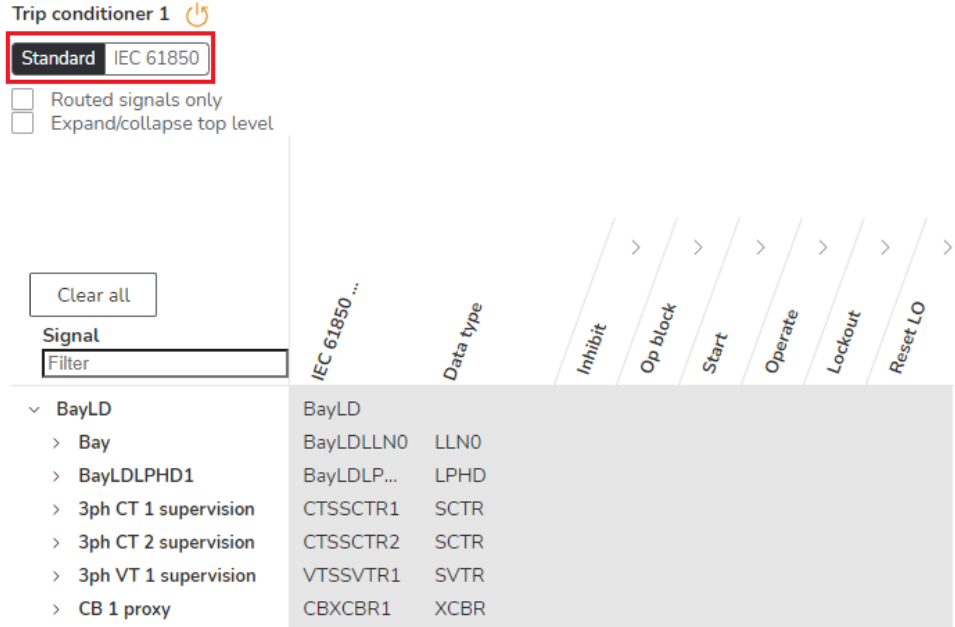


4. Click **Save** to apply the new setting.

IEC 61850 display mode

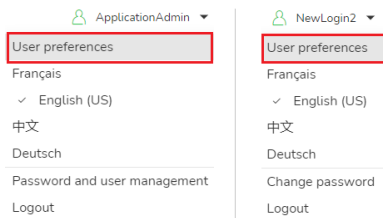
The routing matrices support two views.

- The **Standard** display mode (by default) shows a limited set of the most commonly used signals and inputs.
- The **IEC 61850** display mode shows the IEC 61850 signal name, data type, or any other relevant information.



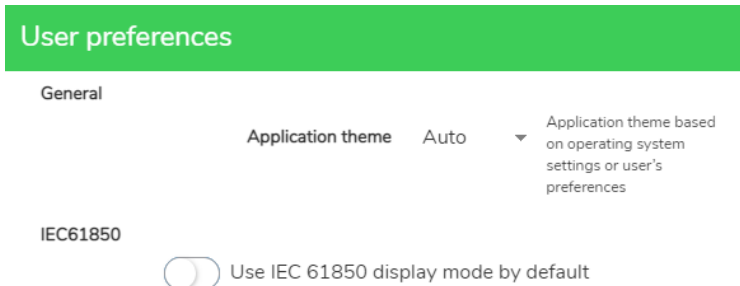
To set the IEC 61850 display mode:

1. Open the drop-down menu by selecting user identity.
2. Click **User preferences**.



NOTE: The menu varies between the administrator role and other roles.

3. Under **IEC 61850**, turn on **Use IEC 61850 display mode by default** to display the IEC 61850 view.

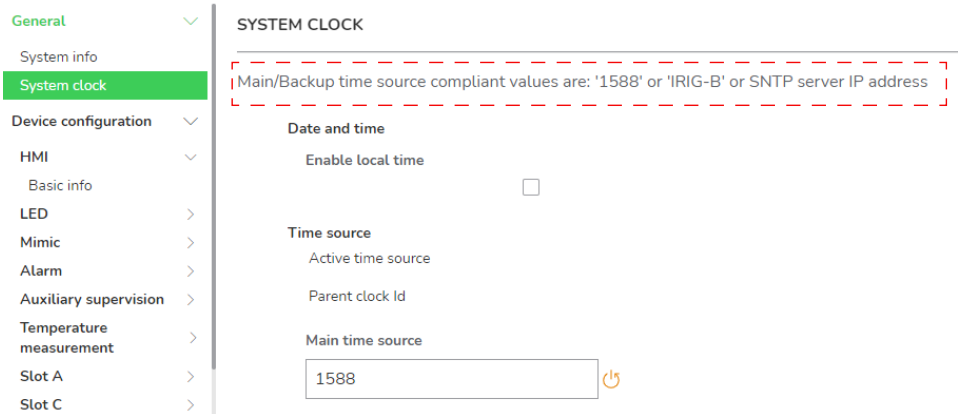


4. Click **Save** to apply the new settings.

Inline guidance display

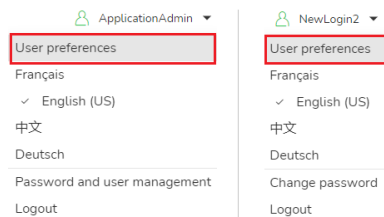
Inline guidance displays additional tips or contextual information in the Device view to help you understand the current operation page.

Here is an example to show the effect after enabling Inline guidance. When you disable Inline guidance, the help information surrounded by a red rectangle will be hidden.



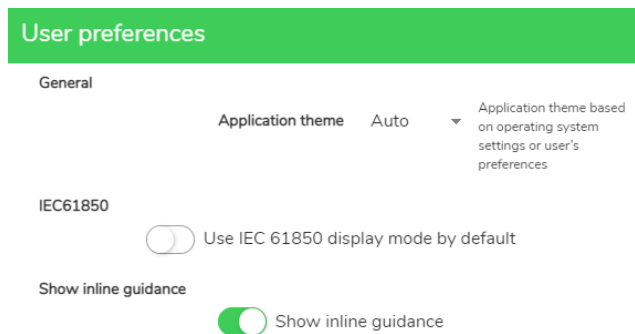
To enable inline guidance:

1. Open the drop-down menu by selecting user identity.
2. Click **User preferences**.



NOTE: The menu varies between the administrator role and other roles.

3. Under **Show inline guidance**, turn on **Show inline guidance** to display the inline guidance.

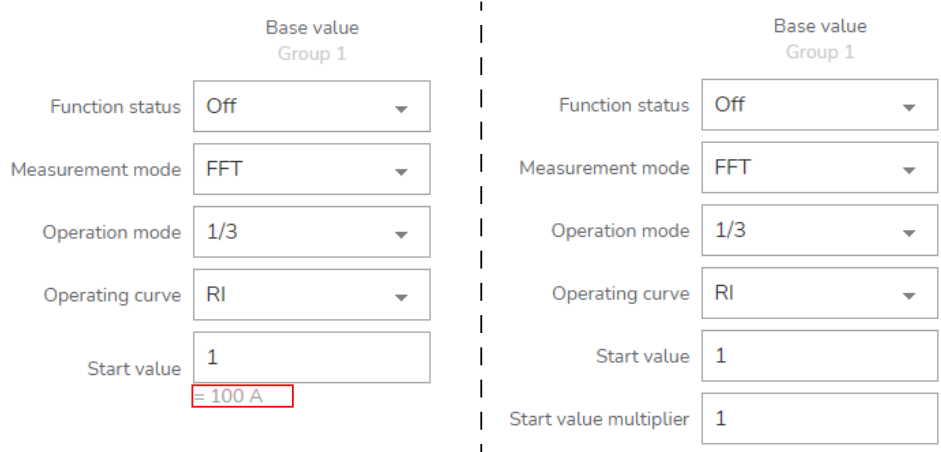


4. Click **Save** to apply the new setting.

Primary value display

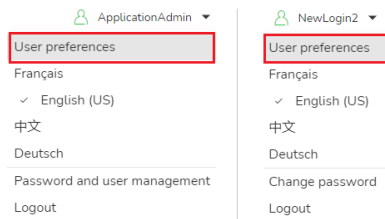
By default, the "per unit" value is displayed without any unit, when primary value is enabled, the value will be displayed using the appropriate multiplier and given unit.

The left half of the following figure shows the display when primary value mode is enabled, the right half of the following figure shows the primary value disappearing when this function is disabled.



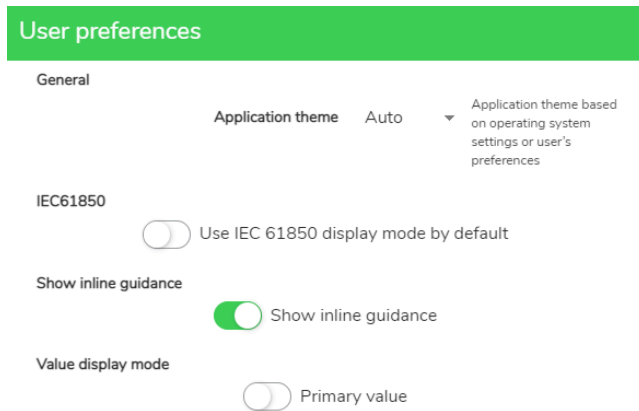
To display primary value:

1. Open the drop-down menu by selecting user identity.
2. Click **User preferences**.



NOTE: The menu varies between the administrator role and other roles.

3. Under **Value display mode**, turn on **Primary value** to display the primary value.

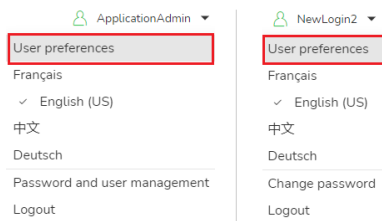


4. Click **Save** to apply the new setting.

Device records folder path

To set device records folder path:

1. Open the drop-down menu by selecting user identity.
2. Click **User preferences**.



NOTE: The menu varies between the administrator role and other roles.

3. Under **Device records folder**, click **Browse**.
4. Select the desired stored folder path.
5. Click **Save** to apply the new setting.

System localization setting

By default, the display language of the PowerLogic™ Engineering Suite is English.

To change the display language of the PowerLogic™ Engineering Suite:

1. Open the drop-down menu by selecting user identity.
2. Click your desired language option.

Working with projects

This section provides information on creating a project, editing a project, deleting a project and working with projects in PowerLogic™ Engineering Suite.

What is a project

The PowerLogic™ Engineering Suite manages all the components and data associated with a site in relation to the project. A project contains at least one site. Sites, topology, devices, settings values, communication settings and process data are grouped together and saved in a project.

Project management

Through the project list on the Home page, you can quickly find the target project by the unique project name.

To create a project, page 39, click **Create project** from **Get started** panel on the Home page.

To edit a project, page 43 or delete a project, page 44, click the Project menu icon .

Creating a project

This section describes the procedures of creating a project, how to add devices with different options and how to manage the project information.

1. From the **Get started** panel of Home page, click **Create project**.

2. **General information** page, enter the information for your new project and site:

- a. In **Project information** column, enter the project name and description.

Item	Supported character	Minimum number of characters	Maximum number of characters
Project name	UTF-8 ² and Unicode ³ characters	1	64
Description for project	UTF-8 and Unicode characters	0	256

NOTE: Avoid starting with a space.

- b. In **Site information** column, enter the site name, description, contact and location.

Item	Supported character	Minimum number of characters	Maximum number of characters
Site name	UTF-8 and Unicode characters	1	64
Description for site	UTF-8 and Unicode characters	0	256

NOTE: Avoid starting with a space.

It is recommended to fill out all of the fields. After creating a project, the location, GPS coordinates (latitude and longitude), contact and phone information will appear on Home page.

The image shows a 'Site Information' form with the following fields: Name (My Industrial Site A), Description (Substation of 138KV/25MW), Contact (Name: John Smith, Phone: 907654321001, E-mail: JohnSmith@google.com), and Location (Address: My address, GPS latitude: 38.104981, GPS longitude: 114.529343). A red arrow points from the form to a preview window titled 'Project A - My Industrial Site A'. The preview displays the location, GPS coordinates (38.104981, 114.529343), contact information (John Smith, 907.654.321.001), and a picture of a city skyline. The preview also shows 'Created Nov 24, 2023 - ApplicationAdmin' and 'Modified Today - ApplicationAdmin'.

- c. In the **Picture** column, select a picture for the main site.
d. Click **Next**.

NOTE:

- Red star * indicates the field is mandatory to fill in.
- You can create additional sites after setting up the project and the site.

3. **Add devices to the project** page, select one of the following options and click **Next**.

- Choose from catalog, page 41
- Import from files, page 41

4. Enter the device name, description, IP address, Subnet mask.

NOTE:

- Forbidden characters for the device name: " < > | : * ? \ /
- Unique device name within a project
- Avoid starting with a dot or a space

5. **Summary** page, click **Create**.


2. UTF-8 is a versatile character encoding standard that allows computers to handle text from a wide range of languages. Its flexibility and compatibility have made it the preferred choice for most modern applications.
3. Unicode is a universal character encoding standard that allows computers to represent text characters from virtually all writing systems in the world. This includes alphabets, syllabaries, ideographs, and symbols.

6. Click **Open project**.

Adding devices from catalog

1. Open **Create project** dialog.
2. In the **Devices** step, click **Choose from catalog**.
Add devices dialog displays the types of devices to be selected.

Browsing the catalog

1. Select a device series in **Add devices** dialog.
2. Click device type.
3. Select a device in the **Catalog** section and click **Add**.
The device displays in the **Devices to add** column.
4. Enter the number of the selected device.
To remove added devices, click the Delete icon .
5. Click **Add devices** to finish adding the device model.

Filtering devices

You can enter keywords in the search box to filter device model you need. If the device model is supported in the current version, the filtered device will be listed in the **Catalog** section.

Adding custom devices

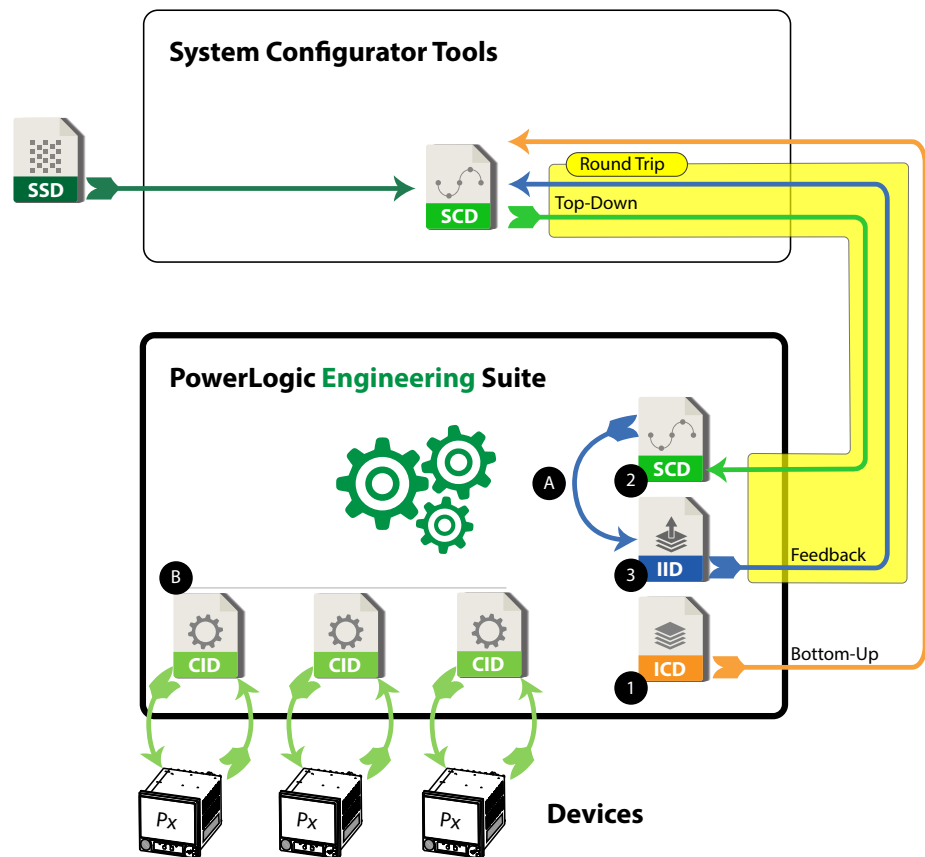
1. Click device type in the **Custom** section.
The **Create custom device** dialog appears.
2. Select the device information in the **GENERAL**, **HARDWARE** and **FIRMWARE** sections.
The order code changes according to the device information.
The hardware summary lists the number of the hardware modules.
NOTE: If you have the specific order code of the device, copy all the characters in a .txt document, then click **Paste from clipboard**, the order code will be generated below the **ORDER CODE** area.
3. Click **Create** to confirm or **Cancel** to exit.
The newly customized device appears in the **Devices to add** section.
4. Click **Add devices** to finish adding custom devices.

Importing files

1. Open **Create project** dialog box.
2. In the **Devices** step, click **Import from files**.
3. From the pop-up **Import devices** dialog box, select the type of files you want to import.

IEC 61850 files

The figure below displays the IEC 61850 workflow in PowerLogic™ Engineering Suite.



- 1 PowerLogic™ Engineering Suite can export all IED Capability Description (ICD) files to the Bottom-Up workflow.
- 2 Import the PowerLogic™ Engineering Suite using the System Configuration Description (SCD) file exported from system configuration tool.
- 3 After importing the SCD files, it is important to export all the Instantiated IED Description (IID) files back to the system configuration tool to obtain the unique identifier for each device and to establish a connection between them. This step is mandatory to create the "round trip" process.
- A The procedure for importing SCD files into PowerLogic™ Engineering Suite and then exporting IID files back to the system configuration tool.
- B PowerLogic™ Engineering Suite can send or receive Configured IED Description (CID) files from supported devices.

To import IEC 61850 files:


1. Select the **IEC 61850 files**.
The right column displays the drop area.
2. Click **Browse** to select an SCL (System Configuration description Language) file or drag the SCL file directly to the right column.
The imported SCL file appears at the top of the right column.
The electrical topology, network topology and all devices are displayed in a list.
3. Click **Import**.

NOTE: For the current release, the SCL file is limited to the SCD (System Configuration Description) file only.


IED files

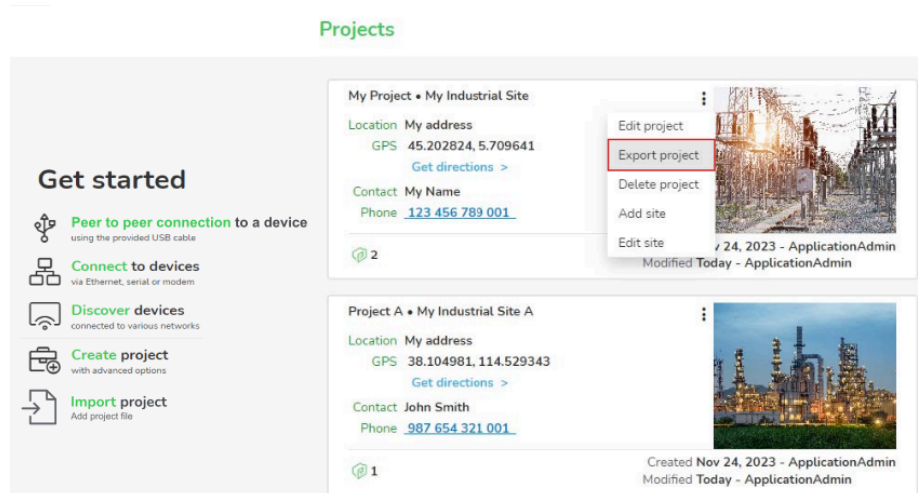
1. Select the **IED files**.
2. Click **Browse** to select archive files with device and settings directly to the right column.
The imported file appears at the top of the right column.
The electrical topology, network topology and all devices are displayed in a list.
3. Click **Import**.

Editing a project

1. From the project list on the Home page, click the Project menu icon .
2. Select **Edit project**.
3. In the **General information** step, edit the project name and description in the **Project information** column.
4. Click **Save**.

Exporting a project

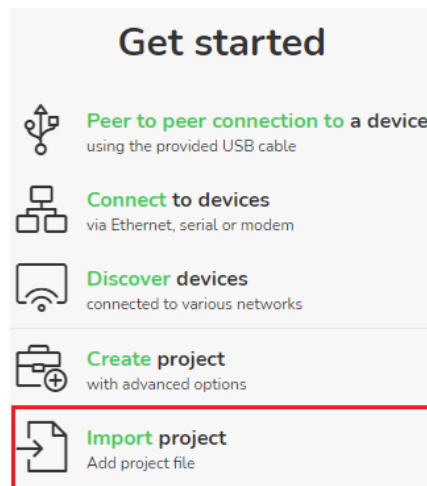
1. From the project list on the Home page, click the Project menu icon .
2. Select **Export project**.




3. (Optional) Enter the export description information.
4. Click **Browse** to select the desired folder path for the exported project file.
5. Click **Next**.
After a few seconds, the **Export project** page appears with asset information.
6. After confirmation, click **Export project**.
Your project file (ZIP) is located in the directory path.


Importing a project

1. From the **Get started** panel of Home page, click **Import project**.



2. On the **Import project** page, click **Browse** to upload the project file.
The project information appears to the right of the current page, along with the assets.
3. Click **Import**.
4. On the **Import project** page, click **Next**.
After a few seconds, the project import process is complete and **Project created** is displayed on the page.
5. Click **Open Project**.
6. (Optional) Click the site menu icon  to edit this site.
7. (Optional) Click **Add site** to add other sites.
8. Click **Projects** to return to the Home page.

Deleting a project

1. From the project list on the Home page, click the Project menu icon .
2. Select **Delete project**.
3. In the confirmation dialog, click **Delete** to confirm deleting the project with all assigned sites and devices, or **Cancel** to exit.

Working with sites

This section provides information on adding a site to an existing project, editing a site, deleting a site, visualizing the list of devices with three topologies view and working with sites in PowerLogic™ Engineering Suite.

What is a site

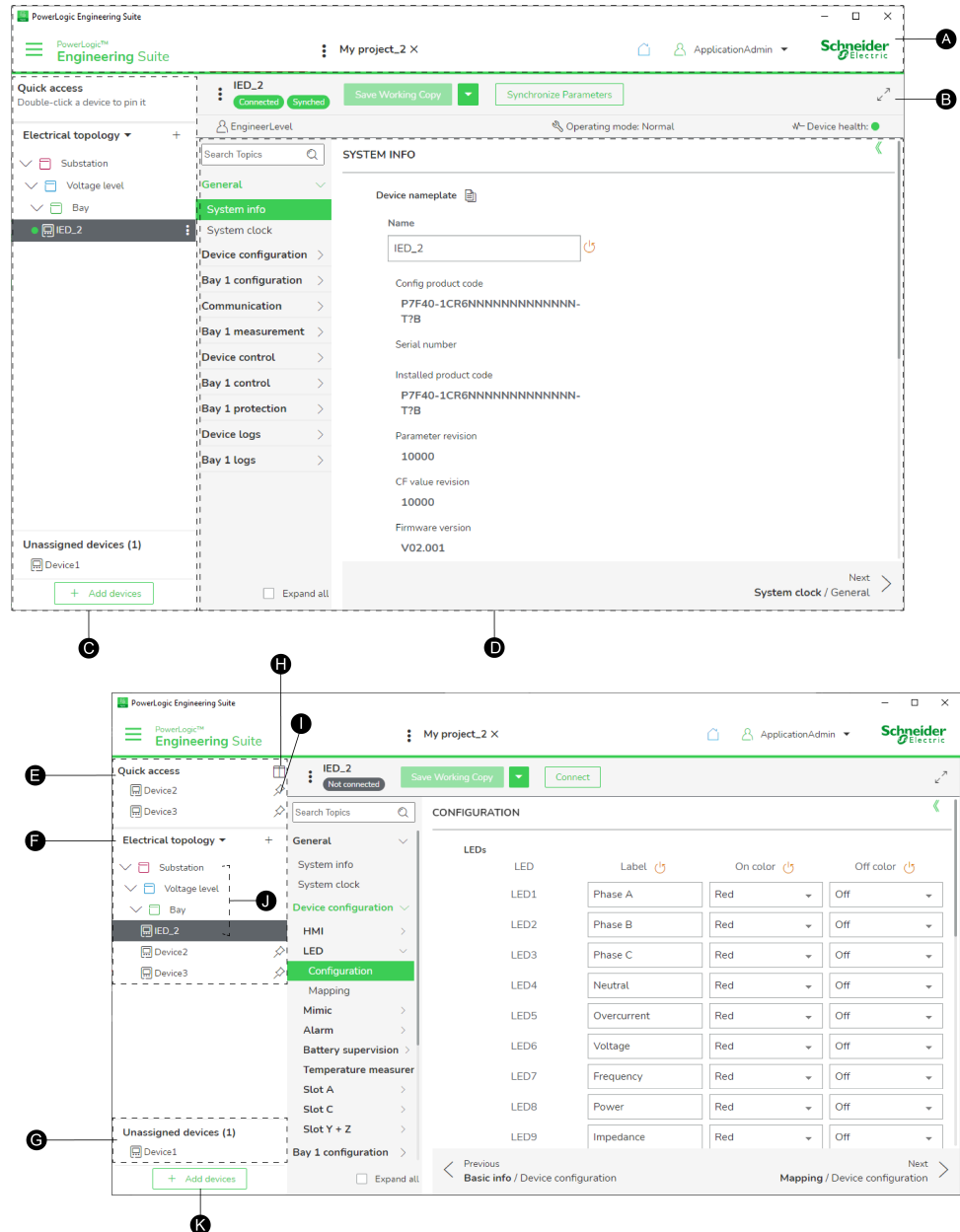
A site refers to a geographical subdivision within a project. Most projects have only one site, larger projects have multiple sites.

Site view

The Site view is the central view in the PowerLogic™ Engineering Suite. You can use the Site view to manage the components and all the data. For a large project, you can create and manage multiple sites separately.

Overall layout and navigation

The following figures show examples of the components in the Site view of the PowerLogic™ Engineering Suite user interface:



- A **Main header bar** Provides the overview information and the navigation function of the PowerLogic™ Engineering Suite (project name, the current working site, the project menu and the login username, etc.).
- B **Device header bar** Provides the device information, status, version and the device menu.
- C **Diverse device display panel** Displays the hierarchy of all the devices within the site in various or customizable arrangements.
- D **Device view** Provides the device configuration and settings.
- E **Quick access bar** Provides the list of devices that are pinned explicitly or in editing.
- F **Topology bar** Provides a selection function for the topology tree.
- G **Unassigned devices bar** Provides a list of devices that are excluded from the current topology.
- H **Split icon** Provides the ability to view devices side by side.
- I **Pin icon** Provides the ability to pin and unpin the devices of interest.
- J **Topological item** Provides the hierarchy of the topology (for example, in the **Electrical topology**, substation, voltage level and bay are topological items).
- K **Add icon** Provides the ability to add elements depending on the current topology and the selected Topological item.

Switching between sites

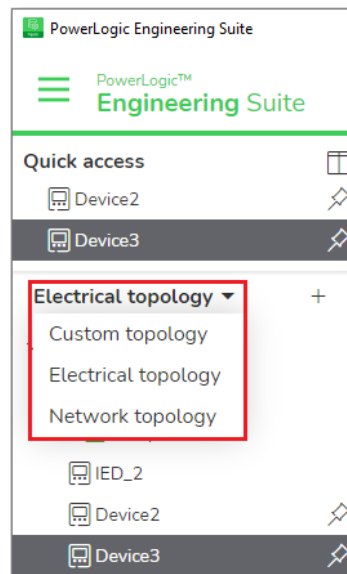
NOTE: Only available when more than one site is created or in use.

1. In the Main header bar, click the Site drop-down menu.
2. Select a site.

The **Electrical topology** of the site appears in the Site-level navigation panel and the highlighted topological item appears in the Device view.

Site topologies

Each site organizes its devices into three topologies: **Electrical topology**, **Network topology** (with imported SCD only), and **Custom topology**.



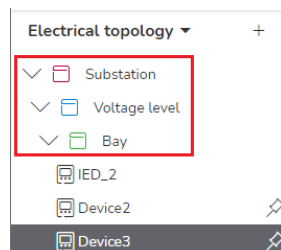
Switching between topologies

1. In the Site-level navigation panel, click the Topology drop-down menu.
2. Select one topology.

The selected topology appears in the Topology bar.

Electrical topology

The Electrical topology view complies with an ordered hierarchy, the first level is the Substation, followed by Voltage level and Bay level. You can add a device to any of these levels.



To manually set an electrical topology:

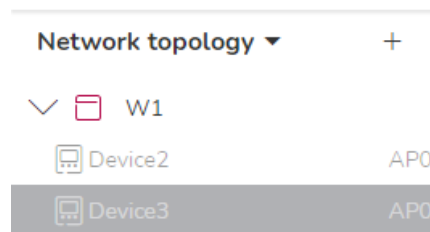
1. Switch to the **Electrical topology**.
2. To create a substation, click the Add icon + .

3. Select **Substation**.
4. On the right side of the Substation interface, type a name for the newly added substation.
5. To create a voltage level, select the required substations that needed to be associated.
6. Click the Add icon **+**, and then select **Voltage level**.
7. On the right side of the Voltage level interface, type a name for the newly added voltage level.
8. To create a bay level, select the desired voltage to be associated.
9. Click the Add icon **+**, and then select **Bay**.
10. On the right side of Bay level interface, type a name for the newly added bay level.
11. To create a device at any level, select the desired level to be associated.
12. Click the Add icon **+**, and then select **Devices**.
13. On the **Add devices to the project** page, select an option as needed.

NOTE: You can drag and drop a device to any level of the topology items if you need.

Network topology

The network topology is used to organize the devices that follow the IT network, essentially determining how the devices are connected to the data network.

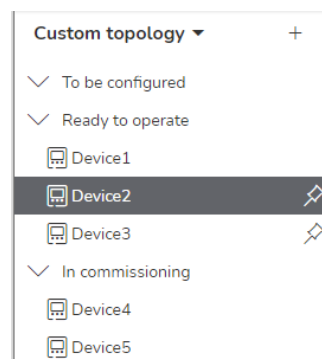


To manually set a network topology:

1. Switch to the **Network topology**.
2. Click the Add icon **+** and select **Devices**.
3. On the **Add devices to the project** page, click an option as needed.

Custom topology

Unlike electrical topology and network topology, custom topology has no predefined structures, you can set free form structures as necessary.



To add a custom folder:

1. Switch to the **Custom topology**.

2. Click the Add icon + and select **Folder**.
3. On the right side of the custom folder interface, type a name for the newly added folder.

To add a device:

1. Switch to the **Custom topology**.
2. Click the Add icon + and select **Devices**.
3. On the **Add devices to the project** page, select an option as needed.

NOTE: You can drag and drop a folder or a device into any hierarchy as needed.

Unassigned devices

Unassigned devices are devices that do not have a specific hierarchy in the topology locating in the Unassigned devices bar.

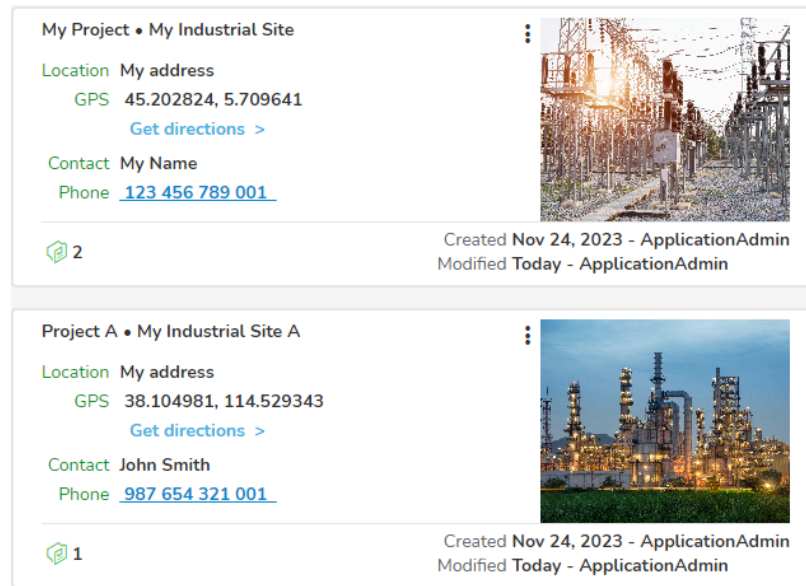
To pin unassigned devices to the Quick access bar, double-click the device in the Unassigned devices bar.

To move unassigned devices to a topological item:

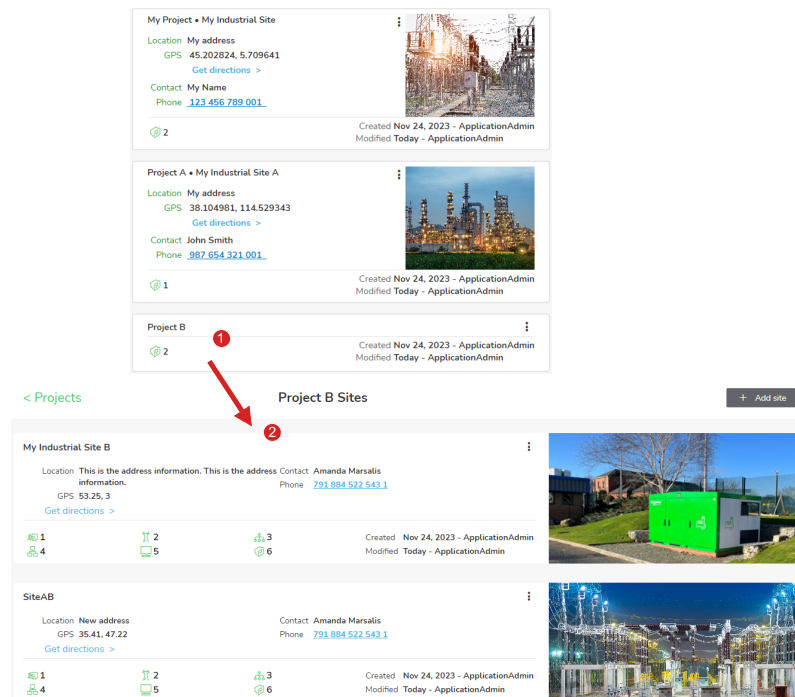
1. Select a device in the Unassigned devices bar.
2. Drag and drop the device to a topological item.
The device appears in the topological item.

Site management

For a project with only one site, you can see the site name directly in the project list. The display principle is {Project name} • {Site name}.



For a project with two or more sites, only the project name appears in the project list. You can see the specific site names by clicking the project entry (1) and then navigating to the secondary page (2) as shown below.




To add a site to an existing project, click the Project menu icon ⋮.

To edit a site:

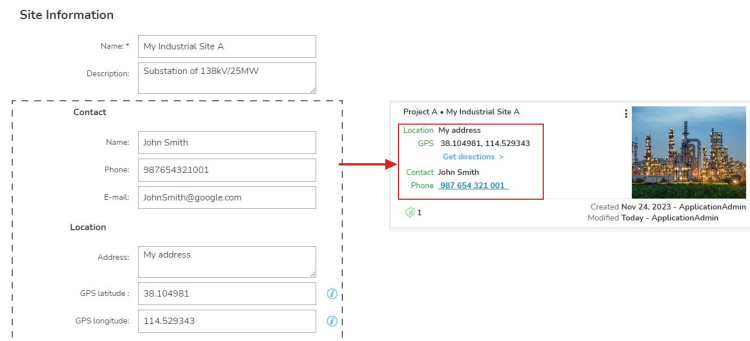
- If the project with only one site, click the Project menu icon ⋮.
- If the project with two or more sites, navigate to the secondary page of the project and then click the Site menu icon ⋮.

To delete a site, navigate to the secondary page of the project and then click the Site menu icon ⋮.

Adding a site to an existing project

1. From the project list in the Home page, click Project menu icon .
2. Select **Add site**.
3. **Create site** dialog pops up with the steps to finalize the creation.
4. **Site information** step lists the information to be entered for the new site.
 - Enter the name, description, contact and location in **Site information** column.

It is recommended to fill out all of the fields. After creating a site, the location, GPS coordinates (latitude and longitude), contact and phone information will appear on page.



The image shows two parts of the site creation process. On the left is the 'Site Information' form with the following fields: Name (My Industrial Site A), Description (Substation of 138kV/25MW), Contact Name (John Smith), Phone (987654321001), E-mail (JohnSmith@google.com), Location Address (My address), GPS latitude (38.104981), and GPS longitude (114.529343). On the right is a preview card for 'Project A - My Industrial Site A' which displays the location, GPS coordinates, contact name, and phone number, along with a picture of an industrial site. A red arrow points from the form to the preview card.


- Select a picture for the site in the **Picture** column.
 - Click **Next**.
5. **Devices** step displays the options of adding devices to the site. For more information, refer to [Adding devices from catalog](#), page 41 and [Importing files](#), page 41 sections.
 6. **Summary** step lists the site information and devices to be added.
 - Click **Create**.

Creation steps with progress information display in the right column.


Site created information shows after the creation is successful.
 7. Click **Close**.

Editing site information

For only one site in a project:


1. From the project list on the Home page, click Project menu icon .
2. Select **Edit site**.
3. From the **General information** step, edit the site name, description, contact and location in **Site information** column.
4. Select a picture for the site in the **Picture** column.
5. Click **Save**.

For several sites in a project:

1. From the project list on the Home page, click the project name. The sites list of this project displays.
2. Click the Site menu icon .
3. Select **Edit site**.
4. From the **General information** step, edit the site name, description, contact and location in **Site information** column.
5. Select a picture for the site in the **Picture** column.

6. Click **Save**.

Deleting a site

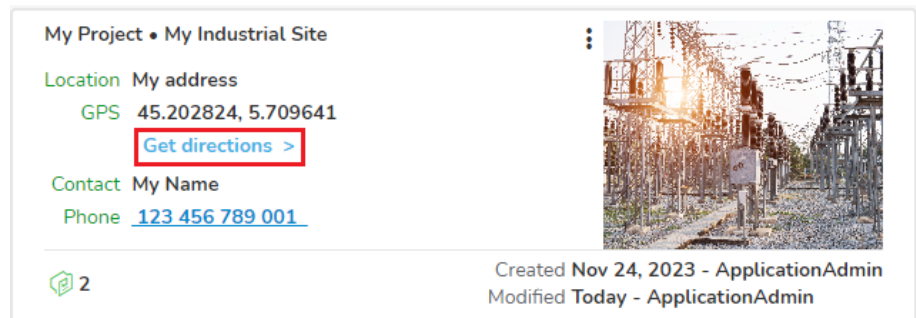
1. From the project list on the Home page, click the project name.
The site list of this project displays.
2. Click the Site menu icon .
3. Select **Delete site**.
4. From the confirmation dialog, click **Delete** to confirm deleting the site with all devices or **Cancel** to exit.

Getting location to your site

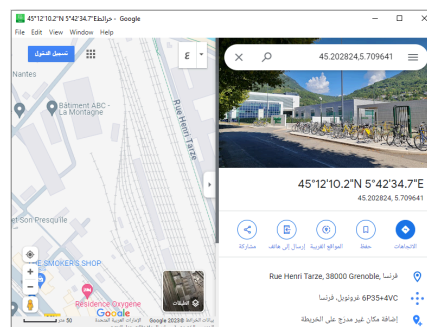
If you entered the GPS coordinates for your site location, PowerLogic™ Engineering Suite can offer you the “Get directions” function.

To get the exact location of your site:

1. From the project list on Home page, select your desired site and click **Get directions**.



2. Your site's location appears in a new Google Maps popup. Click **View** on the header bar to see more details about the location.



Working with devices

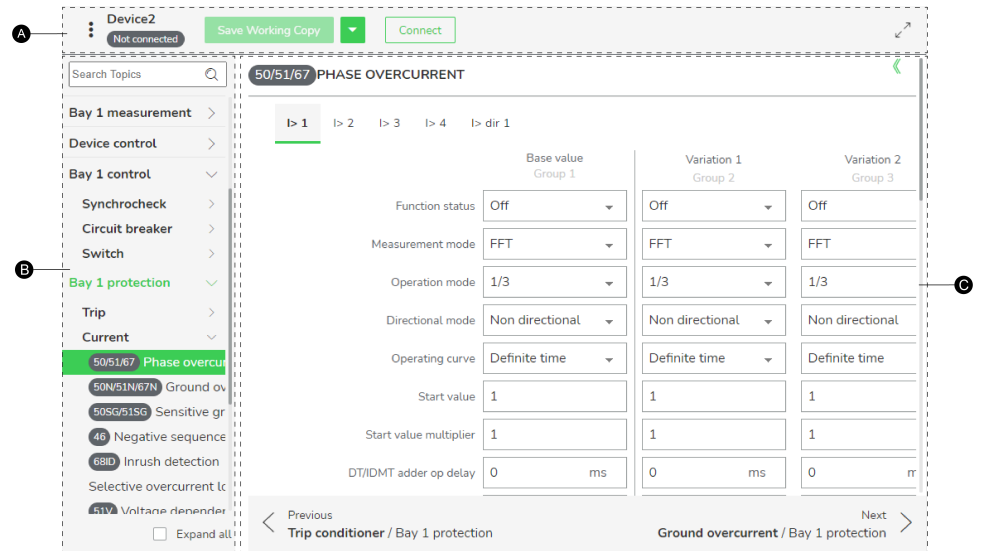
This section introduces the overall layout of the device view, the functions of the device header bar, and lists some common functions in the setting view of the PowerLogic™ Engineering Suite.

Device view

The device view is contextual to the device selected in the site-level navigation panel. Device configuration is primarily performed in the device view, which contains three components: Device header bar, Setting Table of Content (TOC) and Setting view.

Overall layout and navigation

The following figure shows an example of the components in the Device view of the PowerLogic™ Engineering Suite user interface:

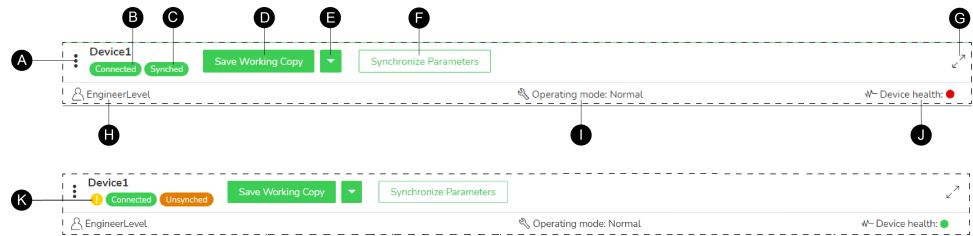


- A **Device header bar** Displays the current connection status of the device.
- B **Setting Table of Content** Lists the device settings and configuration logically according to engineering practices.
- C **Setting view** Provides the editing area of the device.

Device header bar

Device header bar displays the following information:

- Connection status
- Synchronization status
- Synchronize settings between device and application
- Login level
- Device running mode
- Device health overall status



- A **Device menu icon** Provides the device related actions, such as Export to ICD file, Save all changes, Connect to device, etc.
- B **Connection status** Displays the current connection status of the device.
Connected status: the icon is green;
Disconnected status: the icon is gray.
- C **Sync status** Provides the current synchronization status of the device and PowerLogic™ Engineering Suite. There are three statuses:
 - Synced
 - Unsynced
 - Partially synced
- D **Save Working Copy** Provides the function of saving all changes.
- E **Create new version drop-down** Creates a version from the current parameter values in the working copy.
- F **Synchronize parameter button** Provides a function for synchronizing settings between device to database, as well as reversing this process.

⚠ WARNING

LOSS OF PROTECTIVE FUNCTION DURING SETTING CHANGES

- Following a setting change, the relay could reboot and equipment protection is unavailable. Ensure all operators are outside the arc flash boundary during device reboot.
- Use appropriate personal protection equipment (PPE) while making setting changes within the arc flash boundary.
- Do not approach the equipment until the device reboot is complete.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

- G **Expand window** Zooms the Device view into full screen and restore its original size when clicked again.
- H **Login level** Displays the cybersecurity role for the connected user. There are four roles defined by the RBAC:
 - Application administrator
 - Installer
 - Engineer
 - Operator
- I **Device running mode** Provides **Normal** and **Safe** two modes.
- J **Device health overall status** Provides **Ok** ●, **Warning** ●, **Alarm** ● three health status displays.
- K **Incompatible warning icon** When the device does not match the settings in PowerLogic™ Engineering Suite, this warning icon appears.

Focus mode



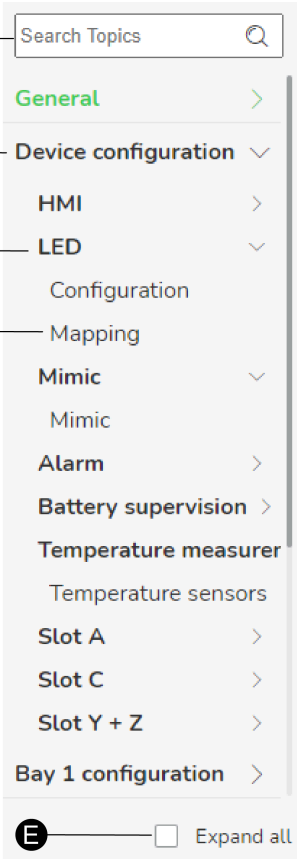
1. In the Setting Table of Content, select a setting topic.
2. From the Device header bar, click the Focus mode icon . The Main header bar and Site-level navigation panel are hidden.
3. Click the Focus mode icon  again. The window returns to the Site view.

Table of content for device settings

 <p>A — Search Topics</p> <p>B — Device configuration</p> <p>C — LED</p> <p>D — Mapping</p> <p>E — <input type="checkbox"/> Expand all</p>	<p>A Searching bar</p> <p>B Chapter</p> <p>C Group</p> <p>D Setting</p> <p>E Expand all</p>	<p>Provides a searching bar to quickly search topics.</p> <p>NOTE: The search mechanism is case-sensitive, which means "Overcurrent" and "overcurrent" are treated as distinct search terms.</p> <p>Displays the first level of content, grouping content at a high level. Only one chapter is displayed at a time.</p> <p>Displays the second level of content.</p> <p>Displays the last level of content.</p> <p>Displays all the settings.</p>
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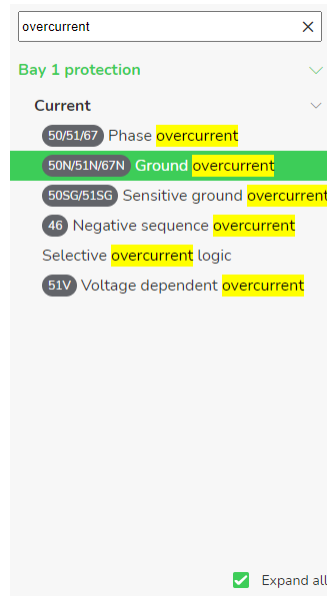
Searching in TOC

You can quickly find desired **Setting** page by using the searching bar at the top of the Setting TOC.

To search one Setting page:

1. In the device view, click in the searching bar at the top of the Setting TOC.

2. Type your desired characters.
Content appears based on the search criteria you entered. Note that characters are case sensitive.

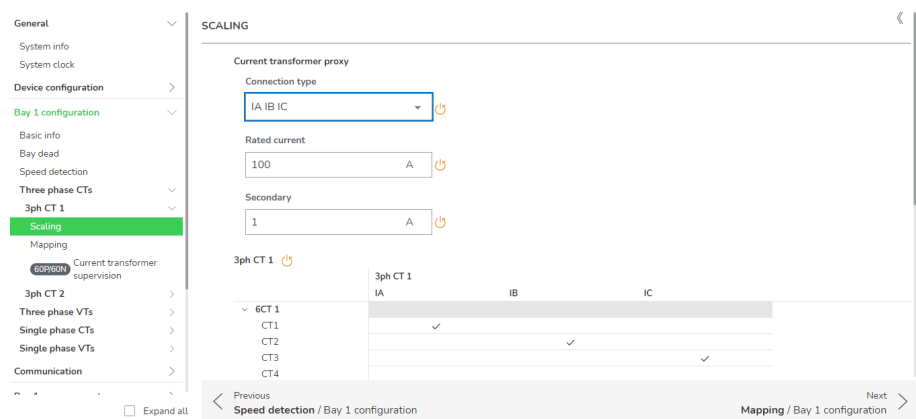


3. Select the desired topic from the returned results to open the setting page.
TIP: To close the search input in searching bar, click the ✕ icon or click the **Expand all** on the bottom right of the Setting TOC.

Editing and saving settings

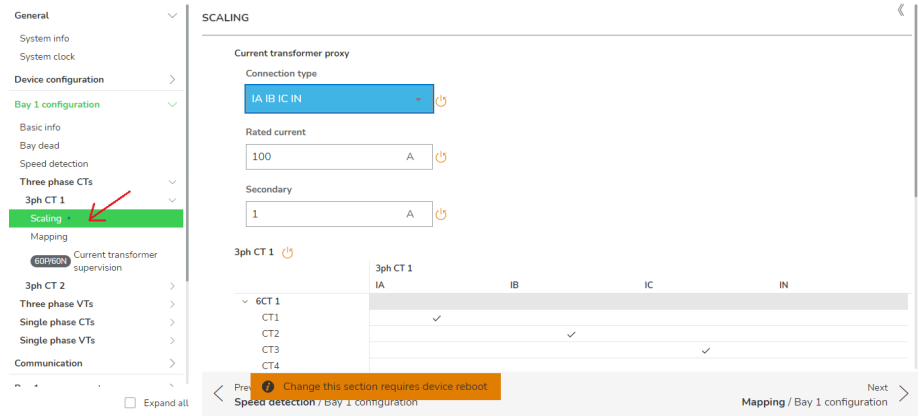
NOTE: The screenshots are only meant to show the effect of certain operations and may not work on all supported devices.


1. Select a basic setting topic in the Setting Table of Content.
The details of the setting display in the Setting view.
2. Click one of the settings in the Setting view.
The editing box is framed with a blue border.



3. Edit the setting.

The background of edit box changes to blue and a blue bullet appears in the Setting Table of Content.



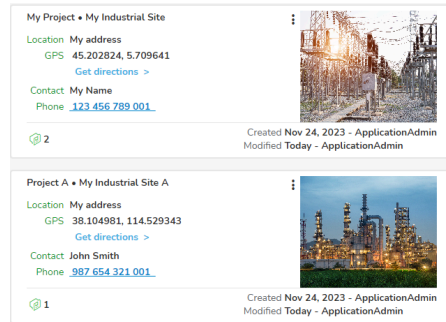
NOTE: The  icon indicates the device needs to be rebooted when the setting is changed.

4. Click **Save Working Copy**.

Device management


This section provides an overview of regular tasks related to device management, covers the procedures for displaying two device setting views in parallel, pinning devices, exporting device configuration, exporting an ICD file, connecting a device, and version control.

Through the project listed on the Home page, you can easily determine how many devices are managed within the parent project.




Take the above screenshot as an example, **My Project** manages two devices, while **Project A** manages one device.

Displaying devices side-by-side

When you set more than two devices in the Quick access area, a split icon  displays.

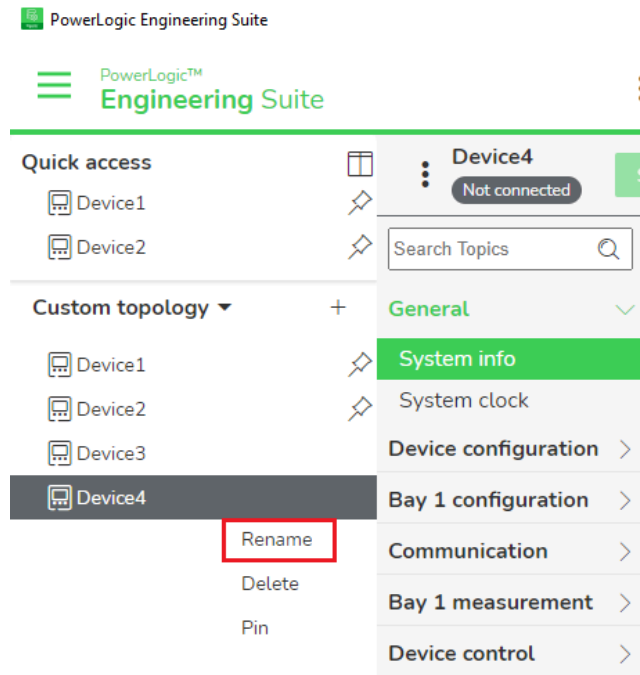
To display devices side-by-side:

1. Select one device which you need to display it on left side.
2. Click Split icon .
You will find devices display side-by-side.

Click the  icon to cancel displaying devices side-by-side.

Renaming a device

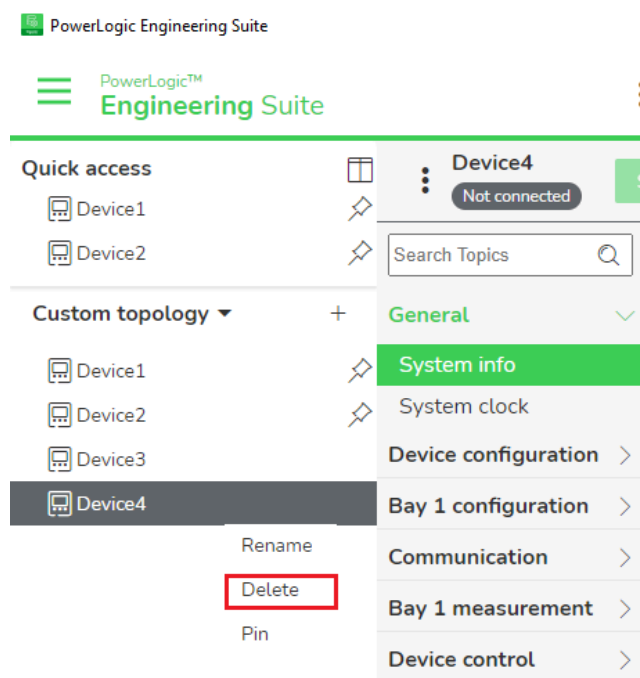
1. In Diverse Device Display Panel, right-click the device name you want to rename and then select **Rename**.



2. Enter desired new name.

Deleting a device

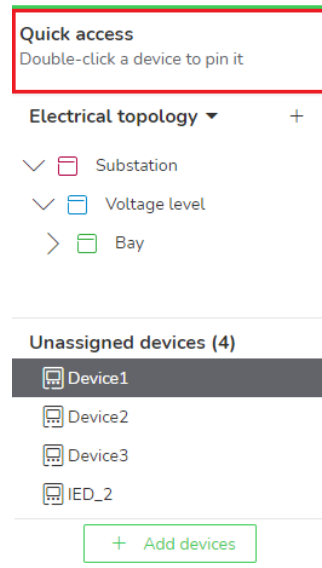
1. In Diverse Device Display Panel, right-click the device name you want to delete and then select **Delete**. This opens the Delete Device confirmation dialog.



2. In the confirmation dialog box, click **OK**.

Pinning a device

In Diverse Device Display Panel, the default Quick access bar is empty.




To pin a device, there are three methods:

Method 1: Double-click the device you want to pin, then you will find the device is in Quick access bar.


Method 2: Select the device you want to pin and drag to the Quick access bar.

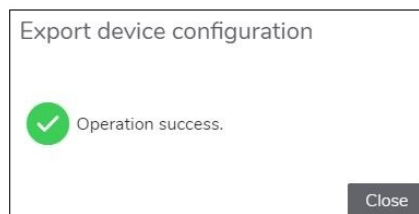
Method 3: Right-select the device you want to pin and select **Pin** in the context menu.

To unpin a device:

From the Quick access bar, click the Pin icon  beside a device. The device is removed from Quick access bar.

Exporting device configuration


1. Click the  menu next to the device name.
2. From the drop-down list, select **Export device configuration** option.
3. Select a destination to export the device configuration file.
4. If operation success, **Operation success** displays in **Export device configuration** window. Click **Close** to quit this window.



If operation failed, click **Show Logs** for details.

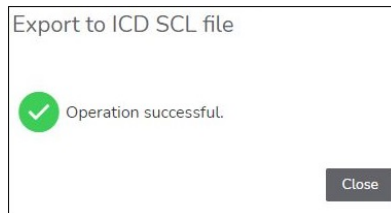
Exporting to ICD SCL file

Before exporting to ICD SCL file, save current settings.

1. Click the  menu next to the device name.
2. From the drop-down list, select **Export to ICD SCL file** option.
3. Fill out the version information and description fields.


NOTE: Mandatory inputs are highlighted with a red star *.

4. Enter change description if you need.
5. Browse to select a destination for the ICD file.
6. Click **Export** to begin the export process.
7. Click **Close** to close the window.



Exporting to IID SCL file

NOTE: Before exporting to IID SCL file, save current settings.

1. Click the  menu next to the device name.
2. From the drop-down list, select **Export to IID SCL file** option.
3. Fill out the **Version Information** area (mandatory field), and enter your change description if needed.
4. Browse to select a destination for the IID file.
5. Click **Export** to begin the export process.
6. Click **Close** to close the window.

Connecting to the device

There are two ways to connect to the device:

- by manual configuration
- by scanning the network


Physical device compatibility checks

If the physical device capabilities are not compatible with the local configuration, you will see a dialog to notify the connection issues when connecting to the device.

Following check items may be performed in system background, the specific check items depend on the device.

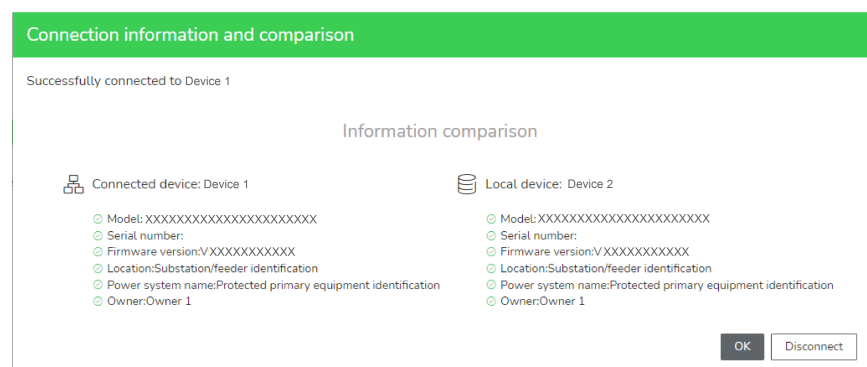
- Serial number
- Application
- License
- Firmware version
- Hardware

Connecting to device by manual configuration

1. Click the  menu next to the device name.
2. Select **Connect to device** option.
3. From the pop-up **Connect to device** dialog box, select the check box of **Manual configuration**.
4. Define the **Connection settings**.
5. Click **Connect**.

The **Authentication required** dialog box requires for the username and password.

6. Enter the username and password of the device.
7. Click **Authenticate**.
 - If connection is successful, system pops with **Connection information and comparison** screen, click **OK** to continue, device status displays **Connected**.




NOTE: The **Connection information and comparison** screen may vary depending on the situation.

- If the physical device capabilities are incompatible with the local configuration in PowerLogic™ Engineering Suite, an additional dialog or message is displayed to indicate the reason for the failure.

NOTE: Compatibility issues screen may vary depending on the situation.

More information about the compatibility checks, refer to [Physical device compatibility checks, page 60](#) section.

Connecting to device by scanning the network

1. Click the  menu next to the device name.
2. Select **Connection to device** option.
3. From the pop-up **Connect to device** dialog box, select the check box of **Scan networks**.
4. Select the network.
5. Click **Scan** to search the devices.
 - **Add connected devices** dialog displays or
 - **No device was found** information displays if no device is found. Click **Scan again** to restart the search.
6. Click **Connect**.

The **Authentication required** dialog requires for the username and password.

7. Enter the username and password of the device.

8. Click **Authenticate.**

- If connection is successful, device status displays **Connected**.
- If the physical device capabilities are incompatible with local configuration in PowerLogic™ Engineering Suite, an additional dialog or message is displayed to indicate the reason for the failure.

More information about the compatibility checks, refer to Physical device compatibility checks, page 60 section.

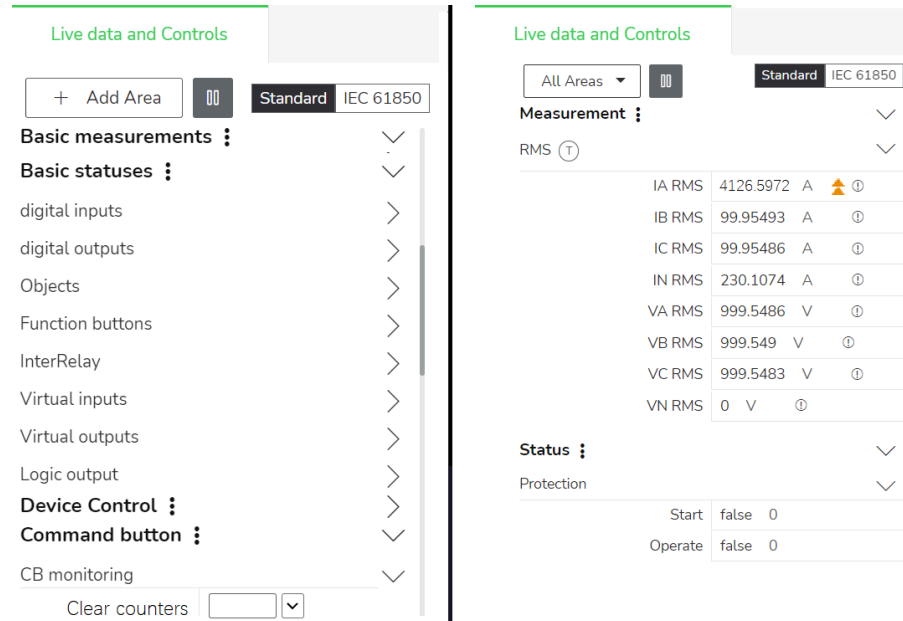
Live data and controls panel

The **Live data and controls** panel provides you with real-time access to measurement values, data quality indicators, and statuses. This interface allows for direct manipulation of measurement parameters, ensuring that you can monitor and manage connected devices efficiently.

NOTE: The functions on the Live data and controls panel may vary depending on the connected device.

Measurement value and status value

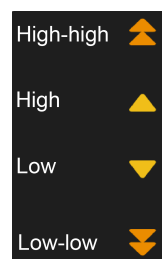
You can add or remove the following sections as needed. Depending on the device platform, you may also have the option to select and send commands.



- RMS current measurements
 - RMS voltage measurements
 - Current sequences
 - Energies
 - Time synchronization
 - Binary inputs
 - Trip conditioner
- Current measurements
 - Voltage measurements
 - Voltage sequences
 - Device information
 - Network connections
 - Binary outputs
 - Logic outputs

NOTE: The sections mentioned above may vary depending on the services present on each connected device.

When it comes to analog measurement values, there are often defined ranges. Measurement values are indicated by icons. If a measurement is within the normal range, no icon will appear next to it. If it is outside the normal range, one of four colored icons will display as shown below, representing the measurement status relative to the defined ranges.



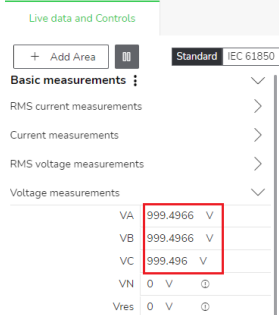
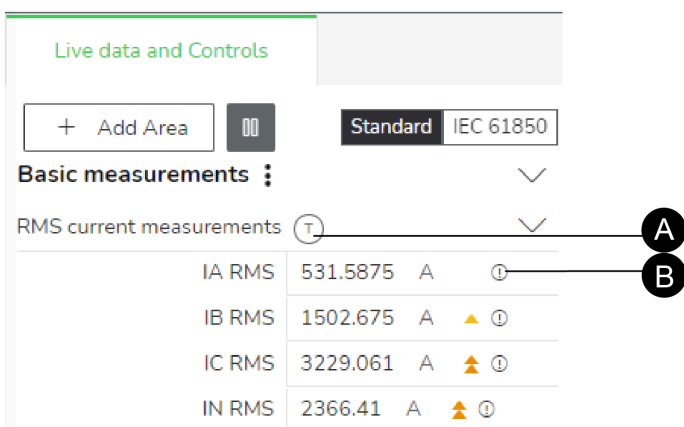


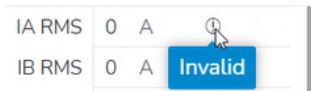
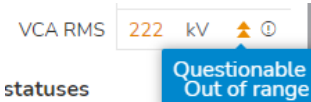


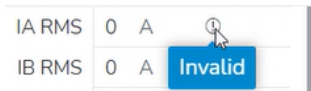
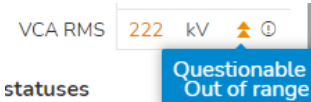
On hovering, you can see a tooltip displaying the meaning.

Basic measurements ⋮		∨
RMS current measurements		∨
IA RMS	1645.924 A	⬆️ ⓘ
IB RMS	1502.106 A	High


IEC 61850 quality bits display

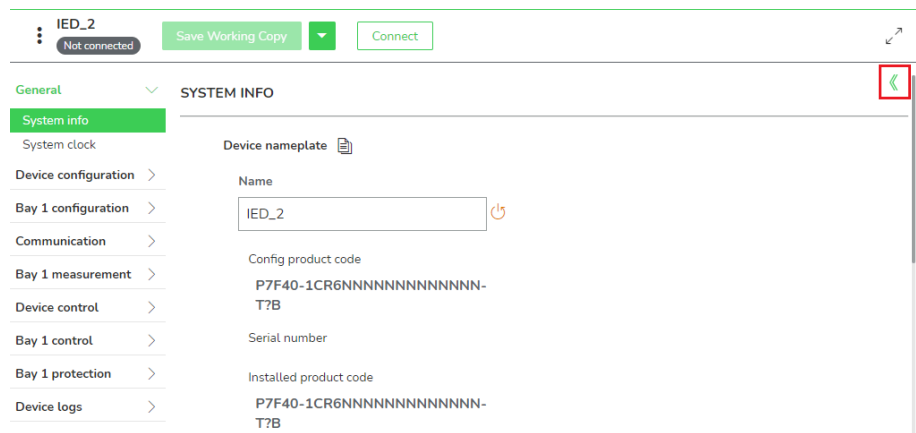
Using the **Live data and Controls** panel, you can assess the quality of measurement data and status data at two different levels. More information, refer to the table as follows.

NOTE: The IEC 61850 quality bits display on **Live data and Controls** panel depends on the services present on each connected device.

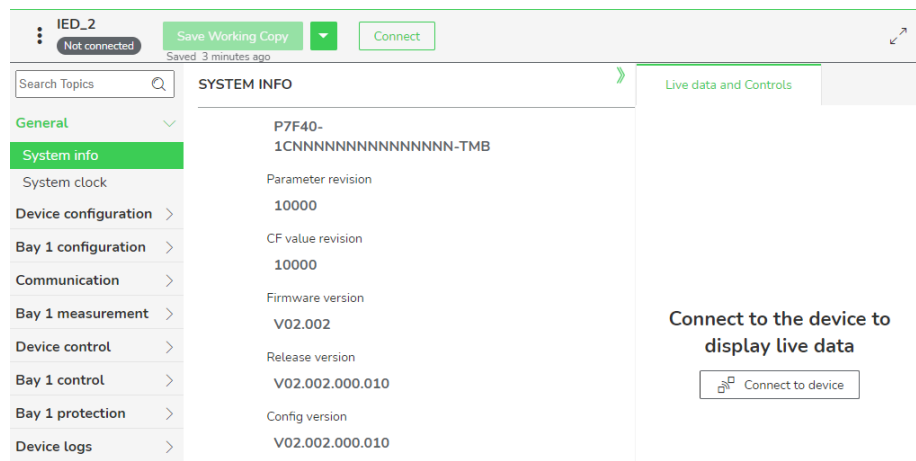
Two levels to display the quality of data	Data Attribute (DA)	Display mode	Example
Validity	Good	No icons	 <p>No icons displayed in the value fields, indicating that the quality of VA, VB and VC values is Good.</p>
	Invalid	Information icon + Tooltip	 <p>A: Test mode icon.</p> <p>When the connected device is in Test mode, this test mode icon  will appear closely to the signal.</p> <p>B: Information icon.</p> <p>You can view the tooltip by hovering the mouse over this information icon , as follows.</p>  
	Questionable	Information icon + Tooltip	
Quality details	Overflow	Tooltip	<p>A: Test mode icon.</p> <p>When the connected device is in Test mode, this test mode icon  will appear closely to the signal.</p> <p>B: Information icon.</p> <p>You can view the tooltip by hovering the mouse over this information icon , as follows.</p>  
	OutOfRange	Tooltip	
	BadReference	Tooltip	
	Oscillatory	Tooltip	
	Failure	Tooltip	
	OldData	Tooltip	
	Inconsistent	Tooltip	
	Inaccurate	Tooltip	
	Source	Tooltip	
	Test	Tooltip	
OperatorBlocked	Tooltip		


Connecting to the device to view live data

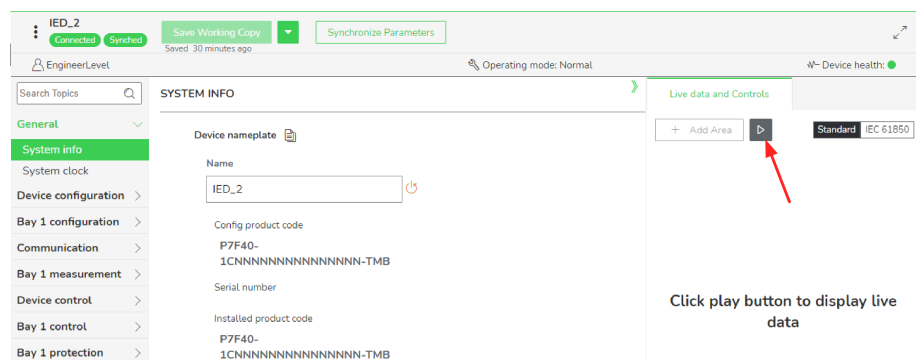
1. Select your desired project and site from the home page, go to device setting view.
2. On the upper-right corner of the setting view, click the  icon to expand side panel.




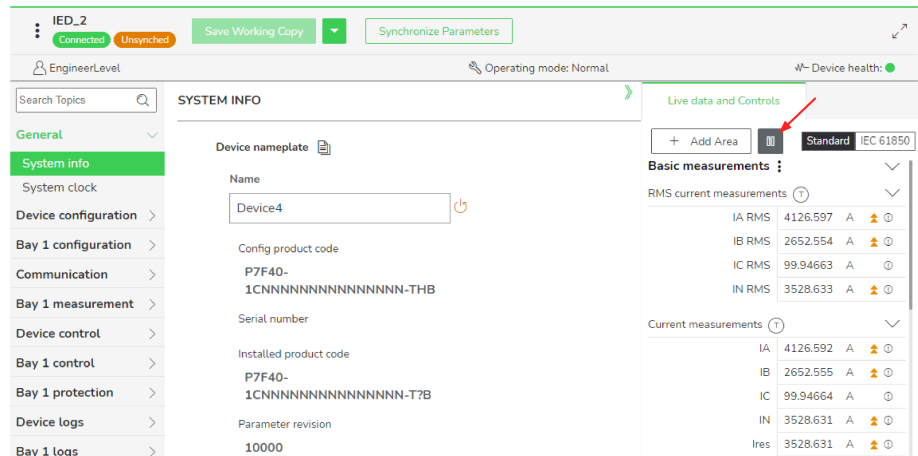
3. Click **Connect to device**.



4. Refer to the following sections to complete the connection.
 - Connecting to device by manual configuration, page 61 or
 - Connecting to device by scanning the network, page 61
5. After connected successfully, click the  on the top of the side panel to view live data of the connected device.



6. To pause real-time updates, click the .




Version control

Version control can help you track changes made to the setting view over time. Once the version control function is selected, PowerLogic™ Engineering Suite takes a snapshot of the files, and then permanently stores that snapshot so the version can be retrieved later if needed.


Creating a new version

Whenever you want to save the current state of the configuration, you can create a new version.

1. Click the  icon next to the **Save Working Copy**.
2. Select **Create Version**.
3. (Optional) In the **Create Version** window, select the Major number.


Note: By default, the initial version number is 1.0. Whenever a new version is added, the minor number will automatically increase by 1. That is to say, the version number will be set to 1.1 for the second new version. If you want to change the major version number, the minor version number is automatically reset to 0.

4. (Optional) Enter the description information for current parameter values.
Note: Description information is recommended for future quick searches and retrieval.
5. Click **Create**.

After a few seconds, the creation process is complete. You can click the  icon again to see created version information including: created account, created date and created time.

Searching the previous version

You can search a history version of the settings by the version management function.


1. Click the  icon next to the **Save Working Copy**.
2. Select **Search more**.

- On the **Version management and comparison** window, select your desired version from the version list, or enter the version number or description in the search bar.

Version management and comparison


Versions		Description		Date Time	Actions
<input type="checkbox"/>	2.1	This version is used for my t...	>	12/7/23 4:52 PM	⋮
<input type="checkbox"/>	2.0	dfs		12/6/23 4:11 PM	⋮
<input type="checkbox"/>	1.0	ds		12/6/23 4:10 PM	⋮

Reverting to the previous version

- Click the  icon next to the **Save Working Copy**.
- From the **Version history** or Click **Search more**, select a required version.
Note: You will only see the latest three version numbers in the **Version history** list. To view complete version numbers, click **Search more**.
- Click **Revert** to switch the working copy.

Viewing version description

You can view the version description information to identify required configuration version.

- Click the  icon next to the **Save Working Copy**.
- Select **Search more**.
Version management and comparison window pops up.
- From the list of the version history, view the description field for each version.

Logging

When the device is operating, it can record some information allowing to understand either the behavior of the device itself or the controlled equipment by this device.

Extract logs from the device is based on what the device is able to provide as a log. Generally, PowerLogic™ Engineering Suite supports the extraction of device logs, event logs, fault records and disturbance records, varying depend on the device.

Device records storage path


For PowerLogic™ Engineering Suite debugging, maintenance and activity tracking purposes, you need to access the storage path of the device records.

By default, the device logs are located in the following directory:
 C:\ProgramData\Schneider Electric\PowerLogic Engineering Suite\device-logs



Downloading logs

There are two ways to download logs: downloading logs one by one or batch downloading.


Downloading logs one by one

1. Click the Save icon  to save the log to the database.





Disturbance records Refresh logs

	File name	Time stamp	Actions
<input type="checkbox"/>	waveform_001.cff	2023-08-15 05:19:13.892	
<input type="checkbox"/>	waveform_002.cff	2023-08-15 05:44:43.311	

Download
Delete all

2. Click the Download icon  to download the file to local server.

Disturbance records Refresh logs

	File name	Time stamp	Actions
<input type="checkbox"/>	waveform_001.cff	2023-08-14 21:19:13.892	  
<input type="checkbox"/>	waveform_002.cff	2023-08-15 05:44:43.311	


Download
Delete all

3. Repeat step 1 and step 2 to download other required logs.



- Go to storage path of the device logs to view the logs.

To know the specific device logs folder, click the drop-down list of User login menu, then select **User preferences** to get the storage path of device records.

Batch downloading

- Click the Save icon  to save the log to the database.







Disturbance records Refresh logs

	File name	Time stamp	Actions
<input type="checkbox"/>	waveform_001.cff	2023-08-15 05:19:13.892	
<input type="checkbox"/>	waveform_002.cff	2023-08-15 05:44:43.311	

Download Delete all

- Click the Save icon  of the next log.







Disturbance records Refresh logs

	File name	Time stamp	Actions
<input type="checkbox"/>	waveform_001.cff	2023-08-14 21:19:13.892	  
<input type="checkbox"/>	waveform_002.cff	2023-08-14 21:44:43.311	  

Download Delete all

- Tick the check box for multiple logs.

DISTURBANCE RECORDS Refresh logs

	File name	Time stamp	Actions
<input checked="" type="checkbox"/>	waveform_001.cff	2023-08-14 21:19:13.892	  
<input checked="" type="checkbox"/>	waveform_002.cff	2023-08-14 21:44:43.311	  

Download Delete all

- Click **Download** to batch download selected logs.


- Go to storage path of the device logs to view the logs.

To know the specific device logs folder, click the drop-down list of User login menu, then select **User preferences** to get the storage path of device records.







Deleting logs

There are two ways to delete logs: deleting logs one by one or batch deleting.

Deleting logs one by one

1. Click the delete icon  in the row of the required log file.

Disturbance records Refresh logs

	File name	Time stamp	Actions
<input type="checkbox"/>	waveform_001.cff	2023-08-14 21:19:13.892	  
<input type="checkbox"/>	waveform_002.cff	2023-08-14 21:44:43.311	  







Download
Delete all

2. Repeat the step 1 to delete another log until task is completed.

Batch deleting

1. Tick the check box for multiple logs.

DISTURBANCE RECORDS Refresh logs

	File name	Time stamp	Actions
<input checked="" type="checkbox"/>	waveform_001.cff	2023-08-14 21:19:13.892	  
<input checked="" type="checkbox"/>	waveform_002.cff	2023-08-14 21:44:43.311	  

Download
Delete all

2. Click **Delete all** to batch delete selected logs.

Modifying device records folder path

1. Click **User info** drop-down menu.
2. Select **User preferences** option.
3. From the pop-up **User preferences** window, click the **Browse** beside **Device records folder** area.
4. Set the required location, then click **Select Folder**
You can find the file path has updated as you set.
5. After confirmation, click **Save**.

Abbreviations

Abbreviations used in the manual

Acronyms	Indication
CIS	Center for Internet Security
DNP3	Distributed Network Protocol
DoS	Denial of Service
HD	High Definition
HIPS	Host Intrusion Prevention System
HTTPS	Hypertext Transfer Protocol Secure
ICD	IED Capability Description
IEC	International Electro technical Commission
IEDs	Intelligent Electronic Devices
IID	Instantiated IED Description
JWT	JSON Web Token
MAC	Media Access Control
PAC	Programmable automation controller
PPE	Personal Protection Equipment
RAM	Random Access Memory
RBAC	Role Based Access Control
SCD	System Configuration Description
SCL	System Configuration description Language
SOE	Sequence of Event
SSH	Secure Shell Protocol
TLS	Transport Layer Security
TOC	Table of Content
VLAN	Virtual Local Area Network

Revision history

Document version	Description	
PLES/EN M/15A 2024-09	Installing digital certificate	Newly added section for cybersecurity consideration.
	Overview	Rephrased this section to make the content more accurate.
	Creating a project	Added some descriptions based on the support for ASCII characters and Unicode characters input.
	Live data and controls panel	Renamed this topic to align with current interface design.
	Connecting to the device to display live data	Updated this topic to align with current control strategy on Live data and controls panel.
	Measurement value and status value	Added two screenshot to show the different interface design between two devices. Updated a screenshot to align with current interface design.
	Workflow	Added some descriptions to align with the functions of current live data and controls panel.
	IEC 61850 quality bits display	Updated the screenshots to align with current interface design.
	Renaming a device Deleting a device	Newly added two topics to align with current platform version.
	Pinning a device	Updated this topic to align with current platform version.
PLES/EN M/14A 2024-07	Live data panel	Newly added sections for live data feature.
	Measurement value and status value	
	IEC 61850 quality bits display	
	Connecting to the device to display live data	
	Searching in TOC	Newly added section for searching feature in device view.
	Deleting a user	Newly added sections for user management feature.
	Security capabilities of PowerLogic™ Engineering Suite PowerLogic™ Engineering Suite login and access	Updated the two sections for timeout mechanism.
	Changing the password	Updated this section due to the CAE version 3.2.3 integration.
	Disabling a user	Updated this section due to the CAE version 3.2.3 integration.
	Enabling a user	Updated this section due to the CAE version 3.2.3 integration.
Device header bar	Updated the explanation for the “Login level”.	
Table of content for device settings	Updated the section to align with the latest feature for this release.	

Document version	Description	
	Exporting to ICD SCD file	Renamed “Exporting to ICD file” to “Exporting to ICD SCD file” to align with current UI design.
	Creating a project, page 39	Added two tables and notes for naming convention.(ESCORE-1076)
	Updated the images	Used up-to-date screenshots to ensure that they match the latest release version of PowerLogic™ Engineering Suite.
	Release / Build	1.3.0
PLES/EN M/13A 2023-12	Redesigned the whole manual outline and refined some topics.	The new Table of Content can reflect the change.
	Purpose of this manual	Newly added section.
	Workflow	Newly added section.
	Software user manual version	Newly added section.
	Cybersecurity	Newly added chapter.
	Hardening	Newly added chapter.
	First login	Newly added section.
	System localization setting	Newly added section.
	Exporting a project	Newly added section.
	Importing a project	Newly added section.
	Electrical topology	Newly added section.
	Network topology	Newly added section.
	Custom topology	Newly added section.
	Abbreviations	Newly added chapter.
	Modules & Licenses	Updated this section to align with the enhancements made to Modules and Licenses page.
	Getting location to your site	Newly added section.
	Searching the previous version	Newly added section.
	IEC 61850 files	Updated this section.
	Updated the images	Used up-to-date images to ensure that they match the latest release version of PowerLogic™ Engineering Suite.
	Release / Build	1.2.0
PLT/EN M/12A 2023-05	Chapter rename	Renamed “Install and uninstall” to “Install and upgrade”. Renamed “Configuring a device” to “Device configuration”.
	Chapter content and image update	Updated “Install and upgrade”, “Getting started”, “Project and site management”, “Site view”, “Device configuration”, “Logging” chapters to make procedures and descriptions harmonized with current application version. Removed non-generic features which not belong to the application itself from manual.
	Release / Build	1.1.0

Document version	Description
PLT/EN M/11A	First edition for initial product release
2022-09	Release / Build 1.0.0

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PLES/EN M/15A