HMI License Manager

User Guide

Schneider Electric

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This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

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Contents

Safety Precautions

Safety Symbols and Terms

This manual uses the following symbols and terms to identify important information related to the correct and safe operation of target machine and screen editing software.

The symbols and the descriptions are as follows:

The addition of this symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal 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.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

About the Book

Document Scope

This document describes the specifications and operation of the HMI License Manager.

Validity Note

This documentation is valid for this product.

Product Related Information

⚠ **WARNING**
UNINTENDED EQUIPMENT OPERATION
The touch panel switch must not be used as an equipment's Emergency Stop switch. For safety reasons, international safety codes typically recommend or require that all industrial machinery and systems be equipped with a mechanical, manually-operated Emergency Stop switch. To ensure safe operation of other equipment, similar mechanical switches should also be provided for other kinds of systems.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ **WARNING**
UNINTENDED EQUIPMENT OPERATION
During equipment repair or maintenance work, the safety interlock feature must be used to prevent unintended startup of the system.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ **WARNING**
LOSS OF DATA
Save the project periodically.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

<table>
<tr><td colspan="2" align="center">⚠ **WARNING**</td></tr>
<tr><td colspan="2">**LOSS OF CONTROL**

•   The application designer must consider the potential of accidental touches causing touch operations to run and account for that possibility when designing an application.

•   The designer of any control scheme must consider the potential breakdown modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path breakdown.

•   Provide separate or redundant control paths for critical control functions.

•   System control paths may include communication links. Consideration must be given to the implications of unanticipated transmission delays or failures of the link.

•   Each implementation of application on the target machine must be individually and thoroughly tested for proper operation before being placed into service. For example, test your application for heavy CPU loads and make sure application requirements fit your target machine's specifications. Use Screen Editing Software Simulation to thoroughly test your application, and test your application on the unit itself.

Failure to follow these instructions can result in death, serious injury, or equipment damage.</td></tr>
</table>

<table>
<tr><td colspan="2" align="center">⚠ **WARNING**</td></tr>
<tr><td colspan="2">**UNINTENDED EQUIPMENT OPERATION**

Always add a time display to the panel in order to provide a way for the operator to see if the application has stopped running.

Failure to follow these instructions can result in death, serious injury, or equipment damage.</td></tr>
</table>

<table>
<tr><td colspan="2" align="center">*NOTICE*</td></tr>
<tr><td colspan="2">**EQUIPMENT DAMAGE**

Projects and data imported into Screen Editing Software must be checked thoroughly to make sure the data has imported successfully.

Failure to follow these instructions can result in equipment damage.</td></tr>
</table>

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

To help keep your Schneider Electric products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the Cybersecurity Best Practices document.

Schneider Electric provides additional information and assistance:

- Subscribe to the Schneider Electric security newsletter.
- Visit the Cybersecurity Support Portal web page to:
  - ➢ Find Security Notifications
  - ➢ Report vulnerabilities and incidents
- Visit the Schneider Electric Cybersecurity and Data Protection Posture web page to:
  - ➢ Access the cybersecurity posture
  - ➢ Learn more about cybersecurity in the cybersecurity academy
  - ➢ Explore the cybersecurity services from Schneider Electric

Product Related Cybersecurity Information

Use this product inside a secure industrial automation and control system. Total protection of components (equipment/devices), systems, organizations, and networks from cyber attack threats requires multi-layered cyber risk mitigation measures, early detection of incidents, and appropriate response and recovery plans when incidents occur. For more information about cybersecurity, refer to the Harmony HMI/iPC Cybersecurity Guide.

https://www.se.com/ww/en/download/document/EIO0000004948/

⚠ **WARNING**
POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY
• Change default passwords at first use to help prevent unauthorized access to device settings, controls, 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).   • Apply the latest updates and hotfixes to your Operating System and software.   • 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.

Available Languages of this Document

This document is available in these languages:

- English (EIO0000005610)

- Japanese (EIO0000005611)

- German (EIO0000005612)

- French (EIO0000005613)

- Italian (EIO0000005614)

- Spanish (EIO0000005615)

- Portuguese (EIO0000005616)

- Korean (EIO0000005617)

- Simplified Chinese (EIO0000005618)

- Traditional Chinese (EIO0000005619)

Related Documents

Title of documentation	Reference number
Cybersecurity Best Practices	Refer to General Cybersecurity Information, page7
Harmony HMI/iPC Cybersecurity Guide	EIO0000004948 (ENG)

You can download the manuals related to this product, such as the software manual, from the Schneider Electric download center (www.se.com/ww/en/download).

Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

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Overview

About the HMI License Manager

The Schneider Electric HMI License Manager is software that manages licenses for Schneider Electric's screen editing software and runtime.

Use the screen editing software and runtime licenses by activating them in the HMI License Manager. You can also use the license manager to deactivate an active license and move it to another device.

System Requirements

	Minimum specifications	Comments
PC	Windows PC/AT compatible machine	-
CPU	8th Generation Intel(R) Core™ i3/i5 Processors or faster	-
Memory	8 GB or more	-
Available Disk Space	30 GB or more	-
Display	1024 x 768 (XGA)	-
Operating System	Windows 10 Pro (32-bit / 64-bit) with latest update	-
Other non-operating-system programs	.NET Framework 4.7.2 full *1	-
Network Adapter	LAN port or Wi-Fi network adapter	-

*1 When using the supported OS, normally .NET Framework Ver.4.7.2 full is installed so, installer does not contain .NET Framework 4.7.2 full.

NOTE:

- This product must be installed and configured by qualified software installation personnel with administrator rights.

- The software installation file is configured with a digital signature. If any issue regarding the digital signature arises during installation, cancel the installation and contact customer support.

Definition of Terms

License Server

The License Server, hosted by Schneider Electric, manages the license information. Exchange information with the License Server to activate or deactivate a license on a local PC.

Activation ID

The Activation ID is published when purchasing licenses. Use the activation ID to activate or deactivate a license.

HMI License Manager

Use the License Manager to activate or deactivate licenses stored on the License Server.

How to Activate and Deactivate Licenses

Starting the HMI License Manager

Start the HMI License Manager from the Windows Start menu or desktop shortcut.

NOTE: License activation and deactivation are not possible when the integrated Write Filter is enabled. Disable the integrated Write Filter before starting the HMI License Manager

General Information about Activation and Deactivation

To activate or deactivate a software license from the HMI License Manager, it must access the license management server via the Internet. The activation or deactivation method depends on the availability of an Internet connection on the device with the software you want to license.

Online Activation or Deactivation

To activate or deactivate the license on a device with an Internet connection, start the HMI License Manager on that device to access the license management server. For more information, refer to Online Activation, page 13.
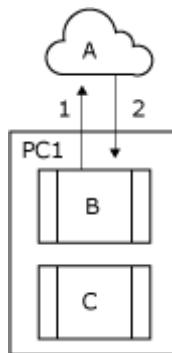
1: Check the activation ID
2: Activate or deactivate the license

A: License Server on the Internet
B: HMI License Manager
C: Software for License Activation

Offline Activation or Deactivation

To activate or deactivate a license for a device that does not have an Internet connection, share the device information to a PC with an Internet connection, then start the HMI License Manager on that PC to access the license management server. For more information, refer to Offline Activation, page 16.
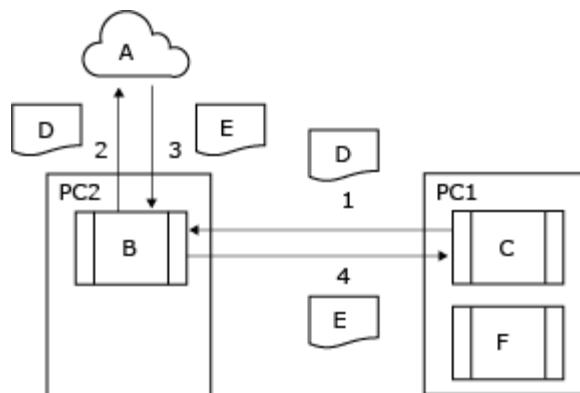
1: Copy the created activation request file (see page 16) or deactivation request file (see page 23).

2: Check the activation ID using the activation request file (see page 17) or deactivation request file (see page 24)

3: Activate or deactivate a license, then publish the activation or deactivation response file.

4: Copy the activation or deactivation response file, then perform activation (see page 19) or deactivation (see page 27).

A: License Server on the Internet

B: HMI License Manager on PC2 (connected to License Server)

C: HMI License Manager on PC1 (contains software for license activation)

D: Activation request file (*.ari) or Deactivation request file (*.dri)

E: Activation response file (*.aai) or Deactivation response file (*.dai)

F: Software for License Activation or Deactivation

NOTE: Use the HMI License Manager on both PC1 and PC2. Install the relevant screen editing software or runtime application, as it is not possible to install only the HMI License Manager.

Activation Methods

Online Activation

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. In the HMI License Manager, click **Activate License** > **Software on This PC**.
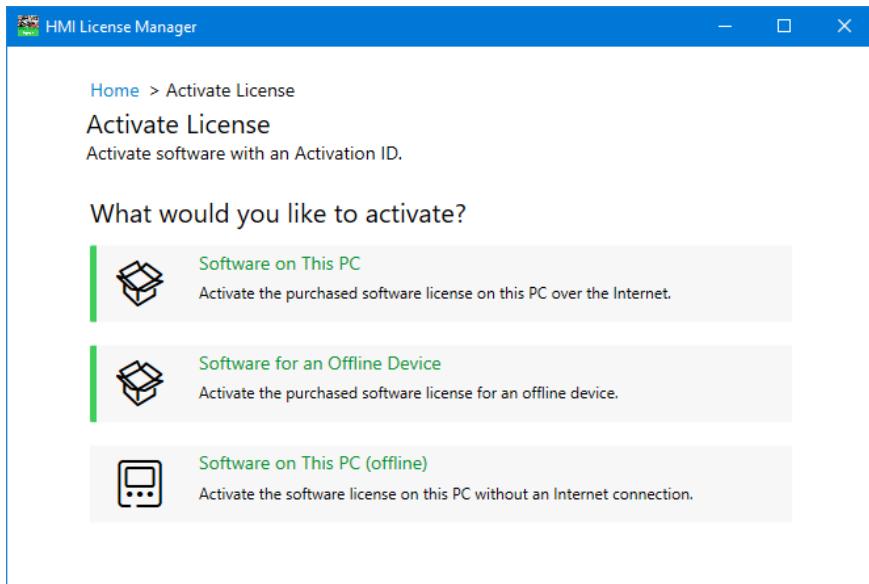
3. Enter the **Activation ID**, then click the **Check** button to validate the Activation ID.
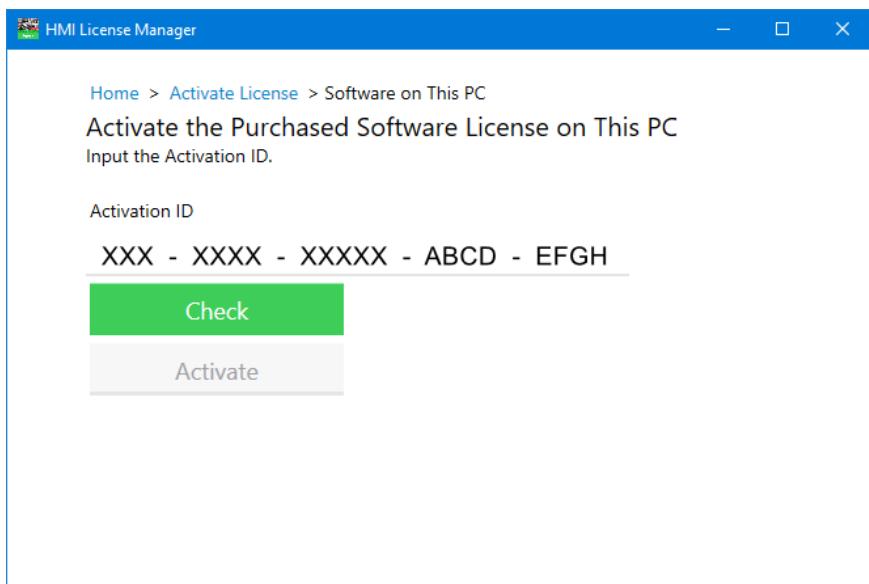
**NOTE**: You can also paste an Activaton ID copied to the clipboard.

4. If the Activation ID is successfully verified, the **Check** button changes to **Successful** and the **Activate** button becomes active.
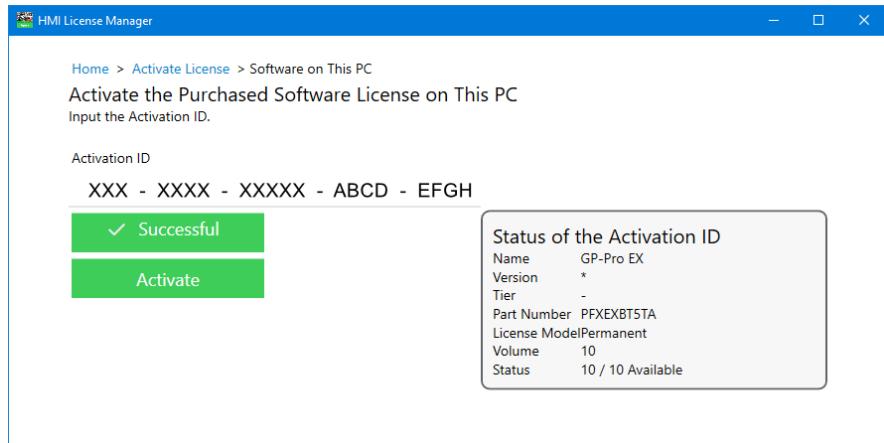
If the Activation ID cannot be verified, the **Check** button will change to a **Retry** button and the possible causes for the failed verification are displayed. Resolve the cause and click the **Retry** button.
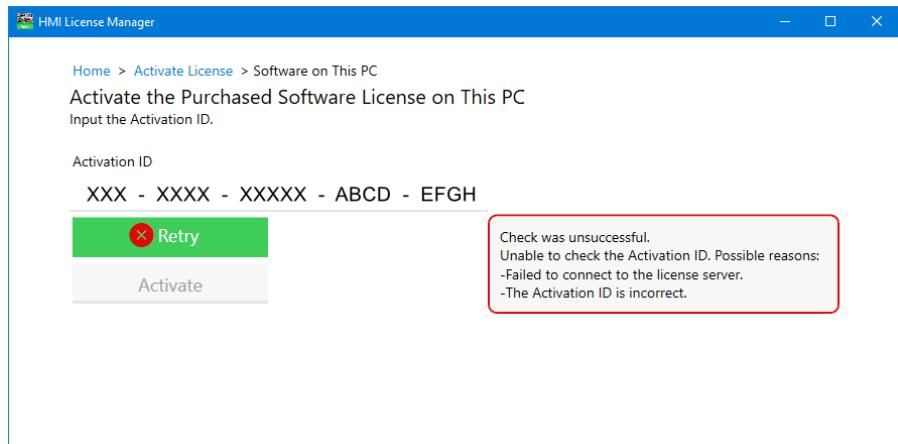
5. Click the **Activate** button to activate the license.
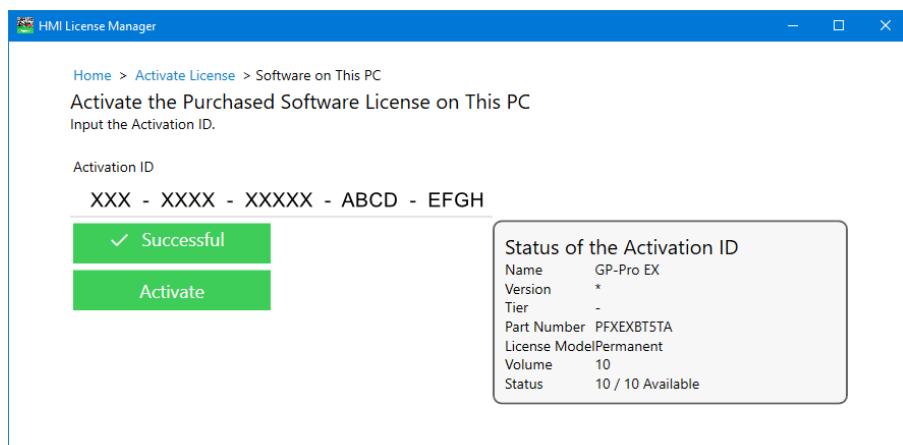
NOTE: Before clicking the Activate button, make sure that the license for the software you wish to activate is displayed.

6. If the license is successfully activated, the **Activate** button changes to **Successful** and the license information is displayed.
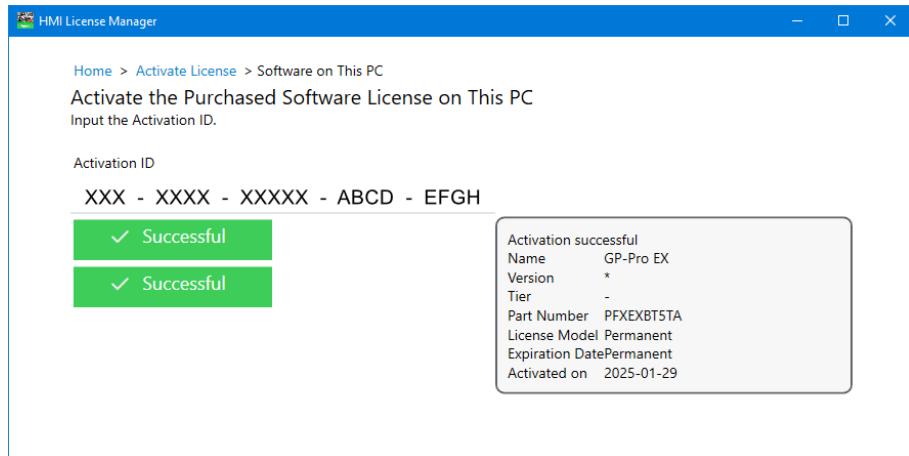
If the license cannot be activated, the **Activate** button changes to the **Retry** button and the possible causes for the failed activation are displayed. Resolve the cause and click the **Retry** button.
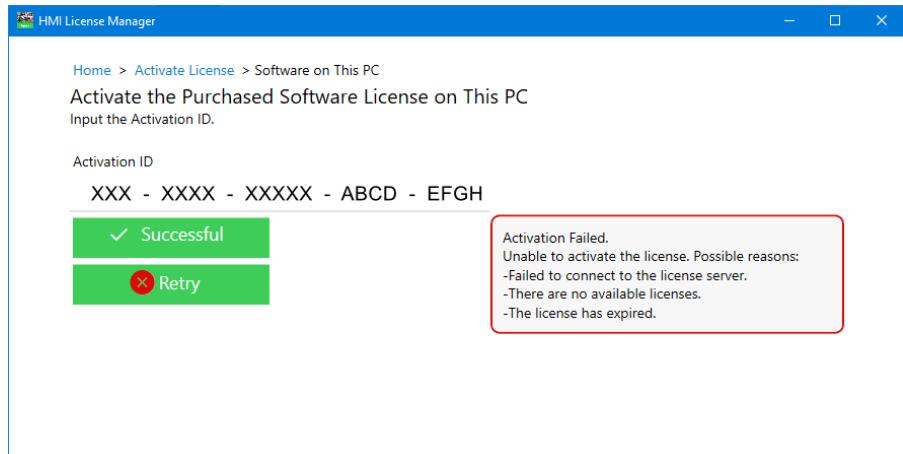
Offline Activation

Activation Flow

To activate an offline device, use the activation request file (*.ari) and activation response file (*.aai) for its activation from a PC that can communicate with the license server.

The following steps describe how to activate the license of an offline device.

PC1: Offline device requiring license activation

PC2: A personal computer that communicates with the license server and performs license activation

1. Create an activation request file (*.ari) on PC1 using the Activation ID. For more information, refer to Create Activation Request File on PC1 (Offline), page 16.

2. Using the activation request file created on PC1, activate the license on PC2 and create an activation response file (*.aai). For more information, refer to Create Activation Response File from Activation Request File on PC2 (Online), page 17.

3. Activate the license on PC1 using the activation response file created on PC2. For more information, refer to Activate with Activation Response File on PC1 (Offline), page 19.

Create Activation Request File on PC1 (Offline)

Follow the steps below to use an Activation ID to create an activation request file (*.ari).

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11

2. Click **Activate License** > **Software on This PC (offline)**.

3. Click **Start Software Licensing on This PC without an Internet Connection**.

4. Enter the **Activation ID**, and click the **Create** button to display the **Save in** dialog box. Specify where to save the file and click **OK** to create the activation request file.
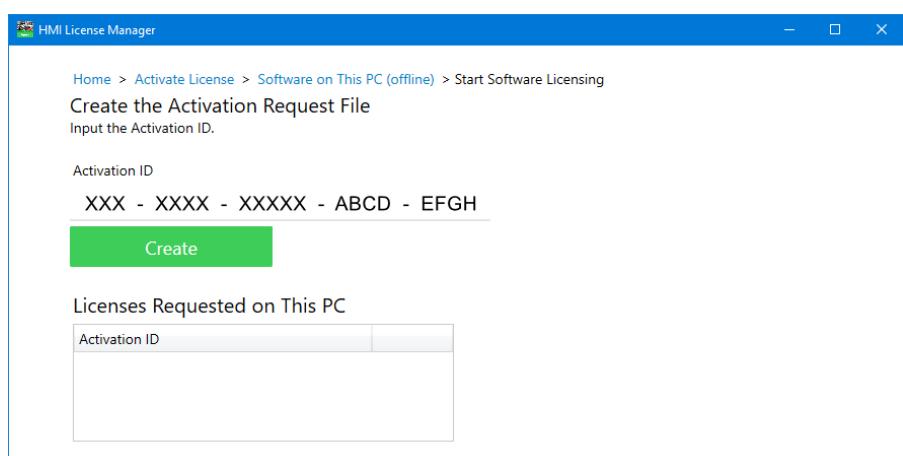

5. If the activation request file cannot be created, the **Check** button changes to a **Retry** button and the possible causes for the failed activation are displayed. Resolve the cause and click the **Retry** button.

Create Activation Response File from Activation Request File on PC2 (Online)

Follow the steps below to use an activation request file to create an activation response file (*.aai).

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. Click **Activate License** > **Software for an Offline Device**.

3. Select the activation request file, and click the **Check** button to verify the license.
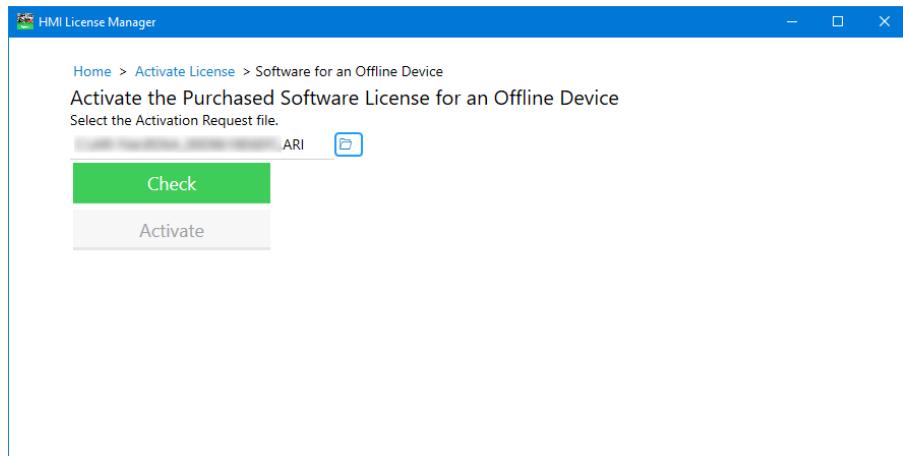
4. If the activation request file is successfully verified, the **Check** button changes to **Successful** and the **Activate** button is enabled. Click **Activate** to activate the license.
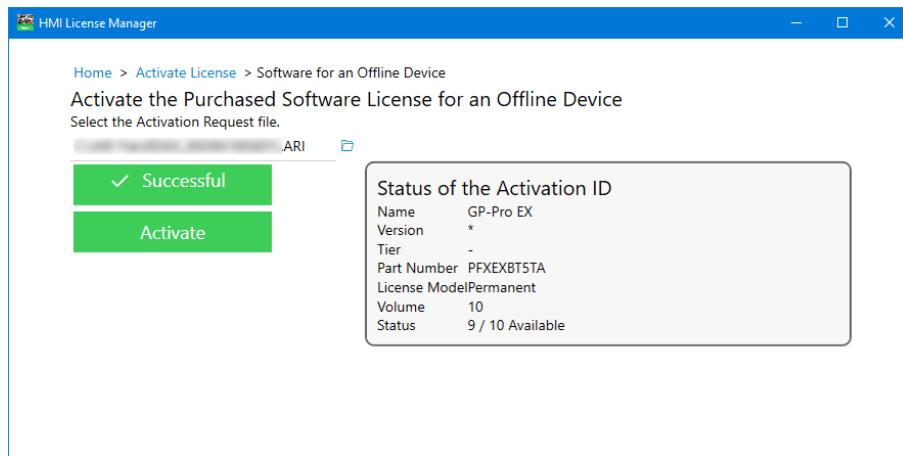
NOTE: Before clicking the Activate button, make sure that the license for the software you wish to activate is displayed.

5. If the activation request file cannot be verified, the **Check** button changes to the **Retry** button and the possible causes for the failed verification are displayed. Resolve the cause and click the **Retry** button.
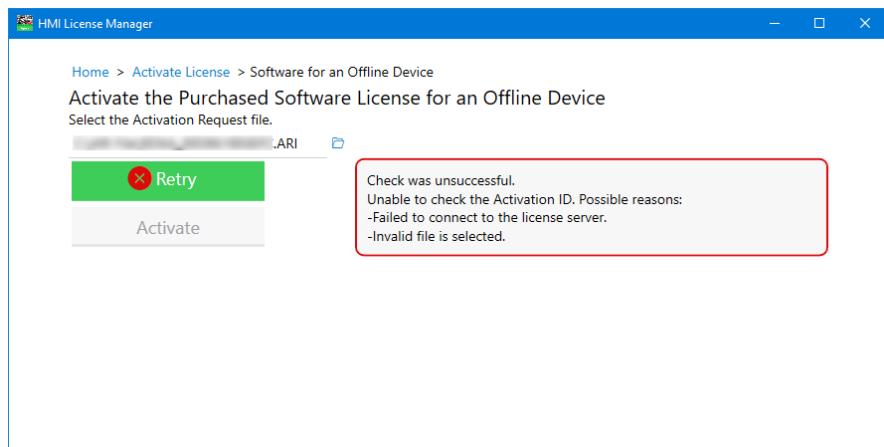
6. If the license is successfully activated, an activation response file (*.aai) is created and the **Save in** dialog box appears. Specify a location to save the activation response file and click **OK**. The **Activate** button changes to **Successful** and the license information is displayed.
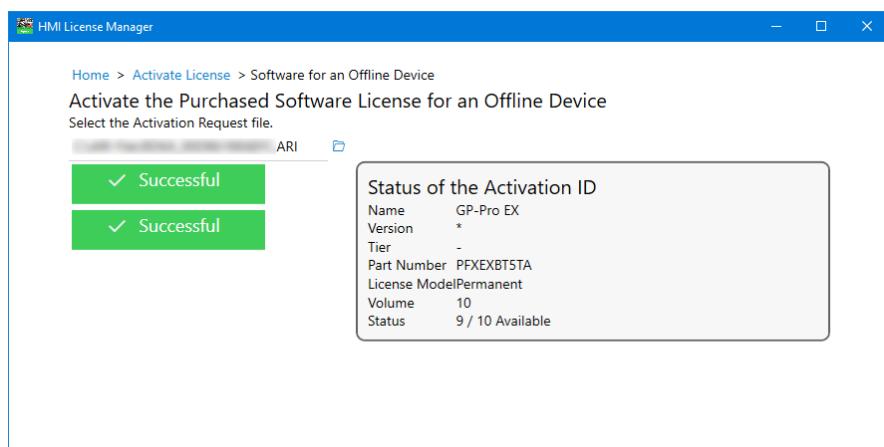
7. If the license cannot be activated, the **Activate** button changes to a **Retry** button and the possible causes for the failed activation are displayed. Resolve the cause and click the **Retry** button.
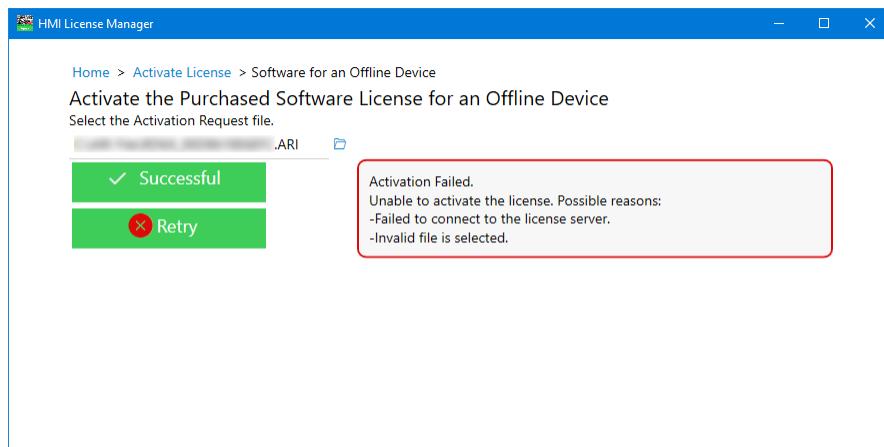
Activate with Activation Response File on PC1 (Offline)

Follow the steps below to use the activation response file (*.aai) to activate the license.

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. Click **Activate License** > **Software on This PC (offline)**.

3. Click **Activate the Software on This PC without an Internet Connection**.

4. Select the activation response file, and click the **Activate** button to activate the license.
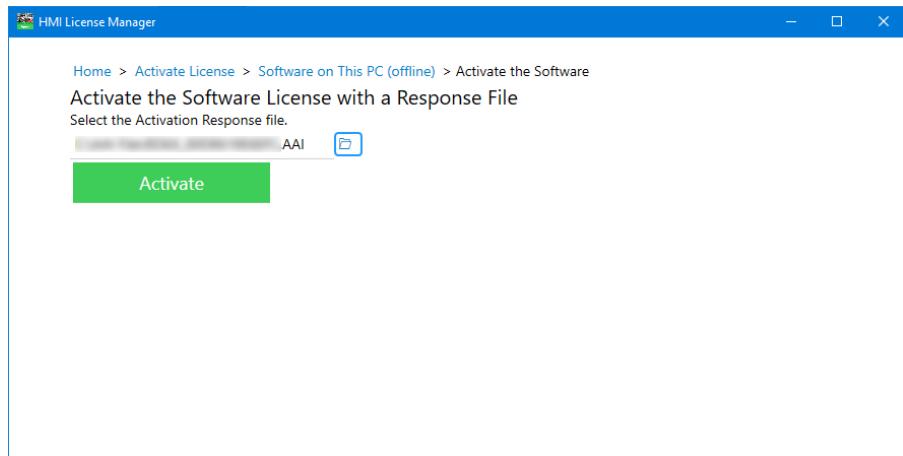
5. If the license is successfully activated, the license information is displayed.
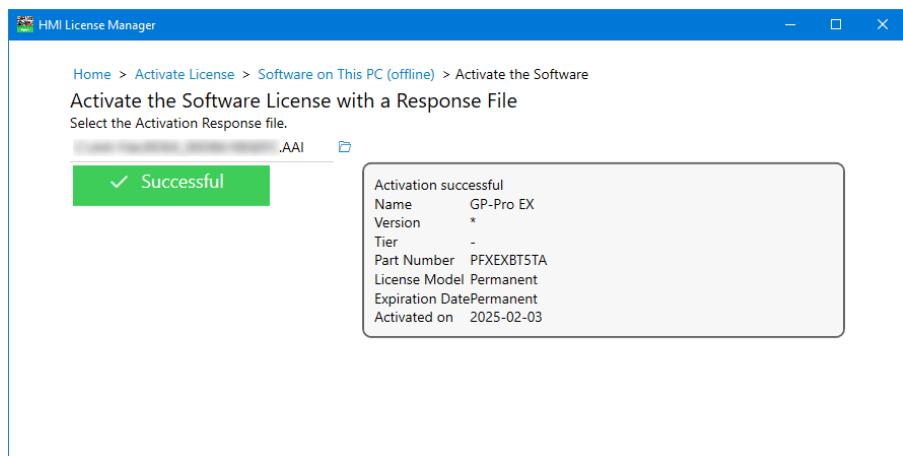
6. If the license cannot be activated, the **Activate** button changes to a **Retry** button and the possible causes for the failed activation are displayed. Resolve the cause and click the **Retry** button.
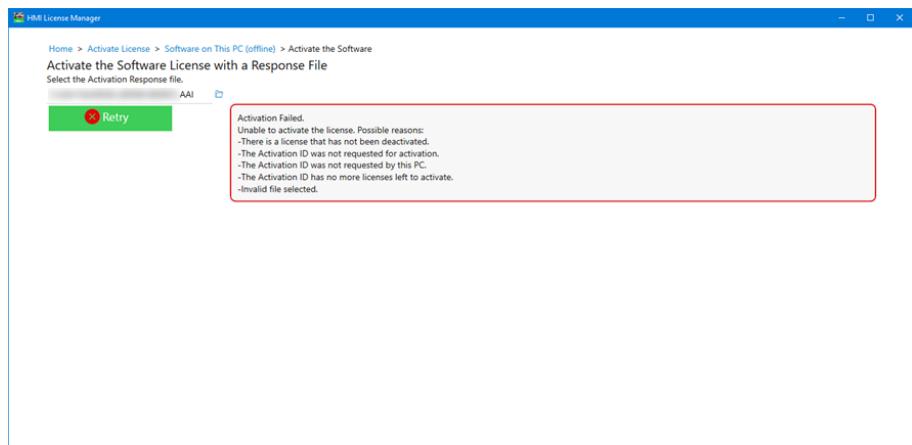
Deactivation Methods

Online Deactivation

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. Click **Deactivate License** > **Software on This PC**.

3. Select the Activation ID of the license to deactivate, and click the **Check** button to validate the Activation ID.
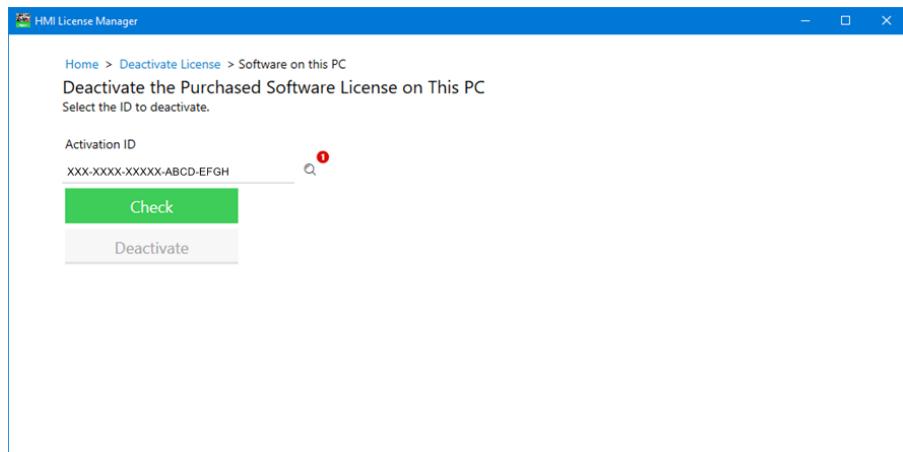
4. If the Activation ID is successfully verified, the **Check** button changes to **Successful** and the **Deactivate** button becomes active. Click the **Deactivate** button to deactivate the license.
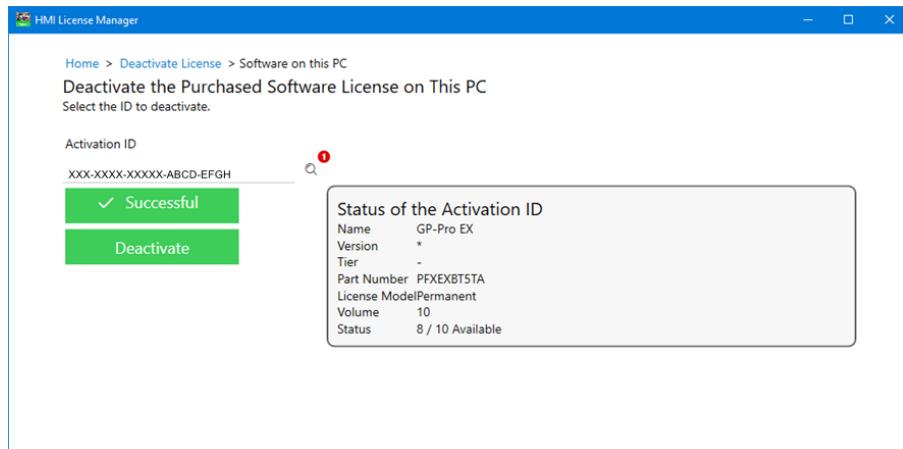
NOTE: Before clicking the Deactivate button, make sure that the license for the software you wish to deactivate is displayed.

5. If the license verification fails, the **Check** button changes to a **Retry** button and the possible causes of the failed verification are displayed. Resolve the cause and click the **Retry** button.
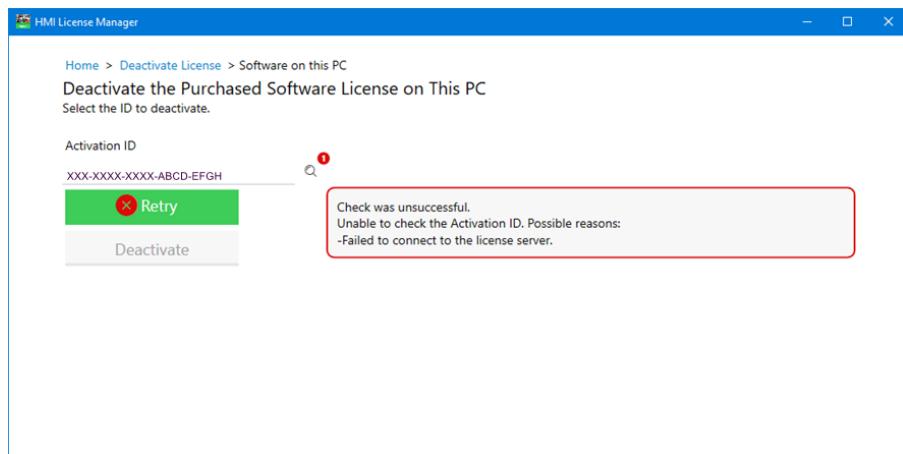
6. If the license is successfully deactivated, the **Deactivate** button changes to a **Successful** button and the Activation ID verification status is displayed.
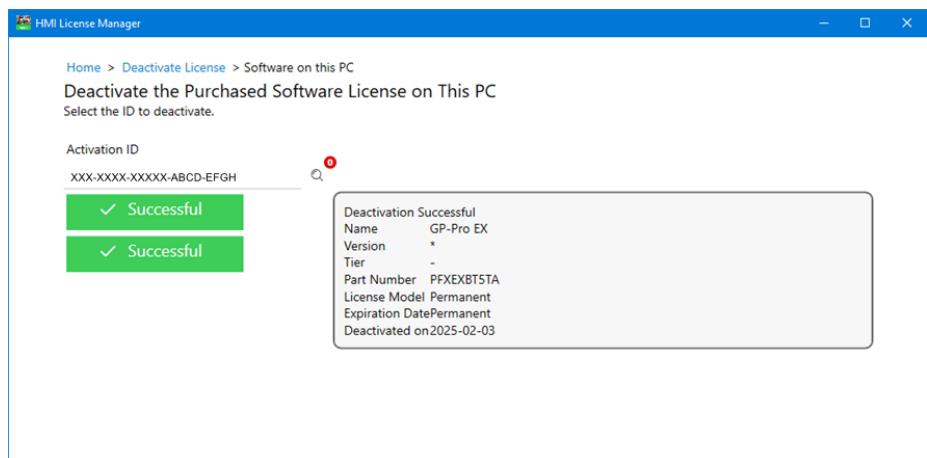
7. If the license cannot be deactivated, the **Deactivate** button changes to a **Retry** button and the possible causes of the failed deactivation are displayed. Resolve the cause and click the **Retry** button.
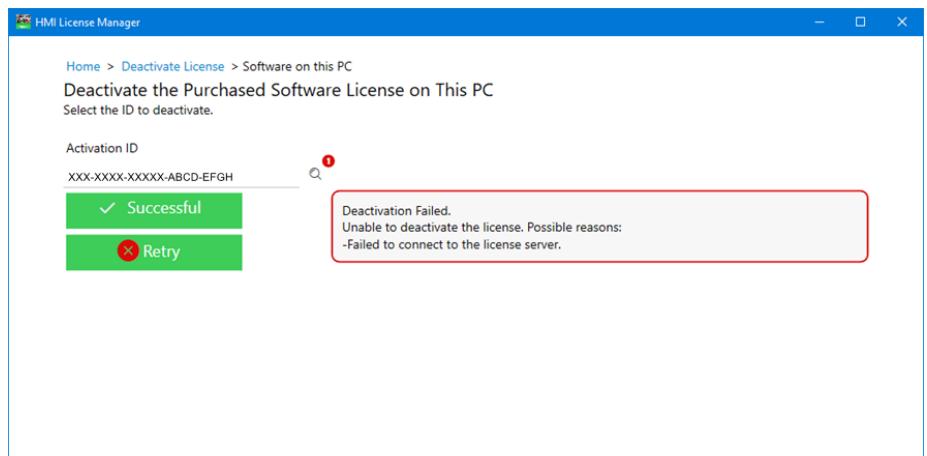
Offline Deactivation

Deactivation Flow

To deactivate an offline device, use the deactivation request file (*.dri) and deactivation response file (*.dai) for its deactivation from a PC that can communicate with the license server.

The following steps describe how to deactivate the license of an offline device.

PC1: Offline device requiring license deactivation

PC2: A personal computer that communicates with the license server and performs license deactivation

1. On PC1, select the Activation ID of the license you want to deactivate the license, then create a deactivation request file (*.dri). For more information, refer to Create Deactivation Request File on PC1 (Offline), page 23.

2. Using the deactivation request file created in PC1, deactivate the license on PC2 and create a deactivation response file (*dai). For more information, refer to Create Deactivation Response File from Deactivation Request File on PC2 (Online), page 24.

Deactivate the license on PC1 using the deactivation response file created on PC2. For more information, refer to Deactivate with Deactivation Response File on PC1 (Offline), page 27.

Create Deactivation Request File on PC1 (Offline)

Follow the steps below to use the Activation ID to create a deactivation request file (*.dri).

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. Click **Deactivate License** > **Software on This PC (offline)**.

3. Click **Initiate License Deactivation on This PC without an Internet Connection**.

4. Select the Activation ID of the license to deactivate, and click the **Create** button. In the **Save As** dialog box, specify where to save the file and click **OK** to create a deactivation request file.
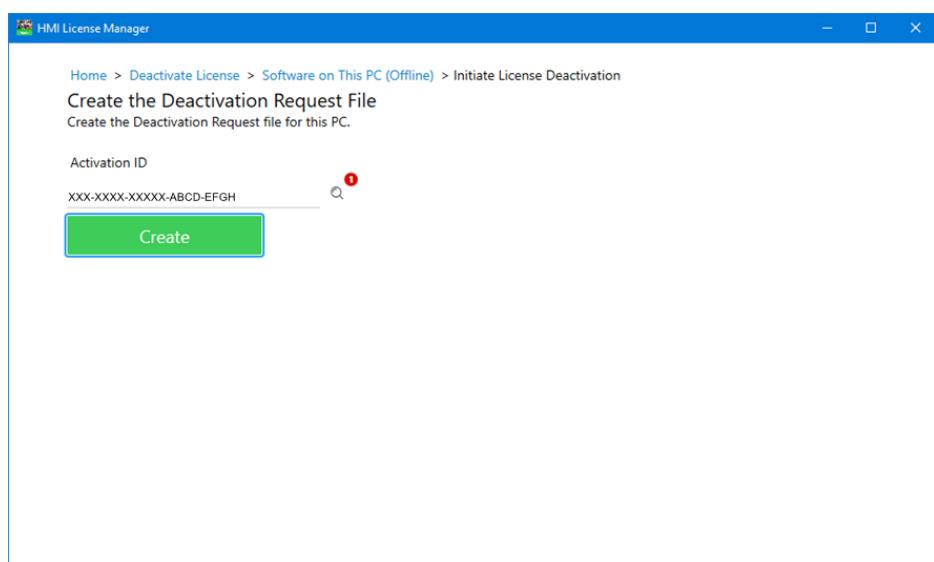

NOTE: Once the Deactivation Request File is created, the target software will no longer be able to use the license.

5. If the deactivation request file cannot be created, the **Create** button changes to a **Retry** button and the possible causes of the failed file creation are displayed. Resolve the cause and click the **Retry** button.

Create Deactivation Response File from Deactivation Request File on PC2 (Online)

Follow the steps below to use the deactivation response file to deactivate the license.

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. Click **Deactivate License** > **Software for an Offline Device**.

3. Select the deactivation request file, and click the **Check** button to perform license verification.
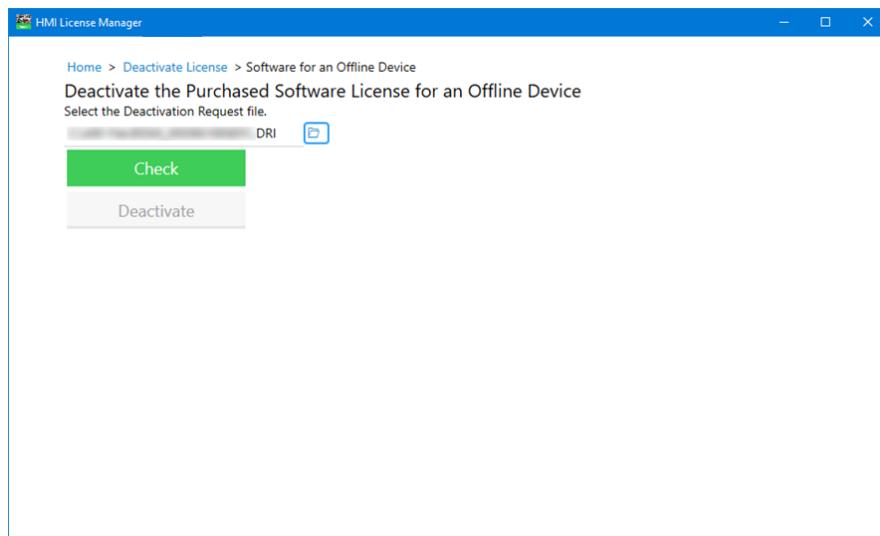

4. If the license verification is successful, the **Check** button changes to **Successful** and the **Deactivate** button becomes active. Click the **Deactivate** button to deactivate the license. The **Deactivate** button changes to **Successful** and the license information is displayed.
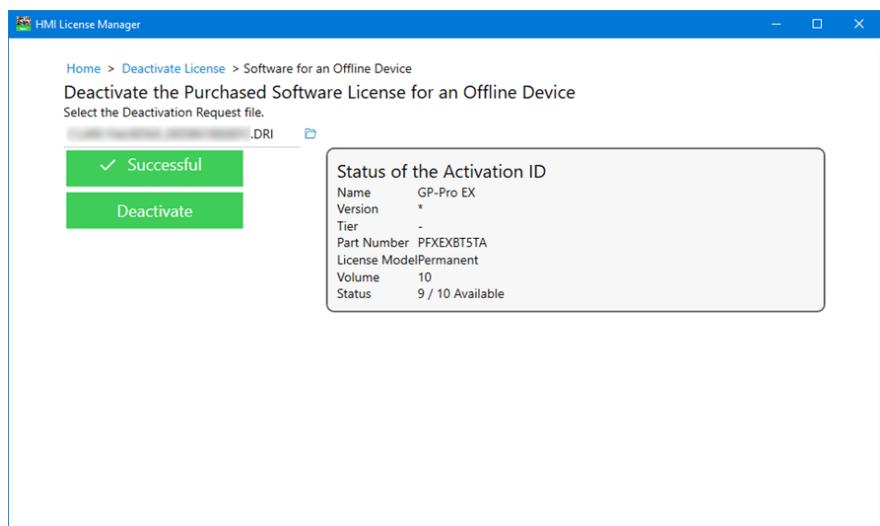

NOTE: Before clicking the Deactivate button, make sure that the license for the software you wish to deactivate is displayed.

5. If the license verification fails, the **Check** button changes to a **Retry** button and the possible causes of the failed verification are displayed. Resolve the cause and click the **Retry** button.
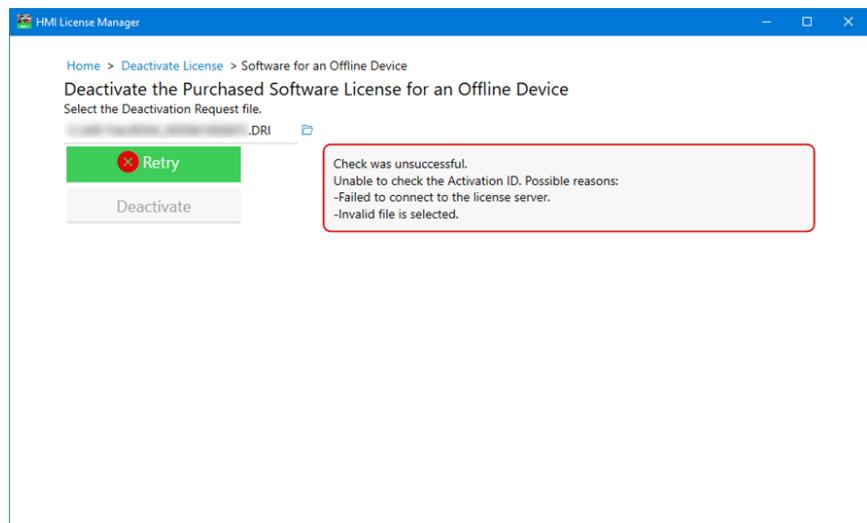
6. If the license is successfully deactivated, the **Save in** dialog box appears. Specify where to save the file and click **OK** to create a deactivation response file.
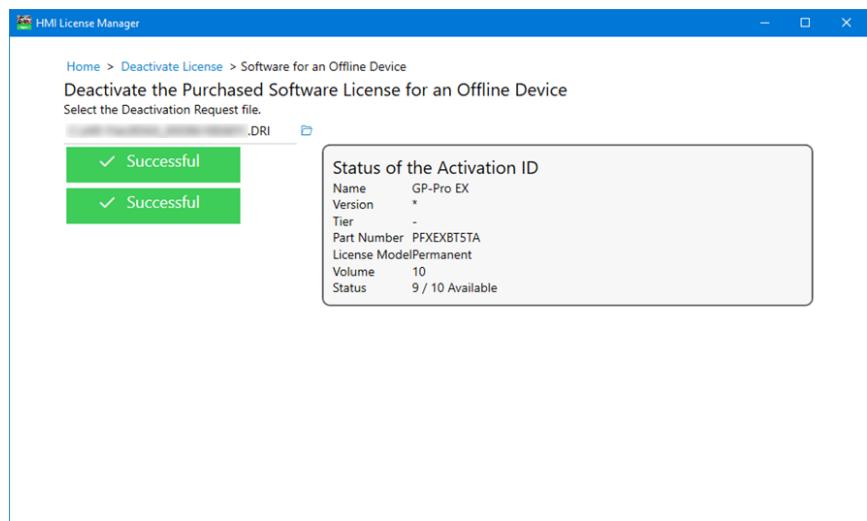
7. If the license cannot be deactivated, the **Deactivate** button changes to a **Retry** button and the possible causes for the failed deactivation are displayed. Resolve the cause and click the **Retry** button.
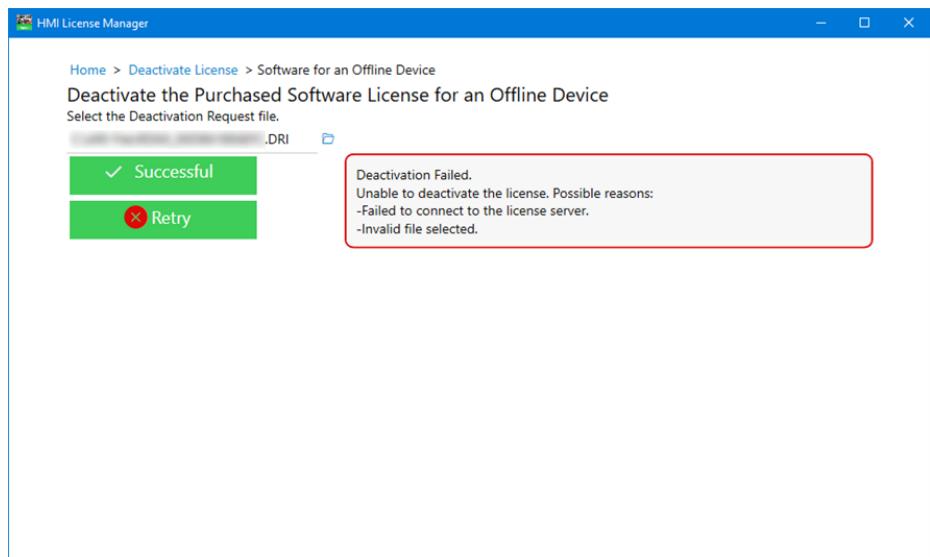
Deactivate with Deactivation Response File on PC1 (Offline)

Follow the steps below to use a deactivation response file to deactivate a license.

1. Start the HMI License Manager. For startup instructions, refer to Starting the HMI License Manager, page 11.

2. Click **Deactivate License** > **Software on This PC (offline)**.

3. Click **Deactivate the Software on This PC without an Internet Connection**.

4. Select the deactivation response file (*.dai), and click the **Deactivate** button to deactivate the license.
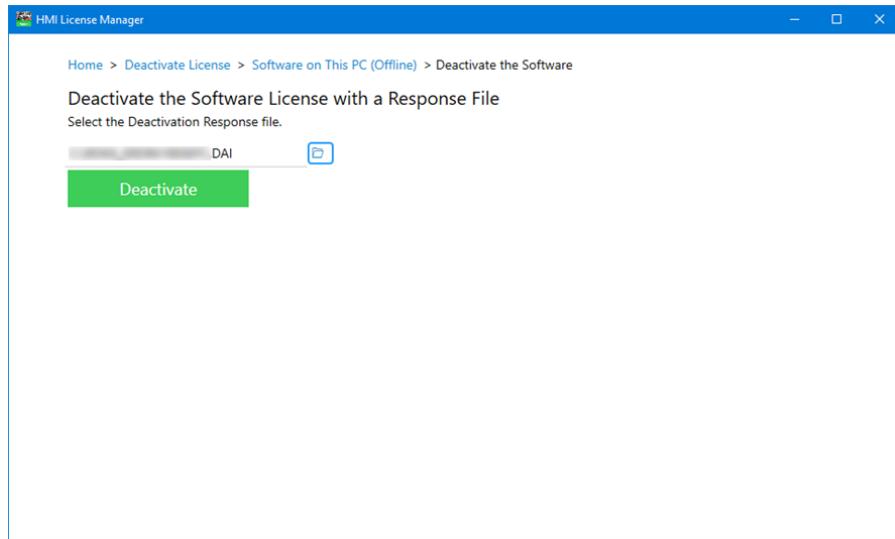
5. If the license is successfully deactivated, the license is removed from the **Licenses Activated on This PC** list on the **Home** screen.
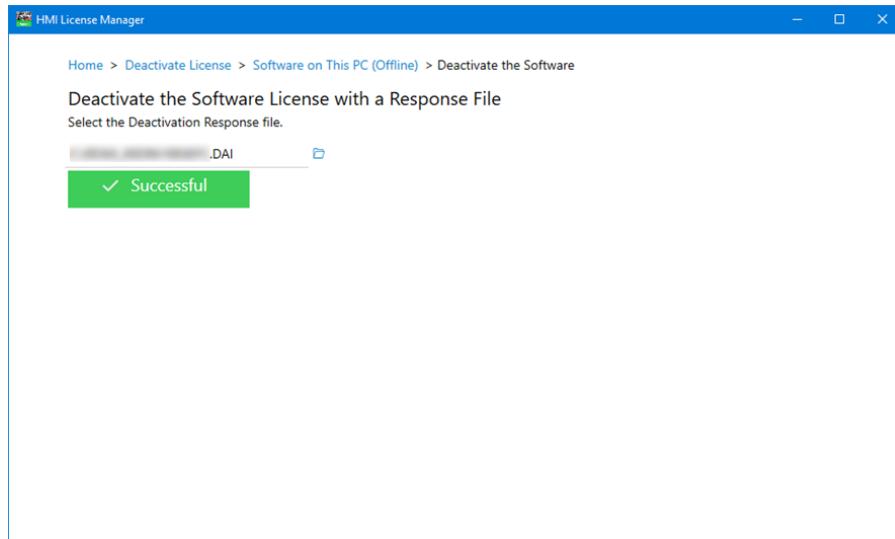
6. If the license cannot be deactivated, the **Deactivate** button changes to a **Retry** button and the possible causes for the failed deactivation are displayed. Resolve the cause and click the **Retry** button.

Troubleshooting

- Unable to activate and deactivate license

Please check the error message displayed in the HMI License Manager. If the problem persists after checking, please contact our Customer Care Center. Please provide the following log files when contacting us.

C:\ProgramData\Schneider Electric\HMI License Manager\logs\licensemanager.log

- Uninstalled the screen editing software or runtime application without deactivating the license

Uninstalling the screen editing software or runtime application does not deactivate the license. Please deactivate with the HMI License Manager.

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