Secude

HaloCAD

HaloCAD Add-on for Revit

Installation Manual

Version 2.5

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Typographic Conventions

This guide uses the following typographic conventions to distinguish types of in-text information and icons to alert you to important information.

Convention	Description
Boldface type	• Items you must select, such as menu options, command buttons, or items in a list. • Titles of sections, sub-sections, etc.
Italic type	• To emphasize a word • Error messages • Table and Figure captions
`Consolas Font`	• Package names • Filenames and directory names • XML element names and attribute names • Parameters • File type • Code examples Example: `hesadm.exe start -user <domain\user> -pwd <password>`
Hyperlink	Provides quick and easy access to cross-referenced topics. Hyperlinks are highlighted in blue and underlined.
Admonitions	Note Provides additional information relevant to the topic. Warning Contains information about circumstances, parameters, and so on that MUST be fulfilled. Failure to comply will have consequences for the current operation. Tip Contains useful information about the operation of the application. Info Contains information, guidelines, or suggestions for performing tasks more effectively.

1. About this Manual

This manual describes how to install and configure the HaloCAD Add-on for Revit.

Reference

All technical manuals are included with the product package.

Before using this manual, administrators should review the **Technical Reference Manual** to understand the product architecture, verify the prerequisites, and activate the license. They should also review the **Release Notes** to verify the supported operating systems, CAD applications, and file types before following the procedures in this manual.

2. Installing the HaloCAD Add-on for Revit

This chapter describes how to install and configure the HaloCAD Add-on for Revit. This manual briefly explains steps 1-3, which cover the prerequisites, obtaining the licensing key, and creating an encrypted JSON file; for more information, please refer to the Technical Reference Manual.

2.1. Step 1: Fulfill the Prerequisites

1. Review the **Release Notes** for the list of supported operating systems, CAD applications, and file types.
2. Ensure that all prerequisites described in the **Technical Reference Manual** are completed before installing the add-on.

2.2. Step 2: Obtain the License Key

Obtain the license key and choose whether to activate it automatically or manually.

2.3. Step 3: Create an Encrypted JSON File

To simplify installation and protect Microsoft Entra ID application details, create an encrypted JSON configuration file by using the administrator tool. Place the `hc.conf.enc` file in the same directory as the HaloCAD installer. During installation, HaloCAD automatically reads the Microsoft Entra ID application details, so you do not need to enter them manually.

2.4. Step 4: Install the Add-on

You can install the add-on by using one of the following methods:

1. **Graphical Mode**
   Provides an interactive, wizard-based installation through the graphical user interface (GUI).
2. **Silent Mode**
   Installs the add-on from the command line without displaying a user interface or requiring user interaction.
3. **Microsoft System Center Configuration Manager (SCCM)**
   Enables administrators to deploy the add-on to multiple computers across the enterprise by using Microsoft System Center Configuration Manager (SCCM).

2.4.1. Graphical Mode

Before you begin

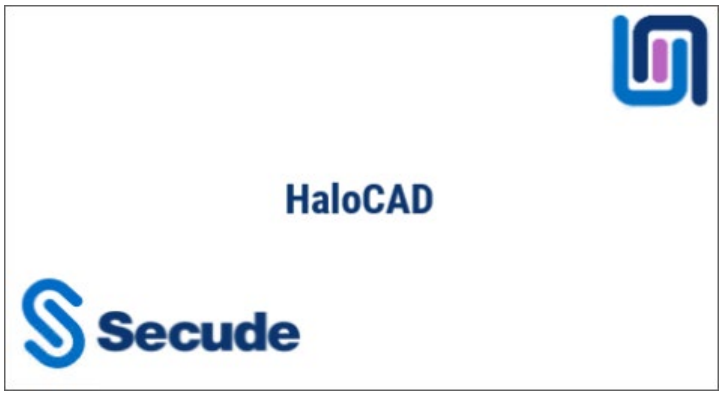
The following prerequisites must be met:

1. The user installing the HaloCAD Add-on must have administrator privileges.
2. Ensure that all active and open CAD applications are closed. If not, HaloCAD displays the following warning message: "*Please close all the CAD applications to proceed with the installation of HaloCAD Add-on for Revit.*"
3. Ensure that the supported CAD applications are installed. If not, HaloCAD displays the following warning message: "*No supported CAD applications are available in the system.*"
4. Ensure that your Microsoft Entra tenant details are ready when the installation UI requests them. Alternatively, you can use `hc.conf.enc` for a secure, automated installation.

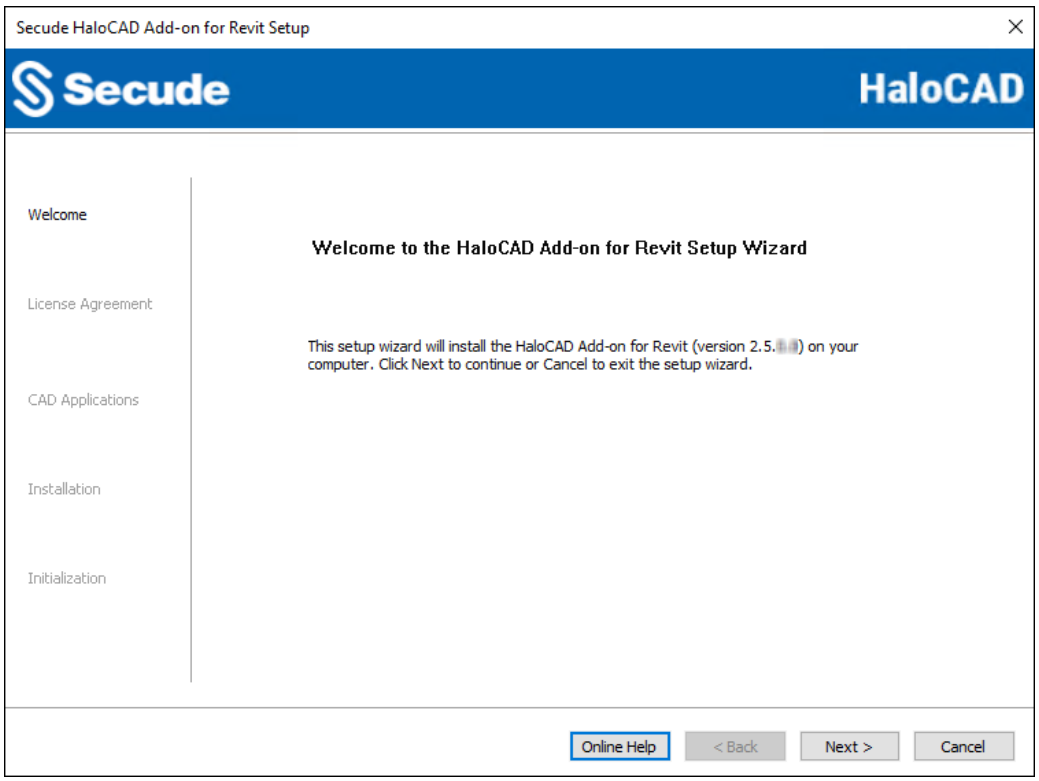
Installation Procedure

Install the add-on using the GUI-based setup program provided in the installation package.

1. Double-click the installer `HaloCAD_Revit_Setup.exe` file.
2. Depending on your Windows security settings, a prompt may appear stating, *"Do you want to allow the following program to make changes to this computer?"* If this warning appears, click **Yes** to continue with the installation.
3. When the installer starts, the **Startup** dialog appears, followed by the **Welcome** dialog.

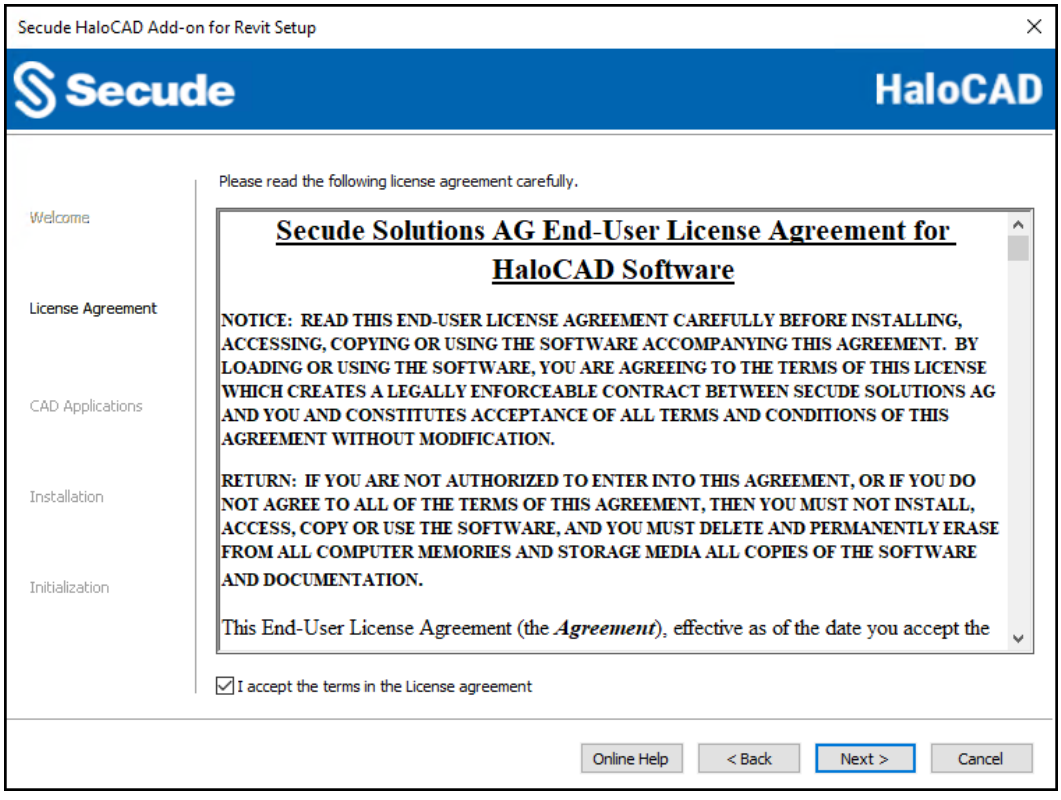


Startup dialog



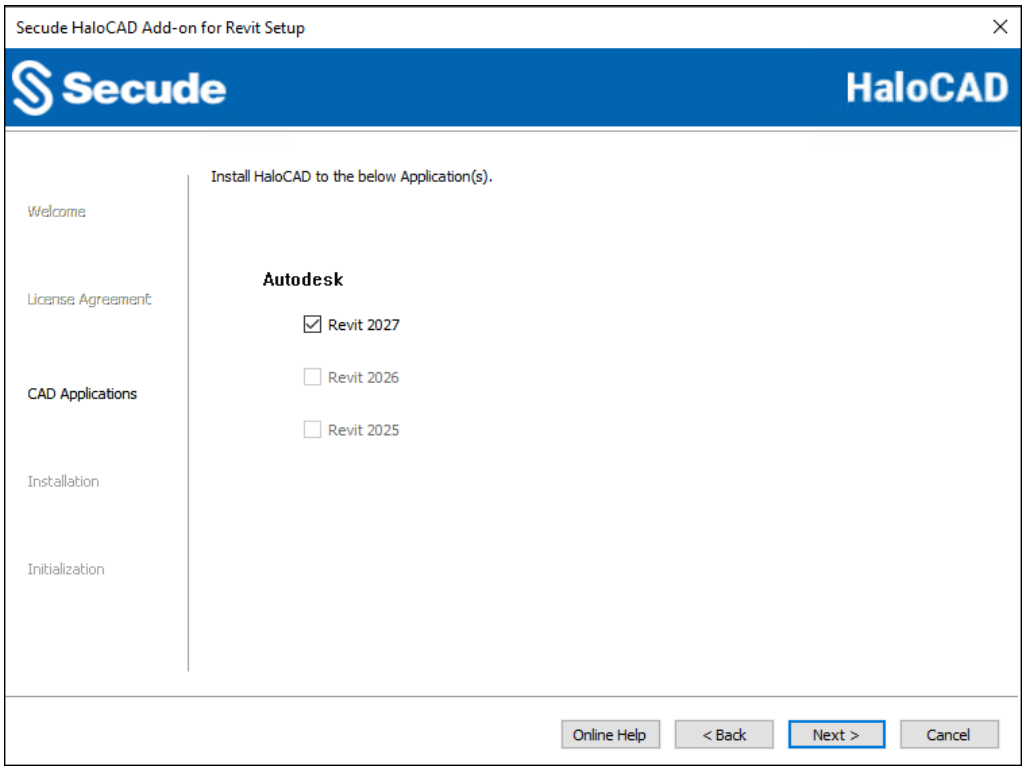
Welcome dialog

4. Click **Next** to continue the installation. The installer UI includes a link to the product's online documentation. When you click **Online Help**, the installation help page opens in your browser.
5. The **License Agreement** dialog appears.



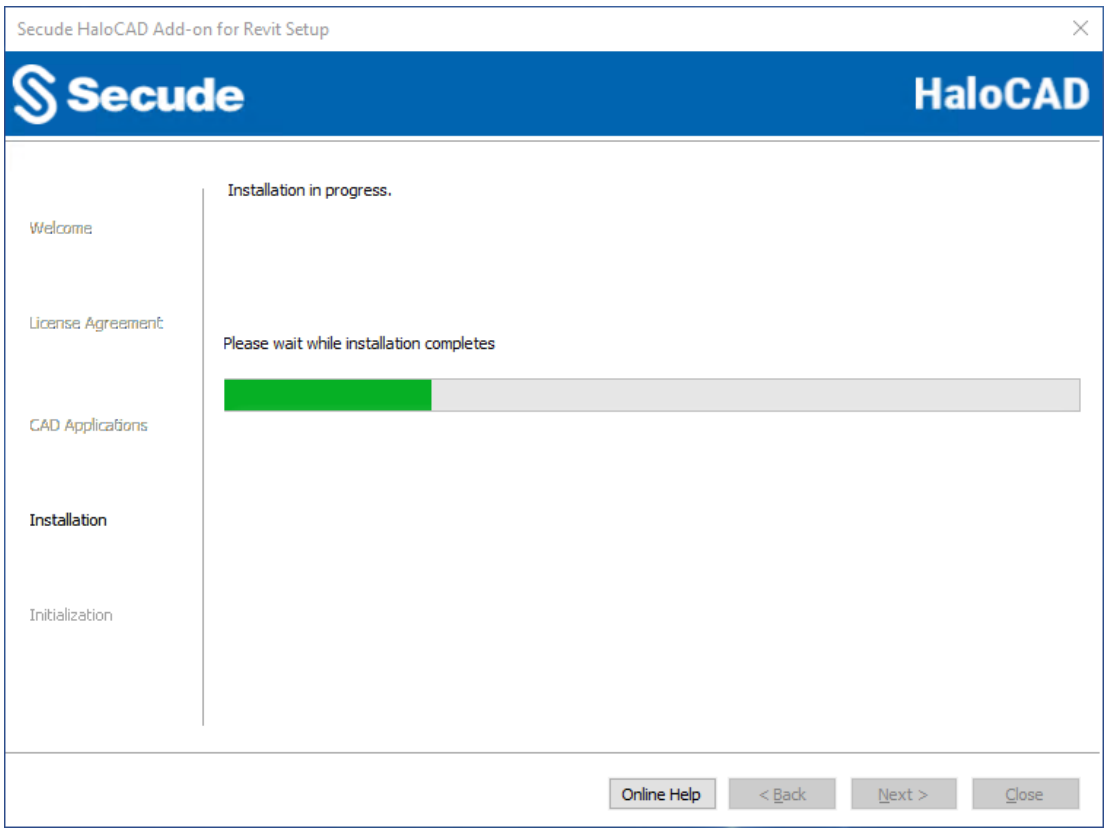
End-User License Agreement dialog

6. Read the **End-User License Agreement**. If you agree to the terms, select **I accept the terms in the License Agreement** and click **Next** to continue.
7. The **CAD Applications** dialog appears.



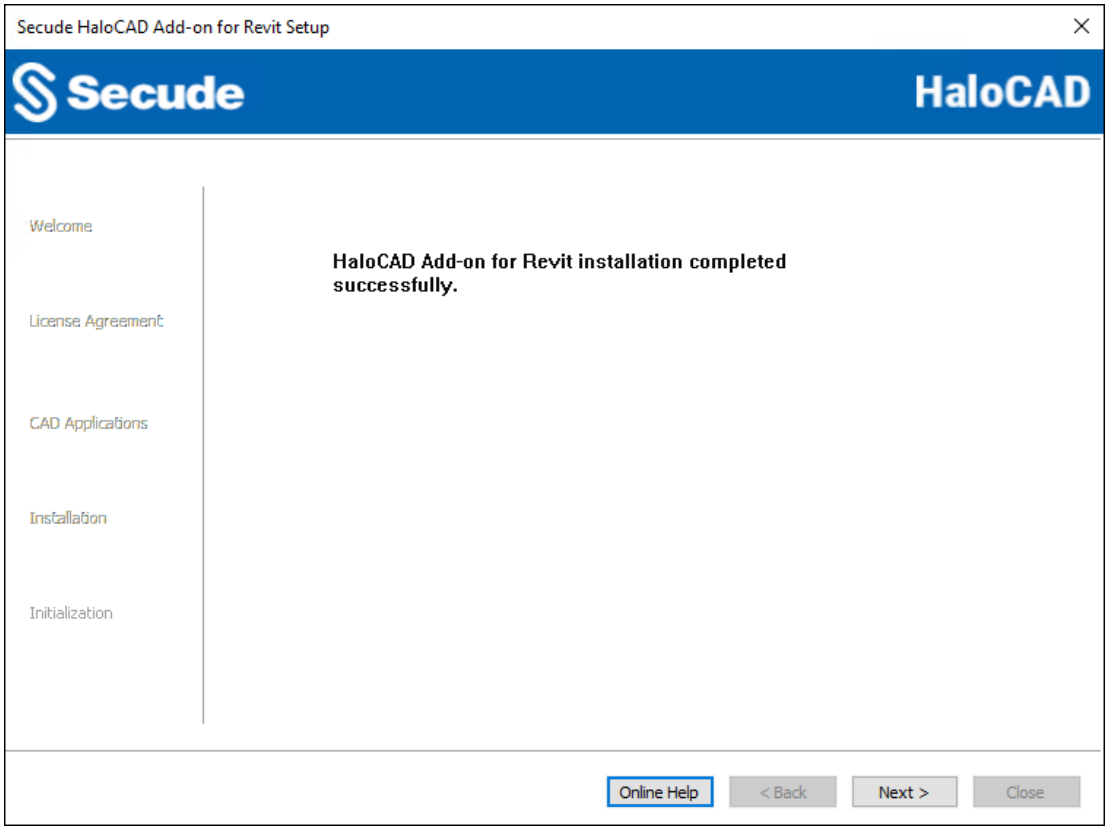
CAD application version selection dialog

8. Select the installed **Revit** application version on your system. To review or modify the installation settings, click **Back**. When you are ready to continue, click **Next** to begin the installation.
9. The installation begins, and the progress is displayed.



Installation progress dialog

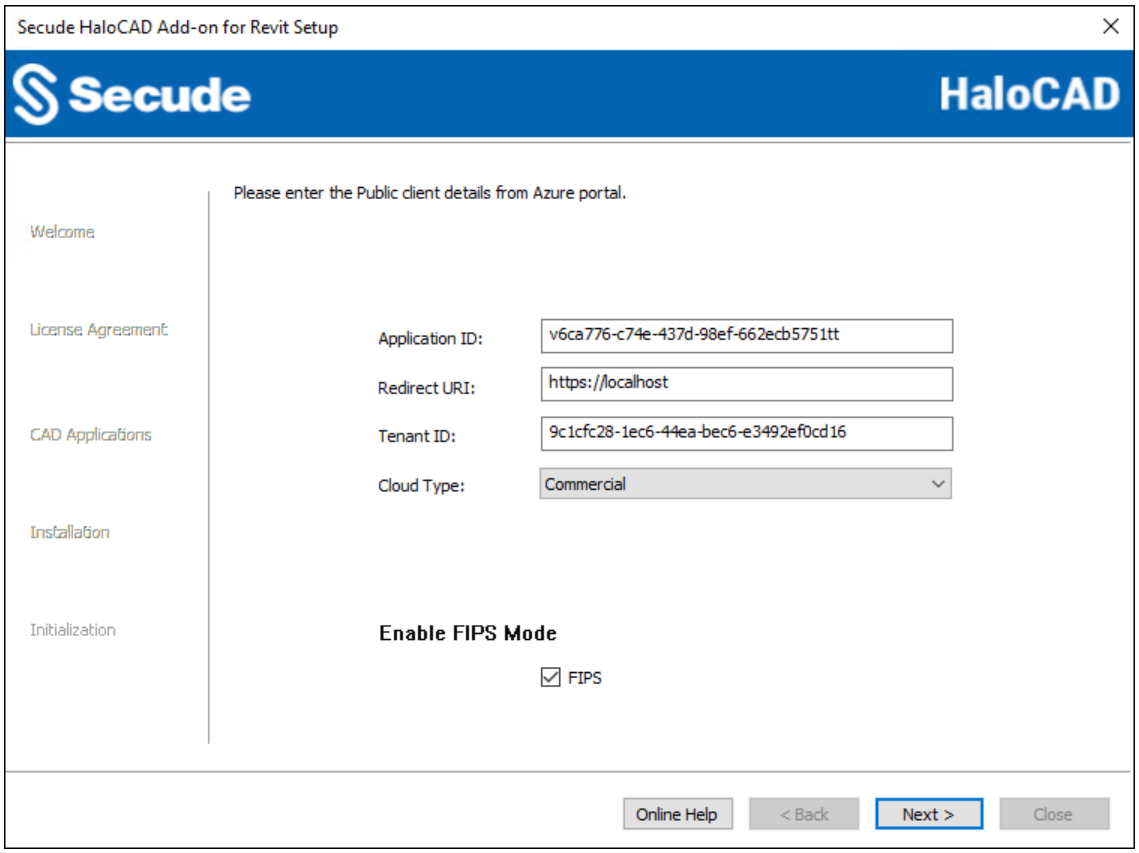
10. When the installation is complete, a confirmation message appears.



Installation completed dialog

11. Click **Next** to continue.
12. The **Initialization** dialog appears. To prevent connectivity issues, ensure that the correct Microsoft Entra ID application details are entered on the screen.

    If the `hc.conf.enc` file is not present. Enter the following Microsoft Entra ID application details:



Initialization dialog with application details

a. **Application ID:** Enter the unique identifier (client ID) of the registered Microsoft Entra ID application. For example, `v6ca776-c74e-437d-98ef-662ecb5751tt`.

b. **Redirect URI:** Enter the redirect URI specified when registering the application. For example, `https://localhost`.

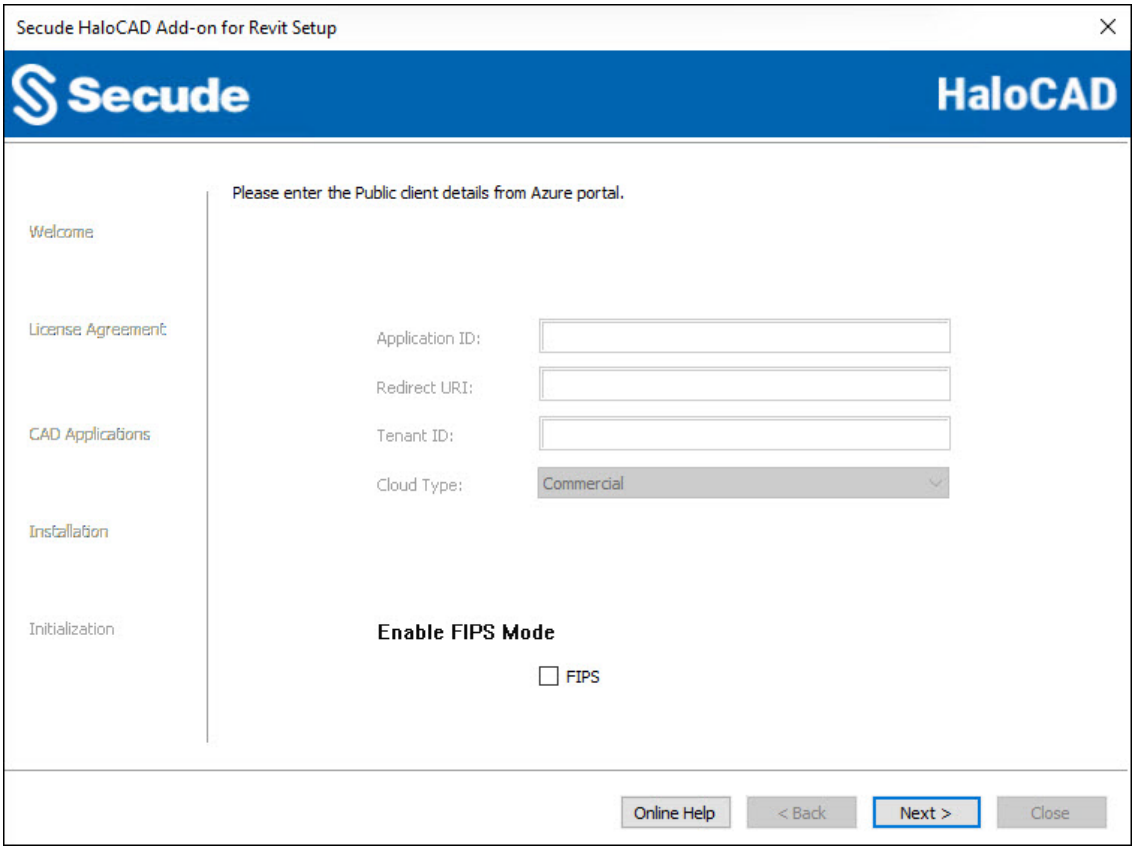
c. **Tenant ID:** If the application is registered as a **Single tenant** application, enter the tenant ID (GUID). Otherwise, leave this field blank. For example, `9c1cfc28-1ec6-44ea-bec6-e3492ef0cd16`.

d. **Cloud Type: Commercial** is selected by default. Depending on your Microsoft Entra ID cloud environment, select one of the following options: **Commercial**, **Custom**, **Germany**, **US_DoD**, **US_GCC**, **US_GCC_High**, **US_Sec**, **US_Nat**, or **China_01**. If you select **Custom**, specify the following:

   - **Protection Cloud URL:** For example, `https://api.aadrm.com`
   - **Policy Cloud URL:** For example, `https://dataservice.protection.outlook.com`

e. **Enable Federal Information Processing Standards (FIPS) Mode:** Select this option to use FIPS-compliant encryption algorithms. When enabled, Microsoft Purview Information Protection (MPIP) uses only FIPS-compliant encryption algorithms. When disabled, MPIP uses standard encryption algorithms. If this option is not enabled during installation, you can enable it later by modifying the registry. For more information, refer to section "Step 5 Modify Registry Settings".

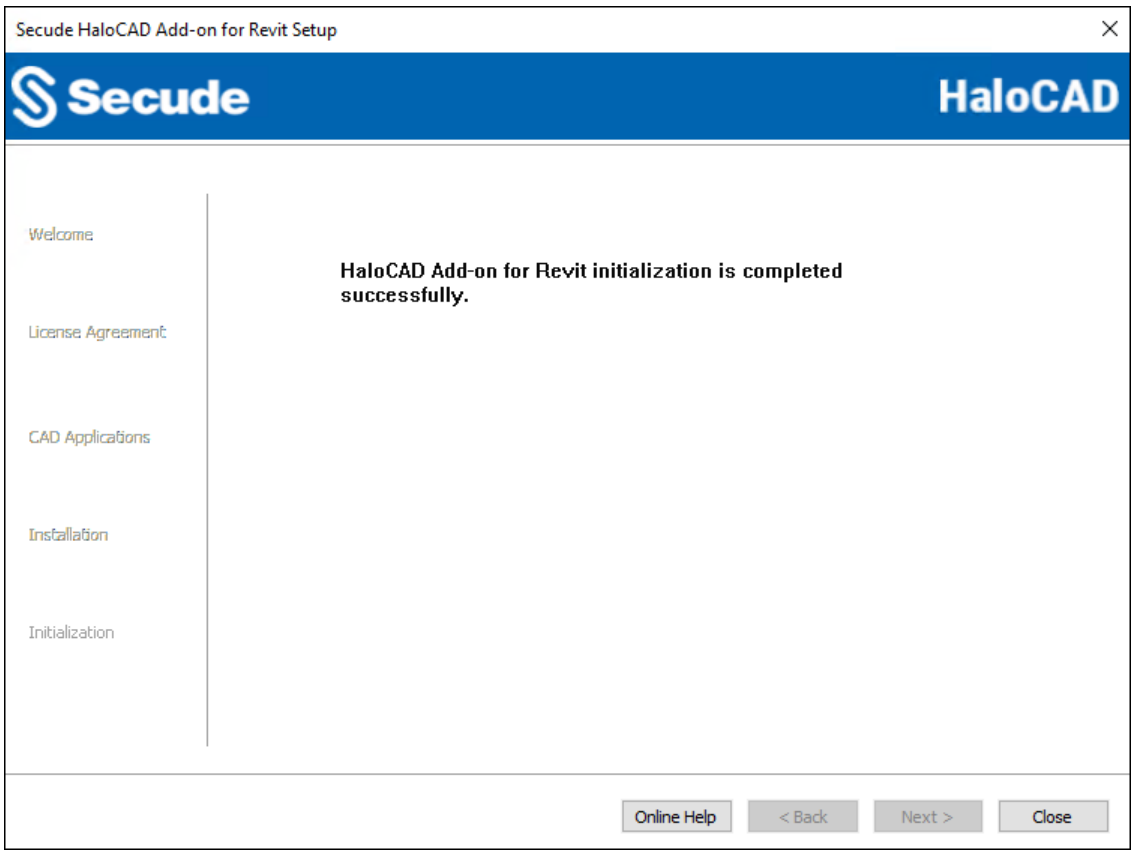
If the `hc.conf.enc` file is present.



Initialization dialog without application details

The installer automatically reads the Microsoft Entra ID application details from the `hc.conf.enc` file. As a result, the Microsoft Entra ID application fields are disabled and appear empty. Only **FIPS Mode** can be enabled or disabled.

13. Click **Next**.
14. Once the initialization is complete, a success message appears as shown below.



Initialization completed dialog

15. Click **Close** to close the installation wizard.

Post-installation checks:

1. To view the add-on, open the **Revit Application** > **HaloCAD** tab.
2. **Masking Personally Identifiable Information (PII)**: By default, the HaloCAD Add-on masks Personally Identifiable Information (PII) in logs, such as email names, file paths, and IP addresses in the MIP SDK logs. In HaloCAD logs, information such as the label name, label ID, engine ID, policy ID, and watermark text is masked with asterisks. To view PII in clear text, create the following registry entry in Path: `Computer\HKEY_CURRENT_USER\SOFTWARE\Secude\HaloCAD Add-on for Revit`
   Name: `mipallowpii`, **Type**: `REG_SZ`, **Value**: `true`
   The log files are located at the following paths:
   - **MIP SDK log**: `%AppData%\Roaming\Secude\HaloCAD\revit\mip\logs\mip_sdk.miplog`
   - **HaloCAD log**: `%AppData%\Roaming\Secude\HaloCAD\revit\halocad.log`
3. If your network infrastructure includes a proxy server that provides access to external websites, then you must manually add the proxy settings to connect to the Secude License Manager URL. To do so, create a registry entry in the root directory,
   `Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Secude\HaloCAD Add-on for Revit`
   Name: `proxyuri`, **Type**: `REG_SZ`, **Value**: The format is, `<URL>:<PORT>`. For example,

`http://10.41.0.130:808`

2.4.2. Silent Mode

Besides graphical mode, the add-on can be installed in silent mode, which does not require user involvement or display a user interface. It is a convenient way to streamline installation using the command at once.

1. Open the Command Prompt with elevated rights (Run as Administrator).
2. Navigate to the add-on installer directory.
3. To view the list of options available in silent mode, follow these steps:

   Type `HaloCAD_Revit_Setup.exe -help`

   Press **Enter**

   Output

   ...

   ```
   HaloCAD_Revit_Setup.exe -install -application <Revit 2027| Revit 2026| Revit 2025> -
   applicationid <azure_application_id> -redirecturi <azure_redirect_url> -tenantid
   <azure_tenant_id for Single-tenant app|null for Multi-tenant app> [-cloudtype
   <Commercial|Custom|Germany|US_DoD|US_GCC|US_GCC_High|US_Sec|US_Nat|China> -
   protectioncloudurl <protection cloud url> -policycloudurl <policy cloud url>] -
   enablefipsmode <true|false>
   [Default Parameters: cloudtype - Commercial and enablefipsmode - false]
   HaloCAD_Revit_Setup.exe -uninstall
   To delete HaloCAD cache through Silent Mode Uninstallation
   HaloCAD_Revit_Setup.exe -uninstall -clearcache <yes>
   For Silent Mode Installation if ENC file already exists in the same location
   HaloCAD_Revit_Setup.exe -install -application <Revit 2027| Revit 2026| Revit 2025> -
   enablefipsmode <true|false>
   ```

4. The following example installs the add-on by using the Microsoft Entra ID application details.

   ```
   HaloCAD_Revit_Setup.exe -install -application "Revit 2026" -applicationid v6ca776-
   c74e-437d-98ef-662ecb5751tt -redirecturi https://localhost -tenantid 9c1cfc28-1ec6-
   44ea-bec6-e3492ef0cd16 -cloudtype Custom -protectioncloudurl https://api.aadrm.com -
   policycloudurl https://dataservice.protection.outlook.com -enablefipsmode true
   ```

5. The following example installs the add-on by using the `hc.conf.enc` file located in the same directory as the installer.

   ```
   HaloCAD_Revit_Setup.exe -install -application "Revit 2026" -enablefipsmode true
   ```

6. Press **Enter**.
7. The installation is complete.

2.4.3. Via System Center Configuration Manager

Microsoft System Center Configuration Manager (SCCM) enables organizations to deploy operating systems and applications across enterprise-managed Windows devices.

Using SCCM, administrators can deploy the HaloCAD Add-on silently to multiple target computers across the enterprise.

Before You Begin

1. Review the prerequisites described in the **Graphical Mode** section.
2. Follow your organization's best practices when creating an SCCM deployment.
3. For information about configuring SCCM, refer to the Microsoft documentation.

Deployment Using SCCM

This procedure assumes that your SCCM environment is already configured. Use the Silent Mode command-line options described in the previous section to create and deploy the installation package through SCCM.

2.5. Step 5: Modify Registry Settings

Prerequisite: To modify the add-on registry entries, first launch the CAD application and sign in to Microsoft Purview Information Protection to ensure that an active HaloCAD session is established.

Note: Only the registry entries listed in the table below should be modified.

The HaloCAD registry entries are grouped into two sections: **HKEY_CURRENT_USER** and **HKEY_LOCAL_MACHINE**. Depending on your requirements, you can modify the following settings:

1. `HKEY_CURRENT_USER\SOFTWARE\Secude\HaloCAD Add-on for Revit`. Once you have logged into the HaloCAD Session, open Registry Editor, navigate to this path, and modify the desired registry key. For example, to change the log level, double-click **loglevel**, change the "Value data" using the values listed in the table below, and then click **OK**.
   a. loginterval
   b. loglevel
   c. logsize
2. `HKEY_LOCAL_MACHINE\SOFTWARE\Secude\HaloCAD Add-on for Revit`: enable_fips (This entry does not require an active HaloCAD session.)

Name	Default Value	Type	Description
loginterval	`30`	REG_SZ	It automatically removes log files that are older than the default retention period. By default, log files older than 30 days are deleted.
loglevel	`0X00000003 (3)`	REG_DWORD	Log level information is logged in the `halocad.log` file. • Error—0. Logs error events that prevent program execution. • Record—1. Records all the details about the behavior of the application. • Warning—2. Logs unexpected exceptions that indicate potential problems. • Information—3. A standard log level that highlights the progress of the application. • Verbose—4. Debug events are logged. • Verbose 1—5. Debug 1 events are logged.

Name	Default Value	Type	Description
			• Verbose 2—6. Debug 2 events are logged. • Verbose 3—7. Debug 3 events are logged. • Verbose 4—8. Debug 4 events are logged.
logsize	`1024`	REG_SZ	The `halocad.log` file is created at the start of a HaloCAD session and is stored in the default parent location directory. To have control over log file size, HaloCAD allows you to configure backup/archive the current log file with a timestamp when it exceeds the default size of `1024 MB`, and creates a new one. Format: `halocad<ddmmyy_hhmmss>.log`
enable_fips	`false`	REG_SZ	Enable or Disable FIPS Mode 1. true: MPIP uses only FIPS-compliant encryption algorithms. 2. false: MPIP uses standard encryption algorithms.

Configuration in the HaloCAD Registry

What to do next

1. If the encrypted configuration file was placed with the installer:
   a. You can launch the CAD application and start using the HaloCAD features immediately.
   b. The license is activated silently in the background.
   c. For details on protecting CAD files, refer to the Operations Manual.
2. If the encrypted configuration file was not placed with the installer:
   a. You must activate the license manually.
   b. Follow the instructions in the “UI-based Manual License Activation” section of the Technical Reference Manual.

3. Appendix

This section provides supplemental information.

Installer Version Requirement

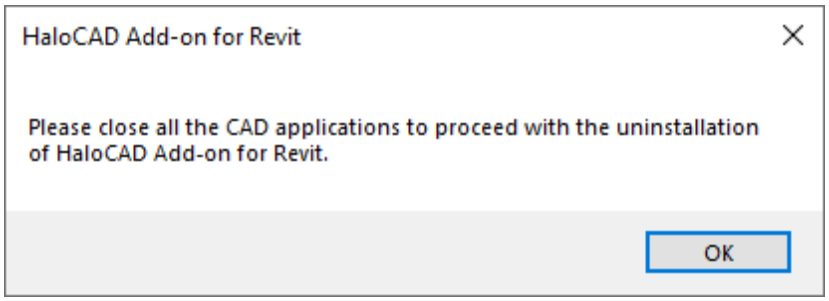
When uninstalling the HaloCAD add-on, use the installer for the currently installed version, whether you run it by double-clicking the installer or from the command line. Using a different installer version may result in errors.

Uninstalling the HaloCAD Add-on for Revit

When you no longer use the add-on, you may uninstall the application. Uninstalling removes all files and registry settings that were added to your computer during the initial installation.

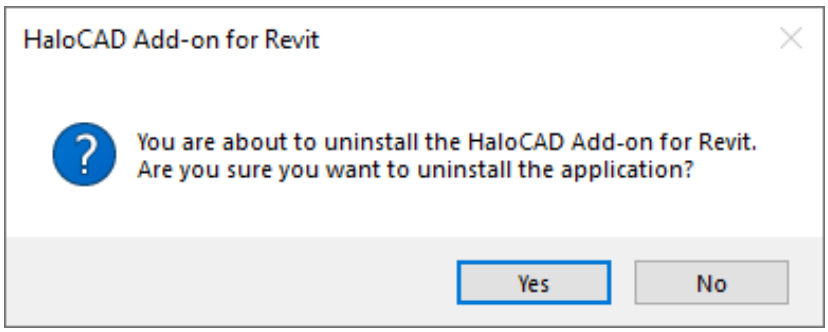
Method #1

1. Click the **Start** menu > go to **Control Panel** > **Programs** > **Programs and Features** > **Uninstall a Program** > select **HaloCAD Add-on for Revit** application from the list > right-click and select the **Uninstall** option, or double-click the installer `HaloCAD_Revit_Setup.exe` file.
2. Depending on your Windows security settings, you may get a security warning as "*Do you want to allow the following program to make changes to this computer*?". If this warning appears, click the **Yes** button to confirm that you want to uninstall the add-on.
3. The HaloCAD installer checks the current user session for any supported CAD applications running in the background and, if any are detected, displays the following message prompting you to close them before continuing with the uninstallation.



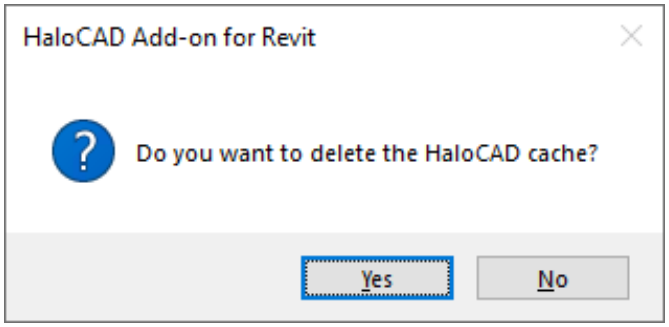
Uninstall message #1

4. Click **OK** and close all HaloCAD-supported CAD applications.
5. Repeat step 1, and the following confirmation message appears.



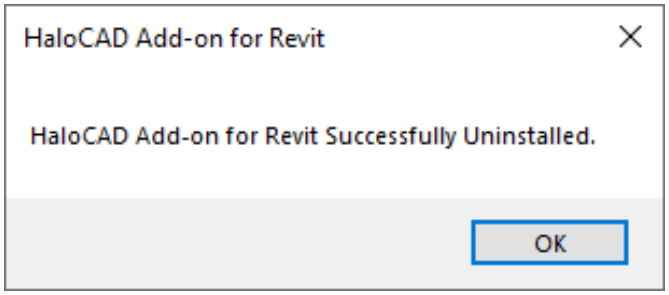
Uninstall Message #2

6. Click **Yes** to confirm the uninstallation of HaloCAD from your computer.
7. When prompted with the following message, click **Yes** to delete the identity of the currently logged-in user from the ongoing session (`%AppData%\Roaming\Secude\HaloCAD\revit`), or **No** to proceed with the uninstallation without removing the identity. This prompt does not appear if no HaloCAD session has been initiated.



Uninstall message #3

8. The HaloCAD add-on has been uninstalled successfully. Click **OK** to close the dialog box.



Uninstall message #4

Method #2

The add-on can be removed using the command line, as illustrated in the sample below.

1. Open Command Prompt.
2. Navigate to the add-on installer's directory.
   a. **Option 1**: Uninstall without deleting the identity of the currently logged-in user:

```
HaloCAD_Revit_Setup.exe -uninstall
```

b. **Option 2**: Uninstall and delete the identity of the currently logged-in user:

```
HaloCAD_Revit_Setup.exe -uninstall -clearcache <yes>
```

3. The uninstallation process is complete.

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Secude

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About Secude

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Our solutions extend Microsoft Purview Information Protection (MPIP) to secure sensitive files—including CAD and PLM assets—from the moment of creation. By embedding persistent protection and access controls directly into design and engineering data, we help enterprises prevent Intellectual Property (IP) theft, data leakage, reputational damage, and compliance risks. With operations in Europe, North America, and Asia, Secude supports global manufacturers, defense contractors, and AEC firms in implementing robust IT security strategies across the product lifecycle and digital supply chain.