



HaloCAD for Windchill 2.6
Operations Manual

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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.

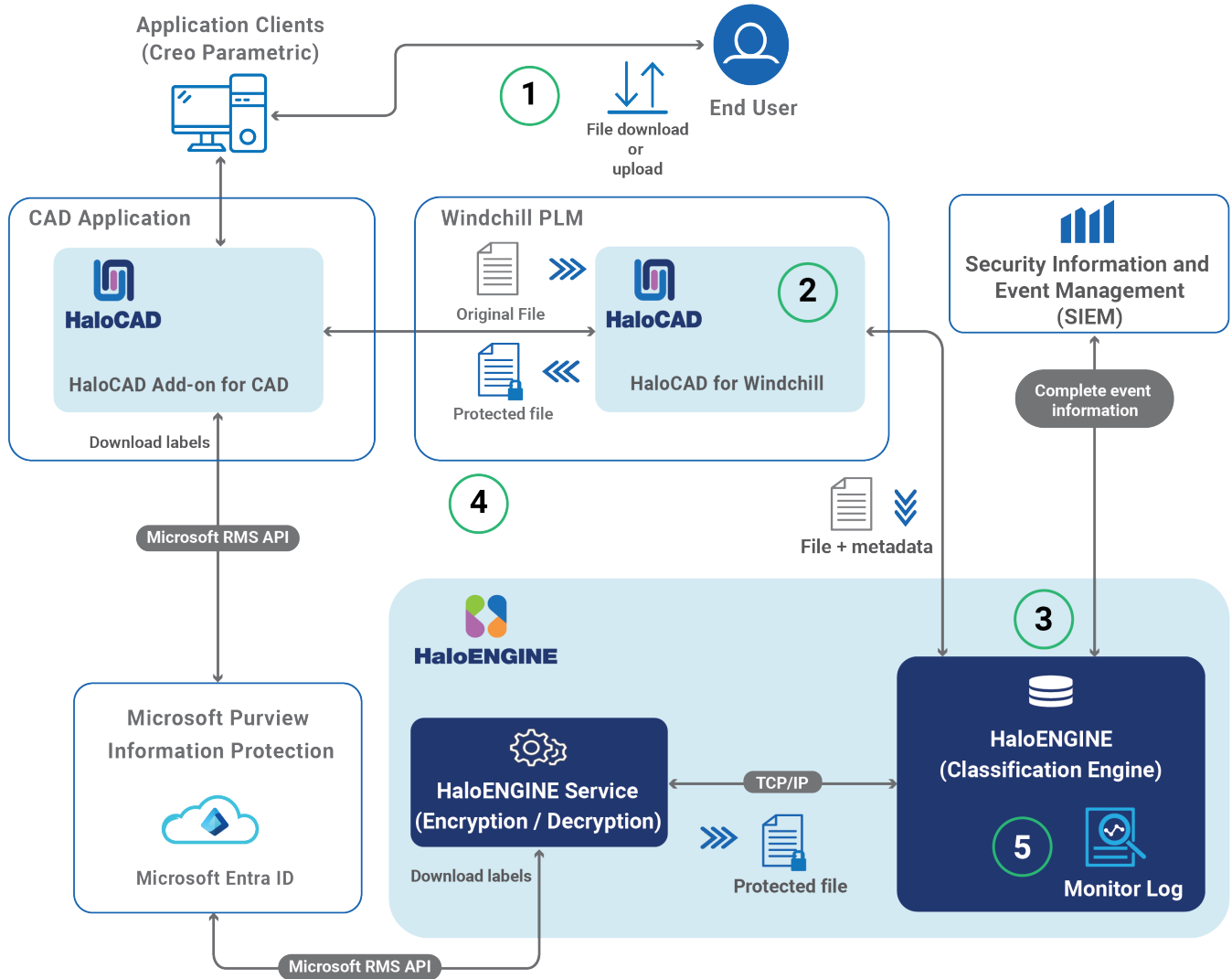
Convention	Description
Boldface type	<ul style="list-style-type: none">• Items you must select, such as menu options, command buttons, or items in a list.• Titles of sections, sub-sections, etc.
<i>Italic type</i>	<ul style="list-style-type: none">• To emphasize a word• Error messages• Table and Figure captions
Consolas Font	<ul style="list-style-type: none">• Package names• Filenames and directory names• XML element names and attribute names• Parameters• File type• Code examples <p>Example:</p> <pre>hesadm.exe start -user <domain\user> -pwd <password></pre>
Hyperlink	Provides quick and easy access to cross-referenced topics. Hyperlinks are highlighted in blue and underlined.
Admonitions	<p>Note</p> <p>Contains detailed information about a topic and are of direct importance to the subject at hand.</p>
	<p>Warning</p> <p>Contains information about circumstances, parameters, and so on that MUST be fulfilled. Failure to comply will have consequences for the current operation.</p>
	<p>Tip</p> <p>Contains useful information about the operation of the application.</p>
	<p>Info</p> <p>Contains information, guidelines, or suggestions for performing tasks more effectively.</p>

1. About this Manual

This manual provides comprehensive guidelines and step-by-step instructions for working with HaloCAD solutions (Monitor and Protect). For installation and configuration instructions, please refer to the "Installation Manual" shipped with the product package.

2. How does it Work?

At a high level, HaloCAD workflow involves the following steps:



HaloCAD for Windchill

1. Step 1: File check-out/check-in

- A user creates a new CAD / Office document or opens an existing workspace object from the embedded browser.
- Applies, check-out (download), or check-in (upload).

2. Step 2: File transfer through PLM HaloCAD component

HaloCAD for Windchill collects the metadata and retrieves the action derivation from the HaloENGINE. File processing is based on the following parameters:

- If HaloENGINE Service=Local, send the file directly to the (local) HaloENGINE Service for file handling either in "File path" or "Stream".

- b. If HaloENGINE Service=Remote, the metadata and label information from the HaloENGINE is sent to the remote HaloENGINE Service for file processing

3. Step 3: Encryption/decryption

According to the metadata collected, the action is executed in the file.

- a. The file will not be processed if any inappropriate action is present or no action is available. It will be downloaded without any changes.
- b. If a suitable action with a label is found, the file is sent to the HaloENGINE in local mode or to the HaloENGINE Service in remote mode to further file processing. Note: In the check-in case, the label is removed, and then the decrypted file is stored in Windchill PLM.
- c. **Other action:** HaloCAD prevents file downloads if a block action rule in HaloENGINE is properly configured.

4. Step 4: Processed file sent to the user

The file is encrypted with the derived label and returned to the user through HaloCAD for Windchill.

5. Step 5: Monitor log

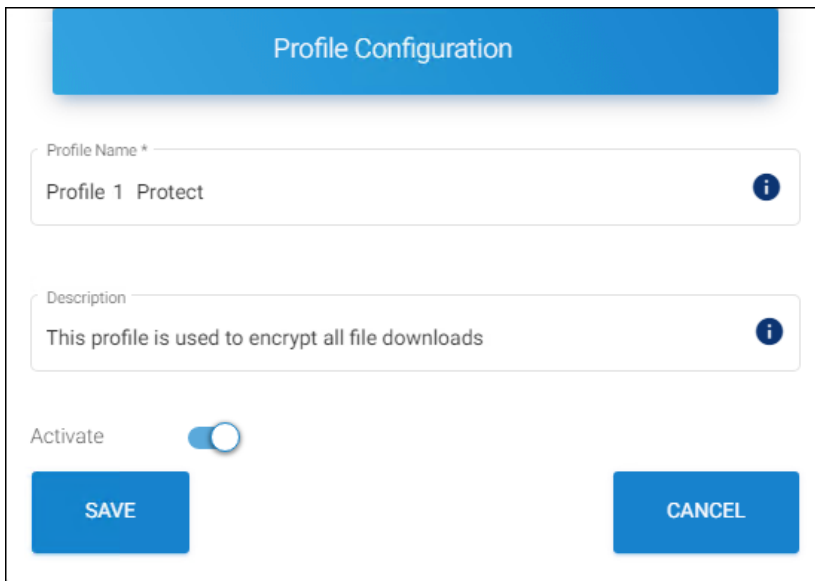
The event is captured by the HaloCAD component and forwarded to the monitor log of the HaloENGINE.

3. How to Protect a CAD File?

This section describes how to protect Creo and office files via PLM. Note: We recommend referring to the "Operations Manual of HaloCAD Add-on for Creo" to know more about standalone HaloCAD protection scenarios.

3.1. Fulfill the Requirements

1. HaloCAD for Windchill needs to be installed and set up.
2. HaloENGINE Service must be installed and configured.
3. HaloENGINE must be installed and configured.
4. The Classification Engine must be configured. For illustration purposes, a simple classification profile is explained here.
 - a. Step 1: Enter a name for the profile.



The screenshot shows a 'Profile Configuration' dialog box. It features a blue header bar with the text 'Profile Configuration'. Below the header, there are two text input fields. The first field is labeled 'Profile Name *' and contains the text 'Profile 1 Protect'. The second field is labeled 'Description' and contains the text 'This profile is used to encrypt all file downloads'. Below these fields, there is an 'Activate' label followed by a toggle switch that is currently turned on. At the bottom of the dialog, there are two blue buttons: 'SAVE' on the left and 'CANCEL' on the right.

Sample profile

- b. Step 2: Configure classification properties and their values.

Classification Schema Configuration

Property Name *
Sensitivity ⓘ

Property Value ⓘ +

Enable tree structure

Secret 🗑️

Confidential 🗑️

Internal 🗑️

Default Property Value *
Secret ▼

Deactivate Property

SAVE **CLOSE**

Classification properties

- c. Step 3: Create classification rules based on metadata types. Note: If you want to use your metadata, specify it on the Custom Metadata page of the HaloENGINE admin portal. Please refer to the Custom Metadata section of the HaloENGINE Installation and Configuration manual.

Download Classification Rules

Note: Any change in the Download Classification Rules requires "RELOAD CONFIGURATION".

Property List:
Choose a property

Overview:
Priority of rules is from top to bottom

Sensitivity

Countries

Departments

Sensitivity.Confidential

WINDCHILL.user_name == John

+
✎
🗑️
⬆️
⬇️

Rules

d. Step 4: Create an action rule to label and block.

ACTION RULE OVERVIEW

Applied Actions : LABEL System Type : WINDCHILL Label Name : HCAD Confidential

Constructed Rule :

PROPERTY	CONDITION	VALUE
Sensitivity	Equal	Confidential

CLOSE

Action rule for labeling

ACTION RULE OVERVIEW

Applied Actions : BLOCK System Type : WINDCHILL

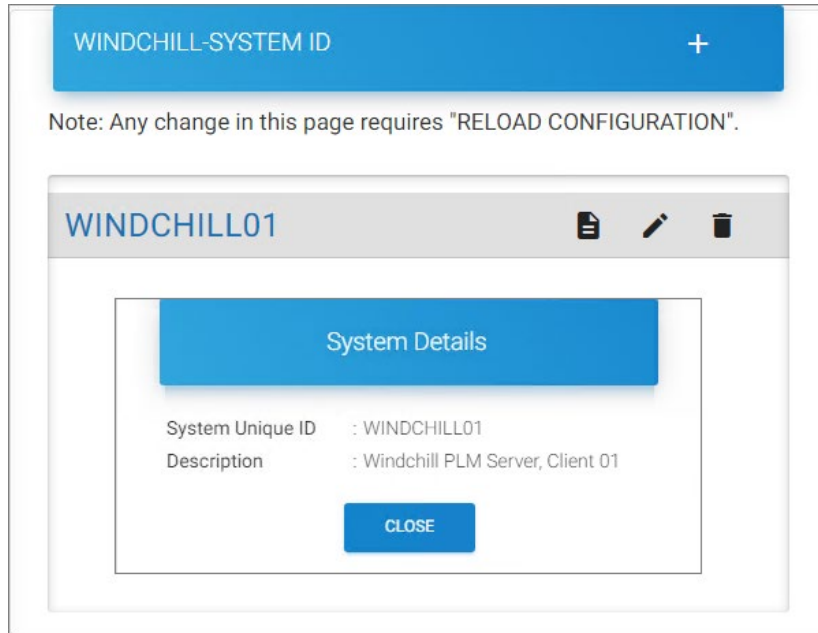
Constructed Rule :

PROPERTY	CONDITION	VALUE
Sensitivity	Equal	Secret

CLOSE

Action rule for blocking

e. Step 5: Assign Systems to the profile.



Assign Systems

5. HaloCAD add-on must be installed.

3.2. Download a Protected File

Follow the instructions below to protect CAD files via PLM:

1. Go to **Windchill Workspace**, download a file via **Export from Workspace/Open in Creo**.
2. Alternatively, from **Windchill Commonsplace**, download a file using the **Check out and Download** option.

Results: The downloaded file is labeled as defined in the HaloENGINE. The encryption settings from the label are enforced and remain with the file wherever it is stored.

What to do next:

- a. If you are an authorized user, you can modify the label and save the file.
- b. If you wish to view the audit log, you can view the export event in the HaloENGINE audit log.

3.3. Blocking a File Download

1. Go to **Windchill Workspace** and download a file using **Export from Workspace/Open in Creo**.
2. You can also download a file by using the **Check out and Download** option in **Windchill Commonsplace**.

Results:

- a. The action rule for block configured in HaloENGINE prevents file download. As a result, no file download occurs.
- b. Refer to the monitor log for further information.

4. Common Scenarios

This section presents some common scenarios for illustrative purposes and is meant to provide general guidelines.

4.1. How to Open a Protected CAD File?

Prerequisite: Before opening the protected file, make sure the HaloCAD Add-on for Creo is installed.

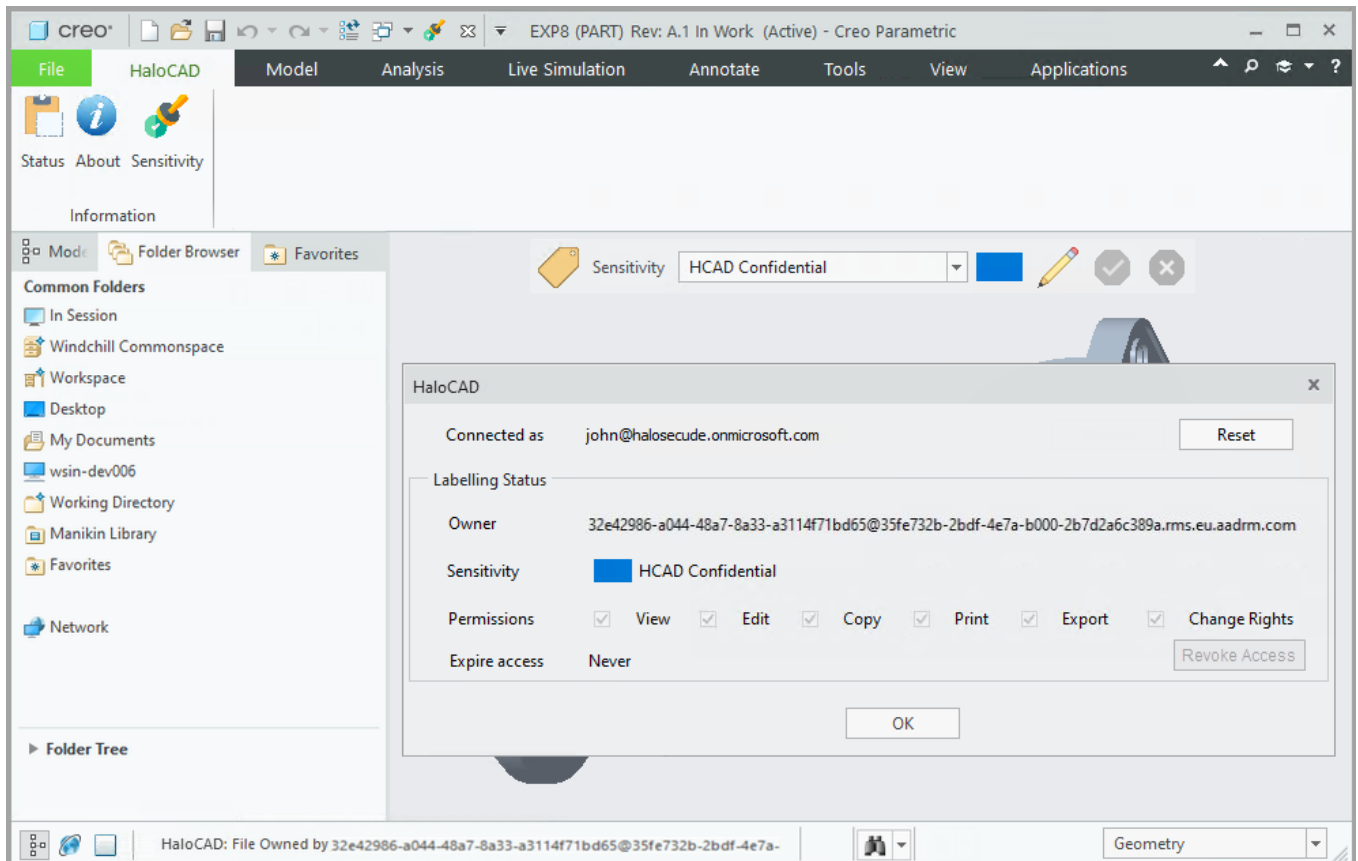
1. Click on the protected file.
2. The first time when you try to open a labeled file, HaloCAD will prompt you about the **Microsoft Sign-In Assistant**.
3. Click **OK** when prompted, "*Microsoft Sign-In Assistant will be invoked and the user credentials will be cached.*"
4. Follow the on-screen prompts to complete the authentication process.

Results:

- a. On successful confirmation, the file will open.
- b. Users could experience different access results for the same document based on the policy settings. For more details, refer to the "Operations Manual of HaloCAD Add-on for Creo".

4.2. Example 1: Application ID as the Owner of the File

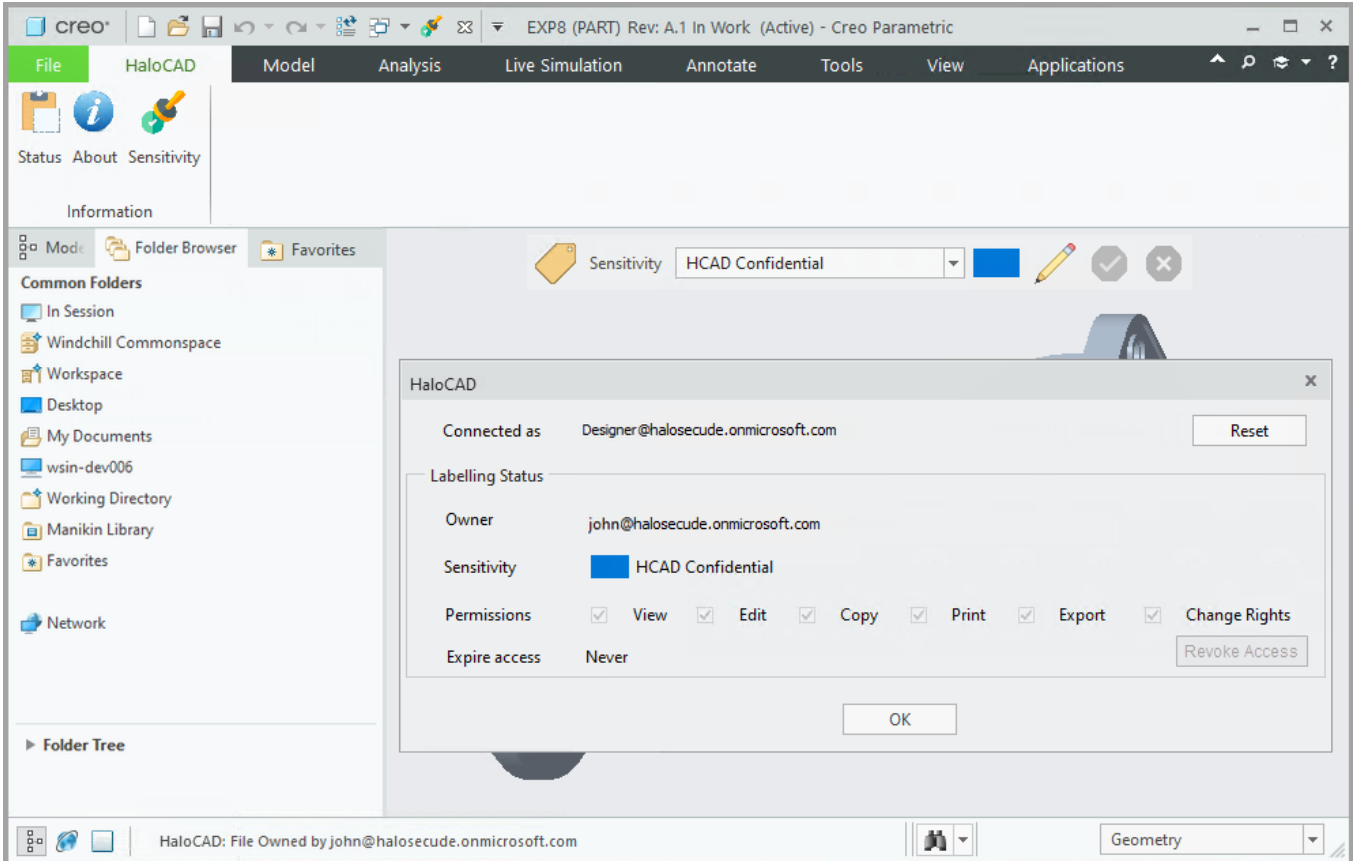
The following figure shows an example of an Application ID that is used to initialize HaloENGINE Service. This Application ID will be the owner of the document by default, however, a static email or a user who logs in to Windchill can also be an owner of the downloaded file if specified in HaloENGINE. Please refer to examples 2 and 3.



Application ID as the Owner of the File

4.3. Example 2: Static Email as the Owner of the File

The following figure shows an example of an email address configured in the HaloENGINE. This email address will be the owner of the exported document.

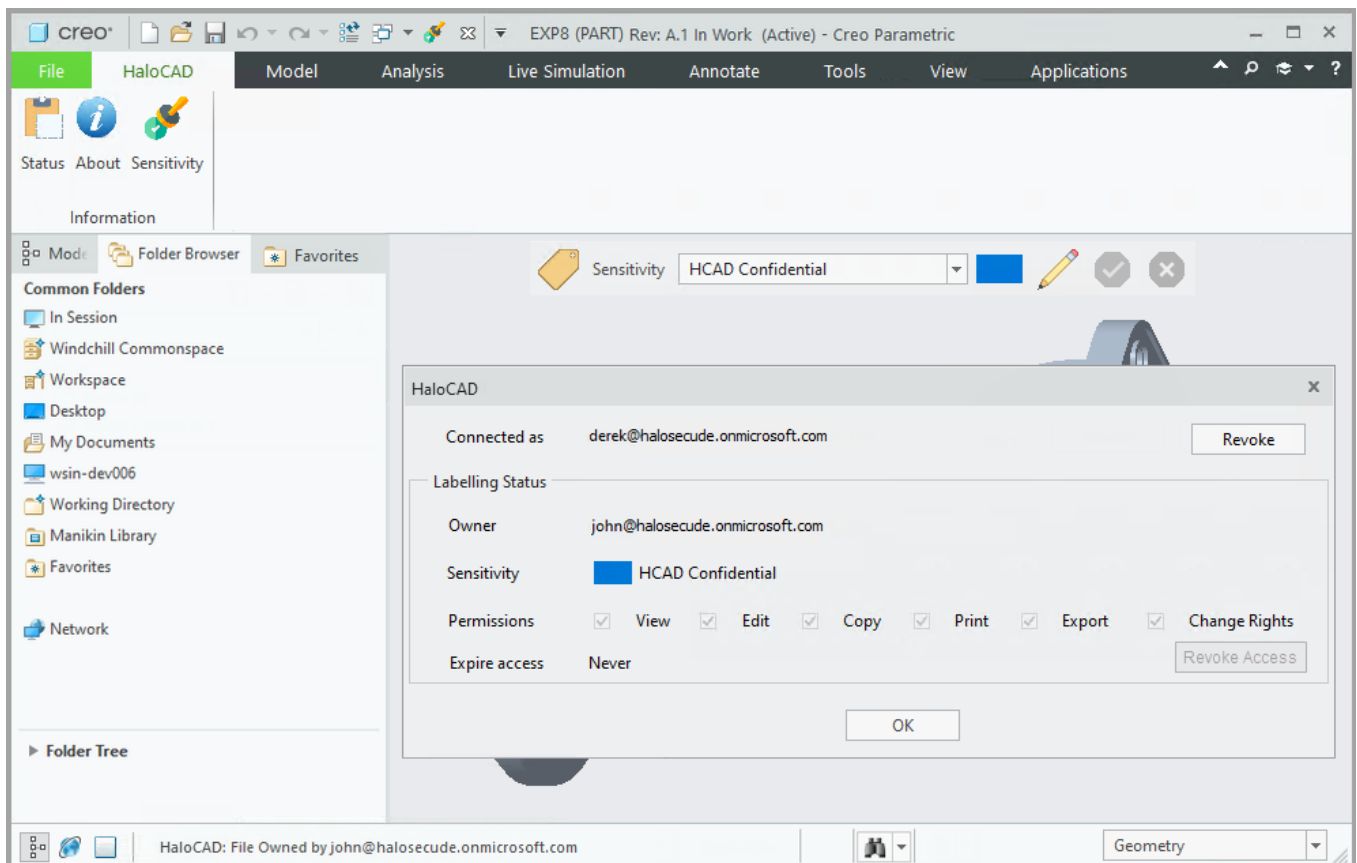


Static Email as the Owner of the File

4.4. Example 3: User as the Owner of the File

The following figure shows an example of a PLM logged-in user who has become the owner of the document. In order to achieve this, the Owner configuration must be set to "user" on the HaloENGINE Admin portal. The exported document will have the email address of the currently logged-in user as its owner.

In case, the user who logged in to Windchill PLM Server does not have an email ID, then the Application ID (which is used to initialize HaloENGINE Service) will be the owner of the document.



User as the Owner of the File

4.5. Example 4: File Upload and Download

The following is an example of an upload and download sequence in Windchill PLM integrated with HaloCAD. Note: Non-office files are also supported (e.g., .txt and .PDF). For illustration purposes, an Excel file is used here.

1. Open the Creo Parametric application and enter the user credentials of the PLM server.
2. Navigate to your **Windchill Commonsplace**.
3. Click the **New Document** option, the **New document** screen will appear.
4. Select the product type as **Document** and select the protected file using the **Browse** option. [Please note, in this example, the file (Bill Of Materials.xlsx) which is going to be uploaded is already protected with the **HaloCAD INTERNAL** label].
5. Click the **Finish** button.

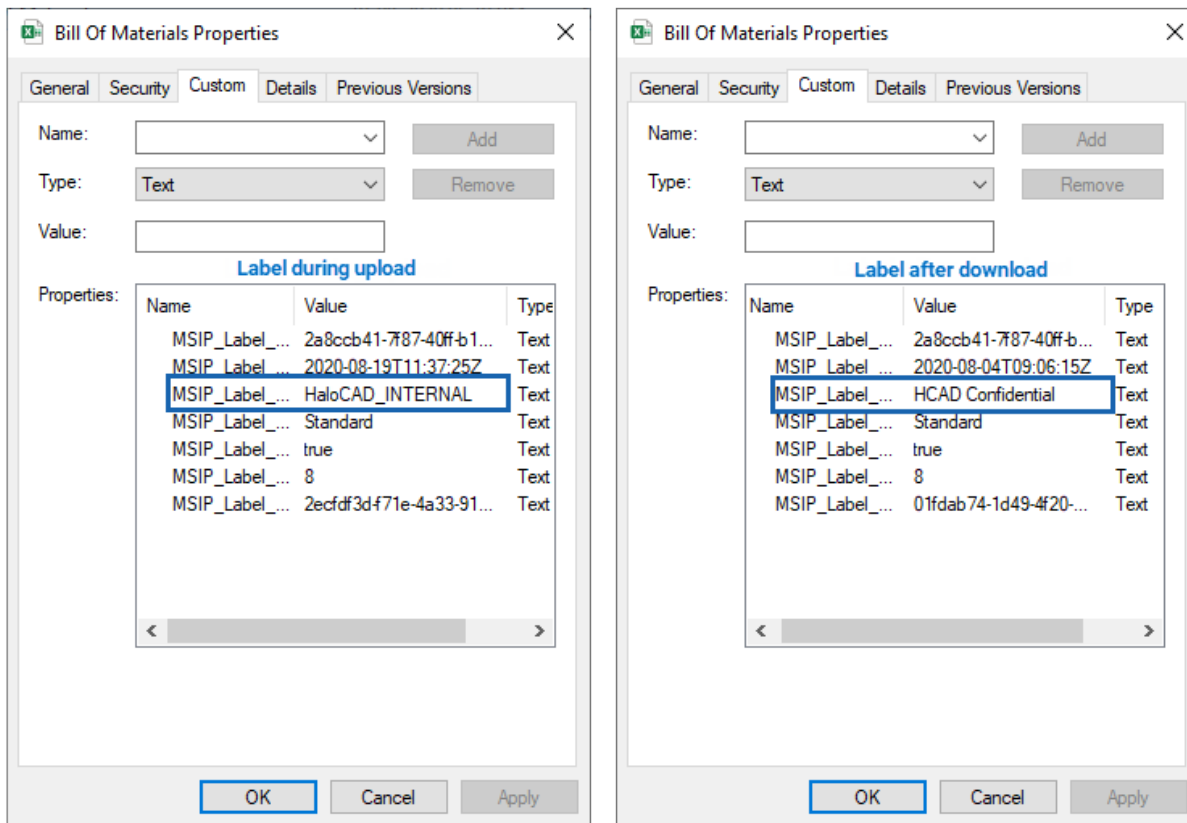
Results:

- a. The file is uploaded to the Windchill.
 - b. During the upload/check-in sequence, the original label **HaloCAD_INTERNAL** is removed, and the decrypted file is stored (checked-in) in Windchill PLM.
 - c. The upload/checked-in event is logged in the HaloENGINE.
6. **Check-out sequence:** From the list, select the previously uploaded file and click the option - **Download PDF** or **Download Text File** or **Download Unknown** buttons available in the workspace.

Results:

- a. The file is downloaded to the default location.
 - b. During the download/check-out sequence, the file is exported from Windchill with a new label **HCAD Confidential** which is defined in the Classification Engine.
 - c. The download/check-out event is logged in the HaloENGINE.
7. The below figure shows the difference between the uploaded file into Windchill and the downloaded file from Windchill.

Secure



File upload and download Sequence

5. Customer Support

Please be ready with the information listed below before contacting our team to help you with the issue you are experiencing. The data that you provide will help us serve you better.

1. Full contact details.
2. HaloCAD component and HaloENGINE build version.
3. Date, time, and description of the error (if possible, provide screenshots).
4. What (if any) third-party products (software or other) were used in conjunction with our product?
5. Any other information necessary to reproduce the error.

Secude offers help and support through

1. Technical support email: support@secude.com

If you choose to contact us by email, please provide your company details and a detailed description of the issue, as well as the log file (if any). Our representative will respond to your email inquiry.

2. Phone support: Call +41 41 510 70 70 to talk to our representative to diagnose and resolve the technical problem.

Other resources

Please visit <https://secude.com> to know about upcoming events, press releases, and to download whitepapers.

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1. Product name and version
2. Documentation topic
3. Details of the suggestion or error

The technical documentation team will consider your feedback and address it in future documentation updates.



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