



HaloCAD

HaloCAD Add-on for Creo 2.1

Release Notes

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1. Introduction

The release notes provide brief and high-level descriptions of the new features of HaloCAD. Before installing HaloCAD, it is recommended to read the release notes to understand any current limitations or bugs that may apply to this version of the software.

2. Product Description

HaloCAD acts as the guardian of your CAD files by automatically protecting them with Microsoft Purview Information Protection (MPIP) labels whenever they leave your secure IT perimeter. As a plug-in for CAD applications, HaloCAD offers access to MPIP-protected files, including label handling and privilege enforcement. CAD users will not notice any differences in the handling of CAD files because they take place in the background. By seamlessly attaching MPIP labels to the CAD files while they are being created, it provides end-to-end security for those files.

3. System Requirements

The following system requirements table specifies the minimum and recommended technical specifications, such as software and network resources, necessary to run the product.

Components	Details
Supported Operating Systems	Windows 10, Windows 11, or above with updates installed.
Supported file types	<ol style="list-style-type: none"> File types supported for Save and Open: .cem, .sec, .prt, .asm, .drw, .frm, and .lay, File types supported for Export: .stp, .igs, .dwg, .dxf, .x_t, .vda, .wrl, .sat, .stl, .obj, .emn, .asc, .cgm, .ed, .edz, .pvs, .pvz, .ntr, .iv, .slp, .unv, .gbf, .facet, .pdf, .u3d, .amf, .jpg, .eps, .tif, .png, .pic, .emp, .she, and .tsh.

Requirements

Supported CAD applications for HaloCAD Add-ons

You are reading the current version of the release notes; however, if you are searching for a previous version, refer to the release notes for that version.

CAD applications	HaloCAD Add-on version
PTC Creo Parametric 8.0, 9.0, 10.0, Creo+	2.1
PTC Creo Parametric 8.0, 9.0, 10.0	2.0
PTC Creo Parametric 6.0, 7.0, 8.0, 9.0, 10.0	1.5
PTC Creo Parametric 6.0, 7.0, 8.0, 9.0	1.4
PTC Creo Parametric 6.0, 7.0, 8.0	1.3
PTC Creo Parametric 4.0 >=M060	1.2

CAD applications and HaloCAD Add-on version

4. Prerequisites

The following preparatory steps or conditions must be met before installing the product.

The add-on requires the registration of an application with Microsoft Entra ID, an Office 365 subscription, and access to recommended URLs. For additional information, please refer to the Technical Reference Manual.

5. Code Quality and Security

Secude focuses on software quality and security. This is accomplished by adhering to and exceeding best practices in development, testing, and quality control. Secude has chosen SonarQube as the first building block for building and implementing a robust continuous code quality assurance (QA).

SonarQube is a platform for statical code analysis for continuous inspection of code quality. It performs automatic reviews of code to detect bugs, code smells, unit test coverage, and security issues in 29 programming languages.

SonarQube is utilized throughout the development process at Secude and only the highest marks are accepted for a product to be released. It helps to regulate code quality from the beginning of development, find and repair issues promptly, and improve overall software stability.

Each build report can be found under its relevant version heading in this release notes.

Reliability Rating

- A = 0 Bugs
- B = at least 1 Minor Bug
- C = at least 1 Major Bug
- D = at least 1 Critical Bug
- E = at least 1 Blocker Bug

Security Rating

- A = 0 Vulnerabilities
- B = at least 1 Minor Vulnerability
- C = at least 1 Major Vulnerability
- D = at least 1 Critical Vulnerability
- E = at least 1 Blocker Vulnerability

Security Review Rating

The Security Review Rating is a letter grade based on the percentage of Reviewed (Fixed or Safe) Security Hotspots.

- A = $\geq 80\%$
- B = $\geq 70\%$ and $<80\%$
- C = $\geq 50\%$ and $<70\%$
- D = $\geq 30\%$ and $<50\%$
- E = $< 30\%$

Maintainability Rating

A=0-0.05, B=0.06-0.1, C=0.11-0.20, D=0.21-0.5, E=0.51-1

The Maintainability Rating scale can be alternately stated by saying that if the outstanding remediation cost is:

- $\leq 5\%$ of the time that has already gone into the application, the rating is A
- between 6 to 10% the rating is a B
- between 11 to 20% the rating is a C
- between 21 to 50% the rating is a D
- anything over 50% is an E

6. Build 2.1

6.1. New Features

This section lists the new features in the current release.

1. Support for Creo+. HCADCRE-814
2. Implemented a new feature to include metadata (label only) into CAD files using the CAD SDK. HCADCRE-911
3. Support for watermarking CAD files (Model and Assembly) with MPIP labels, as well as 'label-only' MPIP labels that apply only metadata. HCADCRE-863, HCADCRE-946,

6.2. Improvements

This section lists the improvements in the current release.

1. It is now possible to install the application files either in the default location (C:\Program Files\Secude\Creo) or a location specified by the user (for example D:\Folder\).
2. Possible to save the Assembly/Drawing along with its dependent files with protection when the configuration file (config.pro) has the **save_objects** option set to **Changed_and_specified**. HCADCRE-899.

The dependent files will be protected without any modifications made to them, and saved in the following cases:

- a. **Case 1:** Applying labels to a new assembly/drawing file.
- b. **Case 2:** Re-labeling an existing Assembly/Drawing file and the user agreeing (Yes) for re-labeling a dependent file.
- c. **Case 3:** Removing protection from the Assembly/Drawing file and the user agreeing (Yes) to remove protection from the dependent file.

6.3. Fixed Issues

This section lists the fixed issues in the current release.

1. Fixed an issue that prevented the imported sketch file's label from showing up on the Sensitivity ribbon and enabled all options. HCADCRE-847
2. Fixed an issue that caused the label to be removed while importing a protected file using the **Overlay** option. HCADCRE-848
3. Fixed an issue that allowed a protected file to be imported as unprotected when using the **Empty with format** option. HCADCRE-850
4. Fixed an issue that prevented the label of a protected DWG file from being displayed when importing via the **Import Drawing/Data** option on the format tab. HCADCRE-851
5. Fixed an issue that prevented the label of a protected DWG file from being displayed when importing via the **Import** option in the **get data** tab. HCADCRE-852
6. Fixed an issue that prevented the file from being protected when importing a protected CEM file into a Layout file using the **Insert Layout** option on the Organize tab. HCADCRE-853
7. Fixed an issue that prevented the file from being protected and saved as an unprotected file when a protected DWG file was imported using the **Import** option. HCADCRE-854
8. Fixed an issue that allowed Reader Add-on to be installed even while HaloCAD Add-on for Creo was already installed. HCADCRE-845
9. Fixed an issue that prevented the label details of the imported file from being displayed when using the **Layout Feature** option in the top-level Assembly file. HCADCRE-857
10. Fixed an issue that caused the label of the Part/Assembly/Manufacturing file to appear in the newly created DRW/LAY/FRM/CEM files. HCADCRE-886
11. The option to deactivate the license (via the Deactivate button) has been removed from the Status UI. HCADCRE-882
12. Fixed a bug that caused the Creo application to crash when clicking the Click to Change Label icon on a protected file with a MPIP watermark label containing Dynamic variables. HCADCRE-729
13. Fixed an issue that caused the Creo application to crash when saving an assembly file after importing an unprotected or protected CEM file using the **Layout Feature** option. HCADCRE-939
14. Fixed an issue that caused the Creo application to crash when opening an unprotected drawing file with dependent files, if `save_file_iterations` is configured as No/Yes in the `config.pro` file. HCADCRE-949
15. Fixed an issue that resulted in an error message while importing the protected assembly file with a dependent part file into a protected/unprotected DRW file. HCADCRE-975

6.4. Known Issues

This section lists the known issues in the current release.

1. A Creo file can be opened by invoking the Creo Parametric application first and then go to **File > Open** menu > select the file. Note that the double-click is not suggested by PTC itself and as per the design they recommend only using the **File > Open** option instead of double-clicking a file to open.
2. If you double-click on an encrypted Creo file, you will end up with an error message because the encrypted Creo file is forced to open before HaloCAD DLL loads itself. Thus, the loaded file becomes unrecognized by the Creo Parametric application. HCADCRE-12
3. HaloCAD displays a pop-up **A file with the same name already in memory. Please rename the file or remove the existing file from memory** when a labeled file is relabeled and attempted to save. HCADCRE-169
4. When switching between the configured and unconfigured workspaces, a file will be labeled and exported from an unconfigured workspace. HCADCRE-186
5. The dependent part file (in Windchill workspace) will not get labeled as the same as its parent assembly file if the Halo Core Server is configured as `file_type=.prt`. HCADCRE-191
6. When metadata `File_Type=.prt` is configured in the Halo Core Server and if the unconfigured file type is selected for export (via Export from the workspace), both the file types will be protected. HCADCRE-188
7. In a protected file, the Sensitivity ribbon along with the configured label will be displayed while checking out an Assembly file. HCADCRE-189
8. Windchill: Uploading a new ASM file with a single dependent part file fails with the following parameters in the `config.pro` file. However, the same file will get uploaded properly for the second time. HCADCRE-383
 - a. `"dm_verify_subtype" = "yes"`
 - b. `"dm_enable_simple_import_export" = "no"`
 - c. `"dm_upload_objects" ="automatic"`
9. Intermittently, the HaloCAD pop-up will display the message **File may not be saved properly. Kindly save again** when you save the Assembly file multiple times, and when you click **OK** on the pop-up. After closing and reopening the Creo application, when you open the same file, you'll receive a Cannot be retrieved error message. HCADCRE-386
10. The Creo application goes to the **Not Responding** state if you try to close it while the Microsoft Sign-in pop-up remains open. HCADCRE-412

11. Windchill: Although the `dm_enable_simple_import_export` variable is configured as **no** in `config.pro` file and classification and action rules are configured with `file_type = prt`, the downloaded assembly file will remain protected at the downloaded location. HCADCRE-422
12. Windchill: When the `dm_upload_objects` variable is configured as **Explicit** in the `config.pro` file, the saved protected file will not be uploaded during check-in after closing and reopening the application. HCADCRE-438
13. Windchill: When the `dm_upload_objects` variable is configured as **Explicit** and `dm_verify` subtype is configured as **Yes** in the `config.pro` file, the file upload fails while trying to check-in using the **File -> Check-In** option in the same session. However, after closing and reopening the file, it will be checked-in successfully. HCADCRE-443
14. Windchill: When the `dm_upload_objects` variable is configured as **Automatic** and `dm_verify` subtype is configured as **Yes** in the `config.pro` file, the file upload fails for the first time. However, uploading the file subsequently in the same session, the file will be checked-in successfully. HCADCRE-444
15. Windchill: When the `dm_upload_objects` variable is configured as **Automatic** and `dm_verify` subtype is configured as **Yes** in the `config.pro` file, the file upload fails with an error message. However, by uploading or saving the file subsequently in the same session, the file will be checked-in successfully. HCADCRE-447
16. Windchill: When a protected file is downloaded while another protected file is open in the same session, the protected file will download as an unprotected file and the pencil icon Click to change label will remain greyed out on the Sensitivity ribbon. HCADCRE-463
17. Exported `stp/igs` files cannot be opened in the same session. HCADCRE-493
18. It is possible to take a screenshot of a protected file in the **Task Preview** window without copy rights. HCADCRE-499
19. Windchill: When a sketch file is opened in the Windchill workspace and a part or assembly file is opened via the **Open in Creo** option during the same session, clicking the pencil icon changes the label from **Not Set** to the default label that is set in the Halo Core Server. HCADCRE-509
20. The file will intermittently become corrupted when saved with protection in the Network storage location. HCADCRE-522
21. When a protected file is modified and saved several times, a HaloCAD error pop-up will appear as **File may not be saved properly. kindly save again**. Also, if you try to label a new file in the same session, the file will not be protected. HCADCRE-557
22. Intermittently, Assembly files protected and saved on unmapped network locations using the Create Component option will not be loaded. HCADCRE-700

23. Windchill: When the life cycle state is configured, the drawing file will open without being protected in the Creo application. However, the dependent ASM and PRT will open with a configured label. HCADCRE-762
24. When you click "Minimize the Ribbon" after opening two files with different labels in the same session, the label in the Sensitivity Ribbon will change automatically. HCADCRE-764
25. When a new file is created using **File -> New -> Drawing/ Format/Layout/Notbook** filetype, and the **cancel** button in the new drawing window is clicked, and a label is selected and saved, the label is removed from the saved file. HCADCRE-849
26. When you create a new drawing file, the Default model selection is updated with the name of the previously protected part file that was accessed in the same session, and the new drawing file is created with the protected part file's label. This is due to the application's actual behavior. HCADCRE-855
27. When importing a protected file using the **Shrinkwrap** option, the file is imported without protection. HCADCRE-858
28. The label of the imported protected assembly file will not appear in the assembly file when the **External Simplified representation** option is selected. HCADCRE-859
29. It is possible to install multiple versions of HaloCAD Add-on for Creo on one system. HCADCRE-846
30. The label will be removed from the newly created file when trying to create and cancel the new window of the drawing/format/layout/notbook file types. HCADCRE-849
31. Creo+: When `save_file_iterations` is configured as **No** in `config.pro` file, a fatal error will occur causing the application to close when attempting to revoke the file. HCADCRE-970
32. Creo+: If a file is saved with non-English special characters in the filename, the HaloCAD Sensitivity ribbon will change to **Not Set** and the file will be saved without protection. HCADCRE-974
33. Importing a protected drawing file with the **Import Drawing/Data** option results in an unprotected file. HCADCRE-988
34. Importing a protected drawing file using the **Quick Export & Export** option results in an unprotected file. HCADCRE-989

6.5. Quality Gate Report

Please see the table below for a list of SonarQube's key parameters for this version. Refer to the "[Code Quality and Security](#)" section for more information on rating definitions.

Metric	Value
Coverage	83.9%
Maintainability Rating	A
Reliability Rating	A
Security Hotspots Reviewed	A
Security Rating	A

Quality Gate report



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About Secude

Secude, a Microsoft and SAP Partner, is a global leader for Zero Trust Data-centric security and Enterprise Digital Rights Management (EDRM) solutions.

For more than 25 years Secude has been trusted by many Fortune 500 and DAX-listed companies for architecting, implementing, and protecting their data. Our data-centric security professionals apply their passion and deep domain expertise to provide a holistic approach to protect priceless Intellectual Property (IP) in CAD & SAP based collaborations and supply chains.

With branches in Europe, North America and Asia, Secude supports customers with the implementation of IT security strategies through a global network.