



HaloCAD

HaloCAD Add-on for Solid Edge

Release Notes

Version 2.3

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Contact

Secude Solutions AG
Landenbergstrasse 34
6005 Luzern
Switzerland
Tel: +41 41 510 70 70
Mail: info@secude.com

Support

Web: <https://support.secude.com>
Mail: support@secude.com

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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 protection takes 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 11 or above with updates installed.
Supported CAD applications	Solid Edge 2020, 2022, and 2024
Supported file types	<ol style="list-style-type: none">Native file types: .asm, .dft, .par, and .psmNon-Native file types: step, iges, igs, sat, stp, stl, x_b, x_t, xgl, pdf, ifc, 3mf, obj, fbx, bmp, jpg, plmxml, dxf, qsm, bkm, bip, sev, u3d, and jt

Requirements

4. Prerequisites

Before installing the add-on, ensure the following preparatory steps or conditions are met:

1. An application must be registered with Microsoft Entra ID.
2. An active Office 365 subscription is required.
3. Access to the recommended URLs must be available.

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 static 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 alternatively 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 2.3

This chapter provides an overview of the updates and quality insights included in this release. It covers the fixed issues, improvements, limitations, new features, and known issues, along with a summary of SonarQube's key parameters to highlight code quality metrics and analysis results.

6.1. New Features

This section lists the new features in the current release.

Support for enabling the FIPS module has been added to both the installer UI and silent installation. When enabled, MPIP uses only FIPS-compliant encryption algorithms, and when disabled, it uses standard encryption algorithms. If this option was not enabled during installation, it can later be enabled through a registry entry. HCADSE-676

6.2. Improvements

There are no improvements to mention in the current release.

6.3. Fixed Bugs

This section lists the fixed issues in the current release.

1. Fixed an issue where the Solid Edge 2D Drafting 2024 application intermittently crashed when attempting to save a protected file using the **Save** option. HCADSE-280
2. Fixed an issue where it was possible to capture a screenshot of the protected file design preview from the **Elemental Properties** window for protected Draft/Sheetmetal files without proper copy rights. HCADSE-606

6.4. Known Issues

This section lists the known issues in the current release.

1. While uploading a protected ASM file using the **Import on Demand Dialog**, there will be an error message *"Save and Display was cancelled because following document have no DIR"*. HCADSE-236
2. It is possible to save and export a protected PDF file with no export rights to an unprotected file using the local printer > **Paper Print** option. HCADSE-199
3. It is not possible to add the protected assembly file to the newly created assembly file, doing so the Solid Edge will display a pop-up as *"The part cannot be placed. Make sure it is not a Feature Library part"*. HCADSE-260

- 4. There will be a time delay in opening an unprotected file in the Solid Edge application. HCADE-269
- 5. It is possible to view the design dimensions and modify the diagram by changing the dimensions of the protected file with view rights. HCADE-343
- 6. It is possible to open a DKE-protected file after stopping the DKE Service and removing the Email ID from the JSON file. HCADE-345
- 7. It is possible to modify the design of a dependent Part file in a protected assembly file with view rights using the **Select - Edit in place** option and **Select - Edit Definition**. HCADE-347
- 8. When opening a DKE-protected file without an authorized email address, the HaloCAD error message does not appear. HCADE-377

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	84%
Maintainability Rating	A
Reliability Rating	A
Security Hotspots Reviewed	A
Security Rating	A

Quality Gate report



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About Secude

Secude, a trusted Microsoft and Siemens Digital Industries Software partner, is a global leader in Zero Trust data protection and data governance.

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.