



HaloCAD

HaloCAD Add-on for SOLIDWORKS

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 file types	<ol style="list-style-type: none"> File types supported for Save and Open: .sldprt, .sldasm, .slddrw, .step, .stp, .iges, .igs, .3mf, .dwg, .dxf, .x_t, .stl, .vda, .sat File types supported for Export: .3dxml, .sat, .amf, .ai, .psd, .pdf, .eprt, .sldftp, .hcg, .hsf, .ifc, .pdf, .jpg, .sldlfp, .xaml, .prt, .tif, .asm, .easm, .smj, .wrl, .edrw, .drwpot, .gltf, .glb, .ifc
Supporting application	To view the encrypted PDF files, install the latest version of Acrobat Reader DC / Acrobat DC.

Requirements

Supported CAD applications for HaloCAD Add-ons

CAD applications	HaloCAD Add-on version
SOLIDWORKS 2023, 2024, 2025	2.3
SOLIDWORKS 2022, 2023, 2024	2.1, 2.2
SOLIDWORKS 2021, 2022, 2023	2.0
SOLIDWORKS 2020, 2021, 2022, 2023	1.2, 1.3

CAD applications and HaloCAD Add-on version

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.

1. Support for the SOLIDWORKS 2025 application.
2. 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. HCADSW-564

6.2. Improvements

There are no improvements to mention in the current release.

6.3. Fixed Issues

This section provides a list of the fixed issues in the current release.

1. Fixed an issue that caused the SOLIDWORKS application to crash while printing the protected file via SOLIDWORKS PDM integration. HCADSW-530
2. Fixed an issue that caused the SOLIDWORKS application to hang when opened without the user cache if the protected file was present in the recent documents. HCADSW-554

6.4. Known Issues

This section describes the known issues with the current release.

1. SOLIDWORKS application will crash when you click the **Save Part (in External File)** option in the protected assembly file. HCADSW-123
2. ECTR: The **Save As New Document** option in the SAP PLM tab is enabled for users with only edit rights, and also the connected user will be updated as the owner in the status screen. HCADSW-141
3. It is possible to export the protected file using the **Motion Study 1** option without export rights. HCADSW-162

4. It is possible to modify the design using the **Assembly** features > **Hole Series** option in the view-only rights-protected file and save it as an unprotected file. HCADSW-204
5. It is possible to modify the Bill of Materials **Part number and Description** in a protected drawing file with view-only rights. HCADSW-205
6. Without copy permission, it is possible to take a screenshot of a protected file in the **Task Preview** window. HCADSW-216
7. Protected files can be modified with view rights, and the connected user will be updated as the owner of the file in the HaloCAD status window when the file is opened at a network location. HCADSW-264
8. If Halo Core Tomcat is stopped when opening a Keytech file, the SOLIDWORKS application crashes and the file opens as unprotected. HCADSW-328
9. HaloCAD Add-on for SOLIDWORKS cannot be uninstalled via the control panel intermittently as the HaloCAD uninstall dialog does not appear. HCADSW-371
10. The SOLIDWORKS application will crash if a protected part file is opened from the **Welcome-SOLIDWORKS** screen > click **open**. HCADSW-501
11. SOLIDWORKS PDM: When opening a protected file from the SOLIDWORKS PDM VAULT folder, the **Save As** window will appear and the protected file will be saved in the folder. HCADSW-511

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	82.9%
Maintainability Rating	A
Reliability Rating	A
Security Hotspots Reviewed	A
Security Rating	A

Quality Gate report



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About Secude

Secude, a 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.