



HaloCAD Add-on for SOLIDWORKS 2.1

Release Notes

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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 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	1. File types supported for Save and Open: .sldprt, .sldasm, .slddrw, .step, .stp, .iges, .igs, .3mf, .dwg, .dxf, .x_t, .stl, .vda 2. File types supported for Export: .3dxml, .sat, .amf, .ai, .psd, .pdf, .eprt, .sldftp, .hcg, .hsf, .ifc, .pdf, .jpg, .sldlfp, .xaml, .prtdot, .ply, .png, .prt, .tif, .asm, .easm, .smj, .wrl, .edrw, .drwpot
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 2022, 2023, 2024	2.1
SOLIDWORKS 2021, 2022, 2023	2.0
SOLIDWORKS 2020, 2021, 2022, 2023	1.2, 1.3
SOLIDWORKS 2020, 2021, 2022	1.1
SOLIDWORKS 2020, 2021	1.0

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. Implemented a new feature to include metadata (label only) into CAD files using the CAD SDK. HCADSW-468
2. Support for SOLIDWORKS 2024. HCADSW-481
3. Support for watermarking CAD files (part, assembly, and drawing) with MPIP labels, as well as 'label-only' MPIP labels that apply only metadata. HCADSW-482, HCADSW-483

6.2. Improvements

There are no improvements to list for this release.

6.3. Fixed Issues

This section lists the fixed issues in the current release.

1. Fixed an issue that permitted importing a protected part file into an unprotected drawing file using the **standard 3 view**, **Insert -> Part...**, and **Model view** options. HCADSW-437, HCADSW-438, HCADSW-443
2. Fixed an issue that resulted in the assembly file being saved as a '0' kb file when importing the protected view right part file into a newly created assembly file. HCADSW-444
3. Reader: Fixed an issue that caused the SOLIDWORKS application to crash when importing the protected file into the Drawing file. HCADSW-465
4. Fixed an issue that caused the SOLIDWORKS application to crash when exporting a newly created protected file in different file formats using the **Save As** option. HCADSW-462
5. Fixed an issue that caused labels to be removed from protected part files when clicking the **Save As** option when multiple protected files are opened in the same session. HCADSW-473
6. Fixed an issue that permitted exporting the isometric 3D views of a protected file with view/edit rights from a newly created drawing file. HCADSW-92
7. Fixed an issue that caused the contents of the protected file to appear on the file icon when protection was applied to a saved file. HCADSW-147
8. The option to deactivate the license (via the Deactivate button) has been removed from the HaloCAD About UI. HCADSW-469

9. Fixed an issue that occurred while opening exported protected SOLIDWORKS EPRT, EDRW and EASM files in the eDrawings application after exporting them from the SOLIDWORKS application using the HaloCAD add-on. HCADSW-484
10. A user with edit and co-author rights will be displayed with a HaloCAD restriction popup when trying to save the file using the **Save** option via the SOLIDWORKS PDM VAULT folder.

6.4. Known Issues

This section lists the known issues in 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 file is opened in the SOLIDWORKS PDM folder (HaloCAD for SOLIDWORKS PDM). HCADSW-499
11. The SOLIDWORKS application will crash if a protected part file is opened from the **Welcome-SOLIDWORKS** screen > click **open**. HCADSW-501
12. 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	82.3%
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.