



HaloCAD

HaloCAD Add-on for SolidEdge 2.2

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 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 10, 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

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 2.2

6.1. New Features

This section lists the new features in the current release.

Support for Solid Edge 2024 application. HCADE-640

6.2. Improvements

This section lists the improvements in the current release.

1. As of this release, the HaloCAD add-on displays the following message to reduce loading time, increase file-saving efficiency, and improve performance when opening and saving large part and assembly files.
 - a. Part file: When saving a part file with the option **Store geometry in Part file for fast open** enabled, the add-on will notify the user that the option is being disabled with the message *Store Geometry in Part File for Preview will be disabled*.
 - b. Assembly file: When saving an assembly file with the option **Store geometry in Assembly file for preview** enabled, the add-on will notify the user that the option is being disabled with the message *Store Geometry in Assembly File for Preview will be disabled*.
2. Support has been added for masking or allowing clear text visibility of Personally Identifiable Information (PII) in the MIP SDK logs using the registry key `mipa1lowpii`.
3. As of the previous release, watermark text was displayed horizontally by default, despite the label being configured to display the watermark diagonally. However, from this release, watermark text will be shown diagonally, as configured.
4. The least restrictive permission among the linked files is determined and applied to the parent assembly file. HCADE-667

6.3. Fixed Bugs

This section lists the fixed issues in the current release.

1. Fixed an issue that prevented the cloned assembly file from being opened in SAP ECTR. HCADE-632
2. Fixed an issue that prevented the HaloCAD restriction box from appearing and restricting options based on the least permission when importing a protected file into an unprotected file using the **Replace part** option. HCADE-635
3. Fixed an issue that caused the Solid Edge application to become unresponsive when attempting to access a protected assembly file using SAP ECTR's **Save and Display** option. HCADE-636
4. Fixed an issue that caused the Solid Edge 2022 application to crash when selecting the **Save All** option in a protected assembly file. HCADE-644
5. Fixed an issue that caused the file size of a protected file to keep increasing when selecting it from the **Open File** window. HCADE-651
6. Fixed an issue that prevented a label from being applied to the top-level large ASM file in Solid Edge 2024 application. HCADE-659
7. Fixed an issue that triggered the HaloCAD Azure RMS error message and caused the file to be automatically saved with a default label when closing the file after opening an unprotected file. HCADE-670
8. Fixed an issue that triggered the HaloCAD Azure RMS error message and prevented proper opening of the assembly and dependent files after importing a view-rights-protected file into an unprotected assembly. HCADE-664

6.4. Known Issues

This section lists the known issues in the current release.

1. SAP ECTR: During the upload sequence, in the **Import on Demand Dialog** only the protected ASM file will be visible and gets uploaded. Its dependent part files will not get imported to SAP. HCADE-112
2. While uploading a protected ASM file using **Import on Demand Dialog**, there will be an error message **Save and Display was cancelled because following document have no DIR**. HCADE-236
3. 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. HCADE-199
4. 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**. HCADE-260
5. There will be some time delay in opening an unprotected file in the Solid Edge application. HCADE-269
6. It is possible to view the design dimensions and modify the diagram by changing the dimension of the protected file with view rights. HCADE-343
7. 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
8. 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
9. When opening a DKE-protected file without an authorized email address, the HaloCAD error message does not appear. HCADE-377
10. When a file is deleted from the SAP ECTR cache location, it will not load properly and a file missing window will appear. HCADE-438

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	86.2%
Maintainability Rating	A
Reliability Rating	A
Security Hotspots Reviewed	A
Security Rating	A

Quality Gate report



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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.

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