



HaloCAD Add-on for Inventor 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 file types	<ol style="list-style-type: none"> File types supported for Save and Open: .ipt, .iam, .idw, .ipn, .dwg, .iges, .igs, .ige, .step, .stp, .stz, .catpart, .catproduct, .glb, .gltf, .jtt, .obj, .x_b, .x_t, .g, .neu, .sat, and .smt. File types supported for Export: .pdf, .pdf(3D), .bmp, .gif, .jpg, .png, .tiff, .dwf, .qif, .stl, .usdz, and .dwf (attach to mail).
Supporting application	To view the encrypted PDF files, install the latest version of Acrobat Reader DC / Acrobat DC.

Requirements

Supported Autodesk 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
Inventor 2023, 2024, 2025	2.1, 2.2
Inventor 2022, 2023, 2024	2.0
Inventor 2020, 2021, 2022, 2023, 2024	1.8

Autodesk 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 2.2

6.1. New Features

There are no new features to highlight in this release.

6.2. Improvements

This section lists the improvements in the current release.

1. 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. HCADINV-662
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 `mipallowpii`. HCADINV-669

6.3. Fixed Issues

This section lists the fixed issues in the current release.

1. Fixed an issue that caused a warning message to appear when applying a newly created MPIP label to an unprotected file. HCADINV-652

6.4. Known Issues

This section lists the known issues in the current release.

1. It is possible to capture a preview of a protected file (with "view" only rights) using the **PrntScrn** and **Snipping** tool. HCADINV-108
2. An error message will appear as **Drawing file is not valid** when trying to import the protected DWG file by clicking the **Next** button in the DWG/DXF file wizard. HCADINV-402
3. The Inventor application will crash if you select the **Tutorial Gallery** option under the **Get started** menu in a protected file with edit rights. HCADINV-427
4. When trying to open a protected file, the Inventor application enters the **Not Responding** state if the User cache with Custom cloud type configuration is not accessible. HCADINV-452
5. When attempting to open a protected STL file, the design will not be displayed, and the file will be opened without protection. HCADINV-569

6. When a connected user with Edit/Co-Author permissions saves an Assembly file, the HaloCAD information window does not display, and the top-level Assembly file label is not applied to the newly imported unprotected dependent part file. HCADEV-629

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	85.6 %
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.