



HaloCAD Add-on for Revit 2.1

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 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	<ol style="list-style-type: none"> 1. Native file types: .rvt, .rfa, and .rte 2. Export file types: .dwg, .pdf, .dwf, .dxf, .ifc, .dxf, .sat, .stl, .obj, .fbx, .tga, .bmp, .jpeg, .jpg, .png, .tif, .dgn, .xml, .step, .stp, and .stpz 3. Import files type: .dwg, .dxf, .sat, .ifc, .step, .stp, and .stpz

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
Revit 2023, 2024, 2025	2.1
Revit 2022, 2023, 2024	2.0
Revit 2020	1.1

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 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 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. HCADRVT-106
2. Support for Revit 2025.
3. Support for watermarking CAD files with MPIP labels, as well as 'label-only' MPIP labels that apply only metadata. HCADRVT-109, HCADRVT-107
4. Support for import/export file type STEP. HCADRVT-123

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. The option to deactivate the license (via the Deactivate button) has been removed from the HaloCAD About UI. HCADRVT-108
2. Fixed an issue that prevented the HaloCAD restriction pop-up from appearing when an unauthorized user opened a protected file. HCADRVT-57

6.4. Known Issues

This section lists the known issues in the current release.

1. While exporting a protected file using the **Show Rendering Dialog** option without export rights, the drawing gets saved as a black screen. HCADRVT-41
2. When exporting from a Revit file, a protected image file is exported with a ".p" extension, such as .ppng, .pbmp, .ptif, or .pjpg. HCADRVT-85
3. When a file is imported using the "Link PDF/ Import PDF" option, the Protected PDF file is not decrypted and appears as "Microsoft Azure Information Protection". HCADRVT-84
4. When attempting to use the "Insert->Import CAD" option to import protected OBJ and STL files into an unprotected Revit file, the HaloCAD least permission popup will not appear up and the protected file design will not be imported based on the least permission permissions. HCADRVT-127

- 5. When DKE files are available in recent documents and the DKE service is turned off, it takes longer to launch the Revit application and display the HaloCAD error restriction popup. HCADRVT-129

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	84.9%
Maintainability Rating	A
Reliability Rating	A
Security Hotspots Reviewed	A
Security Rating	A

Quality Gate report



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About Secude

Secude, a 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.