



HaloCAD

HaloCAD Add-on for Creo

Release Notes

Version 2.3

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Table of Contents

1. INTRODUCTION	1
2. PRODUCT DESCRIPTION	2
3. SYSTEM REQUIREMENTS	3
4. PREREQUISITES	4
5. CODE QUALITY AND SECURITY	5
6. BUILD 2.3	7
6.1. New Features	7
6.2. Improvements.....	7
6.3. Fixed Issues	7
6.4. Known Issues.....	7
6.5. Quality Gate Report.....	8

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"> 1. NX file types: .prt, .fem, .sim, and .afm 2. Non-Native file types: .jt, .igs, .step, .cgm, .dxf, and .dwg
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

You are currently viewing the release notes for the current build. For previous versions, please refer to their respective release notes.

CAD applications	HaloCAD Add-on version
NX 2306, NX 2312, NX 2406	2.2, 2.3
NX 2206, 2212, 2306	2.0, 2.1
NX 12, 1899, 1953, 1980, 2007, 2206	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 highlights the new features in the current release.

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. HCADNX-609

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. HaloCAD can be installed only on a specific version of NX, even if multiple versions are available on the system. HCADNX-598
2. Fixed an issue that caused unprotected file downloads while exporting from Teamcenter using the **Export assembly** option. HCADNX-599
3. Fixed an issue that caused the HaloCAD tab to disappear when importing a protected DWG/DXF file into an unprotected file via **Drag & Drop**. HCADNX-604
4. Fixed an issue that caused the addon to take more than 20 seconds to apply the MPIP label to a file. HCADNX-605
5. Fixed an issue that caused the HCAD error message to display and prevented the "Custom permissions" label from being applied. HCADNX-606

6.4. Known Issues

This section describes the known issues with the current release.

1. Standard NX Password-protected files are not supported. HCADNX-21

2. It is possible to copy/share the protected file when the following options are used, along with view rights. HCADNX-212, HCADNX-214
 - a. Copy Geometry to Part
 - b. Create Linked Part
3. Reader: When a protected part file is cloned from an assembly file, the newly cloned part file will not be protected. HCADNX-156
4. The NX application will crash when the protected file is saved for the second time in the network-shared location. HCADNX-210
5. Intermittently, the HaloCAD Add-on for NX installation will fail. **Workaround:** Clear the MPIP and HaloCAD DLLs from NXBIN. HCADNX-458
6. When attempting to export a protected file in the NX 2206 application, the file will not be exported. HCADNX-527

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	81.4%
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.