



HaloCAD

HaloCAD Add-on for NX 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	<ol style="list-style-type: none"> NX file types: .prt, .fem, .sim, and .afm 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 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
NX 2206, 2212, 2306	2.0, 2.1
NX 12, 1899, 1953, 1980, 2007, 2206	1.2, 1.3
NX 1899, 1953, 1980, 2206	1.1
NX 1899, 1953	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 release contains the following new features.

1. Implemented a new feature to include metadata (label only) into CAD files using the CAD SDK. HCADNX-507
2. Support for watermarking CAD files (Model and Assembly file) with MPIP labels, as well as 'label-only' MPIP labels that apply only metadata. HCADNX-524, HCADNX-538

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 caused the NX application to crash if the user's Email ID was not configured in the `appsettings.json` file when applying the DKE label. HCADNX-517
2. The option to deactivate the license (via the **Deactivate** button) has been removed from the HaloCAD About UI. HCADNX-525

6.4. Known Issues

This section lists the known issues in the current release.

1. Standard NX Password-protected file is 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 MPIP and HaloCAD dlls from NXBIN. HCADNX-458
- 6. File types such as STEP/IGES/DWG/DXF will not be protected when exported from a protected part file using the **File** → **Export** option. HCADNX-429
- 7. It is possible to install the HaloCAD Reader Add-on for NX even if the HaloCAD Add-on for NX is already installed. HCADNX-503
- 8. It is possible to install multiple versions of HaloCAD Add-on for NX on one system. HCADNX-504
- 9. It is not possible to export the file from the protected file using the **Plot** option. HCADNX-509
- 10. When attempting to export a protected file in the NX 2206 application, the file will not be exported. HCADNX-527
- 11. When the HaloCAD Least Permission window is still displayed, clicking the "Esc" button will remove the imported protected Part file from the ASM file. HCADNX-548

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%
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.