Secude

HaloCAD

HaloCAD for Autodesk Vault

Release Notes

Version 3.0

Copyright

© 2025-2026 Secude Solutions AG. All Rights Reserved.

This Secude-branded software and its corresponding documentation are the exclusive property of Secude Solutions AG of Luzern, Switzerland and are protected under the various copyright laws around the world and by various other intellectual property laws. The use of this software and/or its documentation and any copying thereof by end users is subject to the terms of a license agreement with Secude Solutions AG. The wrongful use or copying of this software and/or documentation subjects infringers to both criminal and civil liabilities.

ANY USE, COPYING, REPRODUCTION, ALTERATION, TRANSMISSION, OR TRANSLATION OF THESE MATERIALS, IN WHOLE OR IN PART, IN ANY FORM OR BY ANY MEANS, IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN PERMISSION OF SECUDE SOLUTIONS AG. IF THIS MATERIAL IS PROVIDED WITH SOFTWARE LICENSED BY SECUDE, THE INFORMATION HEREIN IS PROVIDED SUBJECT TO THE TERMS OF THE WARRANTY PROVIDED WITH THE PRODUCT LICENSE. IF THIS MATERIAL IS NOT PROVIDED WITH LICENSED SOFTWARE, THE INFORMATION HEREIN IS PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND. IN EITHER CASE, THERE ARE NO OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR QUALITY. IN NO EVENT SHALL SECUDE SOLUTIONS AG OR ANY OF ITS AFFILIATES BE LIABLE FOR ANY DIRECT OR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR EXEMPLARY DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE MATERIALS AND/OR INFORMATION CONTAINED HEREIN. Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply to you.

Secude Solutions AG takes reasonable measures to ensure the quality of the data and other information produced herein. However, these materials may contain technical inaccuracies or typographical errors, and are not guaranteed to be error-free. Information may be changed or updated without notice. Secude Solutions AG has no obligation to update these materials based on changes to its products or services or those of third parties. Secude Solutions AG may also make improvements or changes to the products or services described in this information at any time without notice. Secude Solutions AG frequently releases new versions and updates to its software, and therefore images shown in this document may be slightly different from what you see on screen.

As with any security product, Secude Solutions AG highly recommends the back up of data as well as passwords on a regular basis. Secude Solutions AG is not responsible for the loss of passwords or data that cannot be retrieved based upon a user’s failure to adhere to stringent backup and safe-keeping conventions.

Contact

Secude Solutions AG

Murbacherstrasse 19

6003 Luzern, Switzerland

Mail: info@secude.com

Support

Web: https://support.secude.com

Mail: support@secude.com

Table of Contents

1. **INTRODUCTION** 1
2. **PRODUCT DESCRIPTION** 2
3. **PREREQUISITES** 3
4. **SYSTEM REQUIREMENTS** 4
5. **CODE QUALITY AND SECURITY** 5
6. **BUILD 3.0** 7
   - 6.1. New Features 7
   - 6.2. Improvements 7
   - 6.3. Limitations 8
   - 6.4. Fixed Issues 8
   - 6.5. Known Issues 9
   - 6.6. Unsupported Versions 9
7. **QUALITY GATE REPORT** 10

1. Introduction

The release notes provide a high-level overview of the new features, fixed issues, known issues, and prerequisites for HaloCAD for PLM. Before installing HaloCAD for PLM, review these release notes to understand the changes, known limitations, and requirements that apply to this release.

2. Product Description

HaloCAD for PLM integrates with supported Product Lifecycle Management (PLM) applications and Microsoft Purview Information Protection (MPIP) to protect CAD files throughout their lifecycle. It automatically applies MPIP sensitivity labels based on predefined rules during download and removes protection during upload, returning the unprotected file to the PLM vault. This provides seamless file handling, end-to-end security, and complete traceability.

3. Prerequisites

Before installing HaloCAD for PLM, ensure that the following prerequisites are met:

- An active Microsoft 365 subscription is available.
- A Web application is registered with Microsoft Entra ID.
- Access to the required Microsoft service URLs is enabled.
- TLS 1.2 or later is enabled on all client workstations.

For detailed prerequisite and configuration information, refer to the Technical Reference Manual.

4. System Requirements

The following table lists the system requirements for installing and running HaloCAD for Autodesk Vault.

Components	Details
Supported Windows Server	Windows Server 2022 and above with updates installed.
Supported file types	1. AutoCAD file types 2. Inventor file types 3. PDF 4. MS Office native file types
Other requirements	Install HaloENGINE GenNXT and HaloCAD for Autodesk Vault separately on Windows servers.

Requirements

Supported Autodesk Vault versions for HaloCAD

HaloCAD for Autodesk Vault 3.0 is the first version to use HaloENGINE GenNXT. Versions earlier than 3.0 use the legacy HaloENGINE platform. For release information about these earlier versions, refer to the corresponding HaloCAD for Autodesk Vault Release Notes.

Autodesk Vault versions	HaloCAD Add-on version
Autodesk Vault Professional Server 2025, 2026, 2027	3.0

Autodesk Vault and HaloCAD component version

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

1. A = 0 Bugs
2. B = at least 1 Minor Bug
3. C = at least 1 Major Bug
4. D = at least 1 Critical Bug
5. E = at least 1 Blocker Bug

Security Rating

1. A = 0 Vulnerabilities
2. B = at least 1 Minor Vulnerability
3. C = at least 1 Major Vulnerability
4. D = at least 1 Critical Vulnerability
5. 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.

1. A = >= 80%
2. B = >= 70% and <80%
3. C = >= 50% and <70%
4. D = >= 30% and <50%
5. 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:

1. <=5% of the time that has already gone into the application, the rating is A
2. Between 6 to 10%, the rating is a B
3. Between 11 to 20%, the rating is a C
4. Between 21 to 50%, the rating is a D
5. Anything over 50% is an E

6. Build 3.0

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 lists the new features in the current release.

Added support for Autodesk Vault 2027. HCADVLT-610

6.2. Improvements

This section lists the improvements in the current release.

1. Starting with this release, HaloCAD for Autodesk Vault supports integration with HaloENGINE GenNXT and its features, replacing the legacy HaloENGINE integration.
2. Removed the System ID field and renamed Customer ID to Profile Name in the HaloCAD for Autodesk Vault Configuration tool.
3. Removed the Client Certificate and Password configuration fields from the Configuration Tool. HCADVLT-626
4. Renamed **HaloENGINE** to **HaloENGINE GenNXT** in the following areas. HCADTCR-640
   a. Configuration Tool
   b. Installer
   c. Shell command
5. HaloENGINE GenNXT communicates over HTTPS and supports **self-signed** and **CA-signed** certificates. Clients connecting to HaloENGINE GenNXT must install the appropriate certificate in **Trusted Root Certification Authorities**:
   a. For a **self-signed certificate**, install the public key.
   b. For a **CA-signed certificate**, install the Root CA.
6. Removed the **Certificate Name** and **Password** fields from the Configuration Tool.

6.3. Limitations

This section lists the limitations of the current release.

When HaloCAD is deployed in an environment, we recommend that the administrator restrict access to non-Proxy URLs using a firewall or other network application. This is because, as HaloCAD is a proxy, non-proxied actual URLs will also be accessible, leading to data leakage. Therefore, we recommend restricting access.

6.4. Fixed Issues

This section provides a list of the fixed issues in the current release.

1. Fixed an issue where configured labels were not applied to files downloaded through the Vault–Inventor integration when Multi-label optimization was enabled. HCADVLT-545
2. Files are downloaded from Vault even when the HaloENGINE GenNXT Tomcat service is stopped and **Fail-Safe Mode** is set to Strict. HCADVLT-563
3. Fixed an issue where only one file was blocked when downloading an assembly with Optimized Download Protection enabled. HCADVLT-594
4. Fixed an issue where files could not be opened in AutoCAD when using the double-click or right-click > Open option from the Vault client. HCADVLT-601, HCADVLT-608
5. Fixed an issue where AutoCAD files were opened without protection when downloaded using **Check Out** with the **Update Properties** option. HCADVLT-602, HCADVLT-607
6. Fixed an issue where files were downloaded even when an error occurred with **Fail Safe Mode** set to Strict and an incorrect HaloENGINE GenNXT host name was configured. HCADVLT-613
7. Fixed an issue where the **Decision** field was not updated to **LABELED** in the Monitor log when a label-only file was downloaded with the action rule set to Label without Protection. HCADVLT-627
8. Fixed an issue where downloaded files remained unprotected in Vault Thin Client 2027. HCADVLT-628
9. Fixed an issue where the Monitor log incorrectly displayed Error = Yes and Act = Blocked when uploading an unprotected file to Vault. HCADVLT-634
10. Fixed an issue where the **Profile Name** and **Client Type** fields were empty in the Monitor log for file download operations. HCADVLT-635
11. Fixed an issue where the connection between Vault and HaloENGINE GenNXT was allowed without successful certificate authentication. HCADVLT-637

12. Fixed an issue where the `certificate_unknown` error message was not displayed when invalid HaloENGINE GenNXT client certificates were configured for both the primary and secondary HaloENGINE GenNXT servers. HCADVLT-640
13. Fixed an issue where a file downloaded from the Vault Thin Client was not protected according to the configured rule, even though it was saved to the specified location. The Monitor log also incorrectly displayed Error = YES. HCADVLT-647

6.5. Known Issues

This section describes the known issues with the current release.

1. Thin client Autodesk Vault Browser-based access is not supported. HCADVLT-13
2. When using the **Share View** option to open a file, an error message appears: "*The remote server returned an error: (500) Internal server error.*" Consequently, the link is not created. HCADVLT-25
3. Intermittently, the protected file does not open with a double-click or a right-click. There will be an error message "*File can't be opened in the application",* or "*The remote server returned an error (500) internal server Error*".
4. HaloENGINE ID will be displayed as the "Owner" of the document, despite the email ID (Autodesk Vault login user) configured in the admin portal.
5. An error message appears as "*Error 1069: The Service did not start due to a logon failure"* when you start the HaloENGINE GenNXT Tomcat Service. This is because the user who is running the service or a specific group that the user belongs to (e.g., Administrators) is added to the **Deny log on as a service** policy (**Local Security Policy** > **Security Settings** > **Local Policies** > **User Rights Assignment**). To prevent such an error, ensure that the user(s) or the group to which the user belongs, who runs the Service, are not included in the group policy.
6. Monitor log entries are not updated correctly when multiple files are selected and downloaded from the Vault client. HCADVLT-633
7. The **Host** value is not displayed, and an incorrect **IP** address is displayed in the Monitor log when downloading a file from the Vault Thin Client. HCADVLT-645
8. The **Author** field in the Monitor log is not updated correctly when **Document Owner** is configured as User in HaloENGINE GenNXT. HCADVLT-646

6.6. Unsupported Versions

Support for Autodesk Vault 2024 has been removed in this release.

7. 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	85.4%
Maintainability Rating	A*
Reliability Rating	A*
Security Hotspots Reviewed	A*
Security Rating	A*

Quality Gate report

Secude

www.secude.com

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.