



**HaloCAD**

HaloCAD for SOLIDWORKS PDM

Release Notes

Version 1.5

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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 for PDM solution includes HaloCAD PROTECT and MONITOR capabilities and interacts with the respective PDM application. Files in SOLIDWORKS PDM folders are closely monitored. When a file is cut or copied to a non-SOLIDWORKS PDM folder, HaloCAD intercepts and protects it before reaching the destination folder. Also, any previously encrypted SOLIDWORKS application files or PDF files copied/moved to the SOLIDWORKS PDM folder will be decrypted and saved.

### 3. 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
SOLIDWORKS PDM	<p>SOLIDWORKS PDM Server:</p> <ol style="list-style-type: none"> <li>1. 2022</li> <li>2. 2024 SP 3.1</li> <li>3. 2024 SP 4.0</li> <li>4. 2025 SP 1.2</li> <li>5. SolidNetWork License Manager, version 29.51.0001</li> </ol> <p>Supported SOLIDWORKS PDM Clients:</p> <ol style="list-style-type: none"> <li>1. 2021, 2022, 2024, 2025</li> <li>2. Supported Operating System: Windows 11 or above with installed updates.</li> </ol>
Office 365 Subscription	<ol style="list-style-type: none"> <li>1. Fully configured Microsoft Purview Information Protection.</li> <li>2. An Azure subscription is required to use Azure RMS and the MPIP functionality.</li> <li>3. A working Microsoft Entra ID service must be available.</li> <li>4. Transport Layer Security (TLS) 1.2 or higher must be enabled to ensure the use of cryptographically secure protocols at all client workstations.</li> <li>5. To avail the revoke access feature, the user should be assigned to the Microsoft Purview Information Protection Premium P1/P2 license. (Not required for reader add-on)</li> <li>6. Audit logging: Your Azure subscription must include Log Analytics on the same tenant as Microsoft Entra ID.</li> <li>7. Register an application to get the Application (client) ID and Tenant ID in the Azure portal. Select the option</li> </ol>

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Components	Details
	<b>Public client/native (mobile &amp; desktop)</b> during application registration in the Azure portal. Refer to the Technical Reference Manual for details on TLS 1.2 and application registration.
Supported file types	.sldprt, .sldasm, .prt, .asm, .slddrw, .x_t, .tif, .dwg, and .dxf
Other components	HaloENGINE

### Requirements

## 4. 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

## 5. Build 1.5

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.

### 5.1. New Features

There are no new features to highlight in this release.

### 5.2. Improvements

This section lists improvements added to the current release.

In earlier releases, HaloENGINE and HaloENGINE Service functioned independently and required separate installers. Beginning with this release, HaloENGINE is delivered as a unified component that bundles the HaloENGINE Tomcat Service DLL within a single installer. HaloENGINE now connects to Microsoft Purview Information Protection to fetch the sensitivity labels and make them available for label configuration. These enhancements simplify deployment and improve overall performance.

### 5.3. Limitations

This section lists the limitations of the current release.

When a non-office-protected file with a `.pfile` extension is copied to the SOLIDWORKS PDM vault folder, the file is decrypted, but the extension is not removed. HCADSWP-133

### 5.4. Fixed Issues

There are no major issues resolved in the current release to list.

### 5.5. Known Issues

This section describes the known issues with the current release.

1. A screen capture of a protected HaloCAD file is possible. HCADSWP-15
2. Using the **COPY** and **XCOPY** options, it is possible to copy a file from the SOLIDWORKS PDM Vault to a non-SOLIDWORKS PDM folder. HCADSWP-34

- 3. If **Folder Name** or **Client Hostname** metadata is defined in the classification engine, files will not be encrypted when copied from a SOLIDWORKS PDM folder to a non-SOLIDWORKS PDM folder.  
HCADSWP-85, HCADSWP-41
- 4. Files become corrupted when copied from the SOLIDWORKS PDM folder to a destination folder using the **History** option. HCADSWP-216
- 5. When copying files from the SOLIDWORKS PDM folder using the **Copy to** or **Move to** options, the file is copied without protection, and the audit log is not updated. HCADSWP-214
- 6. A .tmp file is created when opening a file from SOLIDWORKS PDM using the SOLIDWORKS application with HaloCAD for SOLIDWORKS PDM installed. The .tmp file is not cleared automatically even after closing the SOLIDWORKS application. HCADSWP-242
- 7. A file that was applied with a watermark label by HaloCAD for SOLIDWORKS PDM does not display the watermark text when opened from the SOLIDWORKS PDM local folder. HCADSWP-248

## 5.6. 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	84.2 %
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.