



**HaloCAD**

**HaloCAD for SOLIDWORKS PDM 1.3**

**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 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>2021 SP05.1, version 29.5.1.1</li> <li>2022</li> <li>2024 SP 3.1, SP 4.0</li> <li>SolidNetWork License Manager, version 29.51.0001</li> </ol> <p>Supported SOLIDWORKS PDM Client:</p> <ol style="list-style-type: none"> <li>2021 SP05.1</li> <li>Supported Operating System: Windows 10, Windows 11, or above with updates installed.</li> </ol>
Office 365 Subscription	<ol style="list-style-type: none"> <li>Fully configured Microsoft Purview Information Protection.</li> <li>An Azure subscription is required to use Azure RMS and the MPIP functionality.</li> <li>A working Microsoft Entra ID service must be available.</li> <li>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>To avail revoke access feature, the user should be assigned to Microsoft Purview Information Protection Premium P1/P2 license. (Not required for reader add-on)</li> <li>Audit logging: Your Azure subscription must include Log Analytics on the same tenant as Microsoft Entra ID.</li> <li>Use the option "Public client/native (mobile &amp; desktop)" during application registration in the Azure portal.</li> </ol>
Supported file types	.sldprt, .sldasm, .prt, .asm, .slddrw, .x_t, .tif, .dwg, and .dxf
Other components	HaloENGINE (supported from >6.4) and HaloENGINE Service

#### Requirements

**Recommended URLs, addresses, and ports for MPIP**

MIP SDK doesn't support the use of authenticated proxies. So, make sure you set the Microsoft 365 endpoints to bypass the proxy. View a list of endpoints at "[Microsoft Online Documentation](#)". However, Microsoft recommends the following:

Addresses	Ports
*.protection.outlook.com  40.92.0.0/15, 40.107.0.0/16, 52.100.0.0/14, 52.238.78.88/32, 104.47.0.0/17, 2a01:111:f403::/48	TCP 443
*.aadrm.com, *.azurerms.com, *.informationprotection.azure.com, ecn.dev.virtualearth.net, informationprotection.hosting.portal.azure.net, *.office.com (add substrate.office.com if you don't want to add all sub-domains), crl3.digicert.com, crl4.digicert.com.	TCP 443
<b>For event logging</b>  *.events.data.microsoft.com	TCP 443
<b>National Cloud</b>	<b>Microsoft Entra ID authentication endpoint</b>
Microsoft Entra ID for the US Government	<a href="https://login.microsoftonline.us">https://login.microsoftonline.us</a>
Microsoft Entra ID (global service)  For details on Microsoft Entra ID endpoints, please refer to " <a href="#">Microsoft Online Documentation</a> ".	<a href="https://login.microsoftonline.com">https://login.microsoftonline.com</a>

*Recommended endpoints*

## 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 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

## 5. Version 1.3

### 5.1. New Features

There are no new features in this current release.

### 5.2. Improvements

This section lists the improvements in the current release.

1. Support for preventing a file from being moved or copied from the SOLIDWORKS PDM folder to a non-SOLIDWORKS PDM folder. The user will receive a message that copying the file is blocked due to an action rule configured in HaloEngine. HCADSWP-188
2. As with this release, while downloading a file, the HaloCAD component determines whether an item is checked-out because this would prevent metadata extraction, therefore it is checked-in to execute metadata extraction and subsequently checked-out. During the forced check-in event, the history is updated with the message *"HaloCAD for SWPDM to get metadata"*. HCADSWP-87
3. As with this version, you must restart your computer after the installation is complete. The installer will display a message asking the user to choose whether to restart automatically after installation or manually later.
4. In the HaloENGINE monitor log, a new field called `fileBlockedByRule` is added to show the result of the decision. HCADSWP-211

### 5.3. Fixed Issues

This section lists the fixed issues in the current release.

1. Fixed an issue that prevented the encryption of `.jpeg`, `.png`, `.tiff`, `.msg`, and `.gif` files when copying from a non-SOLIDWORKS PDM folder to the SOLIDWORKS PDM folder, resulting in a HaloCAD error message. HCADSWP-89
2. Fixed an issue that caused the same values to be logged in the `fsize` and `in` fields of the monitor log when attempting to copy files from the SOLIDWORKS PDM folder to a non-SOLIDWORKS PDM folder using the **Move To** and **Copy To** options. HCADSWP-201
3. Fixed an issue that prevented non-office file extensions from being changed while copying them from the SOLIDWORKS PDM folder to the non-SOLIDWORKS PDM folder; however, the files were successfully encrypted. HCADSWP-148
4. Fixed an issue that caused a `.tmp` file to be created when an unprotected file from the SOLIDWORKS PDM folder was moved to a non-SOLIDWORKS PDM folder. HCADSWP-210

## 5.4. Limitation

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

## 5.5. Known Issues

This section lists the known issues in 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

## 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	83.6%
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.