



HaloCAD

HaloCAD for Windchill

Release Notes

Version 2.8

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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

The HaloCAD for PLM solution integrates seamlessly with the PLM application, including the features of HaloCAD PROTECT and HaloCAD MONITOR while utilizing Microsoft Purview Information Protection (MPIP), formerly Microsoft Information Protection (MIP), to provide Enterprise Digital Rights Management (EDRM) capabilities.

It provides access to MPIP-protected files, including label handling and privilege enforcement. Any file access actions, such as check-out or export, that may result in a download are intercepted by the HaloCAD for PLM solution, automatically protected based on predefined rules, and then delivered to the end user. Similarly, file access actions such as check-in or upload are intercepted and examined. If a protected file is detected, it is decrypted, and the unprotected file is returned to the PLM vault. For CAD users, the handling of CAD files remains seamless, as these processes occur entirely in the background. By applying MPIP labels, the solution ensures end-to-end security for CAD files, while all upload and download activities are continuously monitored and logged to provide complete traceability.

3. System Requirements

The following system requirements table outlines the minimum and recommended technical specifications, including software and network resources, required to run the product.

Components	Details
Supported Operating Systems	Windows Server 2022 and above with updates installed.
Supported file types	<ol style="list-style-type: none"> 1. Creo file types 2. MS Office native file types 3. Non-Office file types
Others	Install HaloENGINE and HaloCAD for PLM separately on Windows servers.

Requirements

Supported PLM software for HaloCAD for Windchill

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

Windchill PLM Software	HaloCAD Component Version
PDMLink 13.1.0.0, 13.0.2.0, and 13.0.2.4	2.8
PDMLink 13.0.2.0	2.7
PDMLink 12.x, 13.0.1.0	2.6

PLM software and HaloCAD component version

4. Prerequisites

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

1. An application of type Web is registered with Microsoft Entra ID.
2. An active Office 365 subscription is available.
3. Access to the recommended URLs is enabled.
4. TLS 1.2 or later is enabled on all client workstations to ensure secure communication.

For more information, 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

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 = $\geq 80\%$
2. B = $\geq 70\%$ and $<80\%$
3. C = $\geq 50\%$ and $<70\%$
4. D = $\geq 30\%$ 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. $\leq 5\%$ 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 2.8

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

There are no new features to highlight in this release.

6.2. Improvements

This section lists improvements added to the current release.

Added support for Windchill 13.1.0.0 and 13.0.2.4. HCADWCL-727

6.3. Limitations

This section lists the limitations of the current release.

1. An authorization error occurs while downloading a file configured with a security label in Windchill. HCADWCL-149
2. Multiple log entries get updated for a single file download if no action rule is configured and the Fail-safe mode is **Strict**. HCADWCL-216
3. It is not possible to retrieve the `User_Role` if the Site Administrator logs into Creo. Hence, the `User_Role` does not get logged in the audit log while the file is downloaded/uploaded. However, if the Site Administrator logs in via the browser, the user roles are fetched properly. HCADWCL-240
4. Protecting a new file based on metadata `SYSTEM_CONTEXT` is not possible until the background scheduler **revaulting process** in the Windchill Server gets completed, as configured by the site administrator. Once the scheduler is invoked, the file gets protected, and you can see the details of it in the audit log. However, this limitation does not occur in already uploaded files. HCADWCL-283
5. When downloading files from the Replica Server, the following metadata, such as `Product_Name`, `Library_Name`, and `Project_Name` do not work; instead, `System_Context` metadata is utilized to protect the files. Please note that only the Main Server supports the metadata `Product_Name`, `Library_Name`, and `Project_Name`. HCADWCL-422, HCADWCL-412
6. The metadata `Workspace_name` does not function while downloading files from the Replica Server.

7. When you try to enter a different language, such as Chinese or German, the `project_name`, `library_name`, `product_name`, `workspace_name`, and `system_context` entries in the Method Server log will have improper values. HCADWCL-504
8. Non-office or non-CAD files downloaded from the Windchill Workspace/Windchill browser will be protected according to the HaloENGINE rules, but their extension will not be changed to `.ptxt` or `.pfile`. For instance, the `Text.txt` and `Image.jpg` file extensions stay the same even after protection. This is expected behavior. HCADWCL-84, HCADWCL-86

6.4. Fixed Issues

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

1. Fixed an issue where protected image files (GIF, TIF, TIFF, JPEG, JPG, PNG) were not uploaded, and a decryption error occurred during upload to Windchill Commonsplace. HCADWCL-766
2. Fixed an issue where the Windchill URL and workspace did not load correctly, preventing file downloads based on the fail-safe mode when an error occurred in the HaloENGINE Tomcat service. HCADWCL-772
3. Fixed an issue where the label was not displayed in the sensitivity ribbon when opening an ASM file with dependent files from the workspace in Windchill version 13.0.2.4. HCADWCL-783
4. Fixed an issue where files were not protected when downloaded from the Replica Server. HCADWCL-784

6.5. Known Issues

This section describes the known issues with the current release.

1. When an error occurs while uploading the files into Windchill, the audit log file gets updated with improper field values for `fname` and file type. HCADWCL-163
2. If a text file is downloaded, the file gets protected as per the rule configured in HaloENGINE, but the extension is saved in native format (i.e., `.txt`) instead `.ptxt`. HCADWCL-151
3. The field value `duser` gets updated as "null" while uploading a file to the Windchill workspace. HCADWCL-250
4. The audit log updates file downloads only when files are downloaded multiple times using the **Export from Workspace** option. HCADWCL-252
5. When an assembly file with a sub-assembly file and a dependent part file is downloaded via the **Export from Workspace** option, there will be a log entry only for sub-assembly and dependent part files, excluding the main assembly file. HCADWCL-255

6. When an assembly file with a dependent part file is downloaded via the **Export from Workspace** option, there will be a log entry for the assembly and dependent part files. HCADWCL-256
7. The incorrect value gets updated in HaloENGINE_Monitor.log file for fname and file type fields while uploading a large assembly file. HCADWCL-257
8. When you download a top-level ASM file using the Open in Creo option, the label on the top-level file is applied uniformly to all its dependent files. This is the expected behavior. However, if you export the top-level ASM file directly from the **Export from Windchill** option, the downloaded top-level file and its dependent files will be asymmetric. For example, if an action rule is defined for DRW and PRT file-dependent files, the exported DRW and PRT files are assigned the label specified in the rule engine rather than the label of the top-level file. HCADWCL-512
9. Although the failover method is enabled, when the primary HaloENGINE is down, the monitor log will not be updated in the secondary HaloENGINE. HCADWCL-673
10. A file is blocked if the HaloENGINE block action is configured correctly. However, an incorrect message will appear as *'This site can't be reached'*, and then immediately redirect to the Windchill Error page with the incorrect message. HCADWCL-664
11. If the **Save Structure/Save Representation** option is used when downloading a file, the file will be blocked. However, an incorrect message, such as *'This site can't be reached'* will appear. HCADWCL-659
12. The log is updated twice in the Method Server log during Windchill startup. HCADWCL-674
13. The connected Windchill user is set as the owner during file download when the owner is configured as a service. HCADWCL-745
14. Files may be downloaded without protection in the Creo application after stopping the HaloENGINE Service when Fail Safe Mode is configured as Strict in Windchill master. HCADWCL-718

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	82.1%
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.