



HaloCAD

HaloCAD for Teamcenter

Release Notes

Version 2.7

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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 specifies the minimum and recommended technical specifications, such as software and network resources, necessary to run the product.

Components	Details
Supported Operating System	Windows Server 2022 and above with updates installed.
Supported file types	<ol style="list-style-type: none"> 1. NX file types 2. Creo file types 3. PDF 4. MS Office native file types
Office 365 Subscription	<ol style="list-style-type: none"> 1. Fully configured Microsoft Purview Information Protection. 2. An Azure subscription is required to use Azure RMS and the MPIP functionality. 3. A working Microsoft Entra ID service must be available. 4. Transport Layer Security (TLS) 1.2 or higher must be enabled to ensure the use of cryptographically secure protocols at all client workstations. 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) 6. Audit logging: Your Azure subscription must include Log Analytics on the same tenant as Microsoft Entra ID. 7. Register an application to get the Application (client) ID and Tenant ID in the Azure portal. Select the option Web during application registration. <p>Refer to the Technical Reference Manual for details on TLS 1.2 and application registration.</p>

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Components	Details
Others	Install HaloENGINE and HaloCAD for PLM separately on Windows servers.

Requirements

Supported Teamcenter applications for HaloCAD

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

Teamcenter applications	HaloCAD Component Version
1. Teamcenter 14.x 2. Teamcenter 2312 3. Teamcenter 2406	2.7
1. Teamcenter 14.x 2. Teamcenter 2312	2.6
1. Teamcenter 13.x, 14.x 2. Teamcenter 2312	2.5
Teamcenter 11.x, 12.x, 13.x, 14.x	2.3, 2.4

Teamcenter applications and HaloCAD component version

4. Code Quality and Security

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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 2.7

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.

1. Support for Teamcenter 2406.
2. Upgraded JDK 17 with Tomcat 10.x support. HCADTCR-565, HCADTCR-560
3. 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 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. Similarly, HaloCAD for Teamcenter is now delivered as a unified component that includes the HaloENGINE Service DLL, which not only fetches sensitivity labels but also manages file encryption and decryption. These enhancements simplify deployment and improve overall performance. HCADTCR-561, HCADTCR-570
4. Updated the Config Tool to allow storing the Teamcenter SOA username and password in the Teamcenter Configuration tab instead of depending on Windows Credential Manager. HCADTCR-586, HCADTCR-587

5.3. Limitations

This section lists the limitations of the current release.

1. A text file downloaded from RAC is protected as expected. But if the Teamcenter server is set up with Windows encoding, such as cp-1252, then a text file downloaded from the client will be inserted with a Windows line break, causing the file to be corrupted and unreadable. Therefore, it is advised against protecting text files when such a setting is present in your Teamcenter server environment. Additionally, if a protected text file is downloaded and uploaded again into Teamcenter (via RAC), the file size is updated as "0". HCADTCR-88, HCADTCR-132

2. When HaloCAD is deployed in an environment, we recommend that the administrator restrict access to non-proxy URLs by 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.

5.4. Fixed Issues

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

1. Fixed an issue where the file was not downloaded when the action rule was configured with a label without protection. HCADTCR-501
2. Fixed an issue that caused the export of an unprotected NX file from Teamcenter via the **Export assembly from Teamcenter** option in the NX application. HCADTCR-556
3. With this release, the service is provided as a DLL, and tenant details have been incorporated into the HaloCAD for Teamcenter UI.
4. Service-related fields have been removed from the Configuration Tool user interface. HCADTCR-572
5. Fixed an issue where the protected file was uploaded, but the decryption success message was not updated in the haloproxy.log when uploading the protected file through the Teamcenter RAC application. HCADTCR-576
6. Fixed an issue where IP Classification was not set while uploading the configured protected file into Teamcenter. HCADTCR-579

5.5. Known Issues

This section describes the known issues with the current release.

1. If an Office file is downloaded, the file gets protected, but the extension changes. For example, `sample.docx > sample.doc`. HCADTCR-127
2. If a Non-CAD/Non-office file is downloaded, the file gets protected as per the rule configured in HaloENGINE but the extension is saved with native format (i.e., `.txt`, `.jpg`, `.bmp`) instead of `.ptxt` or `.pfile`. HCADTCR-35
3. An error message appears as *"Error 1069: The Service did not start due to a logon failure"* when you start the HaloENGINE 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, make sure the user(s) or the group that the user belongs to who runs the Service does not exist in the group policy.

- 4. Failover Configuration Limitation:** When Failover is configured and the secondary HaloENGINE server is running, file protection is not applied. In this release, the Failover mechanism does not function as expected. Therefore, it is recommended not to configure Failover. This issue will be addressed in the next release.

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	82.2%
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.