



**HaloCAD for Teamcenter 2.5**  
**Release Notes**

## Copyright

© 2023-2024 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  
Landenbergstrasse 34  
6005 Luzern  
Switzerland  
Tel: +41 41 510 70 70  
Mail: [info@secude.com](mailto:info@secude.com)

### Support

Web: <https://support.secude.com>  
Mail: [support@secude.com](mailto:support@secude.com)

# Table of Contents

<b>1. INTRODUCTION</b>	<b>1</b>
<b>2. PRODUCT DESCRIPTION</b>	<b>2</b>
<b>3. SYSTEM REQUIREMENTS</b>	<b>3</b>
<b>4. CODE QUALITY AND SECURITY</b>	<b>4</b>
<b>5. BUILD 2.5</b>	<b>6</b>
5.1. New Features	6
5.2. Improvements	6
5.3. Limitation	6
5.4. Fixed Issues	7
5.5. Known Issues	7
5.6. Quality Gate Report	8

# 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 PLM includes HaloCAD PROTECT and MONITOR capabilities, which actively monitor file access, upload, and download events while running in the background. During a file upload, HaloCAD evaluates if the file is already encrypted, and if so, it decrypts and then allows the file to be checked-in to the PLM Vault. In the event of a file access or download, the selected file is automatically protected. HaloCAD operates independently during the check-in and check-out process according to the rules established in the Classification Engine.

### 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 2016 and above
Supported Teamcenter versions	1. Teamcenter 13.x, 14.x 2. Teamcenter 2312
Supported file types	1. NX file types 2. Creo file types 3. PDF 4. MS Office native file types
Other components	HaloENGINE and HaloENGINE Service

#### *Requirements*

#### **Supported Teamcenter applications for HaloCAD**

You are reading the current version of the release notes; however, if you are searching for a previous version, refer to the release notes for that version.

Teamcenter applications	HaloCAD Component Version
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 11.x, 12.x, 13.x	2.2, 2.1
Teamcenter 11.x, 12.x	2.0, 1.1, 1.0

#### *Teamcenter applications and HaloCAD component version*

## 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. Build 2.5

### 5.1. New Features

This section lists the new features in the current release.

1. Added support for testing SOA connections with the Windows Credential Manager using the configuration tool. HCADTCR-481
2. Support for the Teamcenter 2312 version. HCADTCR-462
3. HaloCAD for Windchill allows for failover connections between two HaloENGINEs. If the primary HaloENGINE fails, the secondary HaloENGINE takes over, minimizing downtime and ensuring continued functioning. This failover mechanism can be configured using the HALOCAD Config tool as well as the command line. HCADTCR-460

### 5.2. Improvements

This section lists the improvements in the current release.

1. All file information related to ASM Optimization with Multi-Label configuration will be updated in the monitor log. HCADTCR-457
2. Teamcenter client property values will be correctly updated in both the haloproxy and monitor logs. HCADTCR-442
3. Support for configuring HaloCAD and HaloENGINE parameters using the command line. HCADTCR-489
4. Added a new browser client parameter to log the user agent value in the **RequestClientAppliation** field. HCADTCR-487
5. A new field named "blocked\_by":["blocked\_by\_rule"] has been added to the HaloENGINE monitor log to describe the Block action. HCADTCR-473

### 5.3. Limitation

This section lists the limitations of the current release.

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

## 5.4. Fixed Issues

This section lists the fixed issues in the current release.

1. Fixed an issue that caused the protected Office file extension to become generic protection with the `pfile` extension and prevented opening in the MS Office application. HCADTCR-483, HCADTCR-479
2. Enabled SHA-256 algorithm for ticket digest option in Teamcenter RAC for TLS configuration. HCADTCR-480

## 5.5. Known Issues

This section lists the known issues in 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. Error message appears as **Network Error: Socket Timeout Exception** while downloading a large file from Teamcenter with HaloENGINE Service mode configured as **Remote**. HCADTCR-239
4. 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.
5. It is possible to export an NX file without protection using the option **Export assembly from Teamcenter** in the NX application. HCADTCR-300
6. MS Word file does not open in the Teamcenter Rich client application's Viewer Tab, though the file is protected. HCADTCR-304
7. The deployment of an already installed HaloENGINE is not supported by the current installer. The next release will include a fix for this.
8. Teamcenter Creo Integration does not function properly with Creo 10 and Teamcenter 14 when combined with the HaloCAD Creo Add-on. Errors appear when you use the Open folder option. HCADTCR-448

## 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	87.5%
Maintainability Rating	A*
Reliability Rating	A*
Security Hotspots Reviewed	A*
Security Rating	A*

*Quality Gate report*



[www.secude.com](http://www.secude.com)

## 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.