

A 3D CAD model of a helmet is shown in a blue and orange color scheme. The helmet is semi-transparent, revealing internal components. Several red HyperMILL tooling pieces are attached to the helmet's surface. The background is a dark blue gradient with a grid pattern.

hyperMILL[®]

Installation Guide

OPEN MIND Software

© The helmet was programmed and produced by PMSHIN

(Documentation produced on Tue, Mar 1, 2022)



Table of Contents

1. Scope of delivery	4
2. Content of the product data media	5
3. Installing and configuring	6
Overview of the installation process	6
Installing OPEN MIND software	6
Configuring the OPEN MIND software	8
4. Activating and managing products	14
Requesting licence data	14
License Manager – Typical processes during activation	14
Checking requirements	16
Process	16
Search for and select dongle	16
Select activation codes	17
Activate or return	17
Network licence and licence server	18
Specify warning period	19
Specify start options	19
5. Administrator manual	20
Introduction	20
Silent installation of <i>hyperMILL</i> / <i>hyperCAD-S</i>	20
Configuration	23
Security settings	25
6. Hardware / software requirements	26
7. Trademarks	28



1. Scope of delivery

Before starting the installation, please check the product delivered for completeness. The running capability of all OPEN MIND products can be ensured only if the following requirements are in place:

- Compatible hardware and software
- Installed dongle driver
- Plugged-in dongle with activated products
- Installed software

	Content of the product data media			Software copy protection		Licensing	
	Installation	Installation instructions	Software documentation	Computer ID	Dongle (local / server)	Activation code	Li-cence
<i>hyperMILL</i> for <i>hyperCAD-S</i>	x	x	x	-	x	x	-
<i>hyperMILL</i> for Autodesk® Inventor®	x	x	x	-	x	x	-
<i>hyperMILL</i> for SOLIDWORKS	x	x	x	-	x	x	-
<i>hyperMILL</i> SHOP Viewer	x	x	x	-	x	x	-
CAD interfaces	x	x	x	-	x	x	-
Post Processors	-	-	x	-	x	x	-

The activation code is supplied by e-mail.



2. Content of the product data media

- Installation of the CAM program *hyperMILL* (including Toolpath Editor, *hyperVIEW*, OPEN MIND tool database) with *hyperCAD-S* or *hyperMILL SHOP Viewer* as optional components.
- OPEN MIND license manager and codemeter dongle driver (local, server) in *hyperMILL* installation integrated.
- Installation instructions.
- Software documentation: Documentation is included on the product data media

Postprocessors are provided in a customer-specific manner.

3. Installing and configuring

Overview of the installation process

The installation is always local.

For the CAD-integrated products *hyperMILL* for Autodesk® Inventor® and *hyperMILL* for SOLIDWORKS, a working version of the respective CAD software must have been installed and already started once.



The installation requires administrator rights.

1. The installation starts automatically. Follow the installation instructions.
2. In the second step, configure the software that has been installed using the *hyperMILL* CONFIGURATION Center. For more information, see section *hyperMILL* CONFIGURATION Center.

Installing OPEN MIND software

Install the *hyperMILL*, *hyperCAD-S*, *hyperMILL* SHOP Viewer and the License Manager programs:

1. Start installation: Call the installation under **Products**.
2. Select language for the installation: Select the language for the installation.
3. Licence agreement: Read and accept the terms and conditions of the license agreement and click **Next**.
4. Select target folder: Click **Next** to confirm the directory in which the components are to be installed. You will be shown a default path (C:\Program files\OPENMIND) that you can change using the **Change** button.
5. Select and install programs: Select the programs to be installed.

The OPEN MIND licence manager must always be installed, however, it can also be installed separately for use as a licence server, for example.



A simultaneous installation of *hyperMILL* / *hyperCAD-S* and *hyperMILL* SHOP Viewer is not possible. At the time of installation, you can choose whether to use your computer as a CAD/CAM work station or as a *hyperMILL* SHOP Viewer work station. Subsequent selection is possible in the licence manager.

Apply settings from previous version

During the installation, the *hyperMILL* CONFIGURATION Center is started automatically and a check is performed to see whether another version of *hyperMILL* has already been installed on the PC. If this is the case, you can apply the settings of this version. To do this, activate the function:

Apply settings from previous version.

This function must be activated by **each user** who wants to transfer the personal settings of a previous version.

During installation, define the following basic settings in the *hyperMILL* CONFIGURATION Center dialogue.



You can also apply the settings from an earlier version later at any time using the *hyperMILL* CONFIGURATION Center. Likewise, you can change the basic settings later with the *hyperMILL* CONFIGURATION Center. To start the *hyperMILL* CONFIGURATION Center manually, go to the Windows Start menu:

***hyperMILL* [version] → *hyperMILL* CONFIGURATION Center.**

For more information on configuring the software, see section [Configuring the OPEN MIND software \(page 8\)](#).

hyperMILL system settings

Global working space: Specify where the files generated by *hyperMILL* are to be saved. By default, the location is

C:\Users\Public\Documents\OPEN MIND.

MDF path: Directory for saving the machine definition files. By default, the location is

C:\Users\Public\Documents\OPEN MIND\mdf.

Project paths: If you work with project directories, the data generated will be stored here. By default, the location is

C:\Users\Public\Documents\OPEN MIND\Projects.

To change the default directory, use the **Change** button and select the required directory.

Use project paths: The files generated by *hyperMILL* are saved at the previously specified **Project path**.

Language: Set the language for *hyperMILL*.

Measurement system: Specify the measurement system (**Metric/Inch**) for *hyperMILL*.

CAD platform: The platforms identified during the installation are displayed. Select the required CAD platform(s). Then click **Next**. The **Setup application database project** dialogue opens.

Setup application database project

In this dialogue, you create the databases according to your requirements. The following functions are available:

Import databases from an earlier version: This creates a database project on the basis of an application tool database and application macro database from an earlier version of *hyperMILL*.

Empty database project: This creates a database project with an empty tool and/or macro database.

Demo database project: This creates a database project using the available demo databases, see:

<Installation directory>/Tool Database/<version>/template database/<language>/demo.db.



Please note that the demo data in these tool databases is provided to illustrate the various functions and is not intended for production purposes. OPEN MIND disclaims any liability for damages resulting from the use of demo data in a production environment.

New database project: This creates a database project on the basis of any existing databases in the .mdb and .db formats.

You can combine databases from different areas. For example, you can combine an empty macro database and a tool database from an earlier version of *hyperMILL* into one database project. You can change the name of the database project as you wish. Click **Next** when you have completed all the settings.



You can change the database directories later at any time in the *hyperMILL* **Settings**. Start the dialogue via the *hyperCAD-S* menu **hyperMILL** → **Setup** → **Settings** → **Database**.

You will be informed that the settings have been applied. The installation and initial configuration of *hyperMILL* are complete. Click **Close** to close the dialogue.

Configuring the OPEN MIND software

The *hyperMILL* CONFIGURATION Center starts automatically after an installation has been carried out. To start the *hyperMILL* CONFIGURATION Center manually, go to the Windows Start menu: **hyperMILL [version]** → **hyperMILL CONFIGURATION Center**.

The user interface is divided into the following functional areas.

Set basic settings

If required, you can subsequently adapt the basic settings that you defined during the installation here, see [hyperMILL system settings \(page 7\)](#).

Apply user settings from previous versions

Must be executed by every *hyperMILL* user who wants to apply their personal settings from a previous version.

Connect applications

Click the **Connect applications** entry to start the **OPEN MIND Application Settings** dialogue. The following functions are available:

Area of application

For: Shows the area of application for the application settings.

<System>: The settings apply to **all users** of the system. They can only be changed when the *hyperMILL* CONFIGURATION Center is run as administrator.

[User name]: The settings apply to the **current user**.

Language

Shows all languages registered for this program version. Selecting the relevant language switches the language for *hyperMILL* and auxiliary programs (*hyperVIEW*, OPEN MIND Tool Database etc.), but the *hyperCAD-S* setting remains unchanged.

[Language]: Displays the language set for the current user.

[Language] <System>: Shows the language set for all users of the system. After this option is selected, the active user returns to using the currently active system language. When the system language is changed, the language is also changed again for this user.

Registered applications

List of registered applications.

Programs registered for all users are displayed in gray. Unless the **Application Settings** program is started with administrator privileges, it will not be possible to edit or delete these entries.

Programs that are registered for the currently active user are displayed in black and can be edited and/or deleted by the currently active user.

New: Add new application to the applications list.



Edit / Delete: Edit or remove the existing application from list of registered applications.

Key: Name used by OPEN MIND programs to start the application or function.

Name: User-defined application name.

Program: Complete path name under which the application is installed.

Arguments: Users can enter additional parameters.

Export and import settings

You can use the *hyperMILL* CONFIGURATION Center to transfer data and settings from one PC to another. This may be necessary

1. if a PC was replaced or
2. *hyperMILL* and *hyperCAD-S* should have the same settings on several PCs.

Export settings

Proceed as follows to export data and settings:

1. Click the **Export Settings** entry to open the **Export Requirements** dialogue page. This dialogue asks you to close all OPEN MIND applications. Please note that you must be logged in with the same Windows user account with which you also use *hyperMILL*. Click **Next**.
2. The export directory is displayed on this dialogue page. To change the default directory, use the **Change** button. If an export file (default = `mySettings.omSettings`) with the same name has already been created in the selected directory, it will be overwritten when exporting if you activate the **Overwrite existing export file?** function. Click **Next**.
3. The next dialogue page shows an overview of the exported data and settings in the *hyperMILL* **Directories**, **Admin Settings**, **Databases**, **Postprocessors** and **Licence** sections. Click **Next** to start the export.
4. Close the dialogue once the export has finished.

Import settings

Proceed as follows to import data and settings:

1. Click the **Import Settings** entry to open the **Import Requirements** dialogue page. This dialogue asks you to close all OPEN MIND applications. Please note that you must be logged in with the same Windows user account with which you also use *hyperMILL*. In addition, the user account requires administrator rights during the import. Click **Next**.
2. On the **Import Settings** dialogue page, click **Select omSettings file** and select the previously exported `*.omSettings` file. Then click **Next**.
3. The next dialogue page shows an overview of the data and settings to be imported in the *hyperMILL* **Directories**, **Admin Settings**, **Databases**, **Postprocessors** and **Licence** sections. Click **Next** to start the import.
4. If data with the same name are already present on the target PC, you will be informed of the import details on the last dialogue page. Click **Close** to close the dialogue.

How does data export/import take place?

- Before the import process, all settings and data are stored in a backup file in the following directory:
C:\Users\Public\Documents\OPEN MIND\backup\backup.omSettings.
- Existing data with the same name on the target PC will **not** be overwritten during the import process. The data will either be saved as a copy (example: databases) or the import will **not** take place at all (example: postprocessors). Information on the import will be summarised (each section separately) in a text file and saved in the following directory:
C:\Users\Public\Documents\OPEN MIND\tmp\Settings Wizard.
- Local, network and mixed environments are supported.
- Missing directories are created.
- No user decisions are required.

Perform a system check

Click the **Check System** entry to start the **System check tool** in order to check whether the PC is suitable for *hyperMILL*.

System check tool



Determine and evaluate system information.

Help → **System check tool**

Determine system information that could prevent stable operation, evaluate with regard to *hyperCAD-S* and gather the information to send to OPEN MIND support. For this purpose, the separate software `systemtoolcheck.exe` can also be called in the root directory of *hyperCAD-S*.

System information and test results

The software checks, for example, the operating system, CPU type, graphics card as well as the display driver, graphics settings, current resolution and the OpenGL settings (content and version). Exactly the same settings as required for *hyperCAD-S* are used here.

The information that is found is compared to the system requirements set by OPEN MIND, evaluated and listed in a clear summary under **Check** and in a detailed report under **Details**.

Check

Displays a summary overview of the test results for the user. The evaluation provides the following results:

		The analysis is still running or is not possible.
	Error	Tested attributes need to be changed. The software cannot function properly.
	Warn- ing	Tested attributes need to be checked again. It may be possible to optimise a attribute, for example, if a non-tested display driver is found.
	Info	Tested attributes are correct.

Details

Displays a detailed report of all tested attributes with the test results to be evaluated by OPEN MIND support. The detailed evaluation provides the following results:

	Error	Tested attribute needs to be changed. The software cannot function properly. Errors are coloured red.
	Warning	Tested attribute needs to be checked again. It may be possible to optimise the attribute, for example, if a non-tested display driver is found. Warnings are coloured orange.
	Info	Tested attribute is correct. Info is coloured green.
-	Attributes	Determined software and hardware attributes, plus further information and messages.

Right-click to open a context menu with the following commands:

Table 1. Commands on the context menu:

Command	Explanation
Copy	Copy the selected text to the clipboard.
Copy link address	Copy link address to the clipboard. To do this, right-click the link beforehand.
Select all	Select all text.

Tips

Tips on dealing with the warnings and errors from the results of the test. Check whether the compatibility required to use the OPEN MIND software can be established by implementing obvious measures:

Operating system	The supported operating systems can be found in the installation guide for OPEN MIND products. information is also provided on the OPEN MIND website under Useful information . Use a computer with an operating system that is supported.
Desktop composition	Configure the operating system so that it complies with the recommendations for the graphics card and monitor. Also see Graphics card and monitor .
Free space on system disk	There must be enough storage space on the hard disk for storing temporary data (according to the size of the CAD/CAM data that is processed). Clean up the hard disk so that there is enough free storage space to allow the software to operate safely, swiftly and smoothly.
Total memory (RAM)	A large total memory (RAM) is recommended to ensure that the OPEN MIND software runs safely, swiftly and smoothly. information is also provided on the OPEN MIND website under Useful information . Check whether the computer's total memory can be increased.
Free memory (RAM)	Close other software programs that are not required, for example, disable any start-up software programs that run automatically when the computer starts but are not needed permanently. Close any other instances of OPEN MIND software that are not required.



Other	<p>Check whether the operating system date is set correctly.</p> <p>Temporary data on a computer can mount up. Check whether the amount of temporary data can be reduced.</p> <p>Reports when an anti-aliasing command is not available.</p> <p>The multi-threading tessellation is disabled by an environment variable.</p> <p>Check whether all the 'Microsoft Visual C++ Redistributable Packages', which are required to operate the software, are installed correctly.</p>
OpenGL version	<p>The graphics card does not support any version of the OpenGL programming library that is required for OPEN MIND software. Use a driver recommended by OPEN MIND or install the latest driver offered by the manufacturer. information is also provided on the OPEN MIND website under Useful information.</p>
OpenGL rendering context	<p>An OpenGL rendering context is a port via which all OpenGL commands are directed. Each thread that makes calls for OpenGL must have a current rendering context. Rendering contexts link OpenGL to the Windows windowing systems.</p> <p>Use a driver recommended by OPEN MIND or install the latest driver offered by the manufacturer. information is also provided on the OPEN MIND website under Useful information. Check whether the graphics card that is in use needs to be replaced by a graphics card recommended by OPEN MIND.</p>
GPU memory	<p>Increase the memory on the graphics card or replace with another graphics card that is recommended by OPEN MIND and has more GPU memory.</p>
Profile settings	<p>The use of NVIDIA GPU is recommended. Select as the preferred GPU in the NVIDIA control panel or set using global default settings such as 'Workstation App - Dynamic Streaming' or '3D App - Visual Simulation'. Or, switch off the 'NVIDIA Optimus (TM) - technology' in the BIOS setup of the computer.</p>
Display driver	<p>No display driver recommended by OPEN MIND is found for the graphics card. Use a recommended driver or install the latest driver offered by the manufacturer. information is also provided on the OPEN MIND website under Useful information.</p>
Status to run <i>hyperMILL</i>	<p>Change the requirements for running OPEN MIND software, which are flagged as incorrect, so that they comply with the required conditions.</p>

Overview of commands

The following commands are provided on the menu bar and toolbar:

File



Save as

Save the detailed system information and detailed test results as a *.txt text file or an *.htm HTML file.



Send e-mail

Compose an e-mail with the detailed information that has been found and send to OPEN MIND support at <support@openmind-tech.com>. An e-mail program is required for this on the computer along with an Internet connection.



Print

Print a report with the detailed information that has been found.



Exit

Exit the current application.

Edit



Copy

Copy the detailed information that has been found to the clipboard.

Help

About ...: Show the software version.

4. Activating and managing products

Requesting licence data

Software copy protection

OPEN MIND software and CAD interfaces are copy-protected using Codemeter dongles from WIBU Systems. For local licensing, each computer requires a separate dongle. It must be plugged into a USB interface.

Activation code for licence

The licence management can be implemented independently of the production environment. The range of licensed products per dongle can be tailored with the OPEN MIND Licence Manager according to your requirements, for example, by porting 5X functionality to another editor or to the product extension. In such a case, it is not necessary to replace the dongle.

A licence is the right to use OPEN MIND software such as *hyperMILL* or components.



An activation code allows for one or several licences to be activated or deactivated on a dongle and is not tied to any specific dongle. Activated products on a (randomly selected) dongle are always tied to their activation codes. The activation code is supplied by e-mail.

The purpose of a return is to modify the scope of the OPEN MIND software in use on a dongle, for example, when changing the software package from 'Classic' to 'Expert'. The software package is returned to the activation code and can then be adjusted by OPEN MIND.

The use of a licence server requires a network licence.

License Manager – Typical processes during activation

Overview of typical processes during the activation of products:

1. Initial situation: Separate activation on a computer connected to the Internet for <i>hyperMILL</i>
Licensing process
 Computer with Internet <ol style="list-style-type: none">1. Install the Licence Manager2. Attach dongle to USB3. Start the Licence Manager4. Select local dongle5. Input activation code6. Select and activate products7. Close the Licence Manager8. Remove the dongle


**hyperMILLcomputer**

1. Install OPEN MIND software
2. Attach dongle to USB
3. Start OPEN MIND software

2. Initial situation: Network licensing on a *hyperMILL* computer with a network licence, without Internet access

Licensing process**Computer with Internet**

1. Install the Licence Manager
2. Attach dongle to USB
3. Start the Licence Manager
4. Select local dongle
5. Input activation code
6. Select and activate products with a network licence
7. Close the Licence Manager
8. Remove the dongle

**Licence server**

1. Install the Licence Manager
2. Attach dongle to USB
3. Start the Licence Manager
4. Select local dongle
5. Turn on network server
6. Close the Licence Manager



**hyperMILLcomputer (client)**

1. Install OPEN MIND software
2. Start the Licence Manager
3. Select the licence server
4. Turn on and use licence server
5. Close the Licence Manager
6. Start OPEN MIND software

Checking requirements

- Prior to the , please check the following points:
- Is there Internet access?
- Has the OPEN MIND Licence Manager been installed?
- Has a Codemeter dongle been supplied and plugged into a USB interface of the computer?
- Is there an activation code (5x5-digit string of characters)?

When the Licence Manager is installed, the dongle driver is installed automatically.



The activation and return of licences or OPEN MIND software products requires an active Internet connection. After the activation, the dongle can be used without an Internet connection.

Process

Start the OPEN MIND Licence Manager. The software can be found on the Start menu under OPEN MIND. Finally, close the Licence Manager and start the OPEN MIND software.



The Licence Manager is installed in `C:\Program Files\OPEN MIND\License Manager` and can be launched using `LicenseManager.exe`.

Search for and select dongle

The Licence Manager looks for all local dongles and all licence servers on the network. On the **Dongle / Licence server** tab, all **Available Dongles / Servers** are displayed. Select a local dongle or licence server (display of server name and dongle number).

The list shows all products allocated to the selected dongle or server with the following information.

Product name: Display of the products available on the dongle and/or licence server as well as, as a branch view, the users of the products. Click on the product name to display the licensed users.

Expires: Expiry date - after this date, the product can no longer be used.

Maintenance: Expiry date - after this date, updates are no longer possible.

Notes: Display of information on postprocessor and machine model licensing.

When a licence server is used, the following is additionally displayed:

Count: Display of number of products licensed

Used: Display of the currently used number of product licences. If not all licences available are in use, the display will be highlighted in green. If all licences available are in use, the display will be highlighted in red.

If the search does not yield any results, the message 'No active licences found' appears. In this case, plug a dongle into the USB interface or set up a licence server.

If the message 'No active licences found' is displayed or if existing licences are to be managed, switch to the Activation code tab:

Select activation codes

Already existing activation codes are validated automatically and displayed for selection under **Available activation codes** in the Activation code tab. Use **Add activation code** to add a new activation code.



The complete activation code can be copied to the fields in one process via the clipboard. For this purpose, place the cursor in the first field.

Keep your activation codes in a safe place. The codes will also be required to return products, for example, as part of software maintenance.

Please do not interrupt the activation process as this could damage the dongle.

Once the fields have been filled in, a connection to OPEN MIND is established automatically and the activation code is checked.

✔ Activation code is recognised.

✘ Error, activation code could not be recognised. Check whether the activation code was entered correctly and that there is an Internet connection, for example, check the firewall settings. If necessary, contact your network administrator. Confirm the successful process with **OK**.

Select the required activation code under **Available activation codes**:

✘ Remove an entry from the activation codes.

★ Bookmark an activation code as a favourite that is always displayed at the top.

🔄 Reload the activation codes.

On the **Activation code** dialogue page under **Targets**, choose the dongle, whose scope of licensing needs to be changed.

The list displays all allocated products and test licences with status (Not activated) or the dongles activated through them.

Activate or return

Select the required products from the list and click **Activate licence** and/or **Return licence**.



- Ensure that the relevant dongle is available locally.

- Ensure that the software has been closed before you use Return.

Activate licence allocates the product to the selected local dongle. The dongle number is displayed. If an update is available, the update will be activated.

Return licence deactivates the product on the selected dongle and returns it to the activation code.

If products are to be returned to OPEN MIND, for example, when changing from local licensing to network licensing, proceed as follows:

1. On the **Activation code** tab, select the activation code from **Available activation codes**.
2. The List displays only the products that must be returned.
3. Click **Return licence**.



While products still need to be returned to OPEN MIND, the further management of products belonging to the activation code is blocked.

This requires an active Internet connection! A connection to OPEN MIND is established automatically and the changes are implemented.

✔ Change successful

✘ Error, change not possible. Check whether an Internet connection is established. Switch to the **Dongle / Licence server** tab and

🔄 reload by clicking on the Activation codes button.

If the error persists, please contact your Support.

Select the required activation code under **Available activation codes**.

✘ Removes an entry from the activation codes.

★ Bookmarks an activation code as a favourite that is always displayed at the top.

🔄 Reloads the activation codes.

Under **Targets**, select the dongle, whose scope of licensing needs to be changed.



A dongle for a licence server can be managed locally using any OPEN MIND Licence Manager. For this purpose, plug the dongle into the local USB interface.

Network licence and licence server

On the **Options** tab, select the **Use this computer as a licence server** option if the computer is to be used as a licence server on the local network.

To select this option, you must have administrator rights.

Use the **Use licences from a server** option if you want to access a network licence. An available licence server is accessed automatically via **Locate licence server automatically**. Enter a server with its IP address or name manually in **Server name** if the **Use a specific licence server** option is to be used.

To configure these settings, you must have administrator rights.



You must start the Licence Manager with administrator rights, for example, using the Windows Run as administrator function. For this purpose, select LicenseManager.exe in the program directory and right-click to open the Windows shortcut menu.

If you are working with network licences, specify a product that is to be started regularly on the computer on the **Start tab under Select base product**. Otherwise, where available and permitted, the local dongle will be evaluated or the most extensive product package available on the network will be started (**Automatic selection**).

You can use **Additional client info** to store a note (for example, phone number and e-mail address) that is displayed for every user when a licence server is used.

Reload on the **Dongle/Licence server** tab starts a new search for available dongles and licence servers. **Group list by users** sorts the list of products in such a way that the products currently in use are shown as being allocated to the users. The status bar displays information on the settings of the local computer.

Proxy authentication

If you use an Internet proxy with authentication in your company, on the **Options** tab you must enter the **User name** and **Password** for the proxy in order to activate the licences.

Afterwards, you can log in using the **Logon to proxy** button. On successful login, the **user name** and **password** are locked for editing and the **Activation code** tab of the Licence Manager is unlocked.

When an Internet proxy with authentication is used, the activation codes are not stored on the system and are also not loaded when the **Licence Manager** is started. They must be entered separately each time a licence is changed.

Specify warning period

On the **Options** tab, you can use the **Warning period** option to specify how many days in advance you wish to be notified of licences that are going to expire. By default, you will receive a warning 14 days before a licence expires.

To change this setting, you must have administrator rights.

Specify start options

Here, you can configure the standard start behaviour of *hyperCAD-S / hyperMILL*.

If you do not make a selection, *hyperCAD-S / hyperMILL* will always start with the maximum available scope of licensing and provide the maximum available product functionality.

For example, if you want to restrict the use of licences in a network environment, you can select the base products and options here that are used on start-up.



If you choose an option, for which you do not have a licence, this option will not be loaded on start-up.

An error message, indicating that this option is not available, will also not appear.



5. Administrator manual

Introduction

This manual details the unattended installation and administrative tasks in relation to *hyperMILL* and *hyperCAD-S*. Installation with the user interface is described in the installation guide.

Silent installation of *hyperMILL* / *hyperCAD-S*

Unattended installation can be performed using two methods. It can either be implemented with the `setup.exe` or with the individual MSI packages. We recommend using the `setup.exe`.

In both cases, the product must be configured following installation. The product cannot be started following installation without firstly being configured.

Prior to installing *hyperMILL*, any CAD systems, into which *hyperMILL* should be integrated, are to be installed.

There is no unattended installation for the *hyperMILL* licence server. This must be installed manually.

Installation with `setup.exe`

Property	Value	Description
INSTALLDIR	Path	The target path of the installation. The default value is <code><Programs>\OPEN MIND</code> . Subfolders are created automatically.
IS_CAMOB-SERVER	0..1	Default: 0. A parameter controlling recognition of the SHOP Viewer. This can be set for initial installation.
/language:LCID	LCID: 1028; 1029; 1031; 1033; 1034; 1036; 1040; 1041; 1042; 1043; 1045; 1046; 1049; 1055; 1060; 2052	Sets a system language for the installation process. Determines the language of the installed help. Additional auxiliary languages must be installed separately.

LCID	ISO	HMLANG
1028	CN_TW	chinese_trad
1029	CZ	czech
1031	DE	german
1033	EN	english
1034	ES	spanish
1036	FR	french



LCID	ISO	HMLANG
1040	IT	italian
1041	JA	japanese
1042	KO	korean
1043	NL	dutch
1045	PL	polish
1046	PT	portuguese
1049	RU	russian
1055	TR	turkish
1060	SL	slovenian
2052	CN_ZH	chinese

Example:

```
setup /silent INSTALLDIR="c:\open mind\cam" /language:1031
```

Installs the license manager and *hyperMILL* in German in the folder `c:\open mind\cam` without user interaction.

Further command line options for the `setup.exe` can be found online at:

<https://helpnet.flexerasoftware.com/installshield25helplib/helplib/SteSetupexeParam.htm>

Installation without `setup.exe`

In the case of installation without the `setup.exe`, the system components must be provided manually. *hyperMILL* and *hyperCAD-S* use the following system components.

System component	Version	Licence Manager	<i>hyperMILL</i>	<i>hyperCAD-S</i>
VC-Redist 2013 Update 1 x86	12.0.21005.1		x	
VC-Redist 2013 Update 1 x64	12.0.21005.1		x	
VC-Redist 2019 x64	14.29.30038.00		x	x
CodeMeterRuntime	7.30a	x	x	x



The product is installed following installation of the system components.

- Licence Manager
- *hyperCAD-S*
 - Language pack for *hyperCAD-S*
- *hyperMILL*
 - Language pack for *hyperMILL*

The MSI packages support their own properties here.

Property	Value	Description
INSTALLDIR	Path	The target path of the installation. The default value is <Programs>\OPEN MIND. Subfolders are created automatically.
HMLANG	Language	English, German, French, Sets the product language. The product starts in this language following installation.
SUITE_UI	0..1	Indicates whether automatic product configuration should be started. The default value for this property is 0, whereby automatic configuration is not started. Automatic configuration is guided by a user interface and should not be called in an unattended installation.
TRANSFORMS	LCID.mst Example: TRANSFORMS=1033.mst	Transformations (*.mst files) are available for <i>hyperMILL</i> and Licence Manager, which provide language-specific text for start menu entries. The product is offered in these languages.

LCID	ISO	HMLANG
1028	CN_TW	chinese_trad
1029	CZ	czech
1031	DE	german
1033	EN	english
1034	ES	spanish
1036	FR	french
1040	IT	italian



LCID	ISO	HMLANG
1041	JA	japanese
1042	KO	korean
1043	NL	dutch
1045	PL	polish
1046	PT	portuguese
1049	RU	russian
1055	TR	turkish
1060	SL	slovenian
2052	CN_ZH	chinese

The configuration must be performed once installation is complete.

Configuration

For the configuration of *hyperMILL* and *hyperCAD-S*, the `SettingsService` is provided. The `SettingsService` is able to transmit the typical configurations from one system to the next. In special cases, manual intervention is required.

The SettingsService

The configuration of the product can be largely automated by means of the `SettingsService`. For this purpose, the `SettingsService` recognises a series of command line options with which the required operations are started.

```
SettingsService.exe [-allswitch|-cadswitch|-import] [<version>|-disable]
[-disable|-update] [-defaultdb|-macrodb|-colortable] [filepath]
```

-allswitch	Activates/deactivates <i>hyperMILL</i> in all found and supported CAD platforms.	The version number of the version to be activated is required or -disable. (Specialisations: -tdswitch, -swswitch, -invswitch, -hcs switch available for thinkdesign, , , <i>hyperCAD-S</i>)
-cadswitch	Activates the COM interfaces of the <i>hyperCAD-S</i> specified under <version>.	
-import	Imports the settings from the specified .omsettings file and activates <i>hyperMILL</i> in all found, supported CAD platforms.	Only .omsettings files exported with the <code>SettingsWizard</code> of the same version are supported.



-init	Configures <i>hyperMILL</i> with the default settings and activates it in all supported CAD platforms.
-------	--

Example

Initialises the system for the use of *hyperMILL* xx.x in all supported CAD platforms and makes the standard databases for tools and macros plus the standard colour tables available.

<i>hyperMILL</i> product version	xx.x (internal version)
2020.2	26.0
2021.1	27.0
2021.2	28.0

```
SettingsService.exe -allswitch xx.x -update -defaultdb -macrodb -colortable
```

Example

Removes all *hyperMILL* versions from all supported CAD platforms

```
SettingsService.exe -allswitch -disable
```

Example

Removes *hyperMILL* xx.x from the supported thinkdesign installations.

```
SettingsService.exe -tdswitch xx.x -disable
```

Example

Registers the thumbnail display in Windows Explorer via *hyperCAD-S* xx.x.

```
SettingsService.exe -cadswitch xx.x
```

Example

Imports the settings from the specified .omsettings file and activates *hyperMILL* in all supported CAD platforms.

```
SettingsService.exe -import  
"C:\Users\MyUsername\Documents\MyDocuments\mySettings.omSettings"
```

Registry

There are registry keys that affect the behaviour of *hyperMILL* during installation or the first application start.

Registry keys



- HKEY_LOCAL_MACHINE\SOFTWARE\OPEN MIND
 - common\Configuration\
 - GlobalWorkingSpace (REG_SZ) refers to the global working space.
 - ProjectDirectories (REG_SZ) refers to the project directories.
 - OMConfig (REG_SZ) refers to the CFG files that are required for licensing.
 - Language (REG_SZ) defines the default language of *hyperMILL*.
 - TemplateToolDB (REG_SZ) refers to the tool database that is loaded if the document and application databases failed to load (emergency database).
 - common\<Product Version>\Languages
 - Contains the lists of languages that you can select for *hyperMILL*.

All further registry keys are user-specific and cannot be used during the installation.

Security settings

hyperMILL was developed to allow users to work with power user rights. If it becomes necessary to run *hyperMILL* with limited rights, some security settings will have to be adjusted.

6. Hardware / software requirements

OPEN MIND Technologies AG (01.03.2022)

The installation checks automatically whether a 64-bit program version of the software products can be installed and whether all requirements for the respective variant on your computer have been met. If necessary, any missing but necessary components or programs will be installed automatically.



If Microsoft .NET Framework is installed, your system may have to be restarted afterwards.

	<i>hyperMILL for hyperCAD-S</i>	<i>hyperMILL for Autodesk® Inventor® (1)</i>	<i>hyperMILL for SOLIDWORKS</i>
Computer equipment			
USB connection (min. 2.0)	x	x	x
Processor (at least)	4 Cores > 2.2 GHz	4 Cores > 2.2 GHz	4 Cores > 2.2 GHz
Processor (recommended)	8 Cores > 4 GHz	8 Cores > 4 GHz	8 Cores > 4 GHz
RAM memory GB (at least)	16	16	16
RAM memory GB (recommended)	32	32	32
Free disk space (GB) ⁽²⁾	10	10	10
CAD/CAM product			
OpenGL-compatible graphics card ⁽³⁾	x	x	x
Possible operating systems			
Windows 10	x	x	x
Windows 11	x	x	x

(1) Component of Autodesk Inventor Series.

(2) Recommended memory for use of the respective product; with increasing complexity of the machined model, more memory is required.



(3) Suitable graphics card for CAD/CAM workstation. Recommendation: NVIDIA Quadro with at least 2 GB,

The recommendations of the respective CAD manufacturer apply for *hyperMILL* for Autodesk® Inventor® and *hyperMILL* for SOLIDWORKS.

For *hyperMILL* in *hyperCAD-S* the following applies: correct functioning when using AMD ATI-graphics cards cannot be guaranteed.

A graphics card with an OpenGL-accelerated graphics card driver from OpenGL version 4 is recommended for *hyperCAD-S*. Please refer to the overview of graphics cards and graphics card drivers recommended for use with *hyperCAD-S* on the OPEN MIND website.



The hardware listed there has been automatically tested for use and is being used in day-to-day work. This does not mean that *hyperCAD-S* can be run only with the hardware recommended. *hyperCAD-S* should run on any graphic platform with a full implementation of OpenGL.

Windows does not support any OpenGL-accelerated drivers. As a user, you must install a manufacturer's or OEM driver for the direct use of hardware-accelerated OpenGL. These drivers are available from the websites of most graphic hardware manufacturers.



7. Trademarks

hyperMILL and *hyperCAD* are registered trademarks of OPEN MIND Technologies AG.

Verification and simulation technology from *hyperVIEW* provided by MachineWorks Ltd.

and the Autodesk logo are registered trademarks of Autodesk Inc.

CATIA and are registered trademarks of Dassault Systems SA.

Windows and Windows products are registered trademarks of Microsoft Corporation.

All other brand and product names are registered trademarks of their respective owners.