Installation Guide

MagiCAD 2027 for BricsCAD V24-V26

MagiCAD GROUP

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1 General

1.1 Selecting Installation Package

First, go to MagiCAD Download Portal:
https://portal.magicad.com/Download/GetProductCategoryList?categoryId=1



Note: Before beginning the installation process, please familiarise yourself with the instructions on installation and license activation in this Installation Guide.

In the MagiCAD Download Portal, the EXE and MSI installation packages are available in the **MAGICAD PRODUCT** section. With Update Releases, you also have the option to download the relevant installation package directly via MagiCAD's Check for Updates function.

Both of the installation packages install the full version of the MagiCAD Release, but there are differences in the installation procedure. Select the procedure which best suits your needs:

1. **MagiCAD 2027 for BricsCAD V24-V26 (EXE)**
   - For manual installation. This is the default installation option for users who have administrator rights.
   - Can be installed silently via command line, but the only available parameters are language and install location. If you need more installation parameters, use the MSI package.

2. **MagiCAD 2027 for BricsCAD V24-V26 (MSI)** (---System Administrators---)
   - This is the default installation option for System Administrators.
   - Use this package if you have to use command line parameters.
   - Must be installed from Admin Command Prompt.

1.2 Before you install MagiCAD 2027

Platform requirements
This program version supports BricsCAD version V24, V25 and V26.

NOTE: If you have an older MagiCAD version installed:
It is recommended to uninstall older MagiCAD version before installing the new version.

Remember to back up all your important MagiCAD files before you uninstall your older MagiCAD versions or start installing MagiCAD.

Uninstall the old version(s) through the Control Panel (Add / Remove Programs).

If your previous version is 2015.4 or earlier, remove also the License Management Utility and Check for Updates, as the installation procedure has changed and the utilities no longer have separate Add/Remove Programs items.

2 Installing MagiCAD on a single workstation

2.1 Setup architecture

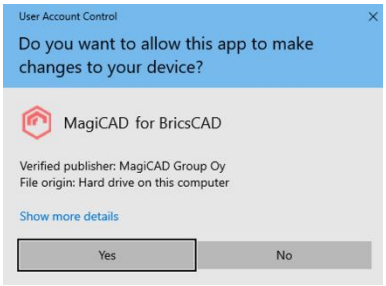
This chapter describes a typical procedure of MagiCAD installation on a single workstation. In larger corporate networks also silent installations may be performed; in that case, see chapter “Installing MagiCAD on multiple workstations” and contact the technical support if necessary.

Administrator privileges are required when running MagiCAD Setup.

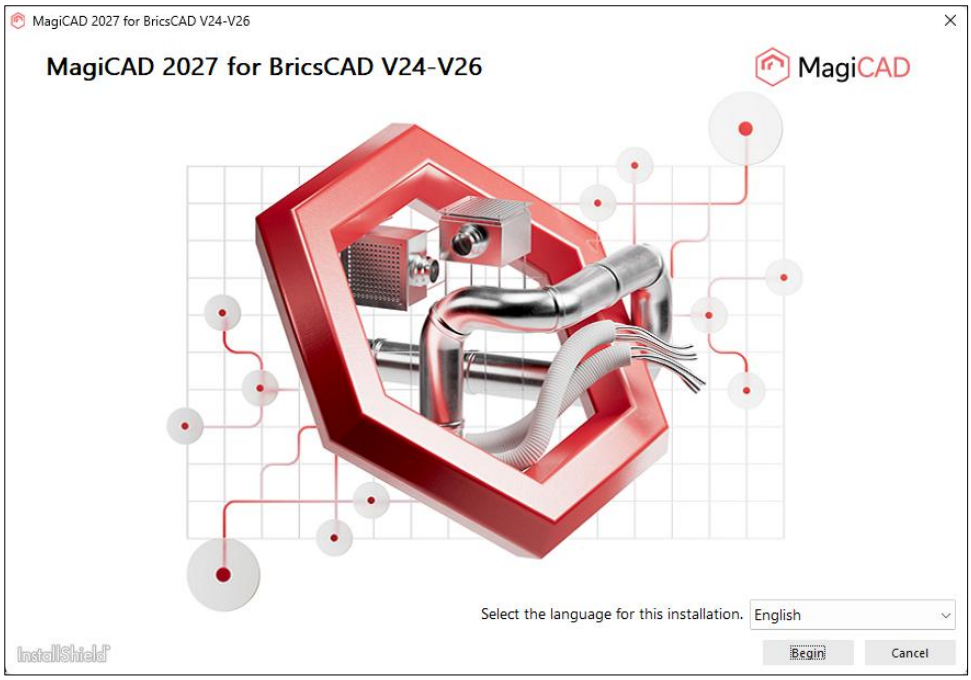
The installer for a single workstation consists of several application setups:

- MagiCAD for BricsCAD
- License Management Utility
- Check for Updates

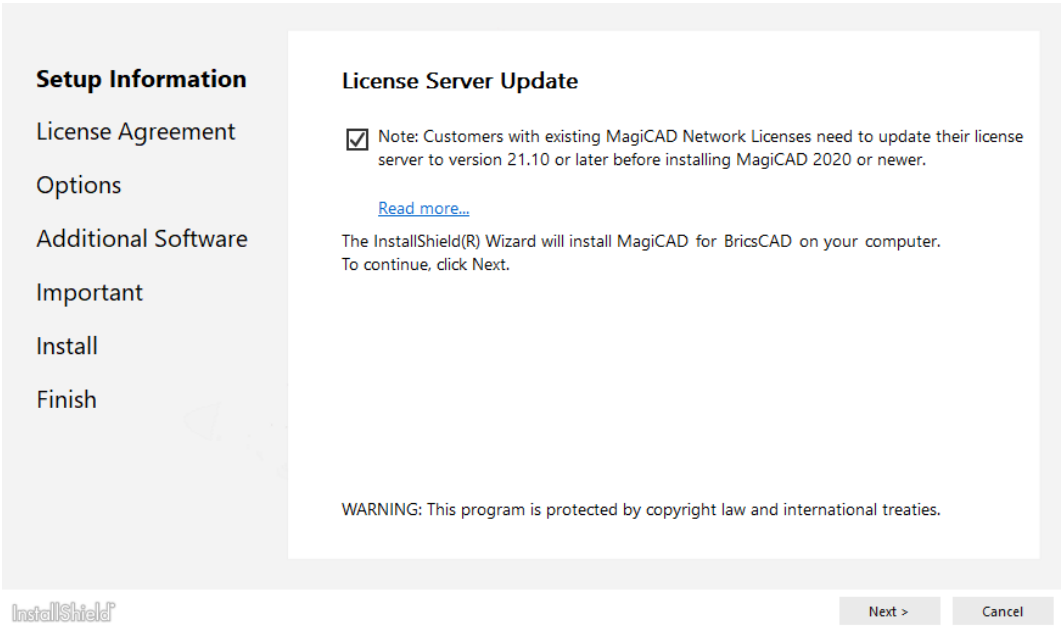
When you run the setup executable, the following dialogs are displayed:



If User Account Control is enabled, installation requires permission to continue. If this dialog appears, Click *Yes.*



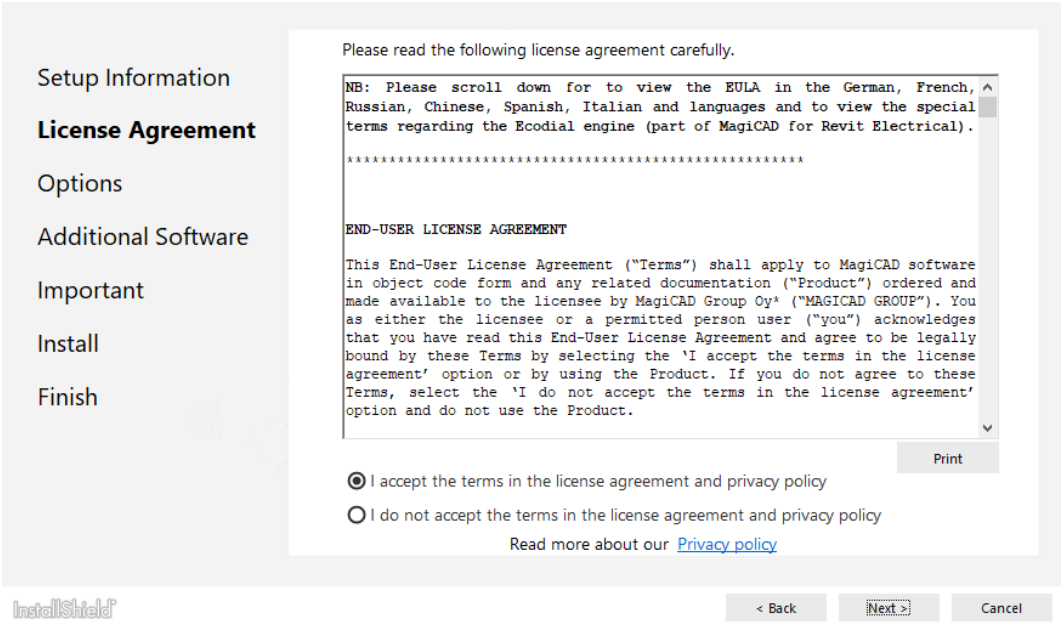
Select the installation language and click *Begin*.



In the start dialog you can see the name of the platform on which MagiCAD will be installed.

Customers with MagiCAD Network Licenses and network license server 15.11 or older must update their network license server to version 21.10 or later before installing MagiCAD 2027 for BricsCAD. Update to 21.10 or later is recommended for security reasons. Read More...

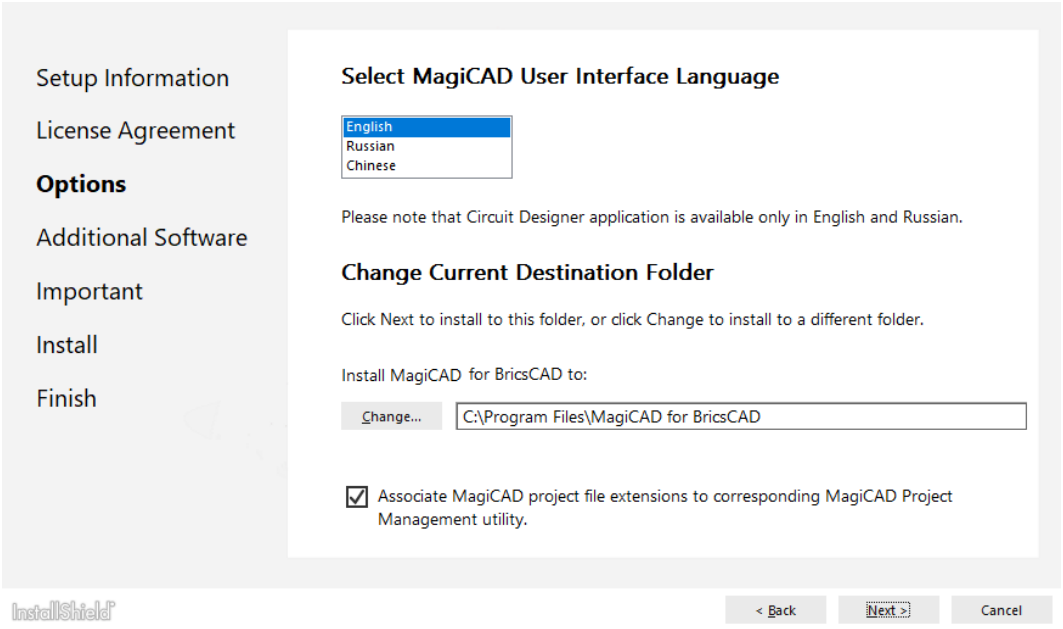
Check the note and click ***Next*** to continue.



You must read and accept the license agreement to proceed with the MagiCAD Setup procedure.

Next, select the **User Interface Language** for MagiCAD.

If you select Chinese as the user interface language, the program will load online product databases (product libraries) from a server that is located in China. You can, however, change this setting later in the user settings utility.



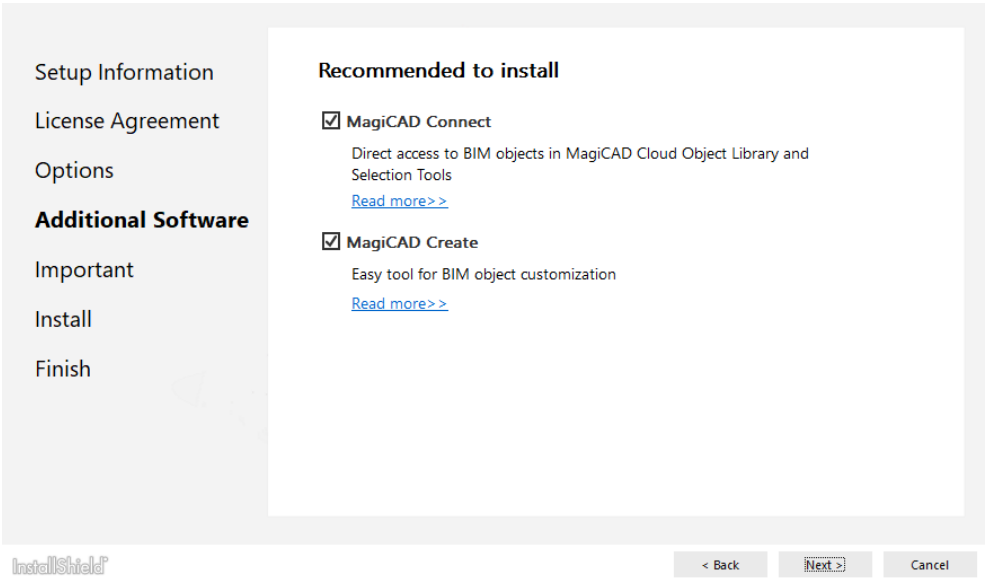
Select the **Destination Folder**. If you want to change the default folder, click *Change* and select a new Destination Folder. When the preferred Destination Folder has been defined, click *Next*.

During MagiCAD installation it is now possible to install additional tools which will make design work easier. It is optional but recommended to install the following applications:

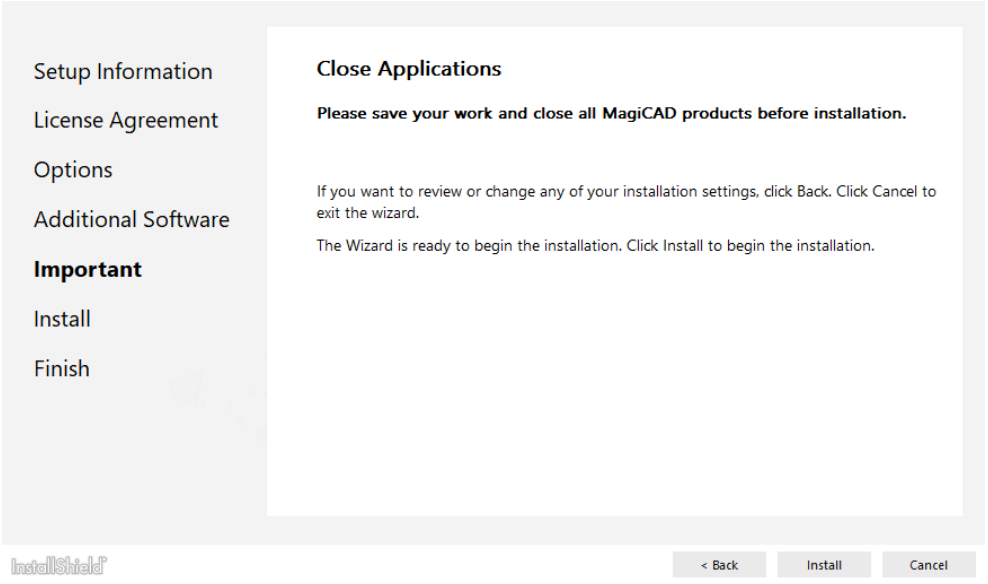
MagiCAD Connect enables you to access MagiCAD Cloud libraries and selection tools without leaving your MagiCAD project. You can insert BIM objects from MagiCAD Cloud directly into your project and use selection tools to select, configure and insert manufacturer products.

MagiCAD Create offers a fast and easy way to create custom MEP-specific BIM objects and libraries.

Installing is easy, just check the tools you want to install and click *Next*.

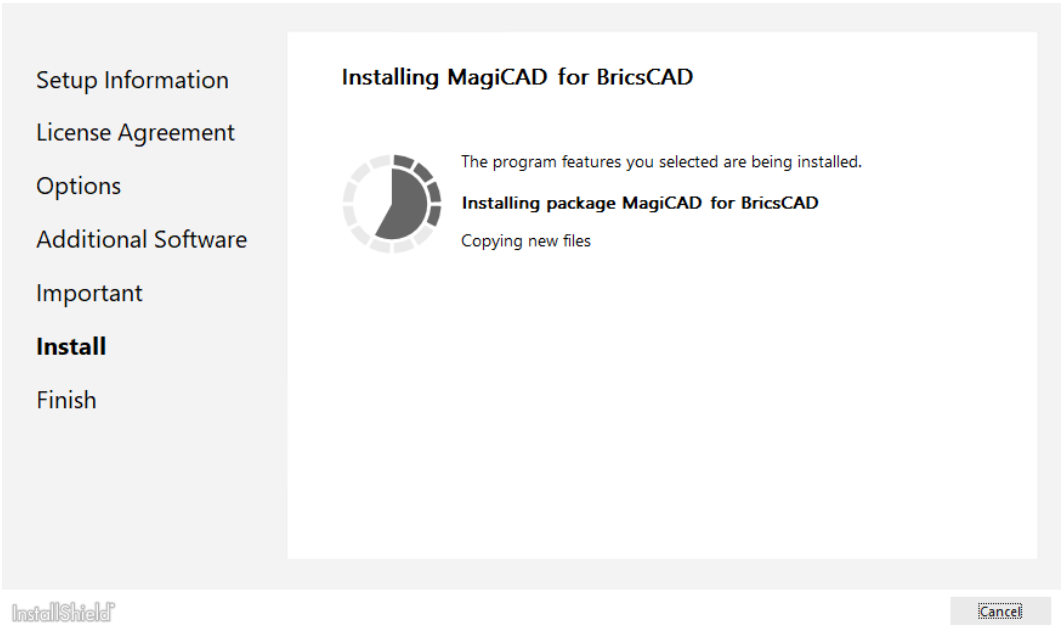


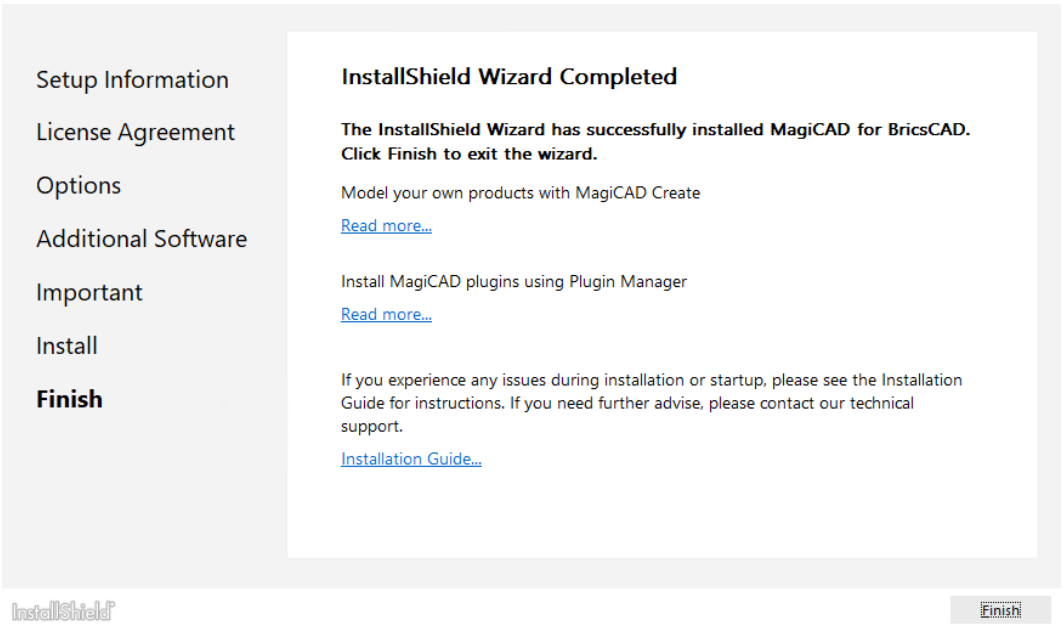
The following dialog displays information regarding BricsCAD profiles.



It is important that you save your work and close BricsCAD before continuing.

Click *Install* to continue. The MagiCAD Setup will then begin copying files and making the necessary settings.





Click *Finish* to complete the setup.

When the MagiCAD Setup procedure has been completed, **please check that the program license is available**. Follow the instructions for license usage and activation in the chapter ”Licensing”.

2.2 How to check the installed MagiCAD release version

After installation, look for MagiCAD 2027 for BricsCAD under *Installed apps* in Windows. MagiCAD 2027 Main Release version number begins with 27.0, UR-1 with 27.1 and UR-2 with 27.2.

2.3 Licensing

MagiCAD can be used with two types of licenses:

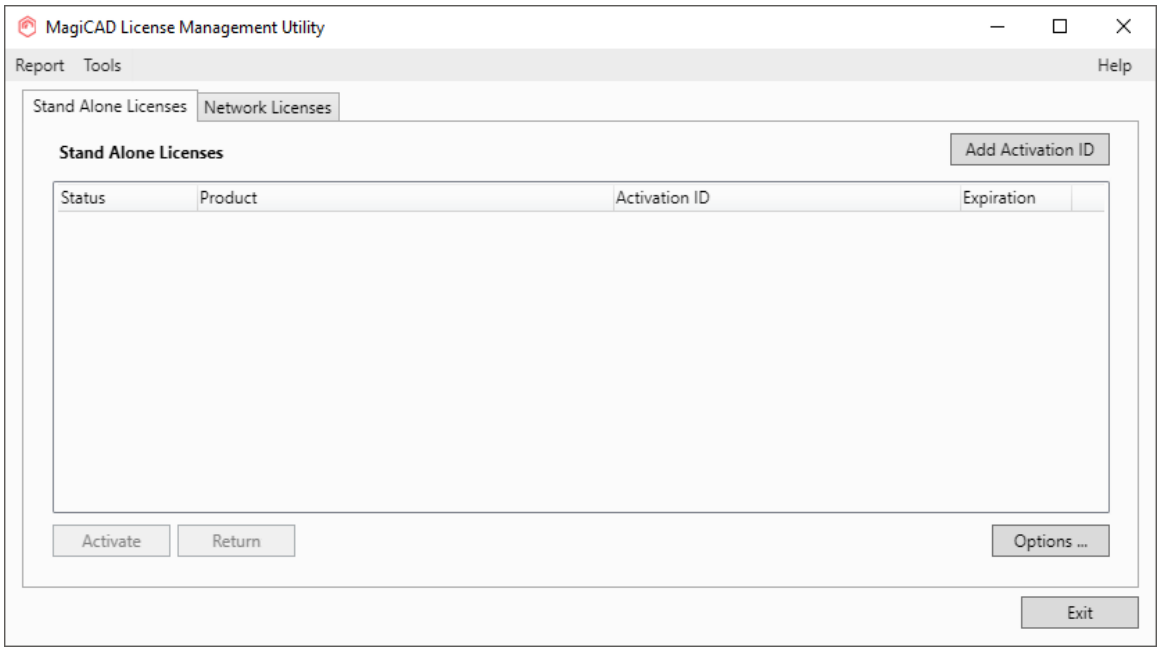
Stand-alone licenses, which are activated for a specific workstation. Internet connection is required when the licenses are activated. However, when the licenses have been activated, the program can be used also when disconnected from the network.

Network licenses, which are stored on a network server.
If your company's IT administrator has enabled license borrowing, you can borrow the application licenses to be used while disconnected from the network.

More information in MagiCAD Network Licensing user guide.

Setting up a network license server is described in a separate document.

Both license types are managed at the workstation using the license management utility. The shortcut link to the utility can be found in the ***MagiCAD\ Tools*** desktop folder.



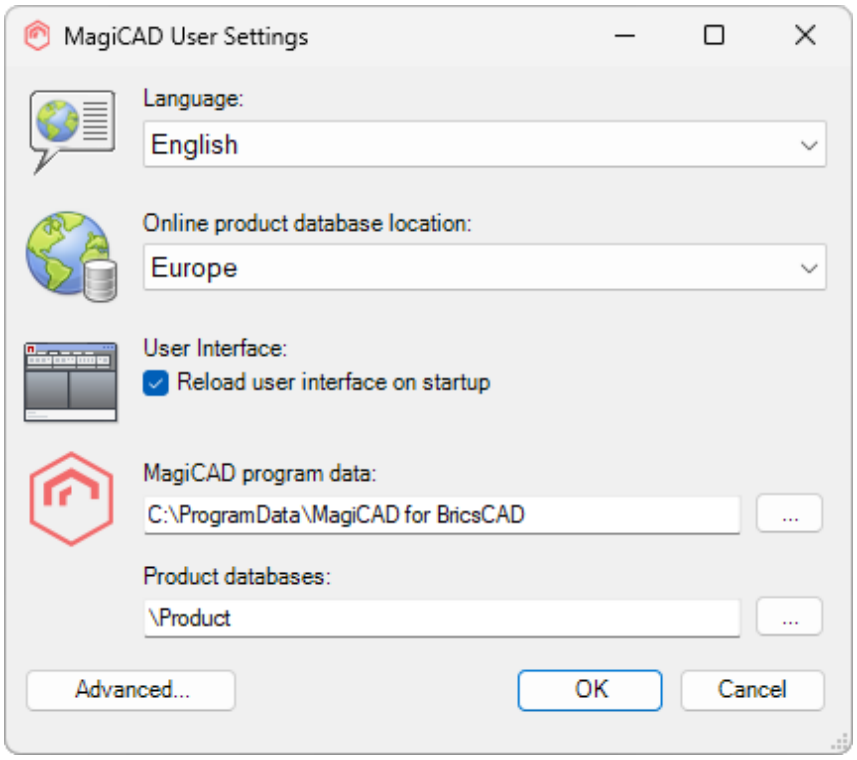
Select the product and click the *Return* button.

2.4 User settings utility

With this utility it is possible to change the user interface language and modify the path / template file settings for MagiCAD applications.

The available user interface languages are

- English and Russian for Circuit Designer
- English, Russian and Chinese for other applications



The User Settings utility can be accessed at any time after the installation using the shortcut link in the ***MagiCAD\MagiCAD for BricsCAD – Utilities*** desktop folder.

MagiCAD will automatically check whether the settings have been defined for the current MagiCAD version. If the User Settings utility has not been run yet, the User Settings utility will be opened automatically.

Note that if the end-user is different from the user who installed the program, the settings made during installation do not apply to the end-user. In this case, the end-user needs to run the utility separately.

2.5 Program directory structure of MagiCAD

The program executables are mainly installed to the **Destination Folder** selected during the MagiCAD Setup procedure. All MagiCAD applications (*Heating & Piping and Ventilation*, *Electrical*, *Room, System Designer, Circuit Designer* and *Product Modeller*) are installed in the same directory.

The program directory includes also the following subdirectories:

Directory	Contents
`Plugins`	Third-party plugins for MagiCAD

License Management Utility is installed in
C:\Program Files\Common Files\MagiCAD Shared\License Management Utility

Check for Updates is installed in
C:\Program Files\Common Files\MagiCAD Shared\CheckforUpdates

2.6 Location of files that can be modified at runtime

In Windows 10 and Windows 11 the location is the following:

C:\ProgramData\MagiCAD for BricsCAD

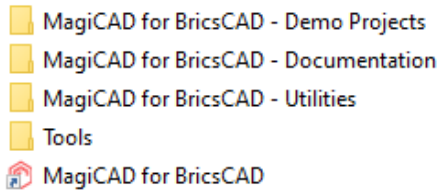
Directory	Contents
`Help`	Help files
`Support`	Customisation files (menus and toolbars)
`Product`	Product databases
`Demo Projects`	Demo projects
`2DSymbols`	Symbol libraries of MagiCAD Electrical, MagiCAD Circuit Designer and MagiCAD System Designer
`3DSymbols`	3D symbol blocks (.dwg files) for MagiCAD Electrical
`UserSymbols`	Directory for the user symbol files which can be defined by the user.
`Configurations`	Configuration files, e.g., for the MagiCAD Export function
`Templates`	Project templates

2.7 Running the applications

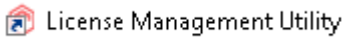
2.7.1 Program shortcuts

The MagiCAD Setup procedure creates the application shortcuts into the ***MagiCAD*** folder on the desktop and under the ***Start\Programs\MagiCAD*** folder.

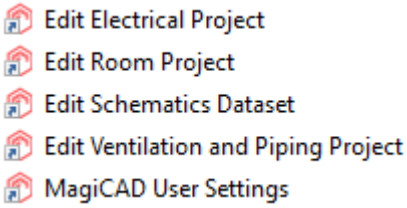
The following shortcuts are created by the MagiCAD Setup procedure:



The **Tools** subfolder contains the following shortcut:



The **MagiCAD for BricsCAD – Utilities** subfolder contains the User Settings utility and applications



for maintaining MagiCAD projects without running MagiCAD.

Command (target) in the ***MagiCAD for BricsCAD*** shortcut has the following format:

```
"[PathofBricsCAD]\bricscad.exe" [AdditionalArguments] /P [Profile] /B
"[PathofMagiCAD]\[ScriptName]"
```

where

`[PathofBricsCAD]` is the full directory name of BricsCAD executable (bricscad.exe)

`[AdditionalArguments]` are the additional command line switches that you may wish to include in the startup (e.g. if you run MagiCAD on Architectural Desktop); see chapter “Installing MagiCAD on multiple workstations / Utilising MSI properties” for further information

`[Profile]` is the BricsCAD profile that is selected for the MagiCAD session (either a profile name or filename of an .arg file). “” means that MagiCAD uses the active (current) profile.

`[PathofMagiCAD]` is the directory where MagiCAD applications are installed

`[ScriptName]` is the filename of the startup script; which depends on the BricsCAD version

For example, the shortcut for MagiCAD might have its target defined as follows:

```
"C:\Program Files\Bricsys\BricsCAD V26 en_US\bricscad.exe" /ld "C:\Program

Files\MagiCAD for BricsCAD\MagiCAD_V26.brx" /P "C:\Program Files\MagiCAD
for

BricsCAD\MagiCAD for BricsCAD.arg"
```

In this example, Architectural Desktop is run as BricsCAD (i.e. no additional command line switches are applied), MagiCAD profile is used.

2.7.2 Startup script

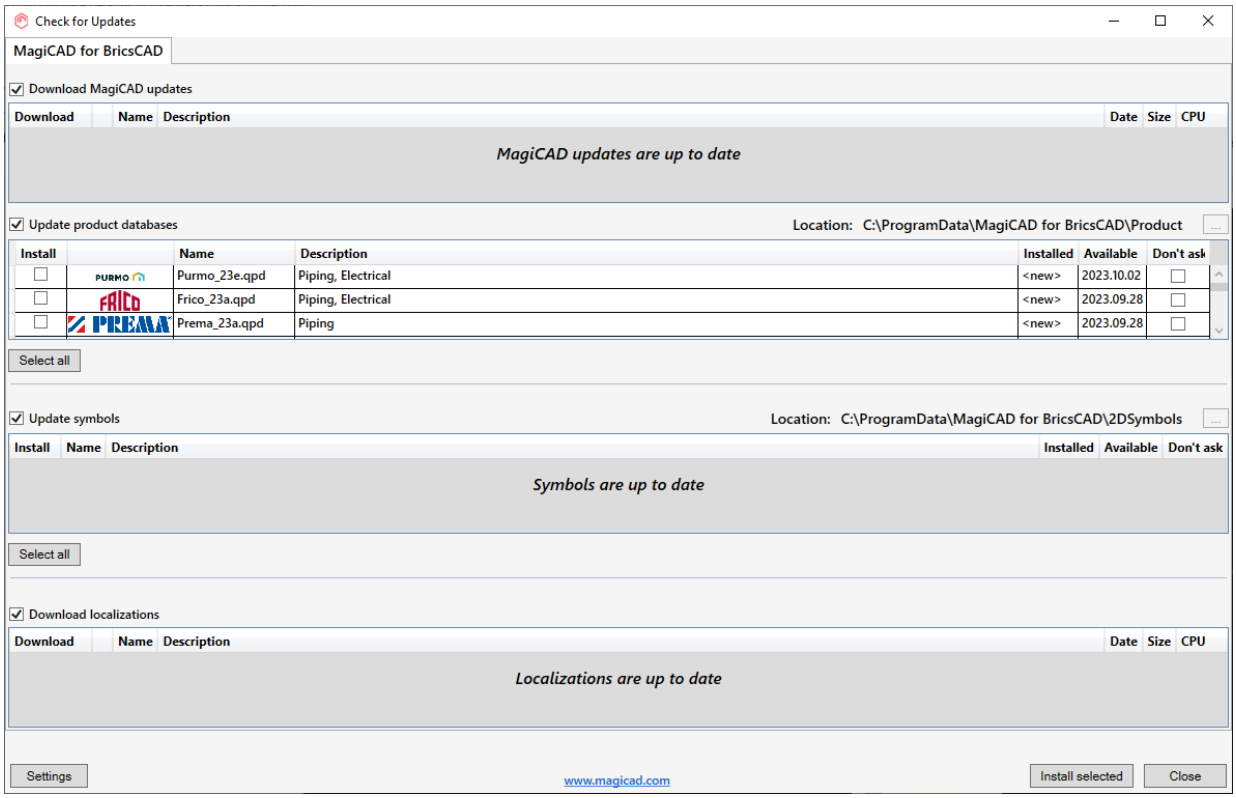
MagiCAD startup script is loaded when the application is started using the shortcut. By default, the script loads the applications (loader .brx file). You can customise the startup script according to your preferences.

All MagiCAD applications (Piping, Sprinkler, Ventilation, Electrical, System Designer, Circuit Designer, and Room) are loaded when you start the program. Please note, however, that you can run only the applications for which you have a valid license.

2.8 Check for Updates

You need an open internet connection to be able to use this function.

When you click the ***Check for Updates*** button in the MagiCAD ribbon, a utility displaying the available updates starts.



3 Installing MagiCAD on multiple workstations

3.1 MSI installation package - Silent installation

The MagiCAD Setup procedure is performed using Microsoft Installer technology. The installation can be customized with the help of certain properties, which reduces the amount of work when a large number of workstations are configured.

The properties can be manipulated, e.g., by employing scripts or transforms.

Property	Purpose	Default value
INSTALLDIR	The directory where the program will be installed.	C:\Program Files\MagiCAD for BricsCAD Note: may vary depending on the language of the operating system
UI_LANGUAGE	User interface language of the program. 1512=English 1528=Russian 1539=Chinese If you select Chinese as the language, the online product databases will be read from the server in China by default. You can change this setting later if necessary.	1512
PROFILE_NAME	Name or filename of the profile to be used in the program shortcut of MagiCAD (/p switch)	"" (this means that BricsCAD uses the active, i.e. current, profile when MagiCAD is started)
DIR_2DSYMBOLS	Path setting for 2D symbols	Note: if this property is not defined, default value will be used (see the path definition in *MagiCAD Installation Guide*)
DIR_3DSYMBOLS	Path setting for 3D symbols (blocks), Electrical	Note: if this property is not defined, default value will be used (see the path definition in *MagiCAD Installation Guide*)
DIR_USERSYMBOLS	Path setting for the user-defined symbols, Electrical	Note: if this property is not defined, default value will be used (see the path definition in *MagiCAD Installation Guide*)
DIR_PRODUCT	Path setting for the manufacturer databases	Note: if this property is not defined, default value will be used (see the path definition in *MagiCAD Installation Guide*)

DIR_DEFAULTPROJ	Default path for project templates	Note: if this property is not defined, default value will be used (see the path definition in *MagiCAD Installation Guide*)
DIR_PROPERTY_SET_CFG	Default path for the property set configurations of export functions	Note: if this property is not defined, default value will be used (see the path definition in *MagiCAD Installation Guide*)
EXPORT_CONFIGURATIONS	Default configuration file for MagiCAD Export	Note: if the property is not defined, default value will be used (`MagiCAD_Export.ini` in the `Configurations` subdirectory; see the path definition in *MagiCAD Installation Guide*)
LICENSE_SERVER	Server(s) containing network licenses defined in `port@host` format. Multiple servers are separated with a semicolon.	
INSTALL_CFU	Install Check for Updates 0=no, 1=yes	1
INSTALL_LMU	Install License Management Utility 0=no, 1=yes	1
BCAD_VER	Version number of the BricsCAD. For example, "V24x64" for BricsCAD V24, "V25x64" for BricsCAD V25, "V26x64" for BricsCAD V26	Note: if this property is not defined, the setup procedure will check the value from the HKEY_CURRENT_USER registry according to the BricsCAD version that was last run
BCAD_LNG	Language of the BricsCAD. For example, "en_US", “de_DE”, “es_ES”, etc available BricsCAD language	Note: if this property is not defined, the setup procedure will check the value from the HKEY_CURRENT_USER registry according to the BricsCAD version that was last run
ASSOCIATE_FILES	Associate MagiCAD project file extensions to corresponding MagiCAD Project Management utility. 0=no, 1=yes	0

3.1.1 Sample installation batch files

When installing MagiCAD with MSI package, place all .MST files in the same folder as the .MSI installation package.
This sample script installs the 64-bit version of MagiCAD on the platform BricsCAD V24:

```
msiexec /i "MagiCAD 2027 for BricsCAD.msi" /qn BCAD_VER=V24x64
BCAD_LNG=en_US
```

This sample script installs the 64-bit version of MagiCAD on the platform BricsCAD V26. The user

interface language is Chinese. The program uses network licenses that are located on *server1* (no port number specified):

```
msiexec /i "MagiCAD 2027 for BricsCAD.msi" /qn UI_LANGUAGE=1539
LICENSE_SERVER="@server1" BCAD_VER=V26x64 BCAD_LNG=en_US
```

MagiCAD Automatic Design Service Application setup package is delivered together with the MagiCAD installer. Install package with MagiCAD, it is **required** for Auto-Routing Underfloor Heating function to work.

```
msiexec /i " MagiCADAutomaticDesignServiceApplication.msi" /qn
```

Setup packages for additional tools are delivered together with the MagiCAD installer. It is optional, but recommended to install the following applications: MagiCAD Connect, MagiCAD Create

```
msiexec /i "MagiCAD Connect for BricsCAD V26.msi" /qn
msiexec /i "MagiCAD Create.msi" /qn
```

3.2 EXE installation package

The properties for installing MagiCAD 2027 for BricsCAD.exe using command line are limited to UI language and installation location.

Property	Purpose	Default value
`InstallFolder`	The directory where the program will be installed.	`C:\Program Files\MagiCAD for BricsCAD` Note: may vary depending on the language of the operating system
`Language` If you select Chinese as the language, the online product databases will be read from the server in China by default. You can change this setting later if necessary.	User interface language of the program. 1512=English 1528=Russian 1539=Chinese	`1512`
`AssociateFiles`	Associate MagiCAD project file extensions to corresponding MagiCAD Project Management utility. 0=no, 1=yes	0

3.2.1 Sample installation batch files for .exe package

Silent installation to default location with English UI language:

```
"MagiCAD 2027 for BricsCAD V24-V26.exe" /silent
```

Silent installation, Russian UI language, custom location, file association added:

```
"MagiCAD 2027 UR-1 for BricsCAD V24-V26.exe" /silent /Language=1528
/InstallFolder="C:\Program Files\MagiCAD_ru" /AssociateFiles=1
```

3.2.2 Silent installation of patch package

There are no parameters for patch packages, but you can install them silently:

```
"MagiCAD 2027 UR-2 for BricsCAD V24-V26 - patch.exe" /silent
```