
User's Guide

MagiCAD[®]

**MagiCAD for AutoCAD
Installation Guide**

**Program version 2010.11
Document revision 01**

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General

Before you install MagiCAD 2010.11

System requirements

This program version supports

- AutoCAD 2008, 2009, 2010 and 2011 (32-bit version)
- AutoCAD 2009, 2010 and 2011 (64-bit version)

and the corresponding versions of Architecture (Architectural Desktop) and MEP (Building Systems).

Remove old MagiCAD versions

Version 2004.9 and older

MagiCAD setup technology and program structure was changed in MagiCAD version 2005.9. For this reason the setup program does not upgrade version 2004.9 or earlier to the new version; **instead you need to uninstall the previous versions of MagiCAD applications – including MagiCAD Object Enabler – before installing the new version.**

Version 2005.9 and later

It is, however, possible to **upgrade versions 2005.9 or later to this version, if you do not change your AutoCAD version.** If you intend to install MagiCAD 2010.5 on another AutoCAD version than the previously mentioned older version, you must first remove the old version.

If you change both AutoCAD and MagiCAD versions and intend to uninstall your older AutoCAD version, uninstall MagiCAD before you uninstall AutoCAD.

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).

Start and exit AutoCAD

To be able to create the necessary shortcuts and registry settings, Setup needs to determine which AutoCAD version MagiCAD will be installed on.

Before you start the setup program of MagiCAD, start and close the AutoCAD version on which you want to install MagiCAD. This way you can be sure that MagiCAD is installed on the right version of AutoCAD (AutoCAD saves the status of the most recent AutoCAD session in the registry, which MagiCAD Setup reads).

Alternatively, if you run MagiCAD Setup for several workstations on the network, you may prefer to deploy a setup where you have specified this version information in the installer's properties. In this case Setup uses these properties. For further information, see chapter "[Installing MagiCAD on multiple workstations](#)".

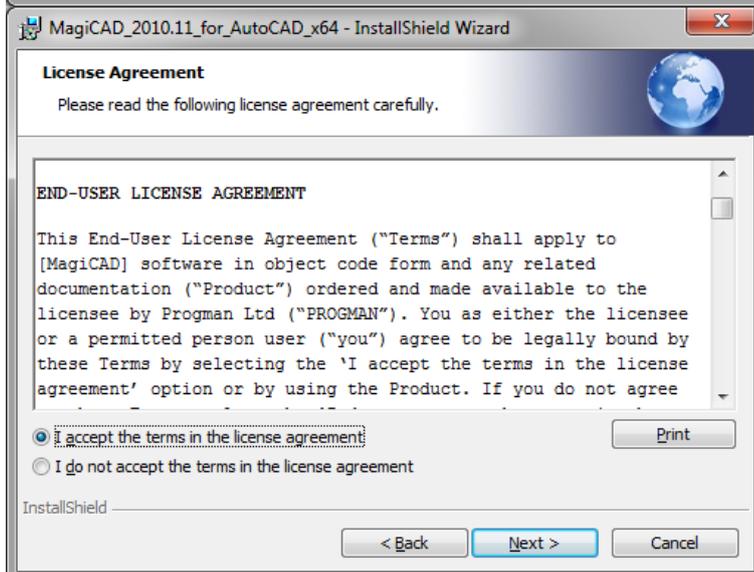
Installing MagiCAD on a single workstation

Running the setup program

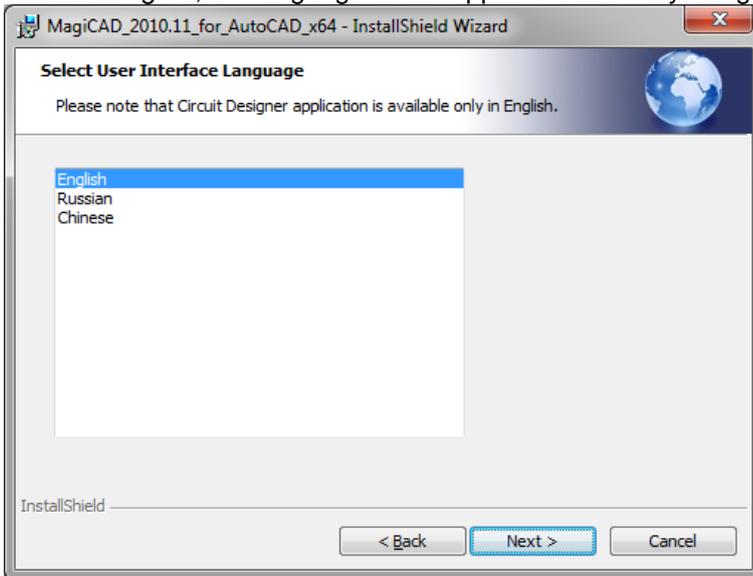
This chapter describes a typical procedure of MagiCAD installation on a single workstation. In larger corporate networks also silent installations may be performed; in that case, see chapter “Installing MagiCAD on multiple workstations” and contact the technical support if necessary.

Administrator privileges are required when running MagiCAD Setup.

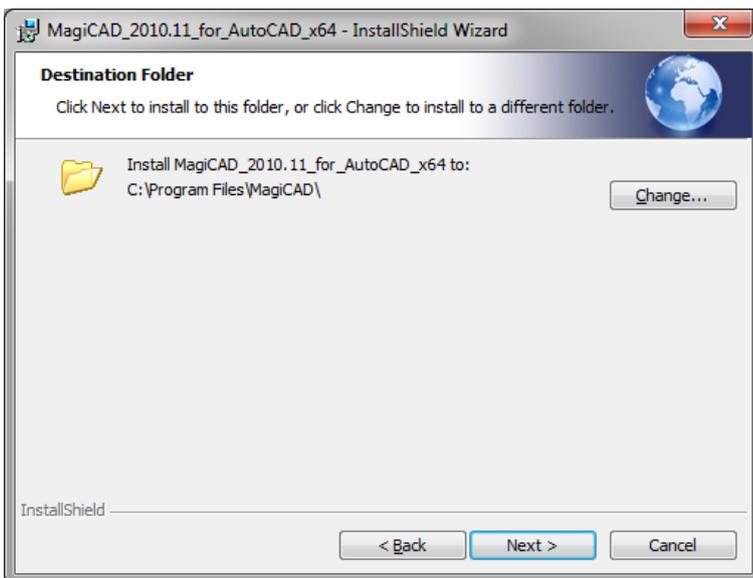
In the welcome screen, click *Next*. Read the end-user license agreement, and if you accept the terms, continue by clicking *Next*.



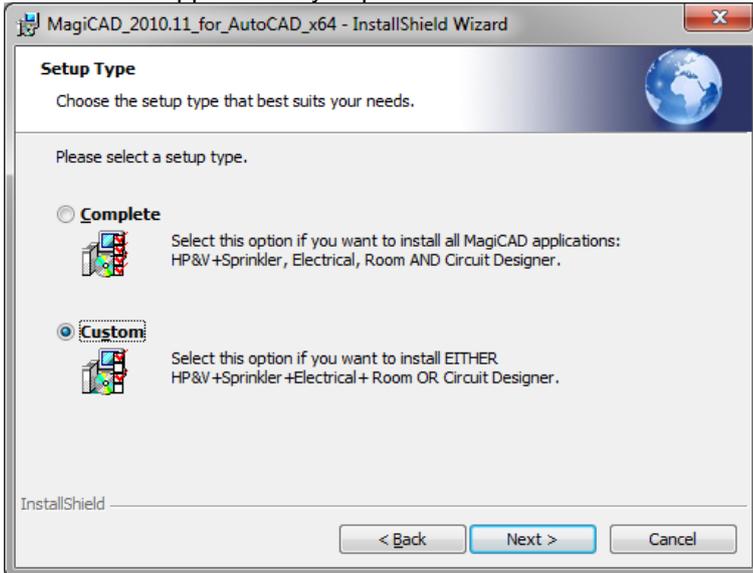
Select the **user interface language** of the program. (Note that the language selection does not affect *MagiCAD Circuit Designer*, the language of this application is always English.)



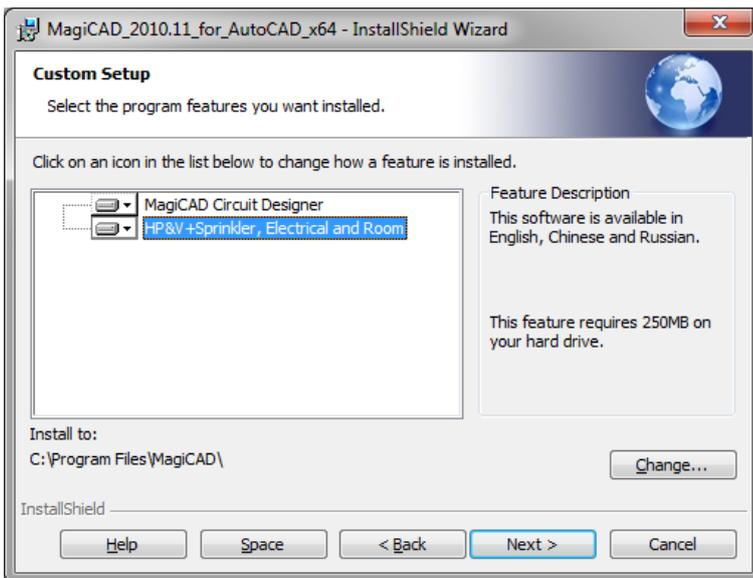
Select the **destination folder**. If you want to change the default folder, click *Change* and select the new folder. When the destination folder is what you prefer, click *Next*.



Select which applications you prefer to install.

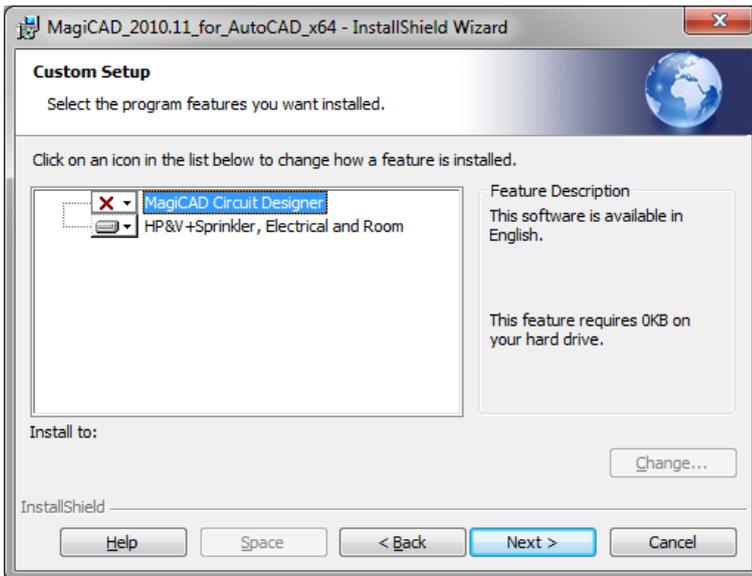


If you choose *Complete*, all available MagiCAD applications will be installed. If you choose *Custom*, a new dialog opens and you can select the applications to be installed.

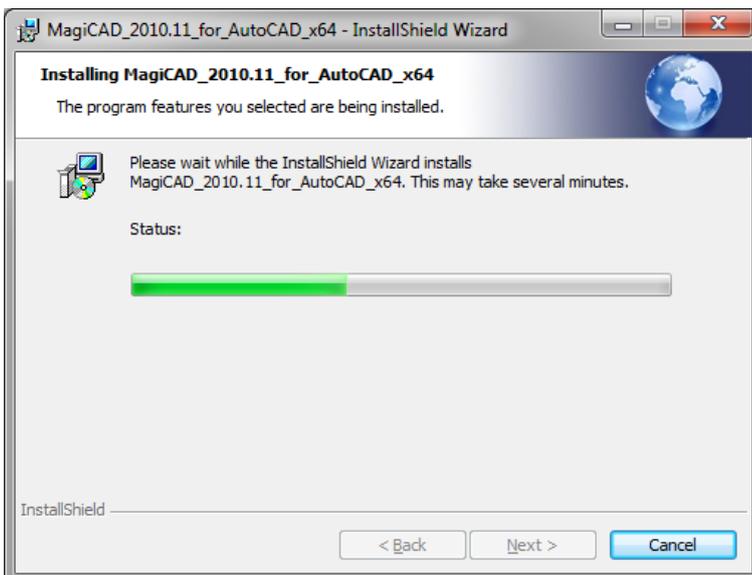
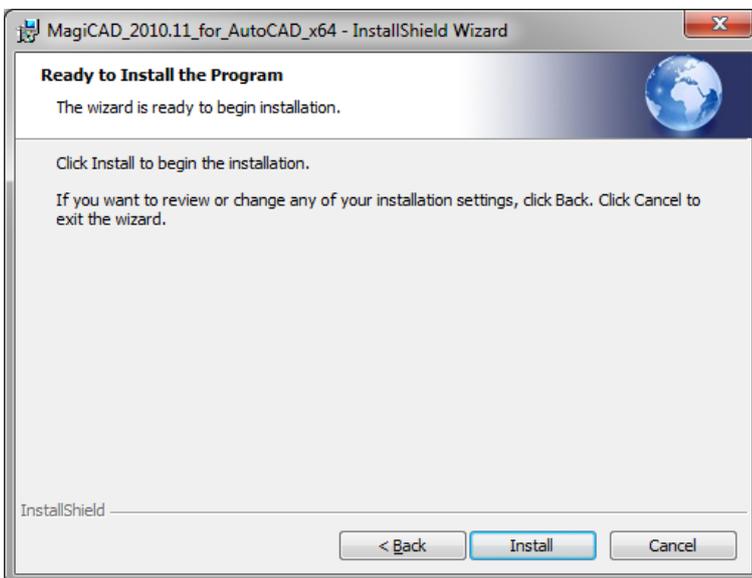


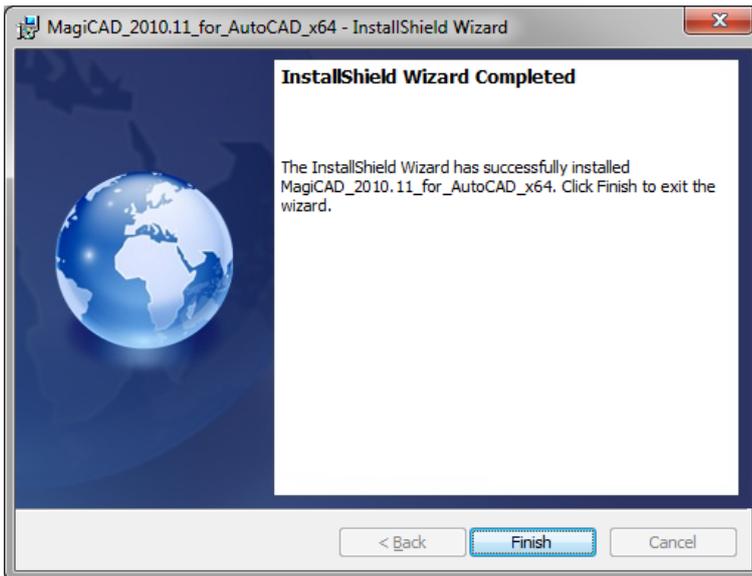
If you keep the default selection , the corresponding software will be installed. If you do not want to install the software, click the icon and change it to before you click *Next*.

In the following example, it is chosen that *MagiCAD HP&V, Sprinkler, Electrical and Room* will be installed but *MagiCAD Circuit Designer* will not be installed.



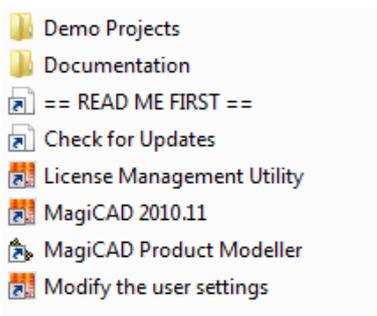
Click *Install* to continue. Setup then starts copying the files and making the necessary settings.





When the setup is complete, **check that the program license is available**. Follow the instruction in the next chapter (“Licensing”).

MagiCAD is now ready for use!



Shortcuts in “MagiCAD for AutoCAD” folder on the desktop.

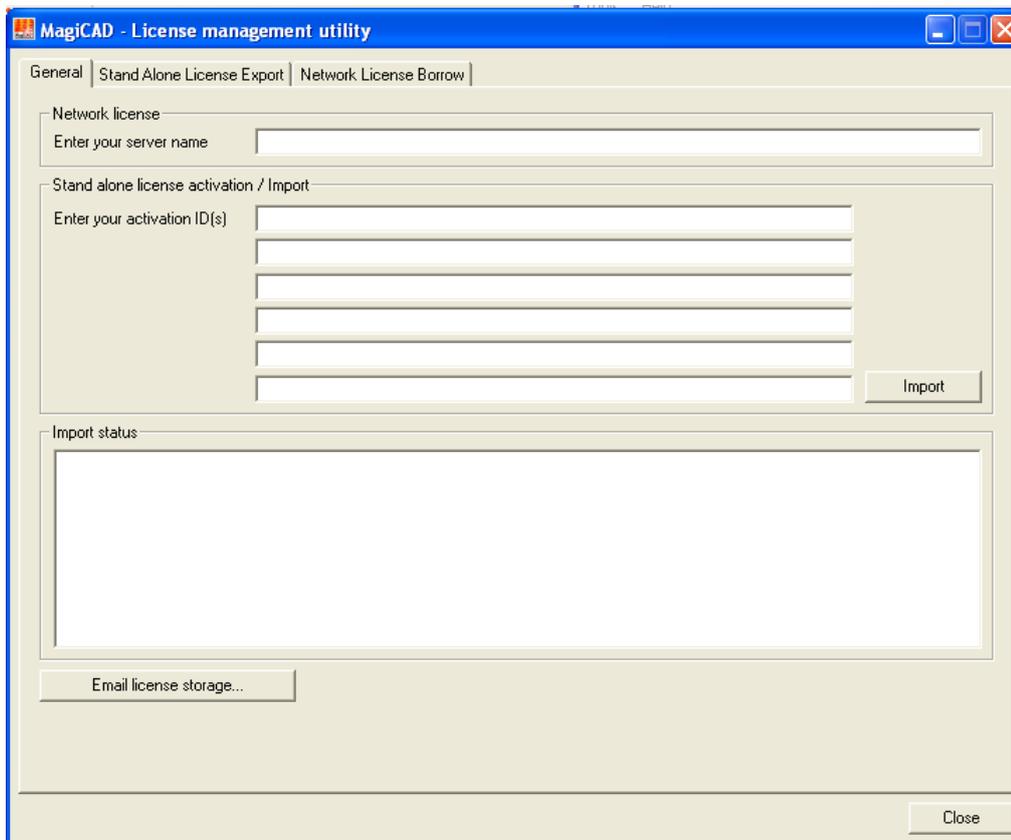
Licensing

MagiCAD can be used with two types of licenses:

- **Stand-alone licenses**, which are activated to the workstation. Internet connection is required when the licenses are activated, but the program can be used while disconnected from the network if the licenses are activated.
- **Network licenses**, which are 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.

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

Both license types are managed at the workstation with the license management utility. The shortcut of the utility can be found on the "MagiCAD for AutoCAD" desktop folder.

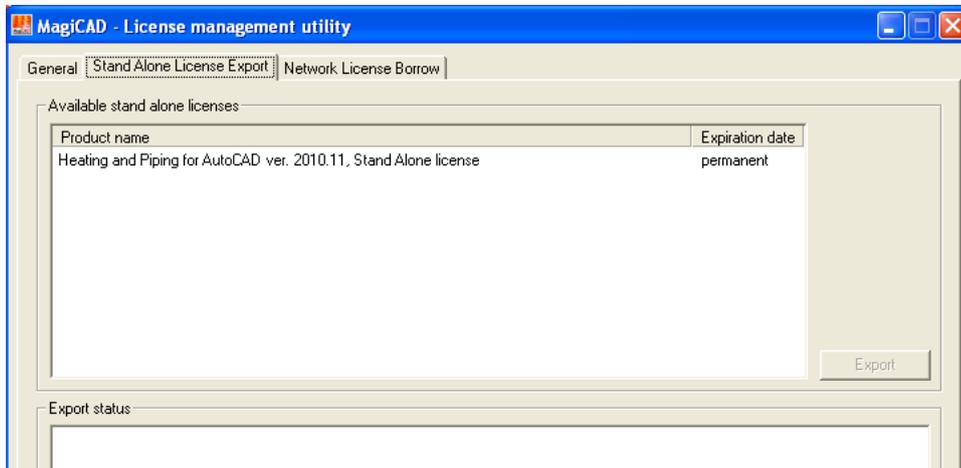


Input fields in the *General* tab:

- *Network license* – if your licenses are located in a network license pool, enter the server name **including the “at character” @** in the *Enter your server name* field. (Specify also the port if necessary.)
For example: @licserver
If you have the distributed license model, give the server names separated with semicolons.
for example: @licserver1;@licserver2
- *Stand alone license activation / Import* – if you are using stand-alone licenses, enter the activation ID of each application license in the *Enter your activation ID(s)* field(s) and click the *Import* button. Check the output in the *Import status* field to see if the activation was successful.
You have received the activation IDs from the software vendor by email in connection with your software purchase.

Stand-alone licenses

The licenses that are activated in your computer are shown in the *Available stand alone licenses* list of the *Stand Alone License Export* tab. Besides the product name and version, you can see if the license is permanent or time-limited.



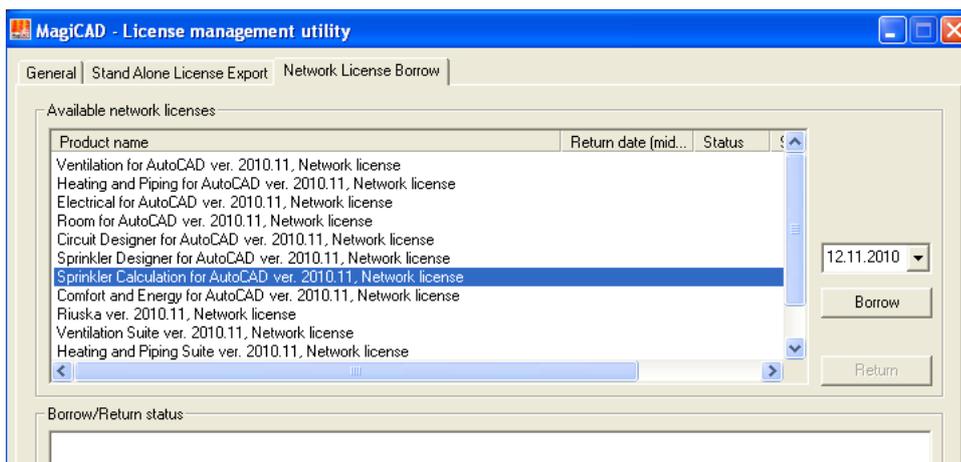
If you want to transfer the license to another computer, select the application license from the list and click the *Export* button. The license is sent back to the vendor's server. Check the output in the *Export status* field to see if the license export was successful. Next, start the license management utility in the other computer and import the license in the *General* tab using the same activation ID.

Internet connection is required when the stand-alone license is imported or exported.

Network licenses

The licenses you can borrow from your network server are shown in the *Available network licenses* list of the *Network License Borrow* tab.

If you want to borrow a license, select the application license from the list, choose a date, and click the *Borrow* button. If borrowing was successful, the license return date is displayed in the list and you can start using the program disconnected from the network.



The borrowed licenses are automatically returned to the license pool at the end of the return date. However, if you prefer, you can return the license earlier by selecting the program from the list and clicking the *Return* button.

Check the status in the *Borrow/Return status* field to see if the license borrow/return was successful.

You need to be connected to your network when you borrow or return the license.

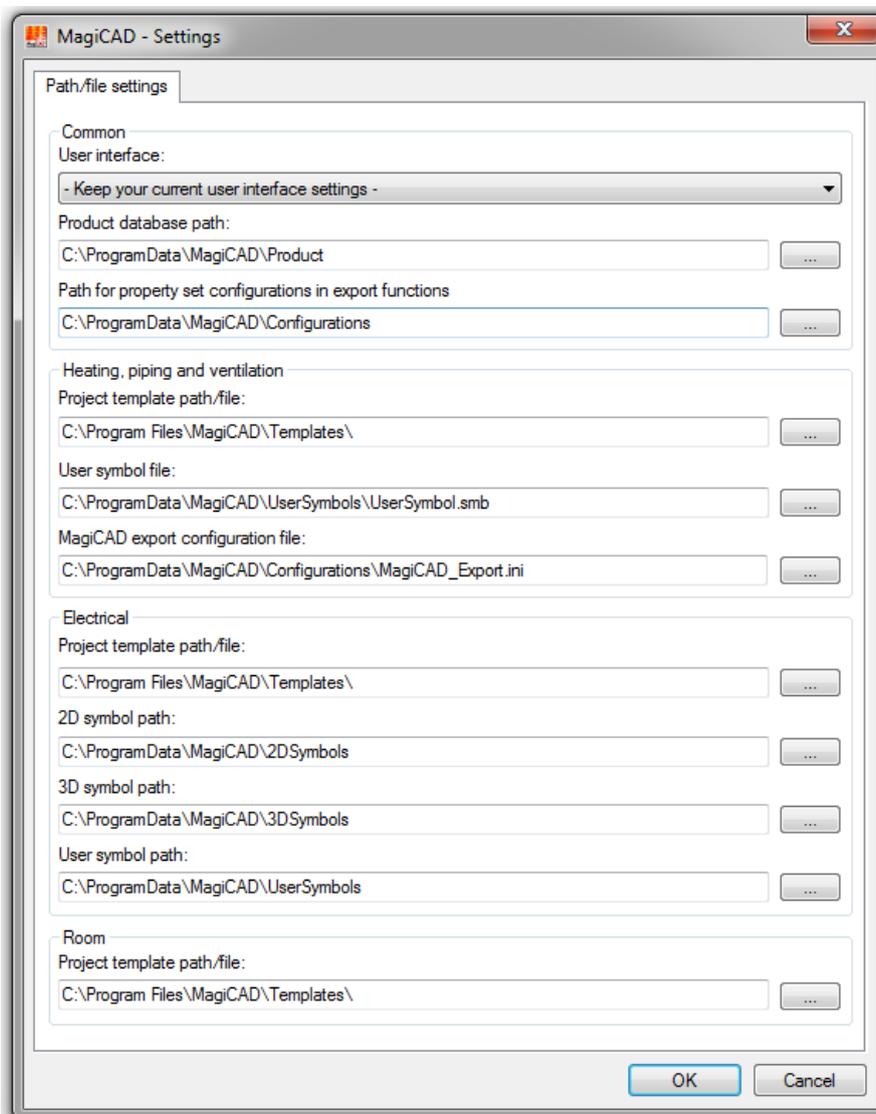
User settings utility

This utility does not apply to *MagiCAD Circuit Designer*.

With this utility it is possible to change the user interface language (the available languages are English, Chinese and Russian) and modify the path / template file settings for MagiCAD applications.

The “User Settings” utility can be started any time after installation from its shortcut in MagiCAD folder on the desktop. MagiCAD also checks if the settings are made for the current version, and if the user settings utility has not been run yet, starts the utility.

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.



See “Read Me First” document for more information about the user setting utility.

Program directory structure

The program executables are mainly installed to the directory that is selected in the setup program. All MagiCAD applications (*Heating & Piping and Ventilation, Electrical, Room, Circuit Designer, and Product Modeller*) are installed in the same directory.

The program directory includes also the following subdirectories:

Directory	Contents
Help	Read me first
Manual	PDF manual
License	Utilities for license activation / borrowing
Plugins	Third-party plugins for MagiCAD
Templates	Project templates

Location of files that can be modified at runtime

Because of the restrictions of some operating systems, the files that can be modified at runtime have been moved to a new location.

For instance, in Windows Xp the location is the following:

C:\Documents and Settings\All Users\Application Data\MagiCAD

In Windows Vista and Windows 7 the location is the following:

C:\ProgramData\MagiCAD

Directory	Contents
Support	Customization files (menus and toolbars)
Product	Product databases
Demo Projects	Demo projects
2dSymbols	Symbol libraries of MagiCAD Electrical and MagiCAD Circuit Designer
3dSymbols	3D symbol blocks (.dwg files) for MagiCAD Electrical
UserSymbols	Directory for the user symbol files that can be written by the user.
Configurations	Configuration files e.g. for the MagiCAD Export function

Running the applications

Program shortcuts

Setup program creates the application shortcuts under **MagiCAD for AutoCAD** folder on the desktop and under **Start/Programs/MagiCAD for AutoCAD** folder.

The following shortcuts are created by the setup program:

- **Read Me First** – essential information about taking the program into use).
- **MagiCAD 2010.11** – shortcut for starting MagiCAD applications
- **MagiCAD Product Modeller** – not included if only *MagiCAD Circuit Designer* is installed.
- **License Management Utility** – license activation or borrowing
- **Modify the user settings** – the user setting utility to change the user interface language or set new path definitions. Not included if only *MagiCAD Circuit Designer* is installed
- **Check for Updates**
- **Documentation** subfolder, which contains shortcuts for documentation and additional resources

Command (target) at the startup script has the following format:

```
"[PathofAutoCAD]\acad.exe" [AdditionalArguments] /p [ProfileName] /w  
[WorkspaceName] /b "[PathofMagiCAD]\[ScriptName]"
```

where

- [PathofAutoCAD] is the full directory name of AutoCAD executable (acad.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 / Utilizing MSI properties" for further information
- [ProfileName] is the AutoCAD profile that is selected for MagiCAD session
- [WorkspaceName] is the AutoCAD workspace that is selected for MagiCAD session
- [PathofMagiCAD] is the directory where MagiCAD applications are installed
- [ScriptName] is the filename of the startup script; depends on AutoCAD version

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

```
"C:\Program Files\AutoCAD 2008\acad.exe" /p MagiCAD /w "" /b  
"D:\MagiCAD\magicad_start.scr"
```

In this example, Architectural Desktop is run as AutoCAD (i.e. no additional command line switches are applied), *MagiCAD* profile is used, current workspace is used, and the startup script is run from the program directory D:\MagiCAD.

Startup script

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

First start

When MagiCAD is started for the first time, it may display the following kind of message:



This is a normal situation, indicating that a non-existing profile was selected. The first start of MagiCAD creates a new AutoCAD profile with default settings, and you can modify it with your preferences like you can modify any AutoCAD profile.

All MagiCAD applications (Heating&Piping, Sprinkler, Ventilation, Electrical, 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.

Checking for software updates and up-to-date documentation

Software updates

With the **Check for Updates** function of MagiCAD you can check for the latest updates and important information about the software from Progman's website.

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

When you double-click the **Check for Updates** shortcut in *MagiCAD for AutoCAD* folder, a web page containing the possible updates is opened in your browser.

Documentation

The *Documentation* subfolder of *MagiCAD for AutoCAD* folder on the desktop contains a shortcut for searching up-to-date documentation from the web.

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

Installing MagiCAD on multiple workstations

Utilizing MSI properties

MagiCAD setup is carried out with Windows Installer technology. 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 affected e.g. with scripts or transforms.

Note that R17 refers to AutoCAD 2008..2009 (or vertical), whereas R18 refers to AutoCAD 2010..2011 (or vertical).

Property	Purpose	Default value
ADDLOCAL	Defines which applications are installed: MagiCAD = common components; always required HPVER = Heating&Piping, Sprinkler, Ventilation, Electrical, Room CD = Circuit Designer	ALL
INSTALLDIR	The directory where the program is installed.	C:\Program Files\MagiCAD Note: may vary depending on the language of the operating system
UI_LANGUAGE	User interface language of the program (does not apply to <i>Circuit Designer</i>). 1512=English 1528=Russian 1539=Chinese	1512
INSTALL_R17	Install program on R17 platform (2008 ... 2009) 0=no, 1=yes	1
ACAD_PROFILE_R17	Profile name to be used in the program shortcut of MagiCAD	MagiCAD
ACAD_WORKSPACE_R17	Workspace to be used in the program shortcut of MagiCAD	
ACAD_R17_CMD_ARGS	Additional command line switches to the shortcut of MagiCAD applications	

ACAD_REG_R17_VER1	Internal version number of Autodesk product For example, "R17.1" in AutoCAD 2008	Note: if the property is not set, the setup program checks the value from HKEY_CURRENT_USER registry according to the AutoCAD version that was last run
ACAD_REG_R17_VER2	Internal product/localization number of Autodesk product. For example, "ACAD-6001:409" in English AutoCAD 2008	Note: if the property is not set, the setup program checks the value from HKEY_CURRENT_USER registry according to the AutoCAD version that was last run
INSTALL_R18	Install program on R18 platform (2010 or 2011) 0=no, 1=yes	1
ACAD_PROFILE_R18	Profile name to be used in the program shortcut of MagiCAD	MagiCAD
ACAD_WORKSPACE_R18	Workspace to be used in the program shortcut of MagiCAD	
ACAD_R18_CMD_ARGS	Additional command line switches to the shortcut of MagiCAD applications	
ACAD_REG_R18_VER1	Internal version number of Autodesk product For example, "R18.0" in AutoCAD 2010	Note: if the property is not set, the setup program checks the value from HKEY_CURRENT_USER registry according to the AutoCAD version that was last run
ACAD_REG_R18_VER2	Internal product/localization number of Autodesk product. For example, "ACAD-8001:409" in English AutoCAD 2010	Note: if the property is not set, the setup program checks the value from HKEY_CURRENT_USER registry according to the AutoCAD version that was last run
DIR_2DSYMBOLS	Path setting for 2D symbols, Electrical	Note: if the property is not set, default value is used (see the path definition in <i>MagiCAD Installation Guide</i>)
DIR_3DSYMBOLS	Path setting for 3D symbols (blocks), Electrical	Note: if the property is not set, default value is used (see the path definition in <i>MagiCAD Installation Guide</i>)
DIR_USERSYMBOLS	Path setting for the user-defined symbols, Electrical	Note: if the property is not set, default value is used (see the path definition in <i>MagiCAD Installation Guide</i>)
DIR_PRODUCT	Path setting for the manufacturers' databases	Note: if the property is not set, default value is used (see the path definition in <i>MagiCAD Installation Guide</i>)
DIR_DEFAULTPROJ	Default path for project templates	Note: if the property is not set, default value is used (see the path definition in <i>MagiCAD Installation Guide</i>)
DIR_PROPERTY_SET_CFG	Default path for property set configurations in export functions	Note: if the property is not set, default value is used (see the path definition in <i>MagiCAD Installation Guide</i>)

EXPORT_CONFIGURATIONS	Default configuration file for MagiCAD Export	Note: if the property is not set, default value is used (<code>MagiCAD_Export.ini</code> in the <code>Configurations</code> subdirectory; see the path definition in <i>MagiCAD Installation Guide</i>)
HPV_DATABASEFILE	Default user symbol file, Heating&Piping and Ventilation	Note: if the property is not set, default value is used (<code>UserSymbol.smb</code> in the <code>UserSymbols</code> subdirectory; see the path definition in <i>MagiCAD Installation Guide</i>)
LICENSE_SERVER	Server(s) containing network licenses given as <code>port@host</code> format. Multiple servers are separated with a semicolon.	

Sample installation batch files

```
msiexec /i "MagiCAD_2010.11_for_AutoCAD_x32.msi" /qb INSTALL_R17=0 INSTALL_R18=1
ACAD_REG_R18_VER1="R18.0" ACAD_REG_R18_VER2="ACAD-8001:409"
```

This sample script installs the 32-bit version of MagiCAD on AutoCAD 2010. The setup installs all MagiCAD applications.

```
msiexec /i "MagiCAD_2010.11_for_AutoCAD_x64.msi" /qb ADDLOCAL="MagiCAD,HPVER"
INSTALL_R17=1 INSTALL_R18=0 ACAD_REG_R17_VER1="R17.2" ACAD_REG_R17_VER2="ACAD-
7001:409" UI_LANGUAGE=1539 LICENSE_SERVER="@server1"
```

This sample script installs the 64-bit version of MagiCAD on AutoCAD 2009. The setup does not include MagiCAD Circuit Designer, and the user interface language is Chinese. The program uses network licenses that are located in `server1` (no port number specified).