MagiCAD for AutoCAD

Release notes for version 2020

04/06/2019





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1 New features

1.1 Common

MagiCAD supports AutoCAD 2020

License checking has been improved in MCACA 2020

In MagiCAD for AutoCAD the program used to take whichever license it found first. The issue was that often all the Suite license are reserved for the MCACA users, even though those should have been kept reserved/free for possible MCREV users as long as possible.

The logic is now improved and changed to work in the same way as in MagiCAD for Revit: It does first check for MagiCAD for AutoCAD license, after that Suite licenses.

We have also made changes to license expiry message to make it less interruptive Now the warning message is shown only once per session for each feature name and the limit to show the warning message is 14 days before the expiry date.

MagiCAD Create can be installed with together with MagiCAD

MagiCreate can now be installed with the MagiCAD installation package and can be selected to be installed in the installation wizard of MagiCAD.

Hyperlink for MagiCAD-converted objects has been added

A hyperlink can now be added to MagiCAD-converted objects both in MagiCAD V&P and MagiCAD Electrical.

Instance-specific "Uservars" and "Object variables" for provisions for builderswork openings

To improve the filtering and overview of provisions for builderswork openings "Uservars" and "Object variables" have been added MagiCAD V&P and Electrical respectively.

This has led to some changes in how the functions from each discipline react on the openings, which can be read about in the link.



Provision for builderswork openings' Builder/Contractor information is now reset when copying them

This information is now reset when the provisions are copied and new GUIDs are created:

Building service information		Geometry	
New/existing provision		Shape	
New provision O Existing provis	sion	Circular	Rectangular
Provision is for ventilation		Diameter/width [mm]:	200
Provision is for heating/cooling services		Height [mm]:	200
Provision is for public health services		Length [mm]:	2000
Provision is for sprinkler		Longer (min).	
Provision is for electrical		Location	
Owner		Top of part:	1100.0
V		Center of part:	1000.0
Note		Bottom of part:	900.0
	~	Layer definitions	
		Layer variable {PFV}	
		Builder/Contractor information	
		Status from builder/contractor	r
		Not set	
		Feedback from builder/contra	- 1
		Feedback from builder/contra	
			^
	~		×
User variables		-	
Property	Value		^
UserVar1			
UserVar2			
UserVar3			
UserVar4			~

A number of new parameters have been added for the IFC Property definition:

- Storey
- Storey (Electrical)
- Storey Variable 1
- Storey Variable 1 (Electrical)
- Storey Variable 2
- Storey Variable 2 (Electrcial)
- Part type ID
- System type ID
- Project file name
- Project file name with extension
- Project file path name
- Project file path



1.2 Ventilation and Piping

MagiCAD Create is now enabled within MagiCAD for AutoCAD V&P

It is now possible to edit the generic products in the project directly via MagiCreate within MagiCAD without separately opening MagiCreate.

Model drawings	UserCode	Manufacture			Product	Produ	uct variable	National code	HyperLink	P	P14	
Schematic drawings Storeys	S1	Bevent Rasc	'n		BRDJ-1-0							
Ventilation	S2	Fläkt Woods			STH							
Systems												
Parts	\$3	Fläkt Woods			кті							
- Outdoor devices - Supply devices	S4	Systemair			SINUS-A-*-S+PEF	1						
- Extract devices	\$5	Swegon AB			PELICAN CSa+AL	Sd- 2H						
- Exhaust devices		-										
Flow damper	S6	Climecon			MEK							
Fire damper	S12	Flakt Woods			IQIB-180-X							
Silencer Other component	S11	Swegon AB			COLIBRI CCa+AL	Sc-OR						
- Air handling equipment	\$7	Climecon	🙆 MagiCAD V&P - U	serCode					×			
Access panel												
- Climate beam	S8	Halton	UserCode:	AAA		Product variable	3					
Fittings	S9	Haton	Product:	RECT-GRILLE		Property	N 1	alue	^			
Layers	AAA	Generic	Object ID format:		~	Product variable						
- Absorption material series			-	•		National code						
Flange Series	S10	Trox Auranor	Running index amount:	1	~	HyperLink						
Duct series			2D symbol:			IfcExportAs	H	cAirTerminalType (IFC2	K3. (FC4)			
Sizing methods			-			fcType		otdefined (IFC2X3, IFC4				
Balancing methods			Select	Not selected		P1						
Calculation options Units			Erase			P2						
Dimension text						P3						
Piping						P4						
Heating, cooling and special system						P5						
Domestic water systems Sprinklers						P6						
Sprinklers Gas						P7						
Parts						P8						
- Insulation series						P9						
Pipe series						P10						
Heat transfer media						P11						
>						P12			~			
Storey					L							
I storey origin (-10000,-15000,0)	- I I I I I I I I I I I I I I I I I I I	_	Edit in MagiCreate					Ok	Cancel			
			Lot if hoge out					O IT	Gantoer			
ive storey Floor 1												
nnect project Merge project												

Support for the Russian SP 30.13330.2016 standard for domestic water calculations MagiCAD now supports domestic water calculations according to the Russian standard SP 30.13330.2016.

Project: Demo/template project	Property	Value
Project settings Model drawings	Mar Bac NagiCAD V&P - Project settings	×
Schematic drawings Storeys Ventilation	Sav Market area All	~
	Char Backup project files in drawing	
⊞. General Linetypes	IFC Save viewport defaults to: Project	
Dimension text Texts for free text	O Drawing	
The Provision for builderswork openings Variable names Legend templates	Save shaded viewport options to O Project	
Report templates Connection node defaults	Drawing	
	Character set Image: Set	
	O Unicode	
	Flow in the domestic water systems	×
4	Finnish D1 Swedish Tabeller och diagram VVS 2000	
Active Storey	Russian SP 30.13330.2016	



Heat loss calculations have been added for the "Heating, cooling and special systems" Heat loss calculations are now used for the supply pipes in balancing and sizing for the "Heating, cooling and special systems".

We do now support the the standard EN 16925 for sprinkler calculations

EN 16925 standard has been added to sprinkler calculation standards

Constant pressure valves for domestic water systems have been added

New product type "Constant pressure valve" has been implemented to assist in designing domestic water systems, where the user wants to cut down on excessive pressure.

Symbol name tooltip has been added to the product selections

When hovering over the symbols in the product selection a tooltip will show the symbol's name.

upply device:	s Extract devices Outdoor devic	ces Exhaust devices			
User code	Product	Description	^		
S1	STH	Air diffuser			
S2	KTI	Supply air terminal device			
S3	SINUS-A-*-S+PER	Spray nozzle diffuser with plenum box	f		
S4	COLIBRI CCa+ALSc- OR	Rectangular ceiling diffuser with discs		4	
S5	MEK	Nozzle diffuser, visible installation			
S6	OKE	Wall diffuser			
S7	AFP	Low Velocity Supply Unit			
S8	AWU+PRI	Universal Grille + Plenum			
S9	OPUS-K+Luna	Supply air diffusor for panneld ceiling.			
S10	Deco.AK KU LA	Curved corner type, formed from timbe	r		
S11	NC19 MBB	4-way Nozzle diffuser			
S12	RS16 MBB	Rotation Versio			
S13	CQA	Perforated diffuser - corner	×		
ze: N	C19-160+MBB-100-160-S - 4-way		\sim	View mode	Rendered
w 0	.0 //s => v	m/s Collar length 50 mm		Placement	Orientation
	.0 1/3 -2 V			Ceiling	
mbols 🛛				Wall	
				⊖ Sill	0,0
				⊖ Floor	
Uni	Sunt Gulvafløb, plan	under al		Hoor	O Free 0
User	Symbonn Gulvafløb, plan Reset S	ymbol			

Added needed pressure levels of each design area, for the sprinkler calculations, to the drop down menu next the design area names.

This makes it easier to find the most/least critical design area when several design areas are calculated at the same time in the sprinkler calculations.

🔊 MagiCAD - Report Window				×
Edit				
Design area Area 1: 1403 [mbar] Area 1: 1403 [mbar]	 General results Sprinkler results 	O System results O Equivalent length values	O Pump diagram	



Showing and hiding the index route can be done without recalculating the system

The index run can now be shown using the "Part Property Line"-function instead of the user having to run the balancing of the system again.

More "Uservar"-variables have been added

More instance-specific "Uservar"-variables have been added to make it possible for the users to add more vital information to the specific objects.

As more of them have now been added, the "Part Properties"-dialog has been upgraded to fit them all and they are now available in the listview:

🙆 MagiCAD V&P - Pa	rt Properties			×
Property			Value	^
Room info			123 Office	
Room type			Not defined	
Status			Not defined	
Description				
UserVar1				
UserVar2				
UserVar3				
UserVar4				
UserVar5				
UserVar6				
UserVar7				
UserVar8				
UserVar9				
UserVar10				¥
<				>
Calculations				
Area of coverage	12.0	m²		
Pressure at sprinkler	600	mbar		
Flow density	6.00	mm/min		
Pressure at sprinkler	392	mbar		
(From flow density)				
Object ID				
				Ovemide
Pick from schematics	. Chan	ge RI		Ok Cancel

The number of characters in the product variables P1-P15 has been greatly increased and functionalities have been added

The number of characters has been increased from 31.

499 characrers is the recommended maximum number of characters, although more can be set for some objects.

Now the user can add fully-functioning URLs to homepages and documents as well as add links to documents and files on hard drives.

The values can also be copied by selecting the field of the product variable, in the "Part Properties"dialog, and clicking CTRL + C.



We introduced an improved functionality in the sizing calculation report window

We added the possibility to change pipe and duct sizes in the calculation report window. In ventilation it is also possible to change also duct series and insulation.

MagiCA	AD - Ductwo	rk Sizing	Report															
dit																		
Supply				0	utdoor supply			⊖ Ge	neral resu	ults			🗌 Igno	re diversity				
Extract				00	utdoor exhaus	t									Upd	late sizing		
Location	Level	Node	System	Туре	Series	Product	Size	Old size	L [m]	Insulation	qv [l/s]	qv div. [l/s]	Div.%	v [m/s]	dp/L [Pa/m]	Sizing method	Warnings	_
	Roof	1	S1	ROOT NOD				_			1960,0		1.4					-
	Roof		S1	DUCT	Lindab Rect		600x60				000,0			5,4	0,51	Max. velocity		
,	Roof		S1	BEND-90	Lindab Rect		60(×60	Set duct s	eries		960.0			5,4				_
	Roof		S1	DUCT	Lindab Rect		60(×60	Set duct s	ize		960.0			5,4	0,51	Max. velocity		
	Roof		S1	BEND-90	Lindab Rect		60(×60	Set maxim	um duct	size	960.0			5,4				
	Roof		S1	DUCT	Lindab Rect		60(×60	Set/releas	e size loc	٢	960.0			5,4	0,51	Max. velocity		
	Roof	2	S1	CONN.NOD			60(×60			ĸ	960.0			5,4				
i i	Floor 3	3	S1	CONN.NOD			60(×60	Set insulat	ion		960.0			5,4				
	Floor 3		S1	DUCT	Lindab Rect		60(x500		0.5		1360.0			54	0.51	Max velocity		

User selectable columns in the calculation report

The user can now select which columns will be visible in the calculation reports and in what order they are shown.

	S1 F S1 I S1 F S1 S1 S1 S1 S1 S1	Outdoor Type ROOT NODE DUCT T-BRANCH DUCT BEND-90 DUCT REDUCER SUPPLY REDUCER	Series Safe Safe Safe Safe Safe Safe	s	MagiCAD - Select R Location Level name Node number System code	Size Leport Colum		L [m]		av [∕s] × 35,0 35,0 35,0	2,9	dp/L [Pa/m]	Sizing method Max. velocity 4	Warnings
	S1 F S1 I S1 F S1 S1 S1 S1 S1 S1	ROOT NODE DUCT T-BRANCH DUCT BEND-90 DUCT REDUCER SUPPLY	Safe Safe Safe Safe Safe		MagiCAD - Select R Location Level name Node number System code					[/s] × 35,0 35,0 35,0	[m/s] 2,9	[Pa/m]	method	
3	S1 I S1 I	DUCT T-BRANCH DUCT BEND-90 DUCT REDUCER SUPPLY	Safe Safe Safe Safe		Location Level name Node number System code	eport Colum	ins			× 35.0 35.0 35.0	2,9	1,07	Max. velocity 4	
3	S1 1 S1 I	T-BRANCH DUCT BEND-90 DUCT REDUCER SUPPLY	Safe Safe Safe Safe		Location Level name Node number System code	eport Colum	ins			35,0		1,07	Max. velocity 4	
3	S1 I	DUCT BEND-90 DUCT REDUCER SUPPLY	Safe Safe Safe		Level name Node number System code						29			
3	S1 E S1 E S1 F S1 S1 S	BEND-90 DUCT REDUCER SUPPLY	Safe Safe		Level name Node number System code									
3	S1 [S1 F S1 S1 S	DUCT REDUCER SUPPLY	Safe		Node number System code				Move up	15,0	1,9	0,69	Max. velocity 4	
3	S1 F S1 S S1 F	REDUCER	_		System code				Hore up	15,0	1,9			
3	S1 S1 F	SUPPLY	Safe						Move down	15,0	1,9	0,69	Max. velocity 4	
	S1 F		_		Part type				Show	15,0	1,9			
		REDUCER			Duct series				Snow	15,0	1,0			
	S1 [Safe		Product code				Hide	20,0	1,6			
		DUCT	Safe	\square	Duct size					20,0	2,5	1,16	Max. velocity 4	
	S1 E	BEND-90	Safe		Original duct size b	efore sizing				20,0	2,5			
	S1 [DUCT	Safe		Length Insulation					20,0	2,5	1,16	Max. velocity 4	
	S1 E	BEND-90	Safe		Flow					20,0	2,5			
	S1 [DUCT	Safe		Diversified flow value	ie (*)				20,0	2,5	1,16	Max. velocity 4	
	S1 F	REDUCER	Safe		Diversity % (*)					20,0	2,5			
4	S1 5	SUPPLY			Velocity					20,0	1,3			
							used in current	report						
							Ok		Cancel					
					4 S1 SUPPLY	4 S1 SUPPLY Velocity Sizing method Errors and warnings	4 S1 SUPPLY X Velocity Yessure drop/Length X Sizing method X Errors and warnings	4 S1 SUPPLY Velocity Pressure drop/Length Sizing method Sizing method Errors and warmings (*) Column is visible only when value is used in current	4 S1 SUPPLY Velocity Pressure drop/Length Sizing method Errors and warnings	4 S1 SUPPLY ✓ Velocity ✓ Velocity ✓ Pressure drop/Length ⊠ Sizing method ✓ Errors and warnings (*) Column is visible only when value is used in current report	4 S1 SUPPLY Velocity 20.0 Velocity Pressure drop/Length Sizing method Errors and warnings (*) Column is visible only when value is used in current report	4 S1 SUPPLY Velocity 20.0 1.3 Yessure drop/Length Sizing method Sizing method 1.3 (*) Column is visible only when value is used in current report	4 S1 SUPPLY ✓ Velocity 20.0 1.3 ✓ Pressure drop/Length ✓ Sizing method Errors and warnings (*) Column is visible only when value is used in current report	4 S1 SUPPLY ✓ Velocity ✓ Pressure drop/Length ✓ Sizing method ✓ Firors and warnings (*) Column is visible only when value is used in current report

Reaming of "Shunt" to "Mixing unit"

We renamed "Shunt" to "Mixing unit".



1.3 Electrical

Manage switchboards and hosts

New management tools have been added both for switchboards and hosts. From the management dialogues it is possible to manage the main characteristics of switchboards and hosts either in the current drawing or in all model drawings. Editing of text cells is done from the right click of the mouse. From "Set Properties" it is possible to change Installation, IP class, EXE class and earthing of a switchboard, and installation of a host. You can select one or several rows which you want to edit. It is not possible to change a name of a switchboard/host to the same name that another switchboard/host has.

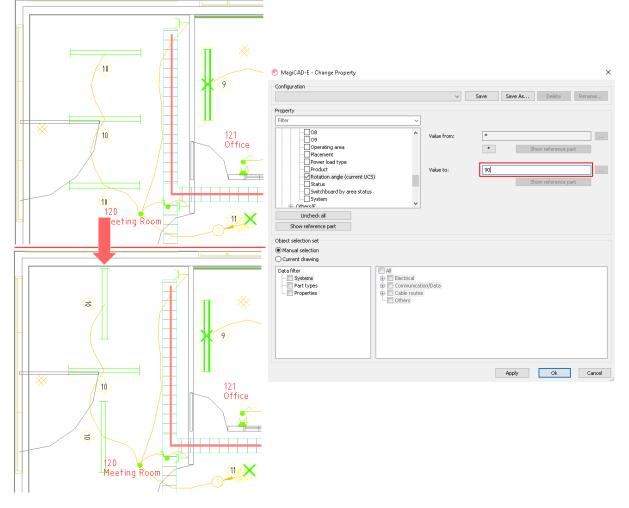
rch from: tchboards	O Current drawing				All mo	odel dra	wings										
ame	Description	IP	EXE	Install	Voltag [V]	Earthin	Expansion surplus [%]	01	02	03	04			Height [mm]		Storey	DWG
S		IP34	-	-	400	PE	30					2000	300	2200	0	Parking	E_Parking.dwg
B10.1	Switchboard 10.1	-	-	-	400	PE	30					600	190	800	1100	Floor 1	E_Floor 1.dwg
810.2	Switchboard 10.2	-	-	-	400	PE	30					600	190	800	1100	Floor 2	E_Floor2.dwg
810.3		-	-	-	400	PE	30					500	200	700	1000	Floor 3	E_Floor3.dwg
B-AHU		-	-	•	400	PE,N	0					500	200	700	1100	Roof	E_Roof.dwg
	Set properties	1															

rch from: tchboards	 Current drawing 		All model drawings					
lame	Installation	01	02	03	04	Storey	DWG	
P1	ByProduct					Floor 1	E_Floor 1.dwg	
P2	ByProduct					Floor 2	E_Floor2.dwg	
P3	ByProduct					Floor 3	E_Floor3.dwg	
P1	ByProduct					Floor 1	E_Floor 1.dwg	
IDP	ByProduct					Parking	E_Parking.dwg	



Rotation angle of devices in Change Properties

A new property "Rotation angle (current UCS)" has been added to Change Properties. It allows devices to be rotated to a certain angle (in current UCS).



Extra low voltage calculations - power summation

A new attribute "ELV system power [W]" for communication / data / BA devices has been added. ELV power can be updated to circuits by using the "Update Drawing Data" function or one circuit at a time from a circuit's properties.

ELV power has also been added to the connection report functions. There ELV power is summarised from circuits and devices to hosts. With the "Update to drawing(s)" button you can update the results into the host objects in the model drawings.



Object ID	Product description	Cable no.	Cable type	Length [m]	Longest branch [m	Number of elements	ELV Power [W	Pairs availabl	Used pairs	System	Connected to device	Warnings	^
FP1	FP Fire panel					58	310.00	9999 -	33 -> 0	P			_
			2xCAT6 FTP 4P	18.49	33.07	5	0.00	8		P7	02.001		
			- not defined -	2.27				f -		P7	02.003		
			- not defined -	1.76						P7	02.005		
			- not defined -	2.11						P7	02.007		
			- not defined -	1.32						P7	02.009		
			- not defined -	30.34	72.65	21	130.00		1 (!)	P7		Out of pairs	
			- not defined -	1.96					1(!)	P7		Out of pairs	
			- not defined -	2.91					1(!)	P7		Out of pairs	
			- not defined -	2.29					1(!)	P7		Out of pairs	
			- not defined -	2.28					1 (!)	P7		Out of pairs	
			- not defined -	2.20					1 (!)	P7		Out of pairs	
			- not defined -	2.01					1 (!)	P7		Out of pairs	
			- not defined -	1.74					1 (!)	P7		Out of pairs	
			- not defined -	1.41					1 (!)	P7		Out of pairs	
			- not defined -	1.80					1 (!)	P7		Out of pairs	
			- not defined -	1.61					1 (!)	P7		Out of pairs	
			- not defined -	1.63					1 (!)	P7		Out of pairs	
			- not defined -	0.99					1 (!)	P7		Out of pairs	
			- not defined -	1.56					1 (!)	P7		Out of pairs	
			- not defined -	1.39					1 (!)	P7		Out of pairs	
			- not defined -	1.14					1 (!)	P7		Out of pairs	

Possibility to run a report from an existing switchboard schematic

A new Report button has been added which will find all the circuits from a switchboard schematic drawing including all unlinked circuits.

After running the command, user needs to select a report model from the project or use the same that has been used in the switchboard schematic drawing.



Report

MagiCAD-E - Switchboard schematic report	\times
Select report model	
Switchboard Schema A4 landscape	\sim
O Use switchboard schematic drawing model	
<u>O</u> k <u>C</u> ance	<u>ا</u> ا



Symbol	No	Description	Trip In [A] Ircd	P [kW] S [kVA] I [A]	Cable	Phases Earthing dV [%]
_1	9	Lighting group 9	C 10	1.88 1.92 8.32	MMJ 3x1,5 S	L3 N,PE 1.72
	10	Lighting Reception Supplying lighting track	C 10	0.74 0.74 3.18	MMJ 3x1,5 S	L1 N,PE 0.79
<u>_</u>	11	LED-stripes Lobby	C 10	0.01	MMJ 3x1,5 S	L2 N,PE
<u>_</u>	12		C 10			L3 N,PE
	13	Offices	C 16 30mA	1.60 1.68 7.29	MMJ 3x2,5 S	L1 N,PE 1.55
	14	Offices	C 16 30mA	1.60 1.68 7.29	MMJ 3x2,5 S	L2 N,PE 1.28
	15	Spare	C 16 30mA			L3 N,PE
	16	Spare	C 16 30mA			L1 N,PE
	17	Spare	C 16 30mA			L2 N,PE

Modification for switchboard/host area

It is now possible to define priority to switchboard and host areas. Circuits are linked to the area which has the highest priority. This means that you can have e.g. smaller areas inside larger areas.

🕙 MagiCAD-E - Ho	ist Area		×
Host			
Current drawing / FP	1		
	Sele	ct	
Elevation			
Elevation:	0		
Area			-
Priority	4		
Systems Selection set			
-			~
Save	SaveAs	Delete	Rename
) Selected :	system
 Communicat Data Data Phone Sound repro Antenna system 		-	system

The higher priority number (=the lower number) an area has, the higher its priority is. This naturally means that 1 is the highest priority number. When using 0, areas work as they have worked before.



More characters to P1-P15 fields

The maximum number of characters that can be inserted to product variables P1-P15 has been increased to 499.

URL strings in Part Properties are shown as web-links and double-clicking a link will open the link in the default browser.

More Object Variables

The number of object variables has been increased to 15 for all devices, combination boxes and switchboards.

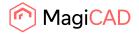
Part Properties dialogues of the object types have also been made resizable.

Convert an AutoCAD object to a MagiCAD Electrical object

Now it is possible to convert any AutoCAD element into a MagiCAD Electrical object (3D object is required to get IFC export working).

When an element is converted to a MagiCAD object, it works as any other MagiCAD object. However, it is not added to the project so any changes to the object needs to be made with Part Properties or by using Change Properties.

🔗 MagiCAD-E - Labeled blo	ck			×
Parameters			System data	
System type:	Electrical		● 1~ ○ 2~	<u>O 3~</u>
Part type:	Boxes	\sim	Voltage [V]:	
System:	SB Switchboards	\sim	Active power [W]:	
IP class:	- not defined -	\sim	cos phi:	
EXE class:	- not defined -	~	Power load type:	- not defined - V
User code:				
Description:				
Product code:			Has data connection	
National code:				
Layer code {PV}:				
Object ID format:	- Manual value -	\sim		
Hyperlink:				
IfcExportAs:	IfcJunctionBoxType (IFC2X3, IFC4)	\sim		
IfcType:	notdefined (IFC2X3, IFC4)	\sim		
	Running index amount: 1	\sim		
				Ok Cancel



🙆 MagiCAD-E - Labele	ed block			×
Parameters			System data	
System type:	Communication/data/ba		Uplink connection data:	
Part type:	Actuators	\sim	Can be used as a junction box	
System:	P Communication and Automation	~	Add also own uplink connections (pairs)	
IP class:	- not defined -	~	No. of uplink connections (data):	0
EXE class:	- not defined -	~		
User code:				
Description:				
Product code:			Has power supply	
National code:			Voltage [V]:	
Layer code {PV}:			Active power [W]:	
Object ID format:	- Manual value -	\sim		
Hyperlink:				
IfcExportAs:	IfcActuatorType (IFC2X3, IFC4)	\sim		
IfcType:	notdefined (IFC2X3, IFC4)	\sim		
	Running index amount: 1	\sim		
			Ok	Cancel

Part type ID system type ID in IFC property sets

Now it is possible to add part type ID and system type ID into IFC property sets.



1.4 Circuit designer

Change Properties

Change circuit ID function has been replaced by Change properties function. With Change properties function it is now possible to change device ID and circuit ID from specific number to another or from all devices.

User can define to which part type changes are being made.

It is also possible to change revision name and note for revision arrows and clouds using Change properties.

Property	
Filter V	
Common part Cir.ID Common part Contactor Contactor Contact/Relay	F &
 □· Control switch panel □· Switch □· Terminal block □· Connection point □· Outside switchboard area 	₽\$
Uncheck all Show reference part	
Object selection Manual selection Current drawing Apply Ok Cance	

Check drawing

New function have been added which can be used to check if there are errors in the drawing or to check if there are free/unconnected objects.

After running the checking, a report will be shown. From the report there is a possibility to zoom to the issue and it will be marked with a cross.



📀 MagiCAD-CD - Check drawing		×
Connections Unconnected conductor Broken conductor Missing connection node pair Too many connections Child parts Child parts Unlinked child part Free component in mother part	t	
Object selection Manual selection Current drawing		
	Ok	Cancel

Object type	Cir.ID	Dev.ID	Warnings	1
Combined co	5	F1-3	Free component in mother part	
Contactor	5	K1	Free component in mother part	
Combined co	5	F4	Free component in mother part	
Terminal block	5		Free component in mother part	
Conductor			Unconnected conductor	
Conductor			Unconnected conductor	
Conductor			Unconnected conductor	
Conductor			Unconnected conductor	
Combined co	5	Q1	Free component in mother part	
Conductor			Unconnected conductor	
Conductor			Unconnected conductor	
Conductor			Unconnected conductor	
Conductor			Unconnected conductor	



Device area

Now it is possible to add Device area in Circuit designer. Device area represents a bigger device or a device from another circuit in the switchboard. Child parts that are not linked to mother part get circuit ID and device ID from the Device area.

NOTE! Also Device outside switchboard area is considered as a mother part for devices inside them that are not linked to mother part. And to those areas it is also possible to add circuit ID and device ID.

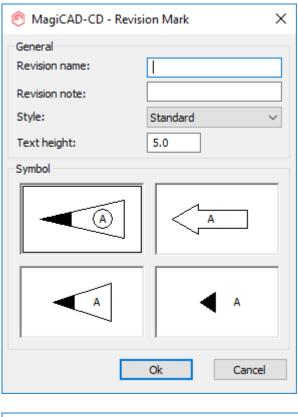
		EMERC	ENCY S	ТОР	
9VA-ES	151				
			🙆 MagiCAD-	CD - Device area	×
;9K1 _\			General	Cir.ID Dev.ID	Visible
09/E03 \ さ				Ok	Cancel
9VA-ES	150				

Revision cloud and arrow

Functions to insert revision clouds and arrows have been added. New layer setting have been added to "Preferences" and layer variable {RV} can be used to separate different revisions to different layers. Revision name and note can be edited using part properties for the objects or by using "Change properties" function



18 (37) 04/06/2019 Public



🙆 MagiCAD-CD - Revision Cloud						
Revision name: Revision note:						
	(Dk		Cancel		



1.5 Room

The summed airflows are now shown for the zones

The summed airflows are now shown in the zones which will make the design a lot easier as it will give the user a fast overview of for example what size and type of Air Handling Units would be needed.

New q50 and n50 functionalities in Room

Earlier the user had to define the heat exchange rate separately for each room. Now it's possible to define one value for the whole building.

1.6 Schematics

The schematics tool palette is now saved to the drawings

Now the active tool palette is saved to the drawing and the drawing-specific palette is activated upon opening the drawing activation.

Frame handling for the pages is now more flexible

Now the user can add more pages to each row, when adding pages, which allows the user to, for example, put different categories of drawings and reports on different rows to have a better overview of the project.

Moving pages is now also possible by dragging and dropping pages and makes the moving of pages faster.

FIN model drawings have been added to the installation package

Schematic model drawings for the Finnish market have been added to the installation package and can be found from C:\ProgramData\MagiCAD\Demo Pr



2 Resolved issues

2.1 Common

Transmit project couldn't handle the "wrong" relative path

The issue was that the external reference was not available in the drawing, if it was set to be linked with a relative path and "Bind" was used for the external references when running MagiCAD's MAGITRANSMIT, but this has now been fixed. We now use the same routine AutoCAD does to find the real xref:ed drawings.

Issue with updating sections if in the drawings are one a server

We fixed an issue which led to the sections not being updated if they were copied to another drawing and the drawings were on a server.

Storey variable 1 and Storey variable 2 weren't available for dimension texts

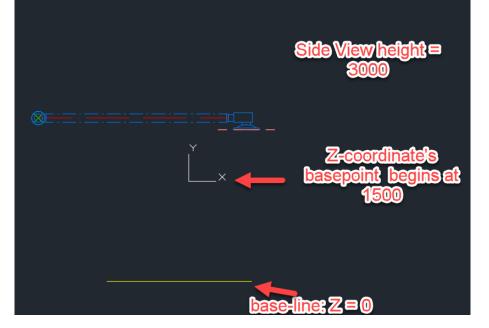
Storey variables 1 and 2 have been added to dimension text formats:

🙆 MagiCAD V&P - Stor	rey Data	×
ID:	2	
Name:	Floor 2	
Storey variable 1:		
Storey variable 2:		



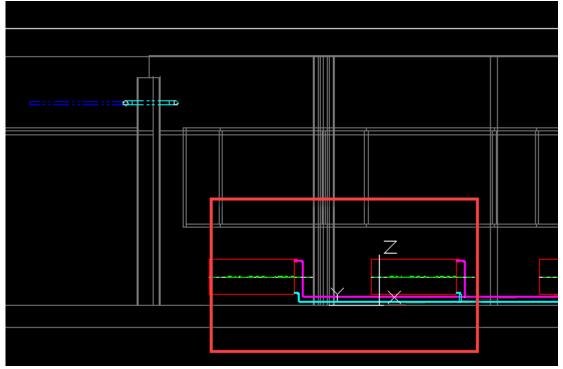
🙆 MagiCAD-E - Text	Format				×
General Description:	Cables		Preview		erence Line None
Style:	Standard	~			Line only
Text height: Text color:	125.0 ByLayer	~	AbcdefghijkIn		Line and target line Arrow
Layer variable {TV}:	INFO		j r	0	Filled circle
Alignment:	 Left Center Right 			Syr	nbol scale: 1.00
Column separator			1	Boro	ler
None	Use space	OUse	haracter:	0	None
Variables				0	First row underlined
Variables Available:		Selected:		۲	All rows underlined
S1		▲ Cable de	scription	0	Rectangle
S2 S3		=>		0	Diamond
S4 S5				0	Circle
S6				0	Split circle
Status Status from builder/con	tractor			0	Break cable
Storey pame Storey variable 1				0	Hexagon
Storey variable 2 Supply area of switchbo	pard			0	Oval
Switchboard code		× <=			
Add ne	w line			~	Fixed size
Add con:	stant		Parameters	L=	
				0	k Cancel

The Z-coordinate's basepoint was at half the height of the side view's height

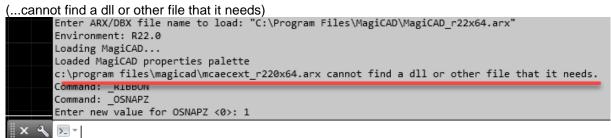




Now it is at the base line:



MagiCAD tried to load an AEC-extension on pure AutoCAD which led to a misleading warning



Now MagiCAD doesn't try to load an AEC-extension and the message isn't shown.

Initial opening of the product information dialog was slow

When opening the product information dialog of a device in the project, the initial opening took a while but the system has now been improved to remove this initial slowness.

Rectangular void provisions for builderswork openings were not exported correctly to IFC4 The height and width were swapped. This is now corrected.

Naviswork's Export (NWOUT) was slow in MagiCAD 2019 and following versions

This has been fixed now.



2.2 Ventilaion and Piping

Nodes-commands required a sprinkler license

Bug fix: The issue led to the Nodes-command demanding that the user had a sprinkler license, even if feature is available for other disciplines as well.

A number of properties for the Fans were missing from the IFC Property Set

These have now been added:

- "Fan inlet system name"
- "Fan inlet velocity"
- "Fan inlet flow"
- "Fan inlet pressure drop"
- "Fan inlet pst"
- "Fan inlet pressure"
- "Fan outlet system name"
- "Fan outlet velocity"
- "Fan outlet flow"
- "Fan outlet pressure drop"
- "Fan outlet pst"
- "Fan outlet pressure"

The drainage calculation header was not clear

Changed flows of drainage report from "qv" to "qww" and "Qvdim" to "qww sum".

Flow parameter does did work in roof drain dimension texts

The flow parameter was zero for roof drains in dimension texts, even if there was a value.

Locked minimum pipe size was not inherited over the tee branch

When the pipe size was locked to bigger size what was needed according to the sizing methods, the locked size was not inherited as a minimum size over the branch.

This meant that after the branch, or after the pipe material changes, the size could be smaller than the inherited minimum size.

Note: Happens randomly.

k-factor for sprinkler system's calculation report now has 1 decimal

Previously there was only an integer, but now there is a decimal-value.



Product code problem with product based fittings, where editing was allowed where it shouldn't be possible

Users were able to edit parameters in fittings that followed internal rules of the fitting. This is not possible anymore

Disabled cancel button

	UserCode		UserCode	Desc	ription					National code	
Other component Access panel Climate beam Office Fittings Circ				Lindab Safe							
					b Rect						
				Flexibel duct							
					Circular duct						
	- Bend			Rect		Rectanglular duct					
	- T-branch			Uponor	Upon	or indoor air	duct				
	X-branch										
	3 pair				0.0.0	C				×	
			Ma	agiCAD V	&P - Duct	Series					
ieneral			_							_	
D:			000	007	Description:		asdf			_	
			0.00	000	UserCode: asdf						
Connection	type code:				National code: afsd						
lange seri		· Default ·	_	~	Material						
	ected flange type	allowed			Object ID format:						
		allorrou			objectie	/ ronnac	<u> </u>			-	
 Flexible 	duct										
)uct Sizes					Products						
Size	Bend R/D	Fit on len	Extra	alen	Part type	User	Product	Shape	Subtype		
1	0.10	0	0								
						3					

Using MAGIMOV and changing the Z-elevation was not working correctly

Fixed an issue related to sing MAGIMOV and changing the Z-elevation did not work correctly and the level was set wrongly when they were connected to a duct or pipe.

The user had instead to use "Change properties" to set the correct height.



Actuator symbols were not drawn

The Actuator symbols weren't available in the dialog for the symbol selection:

🙆 MagiCAD V&P - Project Management - (C:\P	rogramDat	ta\MagiCAD\D)emo Proje	cts\001.EPJ	
⊡. Ventilation I Systems ⊡ Parts I Outdoor devices	^	UserCode FD1 FD2		Manufactu Halton Swegon AB		
···· Supply devices ···· Extract devices		FD3		Climecon	-	
Exbaust devices Flow damper Fire damper		FD4		Flakt Wood	ls	
Silencer Other component			🙆 MagiCA	D V&P - Us		
···· Air handling equipment ···· Access panel ···· Climate beam			UserCode: Product:		FD4 IRIS	
Fittings Layers			Object ID format: Running index amount		-	
Active Storey Install storey origin (-10000,-15000,0)	-		2D symbol:	Carrioune.		
Active storey Floor 1		@ N	1agiCAD V&P	- Actuator	symbol ×	(^{te}
Project Disconnect project Merge project		Symb	⊖ No a			-
Close				w up w down		te
					Cancel	

T-branch with vertical connector had the wrong vertical symbol

When settings were set to "Show duct only", MCACA showed insulation on vertical ducts: (The problem in the upper right corner)



Radius for flexible pipe setting worked in the wrong way

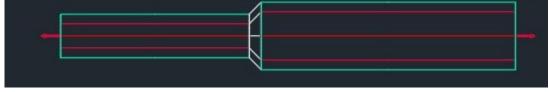
When changing the Size, the value set for the "Radius for flexible pipes" did also change:

MagiCAD V&P - Heating & Cooling Pipe Operation	ptions	×
Supply/Return Pipe Series:	Size:	Routing
PEX Plastic pipe PEX	🗸 50 🗸 🗌 Locked	Smart
PEX Plastic pipe PEX	- 50 - Locked	ODirect
	Synchronize	▼▲
Supply/Return Insulation Series:	Pipe positioning from cursor pipe	
		0
s [mm]: O	_ _	\odot \odot
-		0
s [mm]: O		Distance [mm]:
Supply/Return Sizing method:	7 -	100
By system		
Alignment	Pipe Positioning After Vertical	
	Śmart (no crossing)	~
000		
000	 Radius for flexible pipes Set 	
Lish Difference	100.0	
Height Difference	100.0	
090		
dH in branch [mm]:		
0		
Status:		
Not defined	~	
		Close

Now changing the size does not change the other value.



Reducers and expanders became white within sections in MagiCAD for AutoCAD UR-2



Now the reducers have a color.

The Chilled beam property "LpA red 10m2 sab" was missing in various reports

Added "LpA red 10m2 sab" property for chilled beam to MagiCAD Export, Report, Property Palette and IFC Export.

Bug with activating sizing

If the user ticked the "Maximum width" while the system group was "Ductwork", without setting a value, and then switching to another system group, then it wasn't possible to click "OK" as the program complained that values had to be set.

MagiCAD V&P - Sizing X						
System group:	Ductwork		~			
Range						
Branch						
O System - current dr	awing					
System						
UserCode	Name					
□ S1	Supply 1					
	Extract 1					
01	Outdoor air 1 Exhaust 1					
External Connection 1	Vodes					
Calculate flow						
O Use last value						
Options						
Select objects to b	e sized					
Save calculated da nodes	ata in drawings connected to curren	t drawing via o	onnection			
Show calculation r	eport					
Lock sizes after ca	lculation					
Heat losses	ra autoida nincer	20.0	℃			
Ambient temperatu		5.0				
Warn if temperaturi	e decreases more than:	5.0	°C			
Sizing Method	By system		\sim			
			\sim			
			\sim			
Warning limit for time temperature	to reach hot water design	10	s			
Rectangular duct						
Maximum width		0	mm			
Maximum height		0	mm			
Minimum width/hei settings)	ght ratio (overrides sizing method	0.0				
		Ok	Cancel			



Balancing methods did not work on climate beams

The balancing methods did not work on climate beams but this has now been fixed.

Update drawing data changed real duct part to a generic

When the user used the update drawing data some real duct parts changed to generic ones and now this has been fixed so that this change doesn't occur.

When using "Purge all items" command an error shows up after you save the drawing

In MagiCAD for AutoCAD 2019 UR-1 Save -> Command Purge -> Purge All -> Purge All Items -> Save, led to this error:

🙆 AutoCAD Message	×
One or more objects in this drawing cannot be saved to the specified format. The operation was not completed and no file was created.	
OK	

The warning may not come the first time, so it occasionally had to be repeated a several times to see the issue.

This was related to the purged layers; now purged layers are not created during save anymore so save should work after purge.

Automatic dimension texts turned after using MagiCAD Explode (MAGIEXP)

In MR 2019 and 2019 UR-1, automatic dimension texts turned after MagiCAD Explode (MAGIEXP) to the direction of the UCS x-axis that was active when those texts were inserted. Now automatic dimension texts keep their direction in active viewport after MAGIEXP.

Issues with changing style and format of dimension texts

Fixed an issue where it wasn't possible to change the format of dimension texts in isomertic and section entries with Change Properties.

Delay in first command after switching from one drawing to another

Changing the active drawing caused project reloading which was slow, especially when project was on a network drive.



Changes in Xref:ed drawings were not updated to the main drawing

When there were two drawings, one main drawing which has the other drawing as an "xref" and the main drawing had hidden objects from the xref. When the xref:ed drawing was edited, the main drawing did not reflect the changes, because the main drawing had cached hidden images. The bug fix notices such changes and removes cached hidden images.

2.3 Electrical

Switchboard areas in version 2019 UR-2

The switchboard areas made/edited in 2019 UR-2 were not compatible with 2019 UR-1 and older. This issue has been fixed, and the areas are backwards compatible again. However, editing with 2019 UR-2 will make them incompatible again.

Selection set part types calculation error

When loading saved selection set in IFC Export, cable tray's new sub groups were not always selected. Same thing happened with led stripes and lighting tracks. Now all fittings are elected if the selection set was saved before the sub groups were made available in the software.

Power calculation to use the file format set in options

When running power calculations and updating results to drawings, now it saves the files by using the file format version selected in AutoCAD's options. However, if a drawing's file format was even older, then that file format is used instead.

Texts in switchboard schematics doesn't work properly

When using AutoCAD's texts in switchboard schematics and justification of those texts were something else than "left" they didn't move with the circuits or only the other side of the text was moved.

Now texts are moved with the circuits properly.

Luminaire's 3D model turns into wrong position

In some rare occasions when installing devices from different product groups without restarting the function, installation direction were left from the previous device and caused f. ex. a luminaire's 3D symbol coming sideways to the drawing.

Now devices are always installed as they should.

Dimension texts' midpoints were not working properly in some occasions

Previously, midpoints were not working properly if a dimension text had multiple rows.

Too short filenames for 3D blocks

When using an AutoCAD dwg as a 3D symbol for a device, the filename for that dwg could not be more than 32 characters long. Now the file name can be 200 characters long.



Switchboard schematic definitions losing data in some occasions

Previously, if national character set was used, some data was lost in switchboard schematic definitions when opening old projects.

Move Device Symbol does not stretch cable end points when rotating the 2D symbol

When using "Move Device Symbol" and rotating the object while moving it, the connected cables didn't follow correctly and dimension texts were not rotated correctly. These issues are now fixed.

Automatic texts on mirrored objects

When using automatic text on mirrored objects, the texts were sometimes unreadable because they were also placed in a mirrored orientation. Now automatic texts are placed correctly.

BOM used wrong unit for length in system schematic drawings

In system schematic drawings, the "total length of similar [m]" variable was actually showing the total lengths in millimetres when running BOM. Now it shows them in metres as it should.

Connection nodes of cables

Now all cable data (Running index, Object ID and Object variables) is transferred correctly through connection nodes. This way the same cable really is continuing from one node to another. Also, if the "Do not show conflict dialogs" setting is on in "User Preferences" it now affects also cable drawing from connection nodes.

MEEXPLODE was flipping some trays and bends

In some special cases, MagiCAD Electrical's explode function changed the orientation of cable trays and/or fittings.

Continuing cable trays with + grips

Now the + grips in cable trays, also from the midpoint of a tray, reads all information properly from the tray and continues by using those settings.

Crash when stretching cable trays

AutoCAD no longer crashes when using stretch cable tray segment in some special cases.

Dimension texts lost their host reference

Previously, in some cases it was possible to get a dimension text object lose its link to its host object. Now the "Update Drawing Data" function tries to fix the broken link if the reference is still stored some way in the dimension text object.

Longest branch lengths in Update Drawing Data

Longest branch lengths of circuits are now calculated orthogonally from the circuits to the switchboards when cable packet connections are not used to do so.

Changing the switchboard/host reference of circuits with Change Properties

"Change Properties" didn't change anything if in the "value from" field there was a reference to a switchboard in the current drawing ("current dwg / switchboard"). Now it changes the property correctly. The same thing also applies to host references of circuits in extra low voltage systems.



File paths of sections

Previously, when working in dwg files on a file server, the full file paths were not stored and handled properly in sections. This created problems when copying sections to external drawings since the "Update Section" function was not able to find the source drawing. Now the full file paths used in sections are stored and handled properly.

2.4 Circuit designer

Circuit designer conductor drawing not working

Sometimes when starting to draw conductor from f. ex. a contact and there was one conductor already connect, the new conductor didn't connect to the contact but it connected to that existing conductor. Now it first tries to connect to devices and if no devices are within the search circle is connects to a conductor.

2.5 Room

Slab problems issues in MagiCAD Room

Corrected area computations that effect slab handling, where slabs weren't correctly divided into different parts, when some part of them were interior slabs and some parts were facing the outside air.

2.6 Schematics

Text style for symbol attributes, in the Design Data preferences selection, was not saved

Some data was saved to the drawing before the dataset was marked as connected. Because of that text styles that weren't present in the drawing could not be used even if they were set in the dataset.



3 Known issues

3.1 Common

MagiCAD for AutoCAD 2020 does not support Navisworks 2020

MagiCAD for AutoCAD 2020 does not support Navisworks 2020, which is used in combination with AutoCAD 2020.

This means that if you try to run the function "Navisworks Export" on AutoCAD 2020 with MagiCAD 2020 installed, you will get the following warning:

MagiCA)	\times
	Initializing Navisworks COM interface failed, no license available.	
	ОК	

"Navisworks Export" works in MagiCAD 2020 if it is installed on AutoCAD 2016 - 2019. We apologize for this and any inconvenience this problem might create to any of our customers. Autodesk has recognized that this is an issue in their API and are working on a solution for it



4 MagiCAD 2020 Network License Server Update

Customers with existing MagiCAD Network Licenses must update their network license server to version 19.05 or later before installing MagiCAD 2020 for AutoCAD or Revit.

What are the benefits of the new network license server version?

From MagiCAD 2020 and network license server version 19.05 onwards **MagiCAD licenses can be maintained on the same work server as Autodesk Revit or AutoCAD licenses**. This is beneficial for future updates as it simplifies considerably the update process. Previously, customers needed to maintain MagiCAD licenses on a separate server, which made updating more complicated.

From a technical standpoint, the new license server version employs Internet Protocol version 6 (IPv6), which enables having MagiCAD and AutoDesk Revit or AutoCAD licenses on the same server. Previously, this could be done but it required extensive configuration work and firewall adjustments and could still occasionally lead to conflicts where connection to the server was lost.

A second improvement with the new license server version is **increased stability with Windows 2016 servers**. The current server software has stability issues in Windows 2016 server environments and may sometimes perform unnecessary and repeated reboots.

The third major improvement is **easier monitoring of license use**. When licenses are borrowed from the server, the new version adds both the computer name and user name to the license log, whereas previously only the computer name was used. Including the user name makes it much easier for companies to identify where their licenses have been used



How to update the MagiCAD license server software

Stop MagiCAD license server and services

1. Before updating, use **Imtools.exe** to stop the MagiCAD license server. The Imtools.exe application is included in the MagiCAD installation package.

LMTOOLS by Flexera Software LLC						
File Edit Mode Help						
Service/License File System Settings Utilities	Start/Stop/Reread Server Status Server Diags Config Services Borrowing					
comp	ise servers installed as Windows services on this outer					
Start Server	Stop Server ReRead License File					
Edit Advanced settings	Force Server Shutdown NOTE: This box must be checked to shut down a license server when licenses are borrowed.					
Using License File: C:\Program Files\MagiCAD	License Server Utilities/magicad.lic					

2. Open Windows Services and stop the MagiCAD License Information Service

🐝 Local Session Manager	Core Windo Kunning MagiCAD li	Automatic Automatic	Local Syste Local Syste
🙀 MagiCAD License Information Service	This service Running	Automatic	Local Syste
C Microsoft iSCSI Initiator Service	Manages In	Manual	Local Syste

3. Close **Imtools.exe** and the **MagiCAD Network License Server Management Utility**. If you have custom settings in the **magicad.lic** or **magicad.opt** files, make backups of those settings before updating.

Install new version of license server software

- Download MagiCAD License Server Utilities version 19.05 or later from the MagiCAD Portal using your MagiCAD activation ID. <u>https://portal.magicad.com/Download/ProductSearch?searchStr=utilities&categoryId=6</u>
- Extract the downloaded file and execute MagiCAD License Server Utilities x64.msi and then follow the installer instructions.
 If you had custom settings in the magicad.lic or magicad.opt files use Imtools.exe to stop the MagiCAD license server before you restore your custom settings.



Restart license service and reload licenses

6. After the installation is finished use **Imtools.exe** to stop and start **MagiCAD License Server** to reload licenses.

Use scenarios

The table below shows which license server versions and combinations can be used with different MagiCAD versions

MagiCAD software	MagiCAD network license server(s) used	Possible combination
MagiCAD 2020	Single server, v. 19.05 or later	Yes
MagiCAD 2020	Single server, v. 15.11 or earlier	No
MagiCAD 2019 UR-2 or earlier	Single server, v. 19.05 or later	Yes
MagiCAD 2020	Multiple servers, v. 19.05 or later in all	Yes
MagiCAD 2020	Multiple servers, including: v. 19.05 or later and v. 15.11 or earlier	Yes , but not recommended (possibly slower performance)
MagiCAD 2019 UR-2 or earlier	Multiple servers, v. 19.05 or later in all	Yes
MagiCAD 2019 UR-2 or earlier	Multiple servers, including: v. 19.05 or later and v. 15.11 or earlier	Yes , but not recommended (possibly slower performance)

New MagiCAD 2020 installations

Install MagiCAD license server software version 19.05 or later during the MagiCAD 2020 for AutoCAD or Revit installation. Use the activation ID that was delivered together with MagiCAD 2020, or the activation ID of a valid subscription license.



Updating from MagiCAD 2019 UR-2 or earlier to MagiCAD 2020

To update to MagiCAD 2020, you need to update the MagiCAD license server software to version 19.05 or later before installing MagiCAD 2020 for AutoCAD or Revit. Use the activation ID that was delivered together with MagiCAD 2020, or the activation ID of a valid subscription license, and see the update instructions above.

Using MagiCAD 2019 or older and MagiCAD license server 19.05 or later

The new license server software is downward compatible and can be used with MagiCAD 2019 or older. You can simply update the license server software according to the instructions above and continue using an older version of MagiCAD software. To update the license server you need either a new activation ID or a valid subscription license activation ID for the server.

Distributed server model

It is possible to use a distributed server model with two network license servers. In this setup, MagiCAD will start by searching for free licenses from the first server and if none are found then continue searching from the second server.

Using two network license servers requires that you enter two server addresses in the MagiCAD Network License Server Management Utility. Ex. port@newServer;port@oldServer

We recommend updating both servers to MagiCAD license server software version 19.05 or later. You can also use different license server software versions, however, this may result in slightly slower license operations.

Using a mixed environment with new and old license server software

This is possible, but not recommended as this may result in slightly slower license operations. However, you can employ two different license server versions, for example if you need to maintain an older license server for external software. You need to simply install the desired license server software versions with their own activation IDs.

Change to network license checkouts

The new license server version also includes a change to network license checkouts and automatic license returns due to idle time.

When using MagiCAD, the periods of time when the user uses native Revit functions without activating any MagiCAD tools are counted as idle time for the MagiCAD license. The previous practice was that the MagiCAD license was automatically freed to the license pool after 15 minutes of idle time. In some cases, this could cause situations where the license was returned to the license pool in the background and then checked out by another user, rendering the license unavailable to the original user and blocking the user from completing their work.



To prevent interruptions in design work due to license unavailability, we have changed the idle time limit for the automatic license return from 15 minutes to 2 hours. If the user wants to intentionally return the license to the license pool earlier, this can be done at any time by simply ending the Revit or AutoCAD session (i.e. by closing the software). MagiCAD's idle time settings are fixed and the system administrator does not have access to them.

In case of multiple license types on the same server the license reservation will check out the more "minor" licenses first when applicable. For example, if a user is working with MagiCAD for AutoCAD and the license server has both MagiCAD for AutoCAD and MagiCAD Suite licenses, then the system will not assign a MagiCAD Suite license if MagiCAD for AutoCAD licenses are still available.