# **MagiCAD for Revit**

Release notes for version 2025 UR-1

03/10/2024





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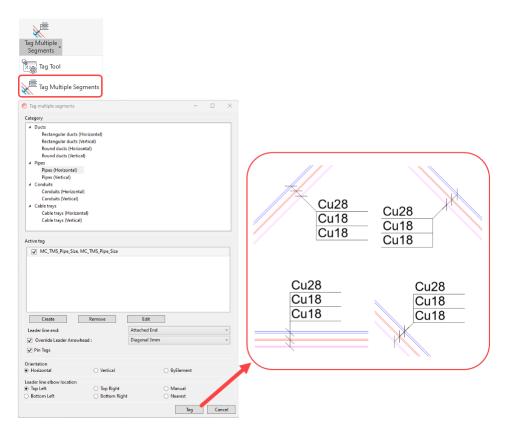


# **1** New features

### 1.1 Common

### Tag multiple segments

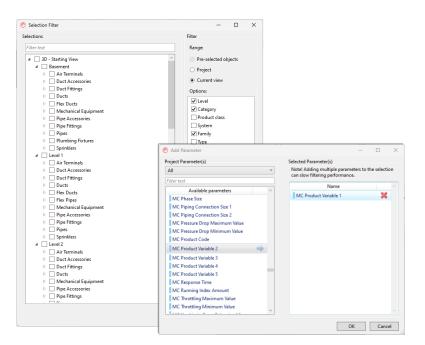
The new Tag Multiple Segments -tool makes it much easier to add tags to system segments. Users can create suitable tags for the tool with the help of a tag family template and assign the tags for different types of system segments, for example horizontal pipes. The tags are then applied to the model simply by clicking the segments. Each segment is automatically tagged according to their assigned tag family and the order of the tags follows the order in which segments are selected. The tool provides various options that can be used to achieve the desired visual presentation.





### Improved Selection Filter tool

Selection Filter now allows adding any parameter from the project to the filter options, making it more flexible to use.



# Spreadsheet export improvements

Export to Spreadsheet -tool has been improved to support list sorting and drafting views. Sorting is be done in ascending order and can be changed by moving parameter up and down in the selected parameters list. In addition it is now possible to select "Leave unprotected" in the dialog which makes it easier to work with the file when opened.

🔊 Spreadsheet Export			– 🗆 X
Selections		Range	
Selections file:		<ul> <li>Project</li> <li>Selected objects</li> <li>Current view</li> </ul>	Street level Basement Level 1
Save Save as	Load	<ul> <li>Levels</li> </ul>	Level 2
Export options			Roof
Target file:			
	Browse		
Decimal separator: All categories int	o one shee V Leave unprotected existing		
Categories		Parameters	
All v		All v	
Available categories	Selected categories	Filter text	
Flex Pipes	Pipes	Available parameters	Selected parameters
Generic Models		Additional Flow	Comments
Pipe Accessories		Area	Diameter
Pipe Fittings		Connection Type	Family and Type
Piping Systems Spaces		End Middle Elevation	Family
spaces		Export to IFC	
		Export to IFC As	
		Flow	
		Flow State	
		Friction	
		Friction Factor	
		Horizontal Justification	
~	~	IFC Predefined Type	~ · · · · · · · · · · · · · · · · · · ·
		Instance parameter	Export Cancel
		Type parameter	Export Cancel



### Product release date in the dataset

Product database release date can now be shown to dataset column. Which helps to identify if the products are up to date.

	User code	Description	Manufacturer	Product	Preview	2D Symbol	Air flow arrow	Release date
- Ventilation - Duct series - Insulation series	SD01	Supply air diffusor	TROX	Tellus-Opus-L	-		$\rightarrow$	2020-10-20
Sizing methods     Balancing methods     Product safety distance checks     Devices and components	SD02	Circular slot diffuser for exposed m	. Klimatbyrån Netavent	NHLB-T	-0		$\rightarrow$	2019-08-08
	SD03	Recessed perforated ceiling diffuse	. Klimatbyrån Netavent	NPL-T-TLM	<u>1988</u> .		$\rightarrow$	2019-08-08
Outdoor supply air device     Outdoor exhaust air device     Air flow damper     Fire damper	SD04	Supply air diffuser with plenum box	ETS NORD	DKZ+SKDM	-		$\rightarrow$	2021-04-22
- File Gamper - Silencer - Other duct component - Access panel	SD05	Supply valve	Flexit	Supply valve	-		$\rightarrow$	2021-08-14
Climate beam     Air handling equipment	SD06	Nozzle diffuser	FläktGroup	DYVB-1	<b>1</b>		$\rightarrow$	2020-03-05
Flange B-Piping B-Drainage	SD07	Intelligent active diffuser with built	LindinVent	ISQ	-		$\rightarrow$	2021-04-20
p⊡rainage 9-Electrical 9-Communication and data 10-Cable routes	SD08	ATD for displacement ventilation	TROX	SI-2	1		$\rightarrow$	2020-07-20
- Cable Foldes - Schematics - Variable settings - Provision for builderswork openings	SD09	Supply air valve for sauna	FläktGroup	KTSS-C			$\rightarrow$	2019-03-07
- Report templates for Bill of Materials - Legend templates - Dataset settings								

# Font selection for labels and texts in converted symbols

In the MagiCAD Settings dialogue, you can now define which fonts are used in labels and texts when 2D symbols are converted/generated directly from symbol databases. Both the Symbol Organiser and the Legend tool assume that all symbols use the defined fonts and spacing is calculated accordingly. With the project override checkbox, you can set different fonts to be used in different projects per projects' needs. Otherwise, common font settings from the dialogue will be used.

🙆 Setti	ings		×
Gener	al Appearance Content Project	Parameters Units	Fonts
Fonts	Plan drawing symbols:		
	Arial Narrow	Width factor:	1
	Switchboard schematic symbols:		
	Arial Narrow 😽	Width factor:	1
	System schematic symbols:		
	Arial Narrow	· Width factor:	1
	Project override		



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### **Override Revit commands updates**

New message has been added for the user when MagiCAD license check fails, if override functions are wanted to be turned off so that plain Revit can be used. Changing the setting doesn't require restarting the Revit anymore. Draw override has also been improved to perform better in certain scenarios.

### Dataset "read only" mode updates "Internal error" from dataset with write restrictions

Dataset has been improved to inform user if dataset is in read only mode due to file locking or simultaneus usage.

### Floating toolbars general improvements

Floating toolbars can now be found from the taskbar in case it is lost behind windows.

### Improved Tag Tool override option

It is now possible to use Tag Tool override option with linked files as well.

# **1.2 Common/IFC related**

### IFC Export and Psets support new Revit categories

Updates to the mapping of IFC categories:

### Added IFC support for

- Mechanical Control Devices
- Plumbing Equipment.

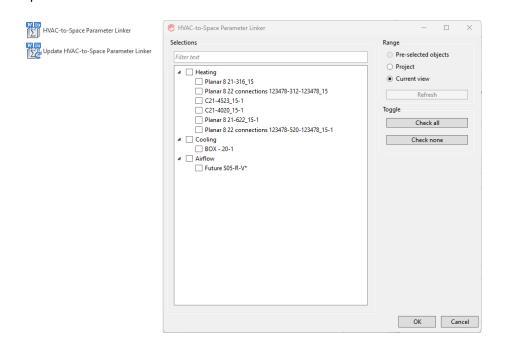
### Changed mappings

- Fire Protection => IfcTypeFireSuppressionTerminalType,
- Audio Visual Devices (IFC2x3) => IfcTypeElectricApplianceType.



# **1.3 Ventilation and Piping**

**Collect actual data values, summarise and place that value into the space** New feature for summarizing HVAC data which is collected from certain devices into respective spaces.



# Damper placement safety distance check

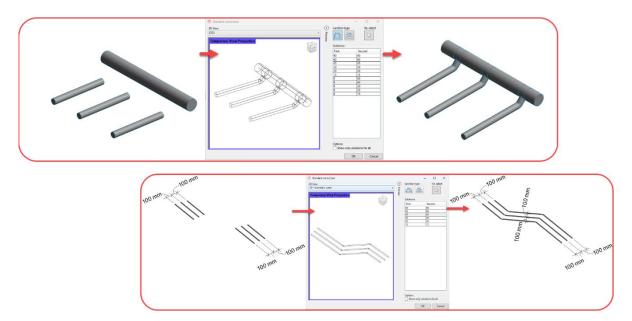
New feature for checking flow damper safety distances has been included into "Extended flow analysis". Tool gives an option to check the placement of the dampers based on scenarios. User can create generic rules in dataset for the checking which then can be used for all products or the ones missing the manufacturer data.

ataset:	Name	Description	
Ventilation	Set name	Set description	
Octames     O			Product safety distance settings      General     D.     Name     Decryption:     Set arm     Decryption:     Set description      Circular Rectangular     Generic Safety Distances     1) nn 1     2 nn 1     1
Merge			5) n= 2 6) n= 0



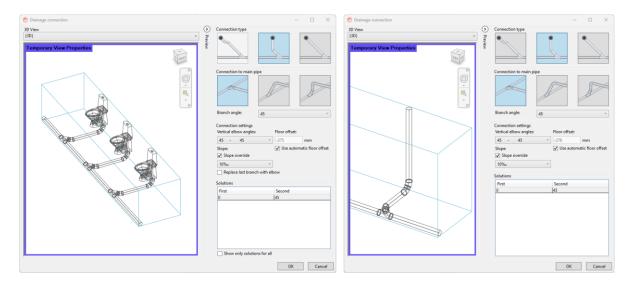
### **Standard Connection improvements**

Standard Connection -tool now support new connection scenarios. Multiple segments can be connected to same main segment when their system classification is the same and the segments are perpendicular to the main segment. In addition, the tool can now maintain correct spacing between segments when multiple segments are connected end-to-end simultaneously. This requires that segments are parallel and on the same plane.



# **Drainage Connection tool improvements**

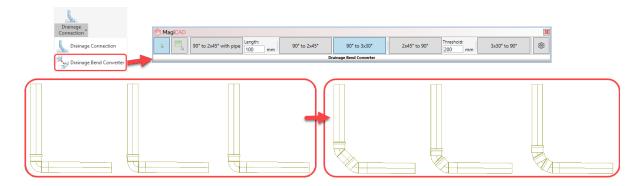
Multiple drainage devices can now be connected simultaneously, instead of creating connections oneby-one for each device. In addition, it is possible to connect vertical pipe to horizontal as well with the tool.





### Change 90° drainage bend to 2x45° or 3x30° and back

Drainage Bend Converter is a new tool for changing 90-degree bends to 2x45-degree bends or to 3x30-degree bends and back. Tool reduces the need of doing this change manually in section view afterwards.



### Allow overriding velocities in DW standards DIN, French, and UNE

In some cases, domestic water standards such as DIN 1988-300 allow water flow velocities in pipes which may cause excessive noise. Hence, designer may want to limit maximum flow velocities lower than is required by the standard. Checkbox "Override velocities defined in the standard" allows users to set maximum flow velocity for cold and hot domestic water networks.

Sizing Options		×
Calculation range		
OBranch		
O Network		
Sizing methods		
Use pre-assigned sizing method (or defa	ult to below method if not defined)	
Override velocities define in the standar	d	
Cold water	DIN 1988-300 - According to DIN 1988-300	~
Hot water	DIN 1988-300 - According to DIN 1988-300	
Return water	0.5 m/s - Max. velocity 0.5 m/s	~
Building type	Office building	~
Apply usage units to the calculation of fi	ow	
Tapped pipes		
Automatically insert/remove splits to allo	w sizing of tapped pipes	
Min distance A:		100 mm
Ambient temperature		
Ambient temperature outside circulation pip	es	°⊂
Use space temperature		
Warning limits		
Warning limit for time to reach hot water de	sign temperature	10,0 sec.
🕑 Warn if maximum dead leg pipe volumes	are exceeded	
Override maximum dead leg volume in se	elected DWS calculation standard	
Maximum volume of the dead leg		3,0
DIN 1988		
Mixing factor for the circulation pipes		
Use specified pressure at feed point		400,0 kPa
Share of single resistance from the total pre	essure loss	
<ul> <li>Calculate automatically</li> </ul>		
O Define ratio		40 %
		OK Cancel
		Cancer



### **Improved Device Connection -tool**

New options has been added to Device Connection -tool to enable easier air terminal connection. User can now define the exact distance between the rise or drop connection point and the middle point of the connected duct when there is an elevation change to the device. The tool also includes an option to use flexible duct and the shortest possible route for elevation changes.

📀 Device connection – 🗆 X		Pevice connection	- 🗆 X
3D View (3D) View Properties	Ducts Ductseries Circular duct	3D View (3D) (3D) v Properties (4D)	Ducts enes Circular duct
	Rise/drop location         Length from duct middle point:       750 mm         Flexible ducts       50 mm         Use flexible duct to connect the device       90 mm         Flexible duct.       134 mm         Solutions       First         First       90 mm         60       60         60       60         15       15         15       15         0       90         0       60         0       60         0       45         0       45         0       45         0       45         0       45         0       45         0       45         0       45		Rise/drop location         Length from duct middle point:       750 mm         Flexible ducts       ✓         ✓ Use flexible duct to connect the device       ✓         Plexible duct       ✓         ✓ Compensate height difference with flexible duct.       ✓         Maximum distance:       1134 mm         Solutions       ✓         First       Second         90       90         60       45         30       30         15       0         0       90         0       45         0       45         0       45         0       45         0       45         0       45         0       30
	OK Cancel		OK Cancel

# Giving pressure drop to elements with parameter

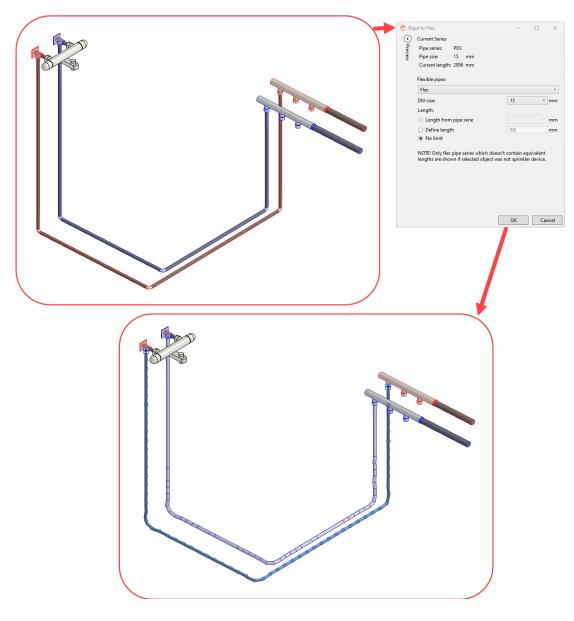
It is now possible to give pressure drop for components in product installation dialog if the component does not have pressure drop in product data and has two ports. This value is then used in ventilation, domestic water, heating and cooling network calculations.

Product Installation		×
Selected Size	13	Select Create Product Similar
Placement Property	Value	Product
Identity Data		
Installation Code		~
Status		~
Calculation Data		
Given pressure Drop	100 Pa	
Annotation	-	
Tag On Placement		
Dimensions		
Size Locked		
General		
Object Variable 1		
Object Variable 2		
Object Variable 3		
Object Variable 4		
		푸



### **Improved Convert to Flex -tool**

Convert to Flex now allows you to convert any part of a piping network from rigid pipe to flexible pipe. This was previously only possible for sprinkler connection pipes. The Convert to Flex tool helps user to save time, especially in situations where flexible pipe is transitioning from horizontal orientation to vertical.



# Domestic water calculation standard according to PN-B-92-01706

Added support for Polish domestic water calculation standard PN-B-92-01706.

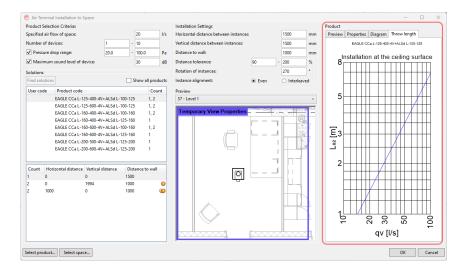
# Fan coil unit room calculation point

Room calculation point is added for fan coil units by default when installing product to project.



# Air terminal throw length (L 0.2) data

Throw length data has been added to supply air devices. Data diagram can be seen where ever the product properties are visible. Example in picture where throw length is shown when example product is installed with install to space tool.



# Drainage flow calculation improvement

Drainage calculation now supports sanitary connection to air terminals, cooling beams, fan coil units, fans and other air components in drainage networks.

# Alignment points added to fire dampers

Reference planes for installation point has been added to some fire damper families for easier installation.



### 1.4 Electrical

### Single core cable handling and parallel supplies

Now it is possible to specify single core cables very accurately. You can define the amounts and cross-sectional areas (CSA) of each conductor type in each cable setup.

When defining wire types in Wire Type Management, you can first of all make a wire type act as a product by setting a weight for it. When it is defined, it locks the given amounts and CSAs of conductors when set for a multi-core cable but locks only the CSA of s single-core cable. When weight is not given, the wire type acts as a product family. In this case amounts and CSAs are always defined per instance/setup, and cable layouts require the total dimensions given in circuits in order to work properly.

In the Wire tool, you can now set also a parallel supply multiplier for the used cable setup. When making reports, the multi-core and/or single-core cables will be multiplied accordingly.

When using a product family, you can freely define the amounts of conductors and their CSA sizes. When using a multi-core product, amounts and sizes of conductors are locked.

When using a single-core product, sizes of conductors are locked but you can define how many different conductors are used.



MultiplierWire typePhase amount x CSANeutral amount x CSAPE amount x CSAPE wire type (available when "Separate PE" is set on in the main wire type)

From Set Properties, you can modify the wire setup as well. The multiplier and conductor amounts and sizes are modifiable if the selected wire type allows it.

Wire		
Wire type:	1 ~ x ML 1,5	Ŷ
	Amount: Size:	
Phase conductors:	3 x 1.5 mm <sup>2</sup>	
Neutral conductors:	1 x 1.5 mm <sup>2</sup>	
PE conductors:	1 x 1.5 mm <sup>2</sup>	
PE wire type:	ML 1,5	~

PE wire type is also available when the wire type is set to use a separate PE.

When using actual products (which means that weights and other dimensions are defined in the wire types), the Cable Layout tool shows the amounts of conductors/cables with their correct dimensions, taking into account also the possible cable setup multipliers. But note that when using product families (which means that dimensions are not defined in the wire types), you have to define the weights,



heights and widths of the whole supply cable setups manually to the "Total weight/height/width of supply cables" parameters of circuits to get cable layouts to be correct.

When using a wire type with the "Separate PE" selection active, you can change also the PE wire type of a drawn wire afterwards by using Change Properties.

The Export Electrical Network exports the amounts and sizes of different conductor types of each circuit. Import Electrical Network imports back the correct data.

Bill of Materials now have the different conductor types and multipliers available in the export to get as accurate reports as possible.

Manage Circuits now shows the multipliers of cables and that multiplier can be added to switchboard schematics with the parameter "CN" in the symbols or data blocks.

### Undo/Back function in the Wire tool

Now when you draw wires with the Wire tool, you can undo missclicks with backspace or by clicking the undo button in the toolbar, and wire drawing will be continued from the last clicked position. You can go back as many steps as you want since starting the tool, so from now on you don't need to cancel wire drawing and start again every time you make a mistake or change your mind about a wire route.



### Spreadsheet Import can update Wire Type

Now you can change the Wire Type of a circuit with the Spreadsheet Import. If the imported wire type can be found from the project, it will be updated to the circuit.



### **Connection to DIALux Evo**

Now it is possible to import lighting plans from Dialux Evo by using the IFC file format. After selecting an ifc file, you need to define from which storey(s) luminaires will be imported.

Select	storeys			
mport	Storey in IFC	Map To	Level in Project	
	01 - Basement (Z=-4000.00)	====>	Basement (Z=-4000.00)	
	02 - Street level (Z=0.00)	=====>	Street level (Z=0.00)	
$\sim$	03 - Level 1 (Z=3500.00)	====>	Level 1 (Z=3500.00)	
	04 - Level 2 (Z=7000.00)	=====>	Level 2 (Z=7000.00)	
	05 - Level 3 (Z=10500.00)	====>	Roof (Z=10500.00)	[

The storeys in the IFC file are automatically mapped to levels found from the Revit project, but in case MagiCAD doesn't succeed in this you then need to map the storeys manually.

When continuing with the import, you will get a new dialogue in which you need to select the used 2D symbols for all created luminaires. You can also set user codes, power factors, systems and descriptions for the luminaires. If an imported luminaire type is already found from the project or from the dataset, you can map it to that and use all its data in the import.



🔊 DIALux Import X									
Luminaires									
Type GUID	Product	1	Manufact	urer	Count	Action	Status	Symbol	
3cSEswfAfCUwcZ9zm	BRIGHT SPECIAL LIGHTING S_	_A_COM			27	New	Incomplete		
2qCV2Fkw99XAujKSE	BRIGHT SPECIAL LIGHTING S_	A_FUG			60	New	Incomplete		
0vMHErGELBK9yfQKK	Fagerhults Belysning AB Telescop	pe Aqua			11	New	Incomplete		
3QhDfTHJf59u1MZb5	Fagerhults Belysning AB Zoft Ceili	ing_Wall			12	New	Incomplete		
2mnUduJ\$T6pfr0Z1Yf6	LIGMAN Nybro Junction Pendant	t luminair			3	New	Incomplete		
Luminaire properties									
Apparent load:		15.70		CosP	hi:			1.00	
Active power:		15.70		User code:					
Flux:		0							
RFA name:		BRIGHT	BRIGHT SPECIAL LIGHTING S_A_ COMIS OUT OPAL COVER 1m						
System:									~
Description:									
\$									•
									Ŧ
-Luminaire mapping optio	ns	User Coo	de RF	A Name					
Map to existing									
Map to existing in Ma	agiCAD dataset								
Use project north									

Select to use project north (recommended) and the project's coordinate system or leave the checkbox unchecked for using true north and the site's coordinate system. With the update checkbox you can decide to merely update the places and directions of already existing luminaire instances in case they were already imported earlier or decide to create all instances as new objects even if they existed before by leaving it unchecked. Pressing the Import button will create the luminaires to their correct positions in the Revit project and update the placements and directions of existing instances when decided so.



### Running indexes for electrical connections to mechanical

Now it is possible to add running indexes for Connections to Mechanical objects. That category has now been added to the validity list of running index definitions.

🔊 Running Index Format							
General							
Name:	CtM						
Description:	CtM						
Value range:	1	-	999				
Number of digits:	3						
Groups:	DP1 Data panel 1 DP2 Data panel 2 DP3 Data panel 3 DP4 Data panel 4 DP5 Data panel 5	2 5					
Allow the same index in diffe	erent systems						
Allow the same index in diffe	erent system types	;					
Allow the same index in diffe	erent spaces						
Allow the same index in diffe	erent levels						
Validity          Ventilation         Image: Open state         Image: Open state							

### New revit categories available into "Connections to Mechanical"

The following new Revit categories have been added to validity list of Connections to Mechanical:

- Food Service Equipment
- Medical Equipment
- Signage
- Vertical Circulation
- Mechanical Control Devices
- Plumbing Equipment

One or more electrical/ELV connectors are required in the elements so that Connections to Mechanical function will be able to find them.



roject filter:	All			`	View	s: 3D - All				* Z	oom Show Selec
evel filter:	All			`	¥						
pe filter:	All				~						
onnection iv											
Project	Level	Node Type	Symbol	Object ID	Power	Category	Host Type	System Type	Action	Apply	Messages
001-Mechani	cal Basement	PWR1 Connection node, load	P5		7 160 W	Air handling equipment	Future S18-L-V* Air handling unit	Power	Create	~	New
001-Mechani	cal Level 1	PWR1 Connection node, load	P5		1 920 W	Air handling equipment	Future S05-R-V* Air handling unit	Power	Create	~	New
001-Mechani	cal Level 2	PWR1 Connection node, load	P5		3 W	Air flow damper	VAV BASiQ-315 air volume measuring	Power	Create	~	New
01-Mechani	cal Level 2	PWR1 Connection node, load	P5		3 W	Air flow damper	VAV BASiQ-315 air volume measuring	Power	Create	~	New
001-Mechani	cal Basement	PWR1 Connection node, load	P5		2 W	Air flow damper	VAV BASiQ-200 air volume measuring	Power	Create	~	New
01-Mechani	cal Basement	PWR1 Connection node, load	P5		2 W	Air flow damper	VAV BASiQ-200 air volume measuring	Power	Create	~	New
001-Mechani	cal Level 2	PWR1 Connection node, load	P5		0 W	Gas device	GAS-STOVE Gas stove	Power	Create	~	New
001-Mechani	cal Level 2	PWR1 Connection node, load	P5		0 W	Gas device	GAS-STOVE Gas stove	Power	Create	~	New
001-Mechani	cal Basement	PWR1 Connection node, load	P5		7160 W	Air handling equipment	Future S18-L-V* Air handling unit	Power	Create	~	New
001-Mechani	cal Basement	PWR1 Connection node, load	P5		2 W	Air flow damper	VAV BASiQ-200 air volume measuring	Power	Create	~	New
001-Mechani	cal Basement	PWR1 Connection node, load	P5		2 W	Air flow damper	VAV BASiQ-200 air volume measuring	Power	Create	~	New
001-Mechani	cal Street lev	PWR1 Connection node, load	P5		0 W	Fan coil unit	BRE51 Smart Hidronic Water	Power	Create	~	New
001-Mechani	cal Street lev	PWR1 Connection node, load	P5		0 W	Fan coil unit	BRE51 Smart Hidronic Water	Power	Create	~	New
001-Mechani	cal Street lev	PWR1 Connection node, load	P5		0 W	Fan coil unit	BRE51 Smart Hidronic Water	Power	Create	~	New
001-Mechani	cal Street lev	PWR1 Connection node, load	P5		0 W	Fan coil unit	BRE51 Smart Hidronic Water	Power	Create	✓	New
001-Mechani	cal Street lev	PWR1 Connection node, load	P5		0 W	Fan coil unit	BRE51 Smart Hidronic Water	Power	Create	~	New

# Also, now you have be possibility to filter found nodes in the Manage Connections to Mechanical Objects window per project, level and type.

# Support for new family categories (Fire Protection, Audio Visual Devices, Nurse Call Devices)

The Revit categories: Fire Protection, Audio Visual Devices and Nurse Call Devices are now supported in MagiCAD.

When creating new products under Fire, Audio&video or Signal in MagiCAD, you can select these Revit categories to be used for them.

RFA in Revit project			
RFA name:	Flat-Monitor-Size-420001		
Category:	Communication devices		~
	Audio visual devices		
	Communication devices		
		ОК	Cancel



### Default ang2D into dataset

You can now define the default angle for 2D symbols in the dataset. It is used as default when placing new instances to the project.

2D Symbol			
Sele	ect	Update t	to project
dx2d:	0.0	dy2d:	0.0
ang2D:	0.0		
🗌 Adjust wire	to the edge of the	symbol	
2D RFA Crea		O Fixed size	
Scale factor			1.00
Keep text	s/labels readable		
Subcategory	:		

# Support for electrical calculations in Revit 2025

Calculation engine has been updated and now calculations work with Revit 2025. With the updated calculation engine, calculations work with older MagiCAD versions.

Localised calculation engines no longer work in Revit 2025 due to changes in Revit. You can make calculations with localised engines in Revit 2023 and Revit 2024, but the report function doesn't work with them.

# **1.5 Schematics**

# Mark Linked Symbols update

When using the "Mark Linked Objects" only the linked pair was highlighted even if the element belongs to a group. Now all elements in the symbol or device group will be marked to give better visual presentation of marked elements.

# 1.6 Supports & Hangers

# Support for Revit 2025

MagiCAD 2025 UR-1 Supports and Hangers module now supports Revit 2025.



# 2 Resolved issues

# 2.1 Common

# Change properties - Status doesn't work if you specify "Value from"

User was not able to change Status "Value from:" -field with Change Properties -tool.

# Segment override with primary mouse button on right -bug

Segment drawing override were causing secondary mouse button list to open if primary mouse button was on the right and user tried to draw segment from the connector.

### Clash checking not detecting soft clashes for fittings after Revit 22 version

Soft clashes for fittings were not found in real time or clash report in Revit 2023 and 2024 versions.

# Disable localized Whats New page support, only EN site supported

Due to help manuals in various languages not being available the "What's new"-link led to a "404 page not found" for many of the different language-versions. Because of this and to make it better maintained for now we do direct all language-versions to the English version of the "New features" from the "What's new"-link.

# 2.2 IFC-related

### IFC export fails on some elements

Corrected the problem when some elements could not be exported to IFC.

# Issue with photometric paramaters to IFC propertyset

Issue with photometric parameters not being exported to IFC. This has been corrected for these:

All	~		
Filter text			
Available parameters	^	Selected parameters	
ang2D		Initial Intensity	
Area		Luminous Flux	
Calculate Coefficient o		Luminous Intensity	
Category		Illuminance	
Category			
Circuit Number			

# Piping pressures corrections

It was noted that IFC files says that pressure is in "Pascal", but still pressure of pipes were exported as kPa. Now IFC Export uses "Pa" for pressure instead of "kPa".



### Ifc export slow on some projects

Additional improvements to the speed of IFC Export. Now improved speed when starting IFC Export in a view with lots of objects.

# 2.3 Ventilation and Piping

### Generic AHU connector issue

Some special dimensions of AHU were causing wrong position of duct connections

# Domestic water calculation with multiple heating plants doesn't work when connection node between models have been used

Domestic water calculation didn't work when network consisted more than one heating plant and heating plants were located in different .rvt files.

### **Standard Connection causes error**

Standard connection and device connection gave exception if fitting was used in selection and it didn't have same shaped connectors as its neighboring ducts.

### Unknown component type in sprinkler calculation

Sprinkler calculation gave "Unknown component type" error from a tap fitting.

### Radiator installation tool doesn't work properly in MC25

Radiator install tool connection location selections didn't appear with some of the radiators in MC25 version.

# 2.4 Electrical

# Wire type management changed properties of all selected rows automatically

When multi-selecting rows in Wire type management, some data were automatically unified to all of them. Now it doesn't change any data automatically.

# **Unexpected error with Hide Conduit**

When a conduit for some reason had been connected to a cable tray, and you tried to hide a part of that conduit with the Hide Conduit function, you got an unhandled exception error. This situation is now handled properly.

### Manage Links opened much slower if a switchboard schematic was in one model sheet

When opening Manage Links for the first time, it took a lot of time with larger switchboards. Now loading times are much faster.

# 2.5 Schematics

### Create ELV diagram and create distribution diagram lead to unexpected error

If there were unavailable styles or line styles in the project, schematic creation functions might gave unexpected error. Unavailable styles and line styles are now filtered out from schematic creation functions.



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# Update to project for schematic symbols freezes/crashes Revit

Revit crashed after using "Update to project" with schematic 2D symbols in dataset.