MagiCAD for Revit

Release notes for version 2025 UR-2

07/02/2025

MagiCAD

MagiCAD

Content

1   New features

1.1   Common

Data location change from Project information element to feature specific data storage element
Tool related settings are now stored to tool specific data storage element rather than project information element. This helps that different features are less likely to be locked for other users in worksharing environment, since tools are not anymore using same project information element to store settings.

Duct, pipe, cable tray, conduit and insulation series information max character amount changes
Extended character amount of information fields to 200 with pipe, duct, cable tray and conduit series as well as with insulation series.

1.2   Ventilation and Piping

Sizing method text added to UNE & DTU standard general results
Added sizing method text to UNE & DTU standards general results in case UNE or DTU standard is used and standard based sizing is overridden.

1.3   Electrical

Allowing snapping to workplane grid in wire drawing
You can now use Revit's own snap options when using wire tool. Snap can be configured from Manage tab's Snap function.

2 Resolved issues

2.1 Common

Families without any visible geometry/lines in coarse mode acts strange in Legend
Legend table was misplaced due to lack of geometry in elements, for example connection nodes in coarse mode.

Parameter fetching fails to get all parameters to lists
Some parameters were not collected to the lists so that they could be used.

National Classification Codes: list view dialog
Wrong national classification list was shown if national classification was tried to define from the dataset list column rather than opening the series window and defining national classification from there.

Start draw from segment connector exception
Starting draw from a segment connector gave exception if the segment didn't have a system.

Provision for Builderswork automatic placement exception
Provision for Builderswork automatic placement gave exception if project had same named family than the tool would use for elements.

Standard Connection / Device Connection exception if fitting does not have connectors
Standard Connection and Device Connection gave exception if fitting which does not have connectors was selected. Now faulty fittings cannot be selected.

Direct shape in project causes exception
Set IFC Type" and "Set Descriptions" were causing exception if direct shape element was present in the project.

Revit crashes during Clash Detection
Revit crashed when Clash Detection was run on domestic water and drainage within a combined view.

"MC Summarized Piping Power" parameter had an extra space after the parameter name
The extra space in the name of the shared parameter "MC Summarized Piping Power" has been removed.

**Create similar exception magiPartTypeId**
Create Similar gave exception if some dummy magiPartTypeId was given to a product. Now notification is given instead.

Create similar exception magiProductId
Create Similar gave exception if magiProductId paramater was removed or modified. Now notification is given instead.

Standard Connection/Device Connection, Smart Component Installation and Split Segments exception

Some tools gave exception if user was trying to use it to a duct which had tap connected in a following way, see a picture. Issue was occurring if red colored part contained union, plug or elbow and then Standard Connection, Device Connection, Smart Component Installation or Split Segments was used in green colored part.
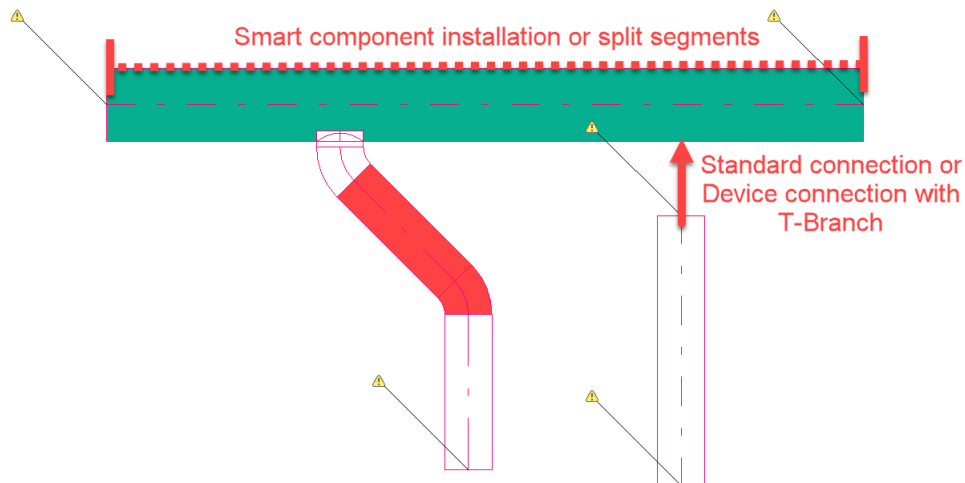
Copy spaces from IFC does not recognize all existing spaces

Some spaces were not recognized if Project Wizard copy spaces tool was used second time with the same IFC file.

Project wizard crashes Revit if taking spaces from IFC

Project Wizard crashed Revit after taking spaces from IFC. This was caused by the points which are used from the IFC model to generate a new space model out of it but points were too close to each others which led into a crash.

Fatal error when checking the dataset writing permission

Fatal error happened in certain scenarios in worksharing environment when dataset content was opened.

Error message dialog cannot be closed

Error message dialog could not be closed in dataset properties dialog after using Update 2D symbols to project. Error message was moved behind install product dialog which prevented proceeding or canceling the current action.

Selection Filter gives Oops error

Selection Filter tool gave exception if tool was used for pre-selected objects and then parameters were added and removed in the dialog. After adding and removing parameters Selection Filter dialog was closed with cancel. If user tried to open Selection Filter tool after this, it gave an exception.

Find & Replace causes the creation of the Operation area inside the sprinkler head families

Find & Replace tool created operation area inside the family instead of an external line. In these cases, the "Show/Hide Operation Area" tool was not working.

Linked properties not shown for radiator instances in project

Linked Properties tool didn't work with radiators.
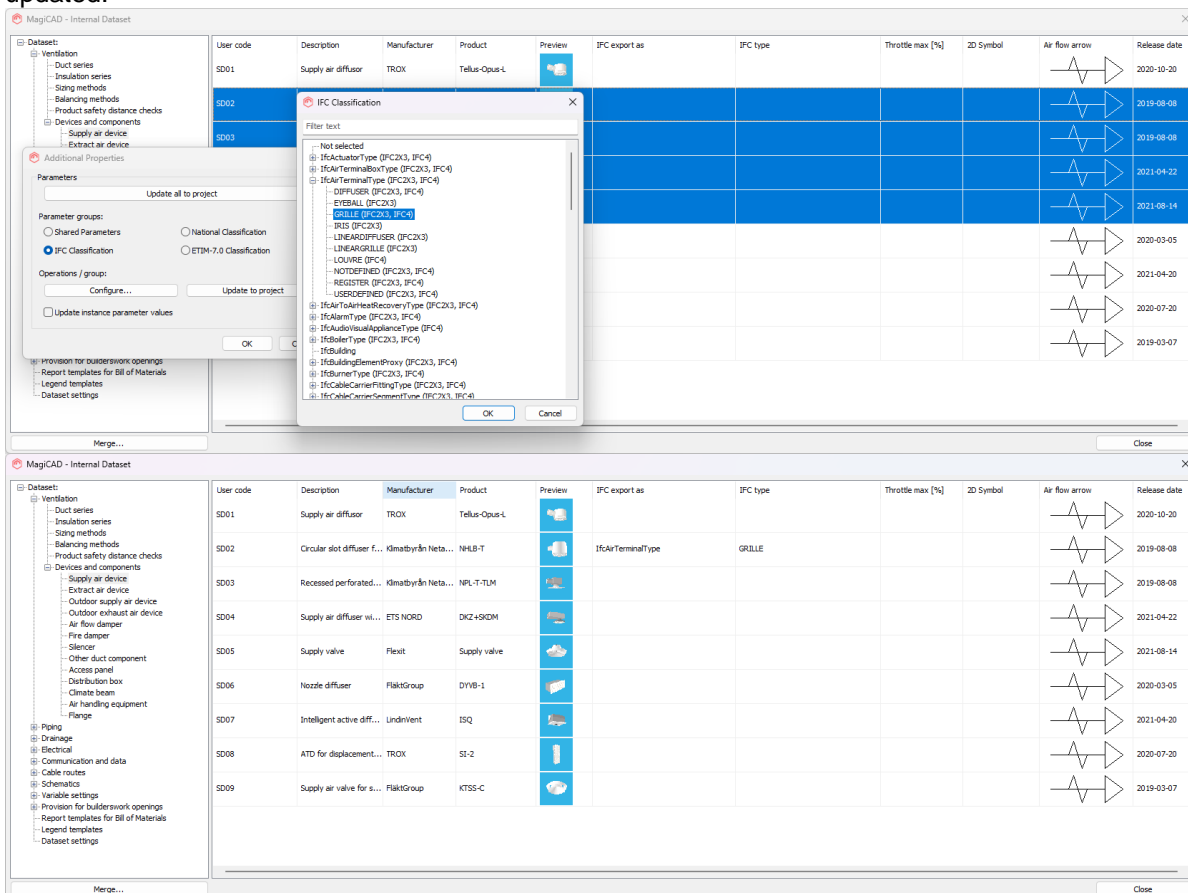
2.2 IFC-related

IFC Export's "Append to existing file"-option didn't work

Appending to an existing IFC file didn't work in the IFC Export. This has now been corrected.
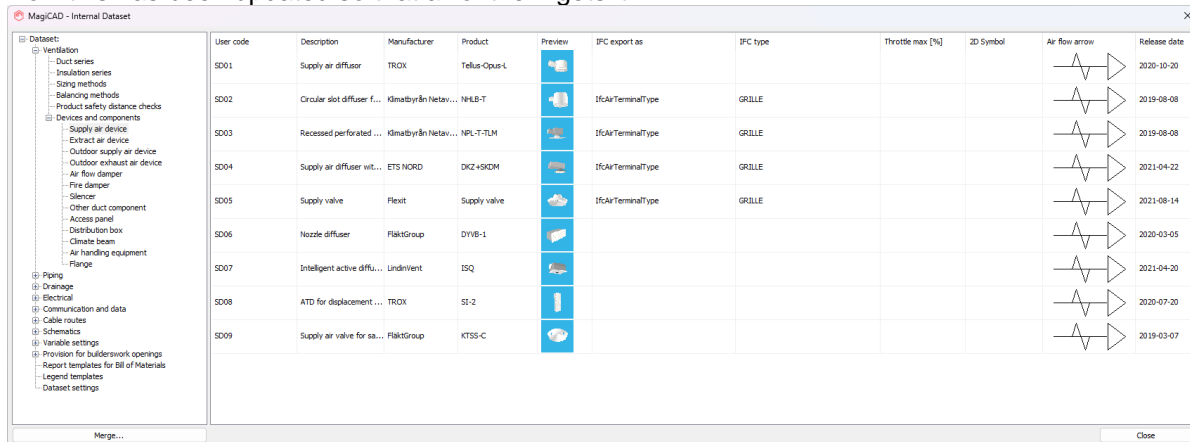
**Additional Properties: IFC classification**

Earlier when selecting multiple products, right clicking and selecting Addtional properties, and selecting an IFC Classification for them all, only the first one on the selected list got the information updated:

Now this has been updated so that all of them gets it:

Flex pipe ifc export

Flex pipes with single line in 3D view will ended up very far away from the original location when exported to IFC. This was due to elements using polyline-geometry getting the wrong elevation in the export.

Weird flex-pipes

Now flexible ducts or pipes are not exported to IFC if they do not have face geometry.

2.3   Ventilation and Piping

Change properties, Duct series

Many of the change properties duct series changing function issues has been corrected.

Collar length adjustments missing from air terminal installation

In some situations collar length options were not visible in installation toolbar.

Production model updater exception with schedule view

Exception was given if Production Model Updater was used in a view which was not showing all the parts of the network and user had schedule view opened as well which contained elements from that network. If user then highlighted elements from a Production Model Updater report which were only visible in opened schedule view, then it threw exception.

Convert to flex bugs

Following issues are now handled:

- If there was a reducer at end of the conversion it used too long flex pipe for connection in some cases.
- Visual bug when connecting flex to T-Branch, then T-Branch size looked like it was disconnected from the pipe even though it was not.
- Added warning if there are taps connected to a pipe which is about to be converted.

Flow arrows pointing the wrong direction at the end of duct installation

Some supply air devices flow arrows were pointing wrong direction.

Support for unions which connectors are same location
Corrected some issues with "Duct to union"-tool and "Smart Product Lock"-tool when union was used which had connectors on the same location. Corrections were made also for segment drawing when draw was started from fitting end and unions which had connectors on same location were involved.

Valve selection cancels radiator installation
Product installation floating toolbar closed unexpectedly when valves were selected to a radiator which were not yet installed into the project.

VICTAULIC FIRELOCK ALARM CHECK VALVE SERIES 751 causes a calculation error
Victaulic firelock alarm check valve caused a calculation error. Other valve's actuator type is now limited to "Swinging" and to "Mushroom".

Flange is not added to drawing after calculation
Flange was causing sizing issues. Flange size is now taken from a neighbor pipe.

Bug with Report columns modification
Changes to calculation report column order was only taken into account if the calculation was updated to the model. Now changes to column order stays when modified.

Production model updater exception when duct doesn't have a system
Production Model Updater gave exception if duct didn't contain a system.

Production model updater exception when network contains Generic Model category product
Product Model Updater gave exception if network contained Generic Model category product. Now user is reported with error message "Product is not supported.".

Flow values for washbasin in Italian UNI 9182 standard should be updated
Updated domestic water devices default value to 0.1l/s for hot and cold water when "Washbasin" is selected from "Outlet fitting/Appliance" drop down list and UNI9182 standard is in use.

Locked size is not inherited as a minimum size over the branch
Locked size was not taken into account with sizing if there was different pipe serie over the T-branch.

Standard connection swaps width and height
Standard connection swapped width and height when it created vertical duct connection. This happened if two ducts were perpendicular to each other and on different elevation. Then ducts were connected together with 90 degree angle from above or below the duct. This is now corrected so that width and height works similar way as normal duct draw function when ducts are connected together.

Domestic water device not using connection direction from dataset
Domestic water device connection direction was not taken from the dataset when using product installation dialog. "Hot pipe left" option was corrected to work similar way as connection direction. Now both are taken from the dataset.

Create similar opens wrong installation dialog for DW devices
Using create similar identified product incorrectly.

MagiCAD calculates pipe sizes incorrectly in certain cases
Calculation used device connection size as minimum size towards network root point even though pipe series which was connected to device had only size which was smaller than device connection size. Now if pipe series only has sizes which are smaller than device connection size, then calculated minimum size towards network root point is not device connection size.

2.4 Electrical

Symbol attributes in fixed size symbols
If text inside a 2D symbol was in some other orientation than horizontal, it became horizontal when the symbol was installed. Now texts follow the defined orientation in the symbols.

Unnecessary / unknown error message when selecting a converted symbol for a switchboard
When using converted 2D symbol for a switchboard, an error came from value range, product installation worked still. Now we have fixed the error and it no longer appears.

Switchboard schematic numbering issue
When renumbering circuits in switchboard schematics, MC counted current numbers as used even when the circuit was selected in the change. Now when renumbering, numbers of selected circuits will be considered as free and their numbers can be assigned to other circuits.

Switchboard schematic other than power system insert issue
When having switchboard schematic in other system than power, inserting circuits in Manage circuits gave unexpected error. Now also insert function works with non-power system switchboards schematics.

Symbol attributes weren't updated to switchboards
BC attribute in switchboard 2D symbols didn't work. Now the value updates correctly from the panel name parameter.

Regen Schematics overwrites data in MC Schematics on spares/spaces
When adding new spare/space into switchboard schematic above older ones using Revit schedule and running Regen schematics function, the data manually written to the spare/space circuits were not moved as they should have been. Now also manually written data is moved with the corresponding circuit.
Also parameter values will be copied to known parameters in spare/space circuits in the schematic.

BA - Update symbols error
When changing 2D symbol in the dataset to a BA product which is already installed to the project and then updating the symbol using "Update to project" button, an error came.
Now symbol is update correctly also to BA products.

Need to run UP twice for Generic model symbol instance attribute values
When running Update Parameters, all parameters are now correctly updated in the first update.

F&R doesn't work with switchboards properly
When using Find & Replace to change switchboard family to another, Revit gave an error that distribution system is invalid. Now F&R works properly with switchboards.

Manage Connections to Mechanical Objects dialog doesn´t follow cancelling Revit dialog changes.
If in the middle of updating Connections to Mechanical Objects there comes Revit's cancelling dialog and you press cancel, all changes to connection nodes from that update will be cancelled.

Revit get stuck if you set Length dimension snap increment to 0 in Wire Options and change to Snap option to length snap.
In Wire tool settings, if you defined length snap value to 0 and changed snap option to length snap, Revit got stuck. Now it is not possible to insert value 0 to snap options.

Create Printouts bugs
If you have drawn lines in the model switchboard schematic which will go from page to another in printouts, modifying those lines and recreating printouts didn't always update all those lines.
Now all drawn detail lines are updated correctly in printouts.

Too many decimals for the switchboard's Voltage in the exported XML file
The amount of decimals of Voltage parameter in exported xml file have been rounded based on settings in Project Units.

Read-only parameters create exception when removing links in switchboard schematics
If switchboard schematic data block had read-only parameters, it created an exception. Now read-only parameters are ignored.

Exception when drawing a loop
When making a loop with the wire you are drawing or connecting to the same connector, you will now get a warning instead of an exception which came before.

Exception with Wire tool
If you have a wire which is polyline in geometry, this can be done with chamfer wire type and orthogonal automatic offset wire routing, continuing that wire with wire tool or using create similar no longer creates an exception.

Wire type management, no material crash
If for some reason, some wire type didn't have material, it caused wire type management to crash. This has been fixed.

2.5 Supports & Hangers

S&H Calculation dialog correction
Supports & Hangers calculation dialog was not working.