

hylasFM 7 – What's new?

The new hylasFM version 7.0 contains numerous innovations and improvements. The following improvements seemed to be of general importance to us and will therefore be described in more detail on the following pages.

At first an overview on the important innovations:

- Compatibility to AutoCAD 2011 and AutoCAD LT2011
- Visualization with transparent area fillings
- New attribute type "DATE" for the comfortable recording of time specifications
- Measuring area polygons:
 - Basic improvement of the "Inner point" function
 - More options for the automatic linking of laminar objects
- Structure definition:
 - Color specifications are possible for all layer definitions
 - Sorting of the attributes within the structure definition
 - Comprehensible terms for the data types of the attributes
- Data export:
 - direct Excel export of the data tables
 - Block export with more setting options
- Defined performance for drawings with inserted XREFs
- Miscellaneous

The new developments in detail

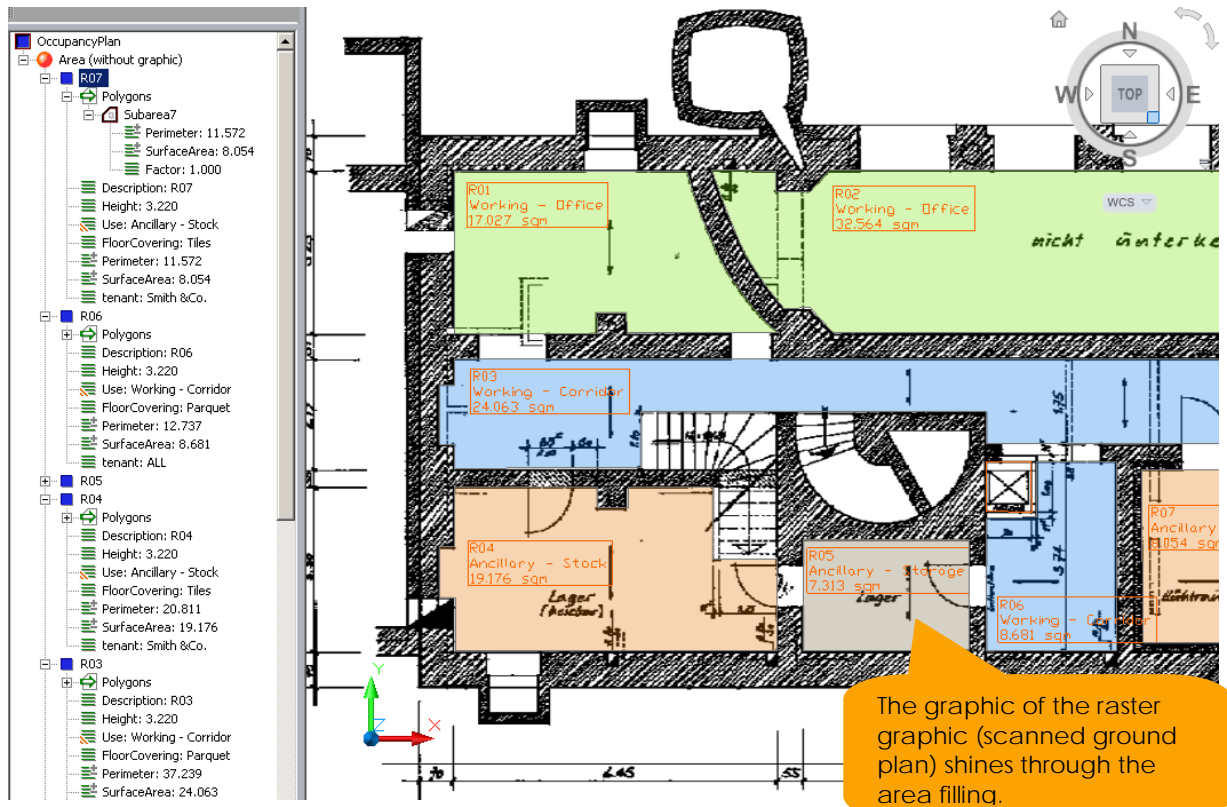
Compatibility to AutoCAD 2011 and AutoCAD LT 2011

The current version is compatible to all 32-bit and 64-bit versions of the Microsoft operating systems Windows 7, Vista as well as XP. The new AutoCAD versions 2011 and LT 2011 as well as all Autodesk products basing on AutoCAD 2011 like AutoCAD Architecture 2011 or AutoCAD Civil 3D 2011 are supported. But the new version may also be implemented into older AutoCAD versions (starting from AutoCAD 2007 or LT 2007). If hylasFM is to be used with even older versions of AutoCAD an older version can be provided.

Visualization with transparent area fillings

With a hylasFM visualization it is possible to display the graphic, belonging to the objects, differently within the drawing, according to the attribute values. You may for example color the room areas differently according to the type of use. The possibility

to color an area transparent is new. That way you will be able to see the subjacent objects, with the set intensity underneath the hatching. This is especially helpful, when photos or other raster images are being used as drawing basis (e.g. when overdrawing scanned ground plans).



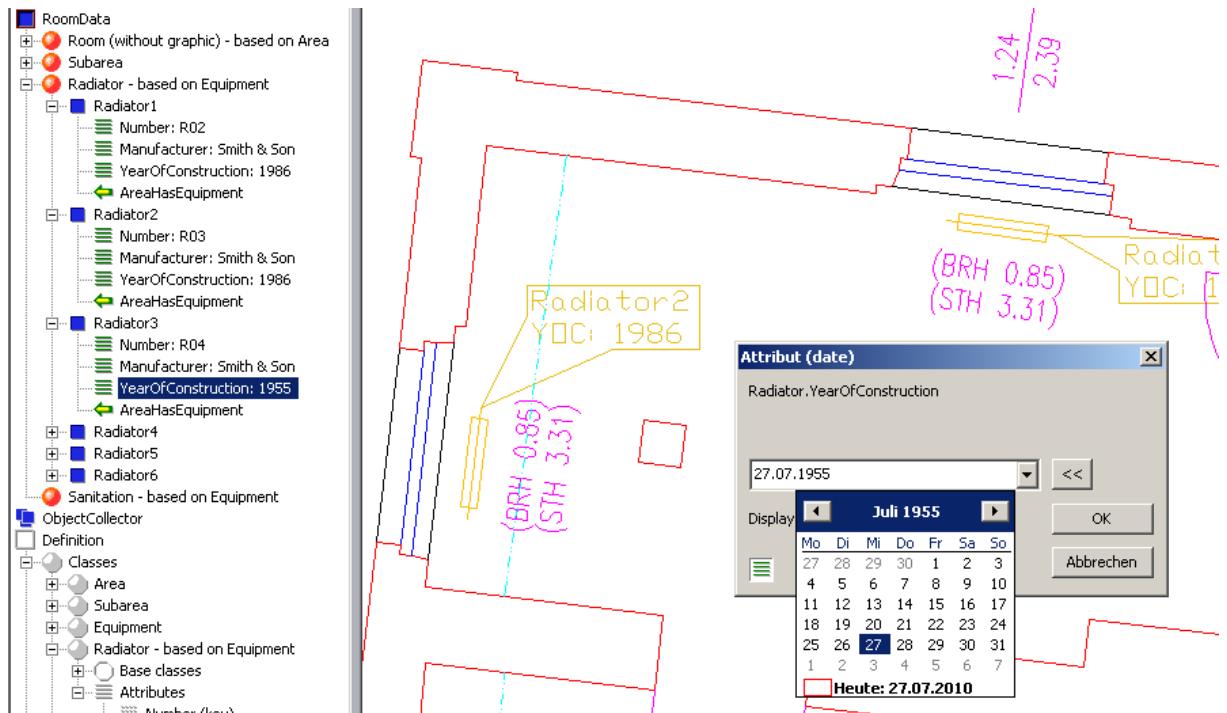
There are two basic options for the transparent hatchings:

Starting with AutoCAD 2011 regular AutoCAD area hatchings can be set to "transparent". With this it is possible to use the existing visualization type "area" for hylasFM visualizations.

For all other AutoCAD versions the new hylasFM visualization type "Material" is available. A material will be assigned to the area to be visualized. This material consists of a transparent color filling. The result is the same: The background is visible through the filling. Furthermore the material visualization can be used to fill an area with any self defined hatching pattern.

New attribute type "Date"

If temporal information is to be saved for an object, for example the year of construction of a radiator or the date of the data collection, this can be realized via the new "Date" attributes. The user may fill in the date via the calendar or have the current date entered automatically. You may define the format of the time entry freely (e.g. 3. May 2010 or 2010-05-03)

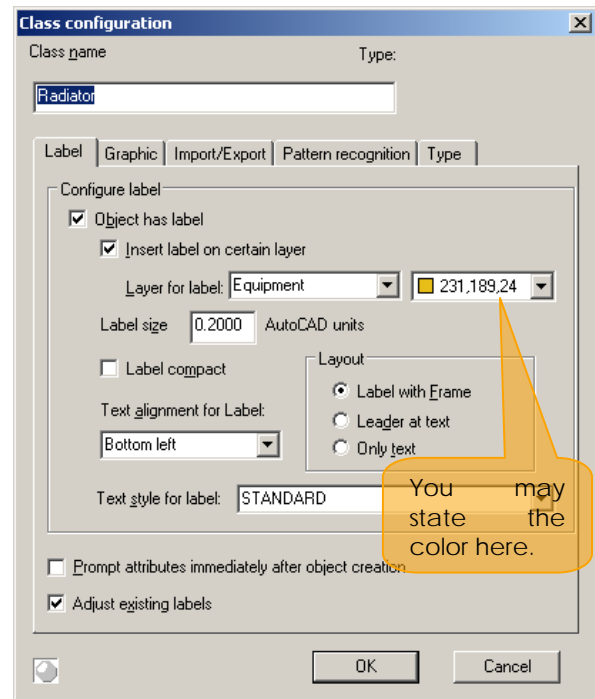


Improved measurement of area polygons

- hylasFM includes the comfortable function "**Inner point**" for the automatic detection of closed polygons within line drawings. Sometimes this function reached its limits for very complex geometries or special geometric situations and hylasFM could not find a closed outline. Therefore the algorithm for the outline detection has been **completely revised**, so that the "Inner point" function is more dependable now.
- The following is a popular application of hylasFM: When you are measuring different **area objects** an **automatic link** will be set up if the polyline of an A-class object is lying within the polyline of a B-class object. The floor covering is, for example, to be assigned automatically to the room if it is lying within the room polygon. With the new option for the statement of the minimum requirements it is now possible to decide on the following: Has polygon A to be completely inside of polygon B in order to be linked to it or is it enough if polygon A and polygon B touch?

Further possibilities when defining a structure

- When defining new classes layer names can be stated – this was already possible – on which the objects of the class are to be placed during the recording. It is now possible to assign a layer color right away. So far, for new layers, this had to be done afterwards within the layer manager. By default hylasFM provides a new (not yet used) color for the layer, so the result will be an acceptable graphic even without user statements.

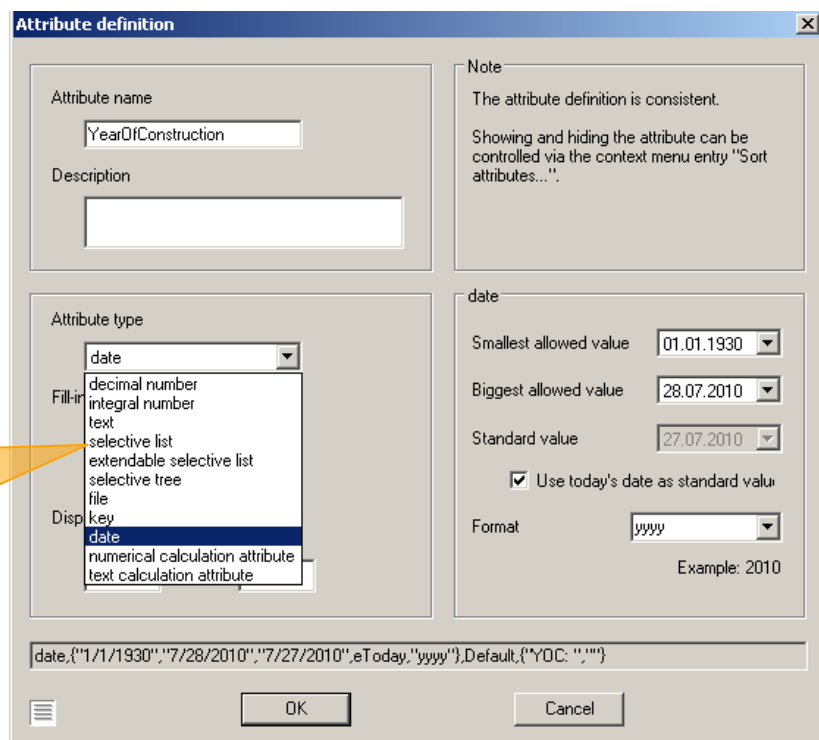


- It is now possible to sort data not only within the upper data part of the structure but independently also within the definition part of the structure. It is therefore easier to keep track when defining complex structures.

More comprehensible terms for the attribute types

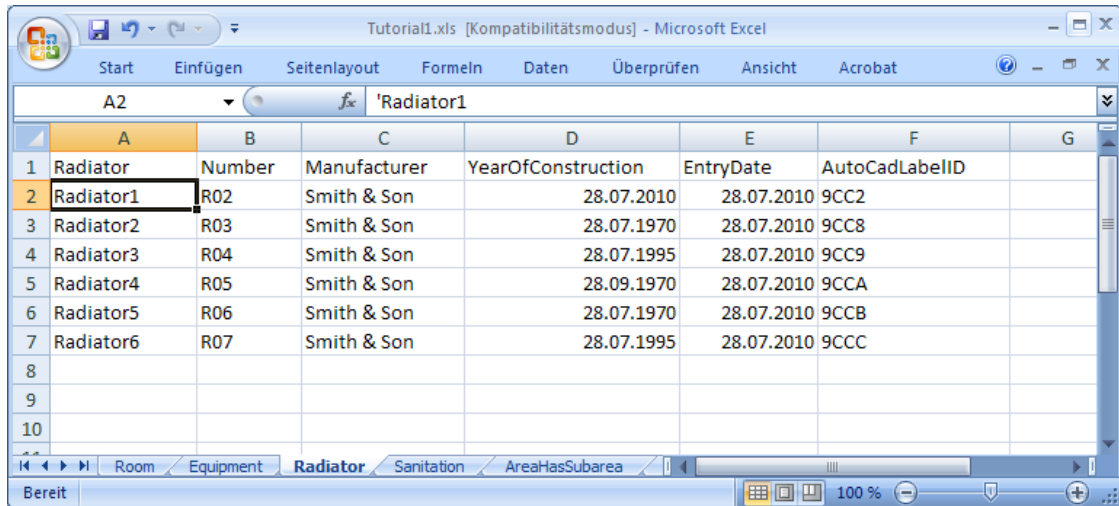
In terms of user friendliness the attribute types now have generally understandable names.

For instance the former 'ENUM'-attribute is called 'selective list' now.



Data export with more possibilities and options

- The table export to MS Excel does not have to be done via ASCII tables any more, but can be done directly. XLS files can now be generated for the export of single classes as well as for the complete-export. For the complete-export one single Excel file will be generated where the single tables will be separated into individual sheets.



The screenshot shows a Microsoft Excel spreadsheet titled 'Tutorial1.xls [Kompatibilitätsmodus] - Microsoft Excel'. The spreadsheet contains a table with the following data:

	A	B	C	D	E	F	G
1	Radiator	Number	Manufacturer	YearOfConstruction	EntryDate	AutoCadLabelID	
2	Radiator1	R02	Smith & Son	28.07.2010	28.07.2010	9CC2	
3	Radiator2	R03	Smith & Son	28.07.1970	28.07.2010	9CC8	
4	Radiator3	R04	Smith & Son	28.07.1995	28.07.2010	9CC9	
5	Radiator4	R05	Smith & Son	28.09.1970	28.07.2010	9CCA	
6	Radiator5	R06	Smith & Son	28.07.1970	28.07.2010	9CCB	
7	Radiator6	R07	Smith & Son	28.07.1995	28.07.2010	9CCC	
8							
9							
10							

- For the **block export** it is now possible to state whether **pre or suffixes** of attributes are to be written into the block. Until now these were always exported too.

Drawings with inserted XREFs

If, via the AutoCAD XREF function, a drawing containing hylasFM data is referenced into another drawing, the hylasFM data will still be valid. The labels can be viewed, but you don't have access to the structure data. If, via "Bind", the objects from the referenced drawing are permanently inserted into the master drawing, all hylasFM data as well as the structure will be inserted into the master drawing.

It is easy to gather data from several files into one master file with this function.

Other improvements

- If a layer is blocked for the label of a class, a label will be generated anyway when generating a new object of this class. The layer remains blocked. So far an object without label was generated in this situation.
- If a polyline is deleted, which belongs to a hylasFM curve object, a warning will appear. This way it is guaranteed, that this won't happen accidentally.
- Within the file selection window the path for the appropriate AutoCAD drawing (the current DWG) is now preset for the data export.

How to test hylasFM 7?

Users of a former version can install hylasFM 7 and test it without obligation during a few AutoCAD sessions. We will be pleased to issue an offer for the update of your current version. Users with a service contract will receive the new version free of charge.

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