

reviTTools

www.revITTools.info

Documentation

v2.0.0

Content

| | | |
|-------|------------------------------------------------------------------------------------------------------|----|
| 1 | Overview | 4 |
| 1.1 | reviTTools | 4 |
| 1.1.1 | Schedule and tag real from/to room properties of doors | 4 |
| 1.1.2 | Schedule real door swing property | 5 |
| 1.1.3 | Count elements | 5 |
| 1.1.4 | Manage imported DWGs | 6 |
| 1.1.5 | Element properties | 6 |
| 1.1.6 | One-click direct export to Excel | 6 |
| 1.1.7 | Transfer any room parameters to belongings door | 7 |
| 2 | Installation | 8 |
| 3 | Update | 9 |
| 4 | Schedule and tag real from/to room properties of doors | 10 |
| 4.1 | reviTTools - Create shared parameter | 10 |
| 4.2 | reviTTools - Update [Door] properties | 10 |
| 4.3 | Create the Door Tag including real from/to room properties | 10 |
| 4.4 | Create the Door Schedule including real from/to room properties | 11 |
| 5 | Schedule real door swing property | 12 |
| 5.1 | reviTTools - Create shared parameter | 12 |
| 5.2 | reviTTools - Update [Door] properties | 12 |
| 5.3 | Create the SwingName project parameters for doors | 13 |
| 5.4 | Create a Door Schedule with Swing property | 13 |
| 5.5 | Update RT_Reversed parameter | 14 |
| 6 | Schedule+Tag+Update real door swing property (within the door family, using reviTTools_Settings.xml) | 15 |
| 6.1 | Prepare reviTTools_Settings.xml file | 15 |
| 6.2 | Create project parameters for doors | 15 |
| 6.3 | Create a Door Schedule with Swing property | 16 |
| 6.4 | Update door parameters | 16 |
| 7 | Comments | 17 |
| 7.1 | Release notes | 17 |
| 7.2 | Demo limitation | 17 |

| | | |
|-----|-------------------|----|
| 7.3 | No warranty | 17 |
| 7.4 | Language editions | 17 |
| 7.5 | Limitations | 17 |

1 Overview

This documentation explains the advantages and usage of reviTTools. It covers following parts:

- Schedule and tag real from/to room properties of doors
- Schedule real door swing property
- And a short overview about all other functions

1.1 reviTTools

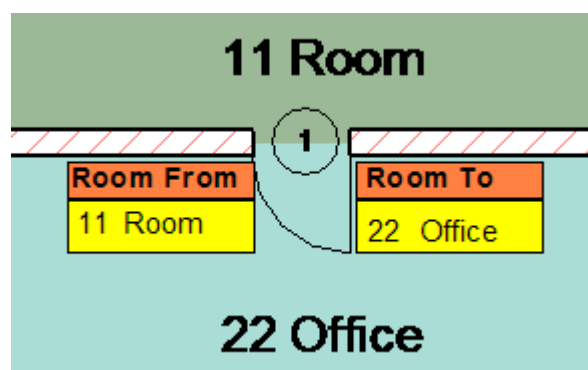
With reviTTools you can expand the brilliant functionality possibilities of *Revit Architecture*, *Revit Structure* or *Revit MEP* software products. These new capabilities fitting to the integrated BIM philosophy **will speed up** your daily tedious tasks and will allow you to **have less errors**.



reviTTools Toolbar

1.1.1 Schedule and tag real from/to room properties of doors

With reviTTools you can featly read the **real from room and to room properties of doors** and automatically update your door schedules and door tags with these values. In the door schedules you can list and group your doors even by room category.



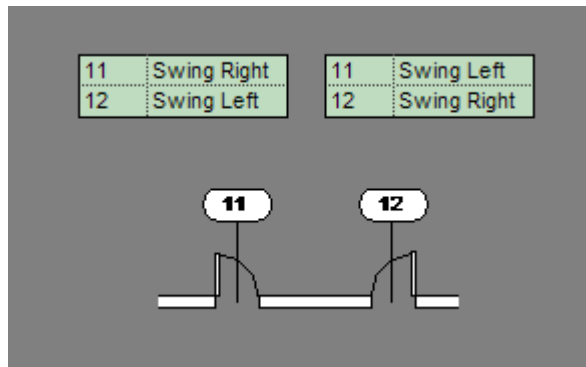
Real from/to room properties of doors created by reviTTools even when doors are flipped, mirrored...

These properties can be based on your own national standards or project standards, independently from how "from" and "to" parameters have been defined.

The parameters are ready for ODBC export.

1.1.2 Schedule real door swing property

With reviTTools you can simply read the **real door swing** property and automatically update your door schedules with door swing property like "Left opening", "Right opening".



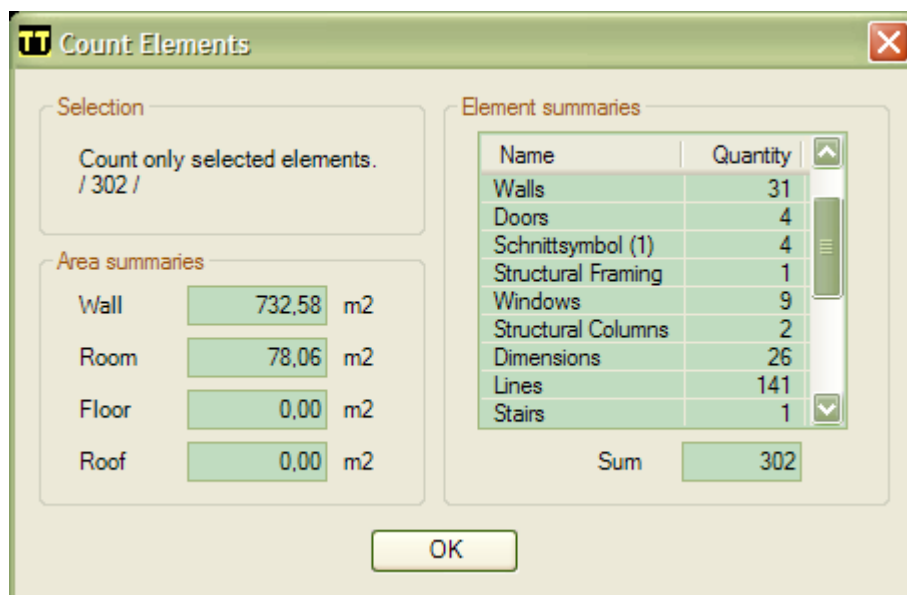
Real door swing property of doors created by reviTTools even when doors are flipped, mirrored...

These properties can be based on your own national standards or project standards, independently from how "left" and "right" parameters have been defined.

The parameters are ready for ODBC export.

1.1.3 Count elements

With reviTTools you can easy **count** selected/all elements and **summarize** areas for walls, rooms, floors and roofs.

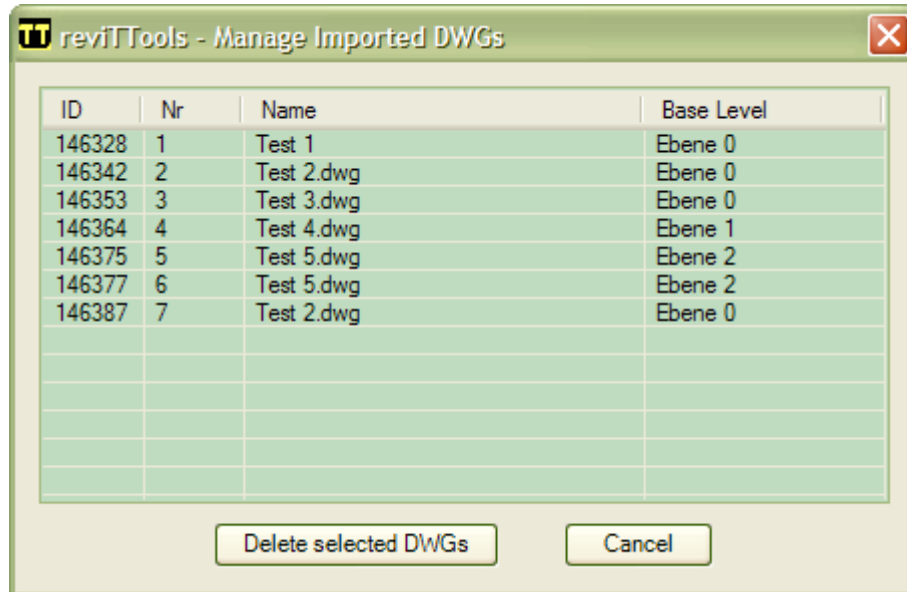


Selected elements counted by reviTTools

Area summaries are based on your project unit standards, showing m² or ft² values.

1.1.4 Manage imported DWGs

With reviTTools you can easy **manage imported DWGs**.



Manage imported DWGs with reviTTools

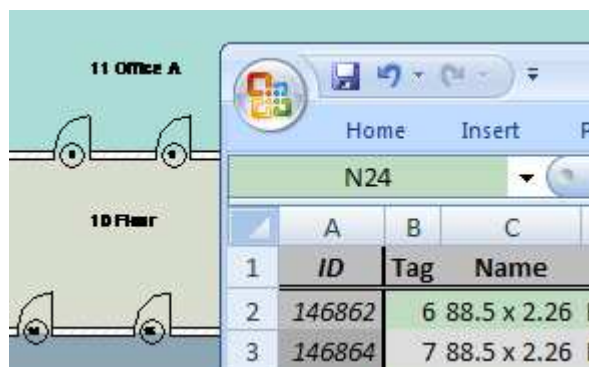
It is simple to delete all DWGs independently if the DWG was imported or linked.

1.1.5 Element properties

With reviTTools you can easy **show** element properties.

1.1.6 One-click direct export to Excel

With reviTTools you can **export** door and room information with one single click to **Excel**. Particular csv export and conversation are not required. All values are formatted correctly.



One click export to Excel by reviTTools

Even if new parameters are added, in Excel all values will be automatically correct formatted.

1.1.7 Transfer any room parameters to belongings door

With reviTTools you can easy **transfer** any **room parameters** to belongings **door**.

```

 9 <reviTTools_Settings>
10   <Info Version="1.0"/>
11   <UpdateParameter>
12     <UpdateParameter_Door Paramet
13     <UpdateParameter_Door Paramet
14     <UpdateParameter_Door Paramet
15   </UpdateParameter>
16 </reviTTools_Settings>

```

You can simple customize the xml settings file of reviTTools

With a simple customized xml setting file you can define which room parameters would you transfer automatically to belongings door.

You can transfer more room parameters to the same door parameter with different prefix and suffix.

2 Installation

reviTTools can be installed with following steps.

1. Download the latest reviTTools build from www.revITTools.info
2. Run the reviTTools_2008_x.x.x_xx.exe file. It will extract all files to following directory: `C:\<Program Files>\reviTTools`
3. Look for your `<REVIT>\Program\Revit.ini` file. *Where <REVIT> is the location of your Revit installation, like `C:\Program Files\Revit Architecture 2008`*
4. Make a backup of your Revit.ini file.
5. Open your Revit.ini file.
6. Look for a section, called `[ExternalApplications]`
If the section doesn't exist, please go to the end of the file and create it.
7. In the `[ExternalApplications]` section, add following lines. *Where <PATH TO reviTTools> is the location of the reviTTools directory, like: `C:\Program Files\reviTTools`*

```

;-----
; To bind reviTTools please add these lines to your Revit.ini file.
; For more information please visit: www.revITTools.info
;
[ExternalApplications]

EACount=1

EAName1      = reviTTools
EADescription1 = Show reviTTools!
EAClassName1 = reviTTools.Toolbar
EAAssembly1  = <PATH TO reviTTools>\reviTTools.dll
;-----

```

PLEASE NOTE

If the `[ExternalApplications]` section doesn't exist...

- Please go to the end of the file and create it.
- It doesn't matter if you use empty lines in the file.
- It doesn't matter if you use lines started with `;` symbol. (These lines are not considered.)

If you have already `[ExternalApplications]` section...

- You should change EACount to the next highest number.
- Copy above lines to the end of the section.
- Use the numbers consistent to AECCount in EAName, EADescription, EAClassName and EAAssembly keywords.

3 Update

If there is a newer reviTTools build available on our homepage: www.revITTools.info simple download it and install to the SAME directory where you installed reviTTools before.

If you use the SAME directory, no other action is required. After starting Revit you will automatically use the latest reviTTools version with all newly added functions.

If you use other directory where you installed reviTTools before, please edit the Revit.ini file accordingly as you did it during the normal install process.

4 Schedule and tag real from/to room properties of doors

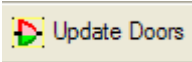
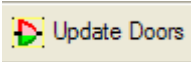
This chapter describes how to schedule and tag real from/to room properties of doors.

For better understanding please start Revit and create a new project first.

4.1 revitTools - Create shared parameter

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Start Revit • File / New / Project... • revitTools / Create shared parameter • Parameters are created | <ul style="list-style-type: none"> • Revit starten • Datei / Neu / Projekt... • revitTools / Create shared parameter • Parameter sind erstellt |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

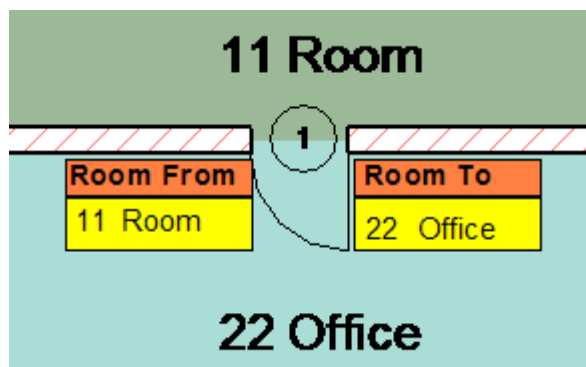
4.2 revitTools - Update [Door] properties

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • revitTools / Update [Door] properties <p>OR</p> <ul style="list-style-type: none"> • Click the icon:  | <ul style="list-style-type: none"> • revitTools / Update [Door] properties <p>ODER</p> <p>Ikon nutzen: </p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

4.3 Create the Door Tag including real from/to room properties

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • File / New / Family... / Annotations / Door Tag.rft • Add a Label / Click Add / Select Shared Parameter • Select parameters as required • Format the tag as required | <ul style="list-style-type: none"> • Datei / Neu / Familie... / Beschriftungen / Türbeschriftung.rft • Beschriftung einfügen / Hinzufügen anklicken / Gemeinsam genutzter Parameter Auswählen • Gewünschte Parameter auswählen • Beschriftung formatieren |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

You get a Door Tag like this:

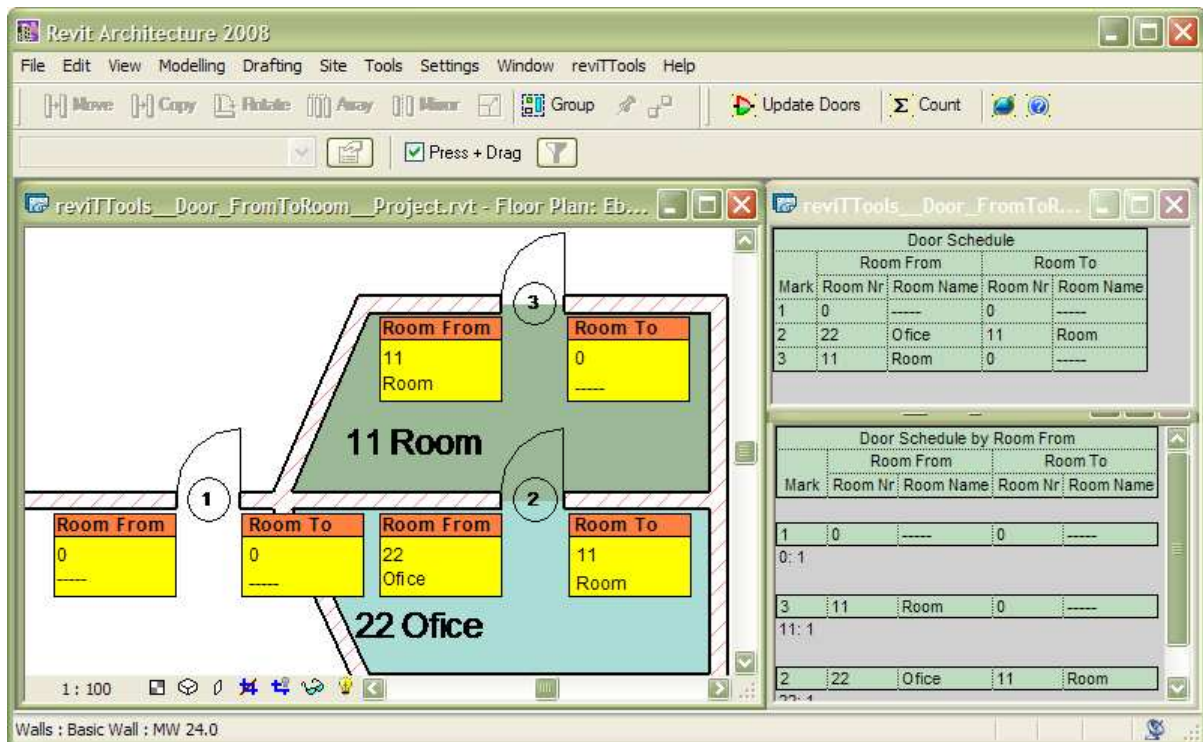


Door Tag

4.4 Create the Door Schedule including real from/to room properties

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • View / New / Schedule • Category: <i>Doors</i> • OK • Add following parameters: <i>Mark,</i> <i>RT_RoomA_Number, RT_RoomA_Name</i> <i>RT_RoomB_Number, RT_RoomB_Name</i> | <ul style="list-style-type: none"> • Ansicht / Neu / Bauteilliste • Kategorie: <i>Türen</i> • OK • Felder hinzufügen: <i>Mark,</i> <i>RT_RoomA_Number, RT_RoomA_Name</i> <i>RT_RoomB_Number, RT_RoomB_Name</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

You get a Door Schedule like this:



Door schedule

5 Schedule real door swing property

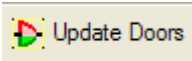
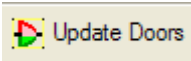
This chapter describes how to schedule real door swing property based on RT Reversed parameter.

For better understanding please start Revit and create a new project first.

5.1 reviTTools - Create shared parameter

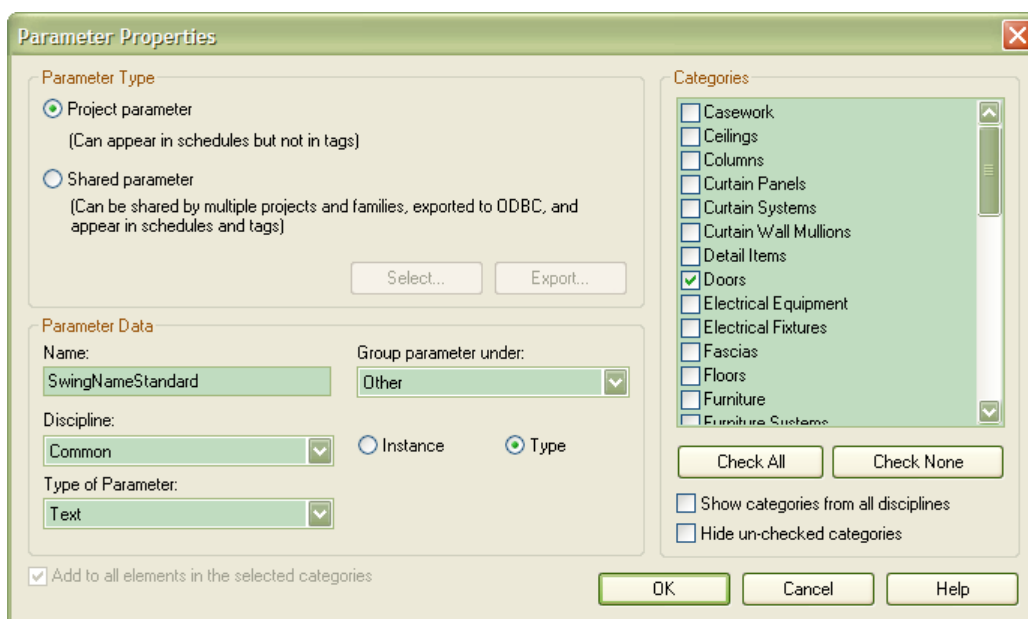
| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Start Revit • File / New / Project... • reviTTools / Create shared parameter • Parameters are created | <ul style="list-style-type: none"> • Revit starten • Datei / Neu / Projekt... • reviTTools / Create shared parameter • Parameter sind erstellt |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5.2 reviTTools - Update [Door] properties

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • reviTTools / Update [Door] properties <p>OR</p> <ul style="list-style-type: none"> • Click the icon:  | <ul style="list-style-type: none"> • reviTTools / Update [Door] properties <p>ODER</p> <p>Ikon nutzen: </p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

5.3 Create the SwingName project parameters for doors

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Settings / Project Parameters... • Add... Parameter Type: <i>Project Parameter</i> Categories: <i>Doors</i> Name: <i>SwingNameStandard</i> Discipline: <i>Common, Type</i> Type: <i>Text</i> • OK • Add... Name: <i>SwingNameReversed</i> And other settings as above. | <ul style="list-style-type: none"> • Einstellungen / Projektparameter... • Hinzufügen... Parametertyp: <i>Projektparameter</i> Kategorien: <i>Türen</i> Name: <i>SwingNameStandard</i> Disziplin: <i>Allgemein, Typ</i> Parametertyp: <i>Text</i> • OK • Hinzufügen... Name: <i>SwingNameReversed</i> Sonstige Einstellungen wie oben. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



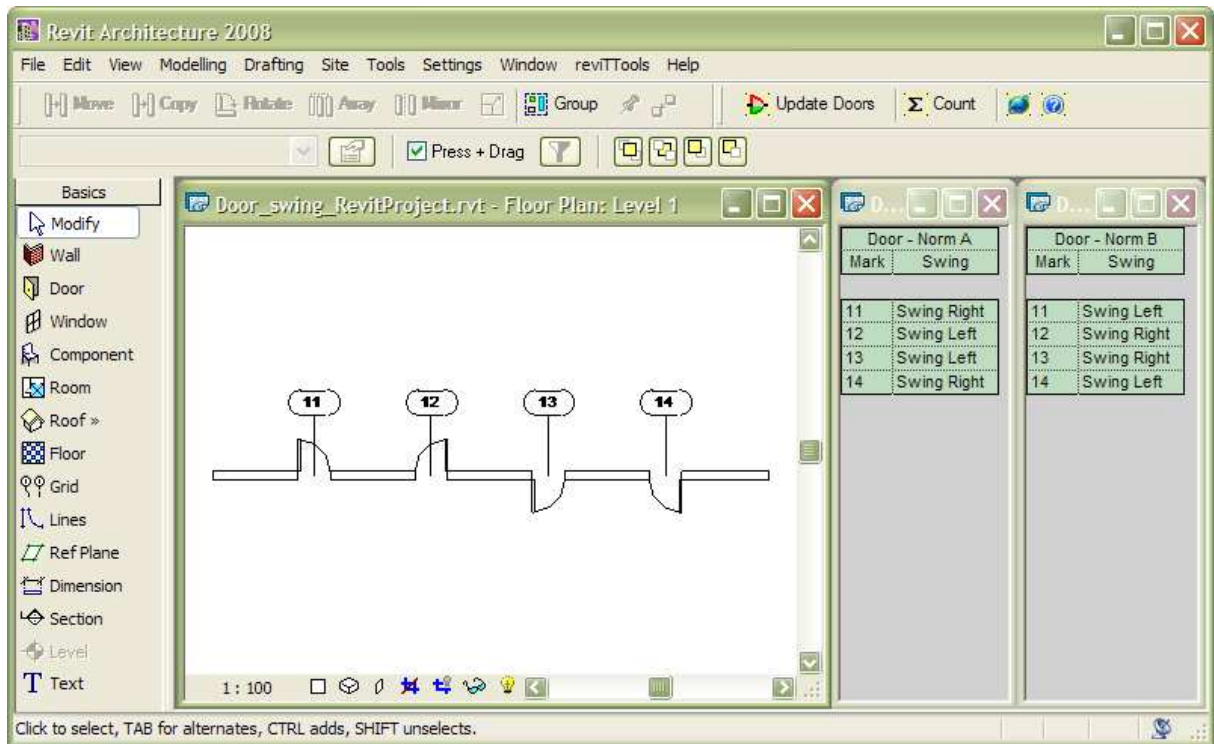
Project parameter

The project parameters are ready, please create a proper door schedule.

5.4 Create a Door Schedule with Swing property

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • View / New / Schedule • Category: <i>Doors</i> • OK • Add following parameters: <i>Mark, SwingNameStandard, SwingNameReversed, RT_Reversed</i> • Add a Calculated value Name: <i>Swing</i> Select: <i>Formula</i> Discipline: <i>Common</i> Type: <i>Text</i> Formula: <i>if(RT_Reversed = 0, SwingNameStandard,</i> | <ul style="list-style-type: none"> • Ansicht / Neu / Bauteilliste • Kategorie: <i>Türen</i> • OK • Felder hinzufügen: <i>Markierung, SwingNameStandard, SwingNameReversed, RT_Reversed</i> • Berech. Werte Name: <i>Swing</i> Auswählen: <i>Formel</i> Disziplin: <i>Allgemein</i> Typ: <i>Text</i> Formel: <i>if(RT_Reversed = 0, SwingNameStandard,</i> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i>SwingNameReversed)</i></p> <ul style="list-style-type: none"> • OK • Define the correct Swing names for standard and reversed cases for each door type. • You get the actual Swing property after updating door parameters with revitTools. | <p><i>SwingNameReversed)</i></p> <ul style="list-style-type: none"> • OK • Standard und umgekehrt Öffnungsnahmen eintragen für alle Türtypen. • Die aktuellen Öffnungsnahmen bekommt man automatisch nach aktualisierung mit revitTools. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Door Schedule

You get a Door Schedule like this.

5.5 Update RT_Reversed parameter

Before using the schedules in production, it is absolutely necessary to update the RT_Reversed parameter with revitTools!

Explained before: 4.2 revitTools - Update [Door] properties

6 Schedule+Tag+Update real door swing property (within the door family, using reviTTools_Settings.xml)

6.1 Prepare reviTTools_Settings.xml file

In the reviTTools program directory you find a sample setting file, called: **reviTTools_Settings - SAMPLE.xml**

Please copy it and rename the copy as **reviTTools_Settings.xml**

If you take a look to the file you find following section:

```
<UpdateSwingParameter_Door
  ParameterName_SwingStandard="SwingNameStandard"
  ParameterName_SwingReversed="SwingNameReversed"
  ParameterName_SwingResult ="Swing"/>
```

This section defines the names of the parameters, updating by reviTTools. If required, later you can customize these.

6.2 Create project parameters for doors

You have to create the project parameters for doors.

Please complete following steps explained before:

- 5.1 reviTTools - Create shared parameter
- 5.2 reviTTools - Update [Door] properties
- 5.3 Create the SwingName project parameters for doors

After it please create the *Swing* (instance) project parameter

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Settings / Project Parameters... • Add... Parameter Type: <i>Project Parameter</i> Categories: <i>Doors</i> Name: <i>Swing</i> Discipline: <i>Common, Instance</i> Type: <i>Text</i> • OK • Add... Name: <i>SwingNameReversed</i> And other settings as above. | <ul style="list-style-type: none"> • Einstellungen / Projektparameter... • Hinzufügen... Parametertyp: <i>Projektparameter</i> Kategorien: <i>Türen</i> Name: <i>Swing</i> Disziplin: <i>Allgemein, Instanz</i> Parametertyp: <i>Text</i> • OK • Hinzufügen... Name: <i>SwingNameReversed</i> Sonstige Einstellungen wie oben. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

If you create the *Swing* parameter as *Shared Parameter* you can use it in tags as well.

The parameter names (*SwingNameStandard*, *SwingNameReversed* and *Swing*) should match the names defined in the **reviTTools_Settings.xml** file.

6.3 Create a Door Schedule with Swing property

You have to create a Door Schedule including the swing parameters.

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • View / New / Schedule • Category: <i>Doors</i> • OK • Add following parameters: <i>Mark, SwingNameStandard, SwingNameReversed, Swing</i> • OK • Define the correct Swing names for standard and reversed cases for each door type. • You get the actual Swing property after updating door parameters with reviTTools. | <ul style="list-style-type: none"> • Ansicht / Neu / Bauteilliste • Kategorie: <i>Türen</i> • OK • Felder hinzufügen: <i>Markierung, SwingNameStandard, SwingNameReversed, Swing</i> • OK • Standard und umgekehrt Öffnungsnahmen eintragen für alle Türtypen. • Die aktuellen Öffnungsnahmen bekommt man automatisch nach aktualisierung mit reviTTools. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6.4 Update door parameters

Before using the schedules in production, it is absolutely necessary to update the door parameters with reviTTools!

Explained before: 5.2 reviTTools - Update [Door] properties

7 Comments

7.1 Release notes

For release notes information please visit the download section of the homepage: www.reviTTools.info

7.2 Demo limitation

Without a valid key reviTTools works in DEMO mode. There is NO limitation in DEMO mode, however you get regular popup warnings to accept.

If you appreciate reviTTools, please contact us in order to get an unlimited key.

7.3 No warranty

Even though we develop all this stuff, providing you with fine working solutions, we can NOT guaranty neither that reviTTools will not damage your system/your projects nor that the results of reviTTools will be correct and accurate! Please use it under your own responsibility!

7.4 Language editions

reviTTools runs as an additional, external API application on top of Revit Architecture 2008, Revit Structure 2008 and Revit MEP 2008 but ONLY on some specific selected language editions of Revit.

Other language versions are available upon request.

7.5 Limitations

There are following limitations

- reviTTool is running only on some specific selected language editions of Revit.
- reviTTool is unable to update the door parameters if the door is part of a group.

For more information please visit: www.reviTTools.info