

# **ATHENA**<sub>2014</sub> - INTERFACE

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# 1 Interface

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## Commands in this section:

- Working with the LogiKal interface.
- Import LogiKal section
- Determine bar joint
- Export Logikal
- Insert LogiKal section
- LogiKal element
- Importing a LogiKal object
- Modify LogiKal element
- Generating a section from 2D
- Evaluation with LogiKal
- Specify LogiKal folder
- LogiKal timeout
- Reset LogiKal

## Note on the interface commands

The interface commands are contained in a separate adaptation file (CUI file). If this adaptation file is not loaded automatically, you must load the file ...USERDATA\ CAD-PLAN\ 201X\ ATHENA\ interface.cuix manually. For this, use the command `_cuiload`. Further information on this command can be taken from your AutoCAD documentation.

## 1.1 Working with the LogiKal interface.

### The positions of a project are acquired in LogiKal

When you import a project from LogiKal into ATHENA, say, to produce technical documentation, you must define the further procedure. There are two methods:

1. Changes to the project are implemented in ATHENA; the project is no longer processed or evaluated in LogiKal, but just in ATHENA.
2. Changes to the project are implemented in LogiKal. The project has to be imported again into ATHENA. Existing documentation must be changed or produced again.

### The positions of a project are acquired in ATHENA

Once you have transferred the positions of a project (or a 3D construction) to LogiKal, you have to define the further procedure. Also here there are two possibilities:

1. Changes to the project are implemented in ATHENA. The project has to be transferred again to LogiKal.
2. Changes to the project are implemented in ATHENA. The evaluation takes place exclusively in ATHENA.



Any other procedure is not recommended and is the exclusive responsibility of the user.

### Definition of terms

A project for the purpose of LogiKal can contain many positions (or elements). The project is identified by job number and offer number.

Instead of position, in ATHENA the term element is often used. An element is basically the same as a position. Positions (or elements) may be windows, doors or also facades.



## 1.2 Import LogiKal section



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; Import LogiKal section</b>
<b>Menu:</b>	<b>Interface &gt; Import LogiKal section</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_logi_import</b>

Imports sections of profile combinations or facade combinations as a bar assembly from the LogiKal profile data base.

The bar assembly can be used both for 2D and also for 3D designs.

### Command prompt

*Import [Window or Door/Facade/?] <Facade>:*

*Select the Facade option if you would like to import a facade combination with glazing. The definition occurs in the dialog box Facade combination with glazing; further information about this can be found in the LogiKal documentation.*

*Select the Window or Door option if you would like to import a profile combination with glazing. The definition occurs in the dialog box Profile combination with glazing; further information about this can be found in the LogiKal documentation.*

You call the help with the option **?**.



When you execute the command for the first time, the standard dialog box for file selection is started where you must specify the LogiKal folder.

Once you have defined the profile or facade combination in the appropriate dialog boxes, they are displayed in the bar assembly manager and can be saved there. You will find further information on this subject in the Chapter *Bar Assembly Manager* on page 632 of the ATHENA documentation.

## 1.3 Determine bar joint



<b>Ribbon:</b>	Tab ATHENA > Group Model > Determine bar joint
<b>Menu:</b>	Model > Apply > Determine bar joint
<b>Toolbar:</b>	ATH Apply
<b>Command input:</b>	ath_c3d_join

You can assign a bar joint to selected bars with this function.

### **Command prompt**

*Select bar for cutting:*

*Select the bar on which changes are to be made due to meeting another bar.*

*Select boundary object:*

*Select the bar which is to delimit the bar to be changed.*

When you select profiles here which have been imported from the LogiKal data base, the dialog box Define joint variants appears where you can assign the joint variants to the bars. You will find further information on this in the LogiKal documentation.

## 1.4 Export Logikal



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; Export LogiKal</b>
<b>Menu:</b>	<b>Interface &gt; Export LogiKal</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_logi_out</b>

Creates an XML file from a selected 3D design which has been produced with profile data from the LogiKal data base. You can import this XML file into LogiKal where it can be processed or evaluated.

After calling the command the standard dialog box for file selection is started where you must specify the place of storage and the file name for the XML file. When you click the button Save, the following input request appears:

### **Command prompt**

*Select objects:*

*Select the objects which are to be written to the XML file.*

*After the object selection a message appears that the XML file has been saved.*

## 1.5 Insert LogiKal section



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; Insert LogiKal section</b>
<b>Menu:</b>	<b>Interface &gt; Insert LogiKal section</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_logi_section</b>

Inserts sections of profiles, profile combinations or facade combinations from the LogiKal profile data base into the drawing.

### Command prompt

*Section generation [Window or Door/Facade/Singly/?] <Window or door>:*

*Select the Window or Door option if you would like to insert a window or door profile combination with glazing as a section. The definition occurs in the dialog box Profile combination with glazing; further information about this can be found in the LogiKal documentation.*

*Select the Facade option if you would like to insert a facade combination with glazing as a section. The definition occurs in the dialog box Facade combination with glazing; further information about this can be found in the LogiKal documentation.*

*Select the Single option if you would like to insert a single profile as a section. The definition occurs in the dialog box Load profile drawing; further information about this can be found in the LogiKal documentation.*

You call the help with the option ?.



When you execute the command for the first time, the standard dialog box for file selection is started where you must specify the LogiKal folder.

Once you have defined the profile or facade combination in the appropriate dialog boxes, the selected profile is suspended on the cross-hair and the input request follows for insertion.

### Command prompt

*Specify insertion point or [?]:*

*Define the insertion point of the section.*

*You call the help with the option ?.*

*Specify rotation angle or [?] <0>:*

*Specify the rotation angle of the section or press the Enter key to adopt the default angle.*

## 1.6 LogiKal element



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; LogiKal element</b>
<b>Menu:</b>	<b>Interface &gt; LogiKal element</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_logi_elem</b>

Creates a two or three-dimensional element view using the LogiKal profile data base. Automatic generation of the section is possible with the command Generating a section from 2D.

After the command call you are requested to specify the element size and the element shape within the drawing. For this, the following input request appears:

### Command prompt

#### Option Area

*Specify point in the area or [Corner points/Object selection/LogiKal dimensional entry/Import/?]:*

*Specify a point in a surface to define the shape and size of the element.*

*You can specify the corner points of the element with the **Option Corner points**.*

*With the **Option Object selection** you can specify the element by object selection.*

*With the **Option LogiKal dimensional entry** you can specify the element dimensions with the aid of the LogiKal input mask.*

*You can import an element from an existing project with the **Option Import**.*

#### Option Corner points

*Specify corner point or [Area/Object selection/LogiKal dimensional entry/Import/?]*

*Use the mouse or enter coordinates to specify the corner point of the element.*

*With the **Option Area** you can define the element by specifying a point in an area.*

*With the **Option Object selection** you can specify the element by object selection.*

*With the option Undo you can again specify the last corner point.*

*Specify corner point or [Area/Object selection/Undo/LogiKal dimensional entry/Import/Close?] <Close>:*

*Specify the next corner point of the element.*

*Select the option Close or press the Enter key once you have specified the last corner point*

#### Option Object selection

*Select objects:*

*Select a closed outline to define the shape and size of the element.*

#### Option LogiKal dimensional entry

Starts the Dialog box LogiKal position, where you can define the element position data.

When you terminate this dialog box, you can define the element in the appropriate masks with the LogiKal assistant. You will find further information on this in the LogiKal documentation.

Then follows:

*Specify insertion point:*

*Define the insertion point of the element.*

### Option Import

Starts the Dialog box LogiKal position, where you can define the position data of the element to be imported.

When you terminate this dialog box, you enter the LogiKal project manager where you can select an element (position) of an existing project. You will find further information on this in the LogiKal documentation.



When importing an element, the selected LogiKal element is adopted as default in order to generate a new element. No Pos data and no quantities are transferred.

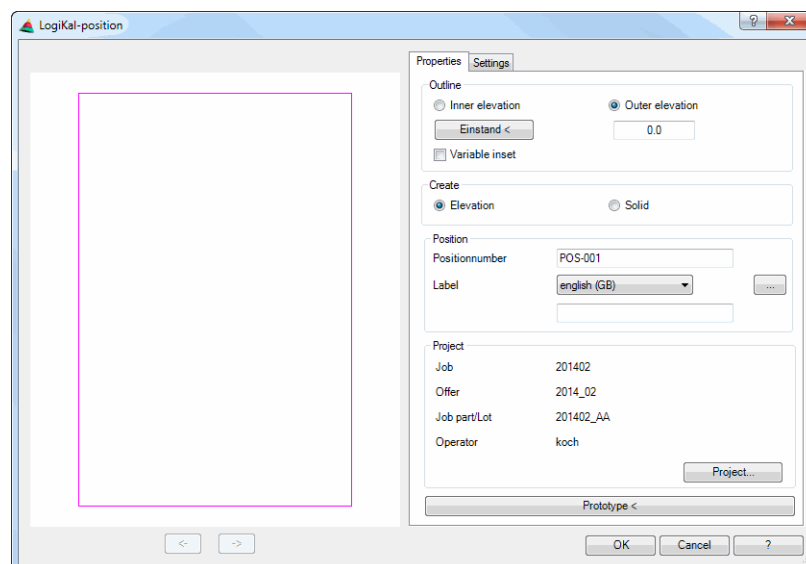
After the selection then follows:

#### Specify insertion point:

*Define the insertion point of the element.*

Once the element dimensions have been defined, the Dialog box LogiKal position appears, where you can define further element properties. If no job has been created in the drawing, the Dialog box Projects first appears. Further information about this can be found in your AutoCAD documentation in the Chapter *Projects*.

### Dialog box LogiKal position



### Display section

#### Dialog box section Preview

On the left side of the dialog box the preview for the element area is located. You will find the arrow keys for selecting the active element side beneath this preview. The arrow keys are only active if you have previously switched in the option Variable inset.

->

Changes to the next side in the anticlockwise direction.

<-

Changes to the next side in the clockwise direction.



The active side of the element is displayed in red in the preview.

## Operating section

### Tab Properties

#### Dialog box section Outline

##### Internal view

Creates the internal view of the element.

##### External view

Creates the external view of the element.

##### Inset

Defines the inset of the element. You can specify the inset directly or point in the drawing by clicking the button.



The inset acts on each side and enlarges the element correspondingly. With elements in raw shell openings (for example, aperture-type windows) you can specify a negative inset.

##### Variable inset

Has the effect that the inset on each element side is different. If you activate the tick box, you can specify the inset separately for each element side. Use the arrow keys below the preview for changing the element sides.

#### Dialog box section Create

##### Elevation

Creates a 2D view of the element.

##### Solid

Creates a three-dimensional element.

#### Dialog box section Position

##### Position number

Defines the element position number.

##### Designation

Defines the element designation. You can save the label in various languages. To do this, choose the required language from the list.

##### [...]

Opens the Dialog box Designation, where you can conveniently edit the labels for various languages. You will find further information in the Chapter *Designation* on page 122.

## Dialog box section Project

Shows the data of the project to which the element has been assigned.

Project ...

Shows the Dialog box Projects where you can assign the element to another project. Further information about this can be found in your AutoCAD documentation in the Chapter *Projects*.

Prototype

Selects an existing LogiKal element as a model.

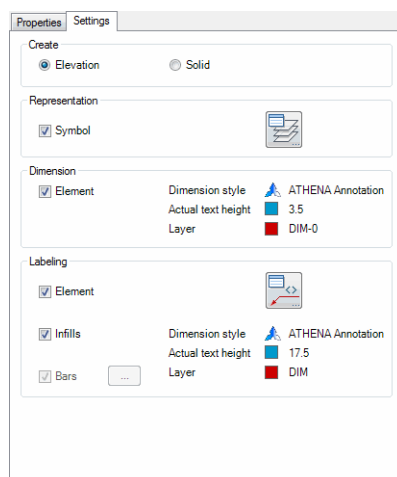
If you have already created a similar element in the drawing, you can select it to skip the definition of the profile series. For element selection the dialog box is closed and the following input request appears:

## Command prompt

*Select LogiKal element or [?]:*

*Select an existing element. Once you have selected an element, the LogiKal mask is started. You will find further information on this in the LogiKal documentation.*

## Tab Settings



## Dialog box section Create

Elevation

Creates a two-dimensional view of the element.

Solid

Creates a solid body of the element.

## Dialog box section Representation

Symbol

Controls the display of symbols (for example tilt and turn symbols) of the sashes and elements.



Opens the Dialog box Layer assignment. You will find further information on this in the Chapter *Layer assignment* in the ATHENA documentation.

## Dialog box section Dimensions

Element

Controls whether the element is dimensioned.



The drawing dimension settings are used for dimensioning. Dimension style, actual text height and dimension layer are displayed for information.

#### Dialog box section Label

##### Element

Controls whether the element is labeled.

##### Inserts

Controls whether frame elements are labeled.



Opens the Dialog box Label. You will find further information on this in the Chapter *Label* in the ATHENA documentation.

The drawing dimension settings are used for labeling. Dimension style, actual text height and label layer are displayed for information.

#### End of program

##### Cancel

Terminates the dialog box without creating an element.

##### OK

Terminates the dialog box and changes to the dialog box Create new position and then to further LogiKal masks. These dialog boxes form part of LogiKal; you will find further information on this in the LogiKal documentation.

## 1.7 Importing a LogiKal object



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; Import LogiKal object</b>
<b>Menu:</b>	<b>Interface &gt; Import LogiKal object</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_logi_elem_import</b>

Imports positions of a LogiKal project into the drawing.  
Automatic generation of the section is possible with the command Generating a section from 2D.

When you execute the command for the first time in the current drawing session, the LogiKal project manager is started. Here, you can select the project which you want to import. You will find further information on the project management in the LogiKal documentation.

Once you have selected a project and terminated the project management, the Dialog box Import LogiKal project is started.

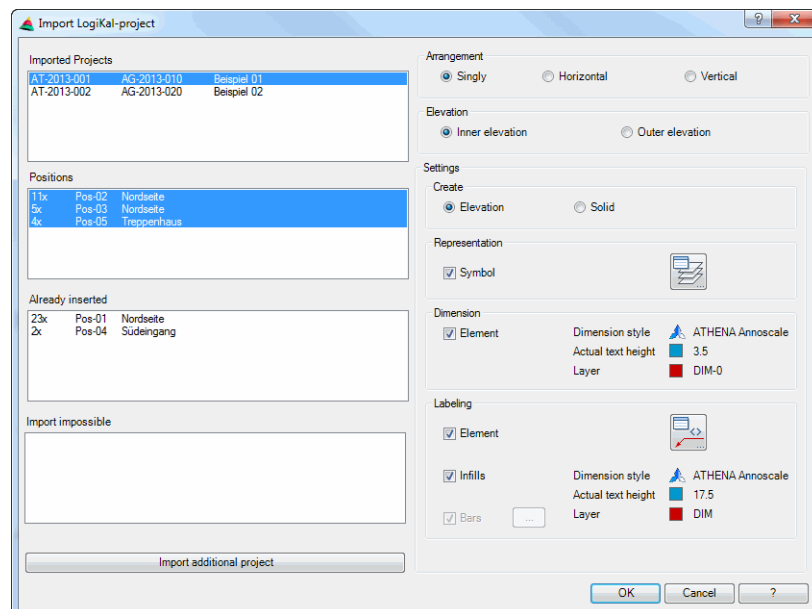


The import may take some time depending on the number and size of the positions contained in the project. The reason for this is that all data (project information, prices, joint components, etc.) are imported.

Once the project import is terminated, the project is managed by ATHENA where it can be processed further. Follow the information in Chapter *Working with the LogiKal interface*. on page 2 for the further procedure.

If you have already imported projects into the drawing, you are taken directly to the Dialog box Import LogiKal project and the projects already imported are displayed.

### Dialog box Import LogiKal project



#### Imported projects

Displays the projects which have already been imported into the drawing. In each case the list shows the job number, offer number and project name. Here you can select a project in order to display the positions contained in it.

**Positions**

Displays the positions of the selected project. The list shows the quantity, position number and position designation.



All positions are only inserted once into the drawing irrespective of the quantity. The quantity is saved for the relevant position.

**Already inserted**

Displays the positions which have already been inserted into the drawing.

**Import not possible**

Displays the positions which cannot be inserted into the drawing.

**Importing a further object**

Starts the LogiKal project manager. Here you can import further projects.

**Dialog box section Arrangement****Singly**

Inserts the selected positions singly and consecutively into the drawing.

**Horizontal**

Inserts all selected positions adjacently into the drawing.

**Vertical**

Inserts all selected positions one beneath the other into the drawing.

**Dialog box section Elevation****Internal view**

Creates internal views of the imported positions.

**External view**

Creates external views of the imported positions.

**Dialog box section Create****Elevation**

Creates two-dimensional views of the imported positions.

**Solid**

Creates solid bodies of the imported positions.

**Dialog box section Representation****Symbol**

Controls the display of symbols (for example tilt and turn symbols) of the sashes and elements.



Defines the layers for frame, sashes and symbols. The Dialog box Layer assignment is opened for the layer definition. You will find further information on this in the Chapter *Layer assignment* on page 108.

**Dialog box section Dimensions****Element**

Activates dimensioning for the element to be inserted.

The drawing dimension settings are used for dimensioning. Dimension style, actual text height and label layer are displayed for information.

**Dialog box section Label****Element**

Controls whether the element is labeled.

**Inserts**

Controls whether frame elements are labeled.

**Bars**

Controls whether bars are labeled.

[...]

Opens the Dialog box Label bars. You will find further information on this in the Chapter *Label bars* on page 20.



Opens the Dialog box Label. You will find further information on this in the Chapter *Label* on page 117.

The drawing dimension settings are used for labeling. Dimension style, actual text height and label layer are displayed for information.

**End of program**

**Cancel**

Terminates the dialog box without creating an element.

**OK**

Terminates the dialog box; the selected positions can be inserted singly or simultaneously into the drawing. Then use the following procedure:

**Command prompt**

*Specify insertion point:*

*Define the insertion point of the positions.*

*Depending on the selected arrangement option, this input request is repeated until all positions have been inserted into the drawing.*

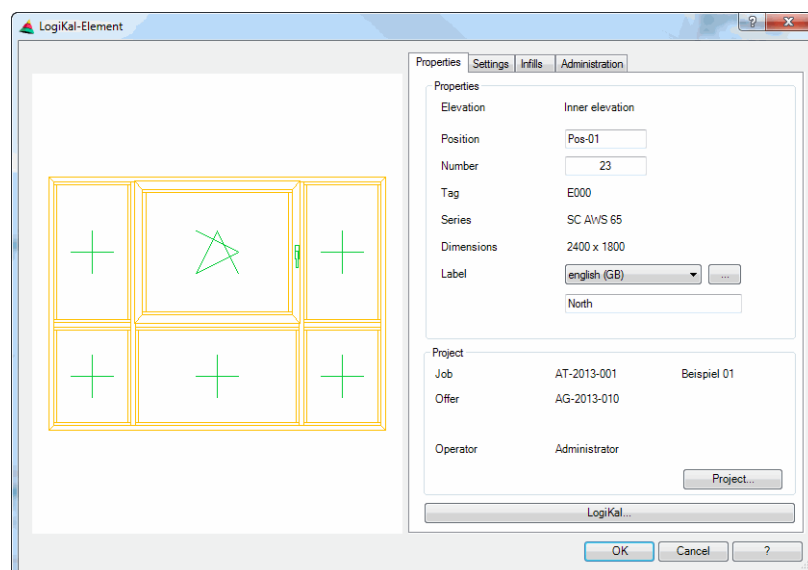
## 1.8 Modify LogiKal element

<b>Ribbon:</b>	<b>Not present</b>
<b>Menu:</b>	<b>Not present</b>
<b>Toolbar:</b>	<b>Not present</b>
<b>Command input:</b>	<b>ath_logi_elem_edit</b>

When you click on an existing LogiKal element, this command is started and you can modify the selected element.

The command starts the Dialog box LogiKal element.

### Dialog box LogiKal element



### Display section

In the dialog box a preview is shown at the upper left. It provides a visual check of the position.

### Operating section

On the right side of the dialog box there is the operating section with the tabs:

- Properties
- Settings
- Infills
- Manager

## Tab Properties

### Dialog box section Properties

#### Elevation

Shows whether the external view or the internal view of the position is displayed.

#### Position

Defines the position number of the position.

#### Number

Defines the quantity of the positions.

#### Series

Shows the profile series of the position.

#### Dimensions

Shows the external dimensions of the position.

#### Designation

Defines the position label. You can save the label in various languages. To do this, choose the required language from the list.

#### [...]

Opens the Dialog box Designation, where you can conveniently edit the labels for various languages. You will find further information in the Chapter *Designation* on page 122.

#### Job part/lot

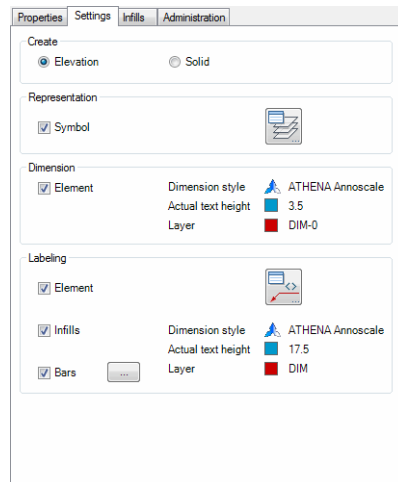
Defines the job part/lot of the position.

#### Project ...

Modifies the position project data. To do this the Dialog box Projects is started. The current project data are displayed to the right and below the button. During evaluation the project, data are output to the various lists.

#### Logikal ...

Starts Dialog box Modify LogiKal element, where you can select which position property you want to modify.

**Tab Settings****Dialog box section Create****Elevation**

Creates a two-dimensional view of the element.

**Solid**

Creates a solid body of the element.

**Dialog box section Representation****Symbol**

Controls the display of symbols (for example tilt and turn symbols) of the sashes and elements.



Defines the layers for frame, sashes and symbols. The Dialog box Layer assignment is opened for the layer definition. You will find further information on this in the Chapter *Layer assignment* on page 108.

**Dialog box section Dimensions****Element**

Controls whether the element is dimensioned.

The drawing dimension settings are used for dimensioning. Dimension style, actual text height and dimension layer are displayed for information.

**Dialog box section Label****Element**

Controls whether the element is labeled.

**Inserts**

Controls whether frame elements are labeled.

**Bars**

Controls whether bars are labeled.

[...]

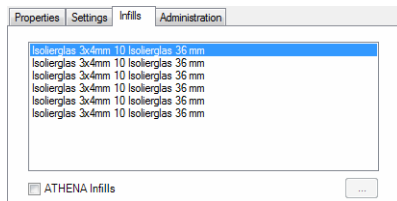
Opens the Dialog box Label bars. You will find further information on this in the Chapter *Label bars* on page 20.



Opens the Dialog box Label. You will find further information on this in the Chapter *Label* on page 117.

The drawing dimension settings are used for labeling. Dimension style, actual text height and label layer are displayed for information.

## Tab Infills



The list shows the infills of the current element. Here, you select the infill, the properties of which you want to change.



Infills (glazing or panels) which have been imported from LogiKal are only displayed simplified during the section generation.

For detailed section displays you should use ATHENA infills.

**ATHENA infill**

Causes infills defined in ATHENA to be used.

[...]

Opens the Dialog box For object selection, where you can load a saved infill. Refer to *Object selection* on page 138 of the ATHENA documentation.

## End of program

**Cancel**

Closes the dialog box and discards the changes.

**OK**

Closes the dialog box and the selected position is updated.



## 1.9 Modify LogiKal element, sub-dialog boxes

Describes sub-dialog boxes of the command Modify LogiKal element

### 1.9.1 Project

Defines project data of a position.

#### Dialog box Project

The 'Project' dialog box is divided into two main sections: 'Job/commission' and 'Address'. The 'Job/commission' section includes input fields for 'Order no.' (containing 'AB-4716'), 'Quotation no.' (containing 'ANG-999'), 'Object' (containing 'CAD-PLAN 002'), and 'Operator'. The 'Address' section includes input fields for 'Salutation' (containing 'Mr'), 'Name, Line 1' (containing 'Miller'), 'Name, Line 2' (containing 'Steve'), 'Street' (containing 'Creston Street 187'), 'Zip code, City' (with 'London' in a separate box), 'Country', 'Tel.' (containing '0061-5454545'), and 'Fax'. At the bottom of the dialog are buttons for 'Get', 'Reset', 'OK', 'Cancel', and 'Help'.

#### Dialog box section Job/commission

Defines the job/commission data of the selected position.

If you change the job number or the offer number and terminate the dialog box with OK, the Dialog box Modify project is displayed. Here you have to define whether the project is to be renamed or whether a new project is to be created.

#### Dialog box section Address

Defines the client's address data.

##### Get

Opens a dialog box in which the drawing jobs are displayed. Here you can selected a job and assign it to the position.

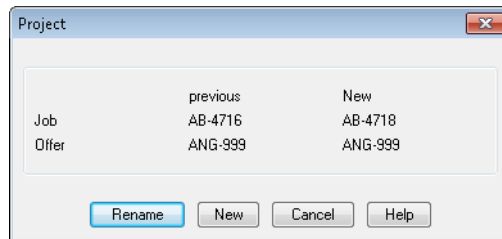
##### Reset

Removes the position job data.

### 1.9.2 Modify project

Modifies the job data of a project.

### Dialog box Modify project



#### Rename

Changes the job number or the offer number of the project.



Due to renaming, the project data of all contained positions are changed.

#### New

Creates a new project with a new job number or offer number.

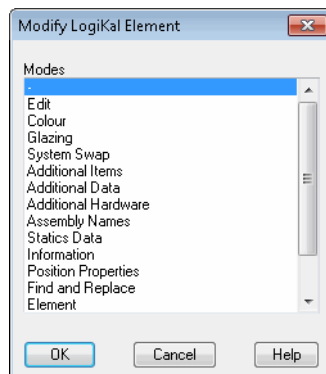


Only this current position is assigned to the newly created project. All other positions remain with the previous project.

## 1.9.3 Modify LogiKal element

Modifies an existing LogiKal element

### Dialog box Modify LogiKal element



The dialog box contains a list with sections of the current element. Here select a section to modify. When you terminate the dialog box with OK, you enter the selected section in LogiKal where you can make your changes. You will find further information on this in the LogiKal documentation.

## 1.9.4 Label bars

Controls the labeling of bars of an imported LogiKal element.

**Dialog box Label bars**

Shows a list of existing bars (item number and designation). Here, you select the bars which you want to label. A multiple selection with CTRL or SHIFT is possible.

Click OK to close the dialog box and to accept the selection. With Cancel you discard the selection.

## 1.10 Generating a section from 2D



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; Generate section from 2D</b>
<b>Menu:</b>	<b>Interface &gt; Generate section from 2D</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_elem_cs</b>

Generates an associative section through a LogiKal element.

The functional description of the command can be found in the chapter with same name *Generating a section from 2D* on page 219 in the ATHENA documentation.

## 1.11 Evaluation with LogiKal



**Ribbon:** Tab Interface > Group LogiKal > Evaluation with LogiKal  
**Menu:** Interface > Evaluation with LogiKal  
**Toolbar:** Interface  
**Command input:** ath\_logi\_printout

With this command you can, with the aid of LogiKal, produce evaluations (e.g. printouts or calculations) of LogiKal elements.

When you call the command, the following input request appears:

### Command prompt

*Select objects:*

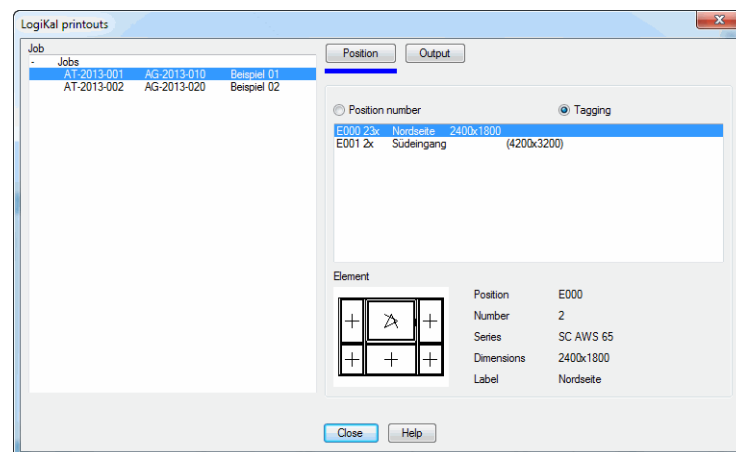
*Select the LogiKal elements which you want to evaluate.*

*This input request is repeated. Press the Enter key to terminate the object selection and to start the Dialog box LogiKal evaluation.*

### Dialog box LogiKal evaluation

The dialog box contains the register buttons , Positions and Output.

### Register button Positions



On the left side of the dialog box you can see the jobs present in the drawing. Here, you can select the job for the output.

On the right side you can see a list of the selected elements. Here, you can select an element. Below the list the properties of the selected element are displayed.



The selection of the elements has no effect on the output. All elements of the selected job are always evaluated!

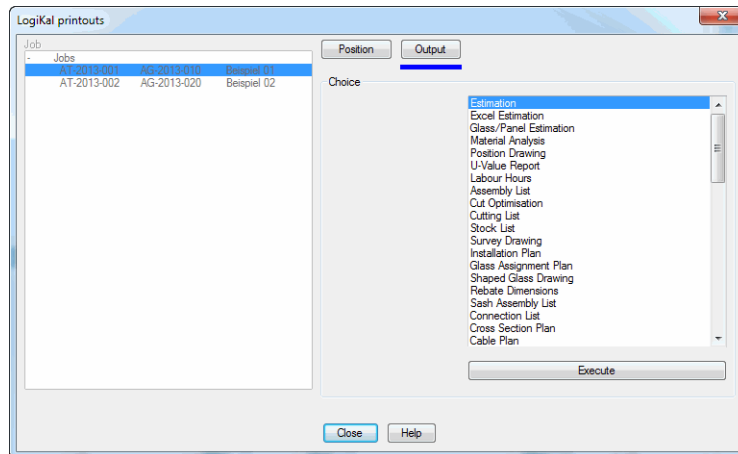
Position number

Sorts the list according to position number.

Tag

Sorts the list according to type (tag).

## Register button Output



### Selection

Shows a pick list of the available evaluations. Here, select the required evaluation.

### Execute

Changes to the appropriate dialog box in LogiKal and carries out the selected evaluation for all elements of the selected job. Information on the following dialog boxes for the output can be found in the LogiKal documentation.

## End of program

### Close

Terminates the dialog box.

## 1.12 Specify LogiKal folder



<b>Ribbon:</b>	<b>Tab Interface &gt; Group LogiKal &gt; Specify LogiKal folder</b>
<b>Menu:</b>	<b>Interface &gt; Specify LogiKal folder</b>
<b>Toolbar:</b>	<b>Interface</b>
<b>Command input:</b>	<b>ath_logi_dll</b>

Specifies the LogiKal program folder.

When you execute the command, the dialog box Find folder is displayed. Here, you select the folder of the LogiKal installation (as standard C:\LOGIKAL).

## 1.13 LogiKal timeout

<b>Ribbon:</b>	<b>Not present</b>
<b>Menu:</b>	<b>Not present</b>
<b>Toolbar:</b>	<b>Not present</b>
<b>Command input:</b>	<b>ath_logi_timeout</b>

Defines how long a LogiKal license is assigned after the use of an interface command.

On starting a LogiKal interface command you must log in as a LogiKal user. The value defines how long the user remains logged in, thereby using a license. The timeout value should be set to a short period, especially with a limited number of LogiKal network licenses, so that the license is released again as quickly as possible.

When you execute the command, the following appears:

### **Command prompt**

*Enter new value for timeout <15>:*

*Enter the time in minutes.*



Enter the time in minutes. If you enter 0, the license is not released and remains in use until ATHENA is closed.



## 1.14 Reset LogiKal

<b>Ribbon:</b>	<b>Not present</b>
<b>Menu:</b>	<b>Not present</b>
<b>Toolbar:</b>	<b>Not present</b>
<b>Command input:</b>	<b>ath_logi_reset</b>

Releases the LogiKal license being used.

When you call the command, the license is released immediately. No message is displayed.

When you again use a LogiKal interface command, you have to log in once more.

