

Manual

Create data import



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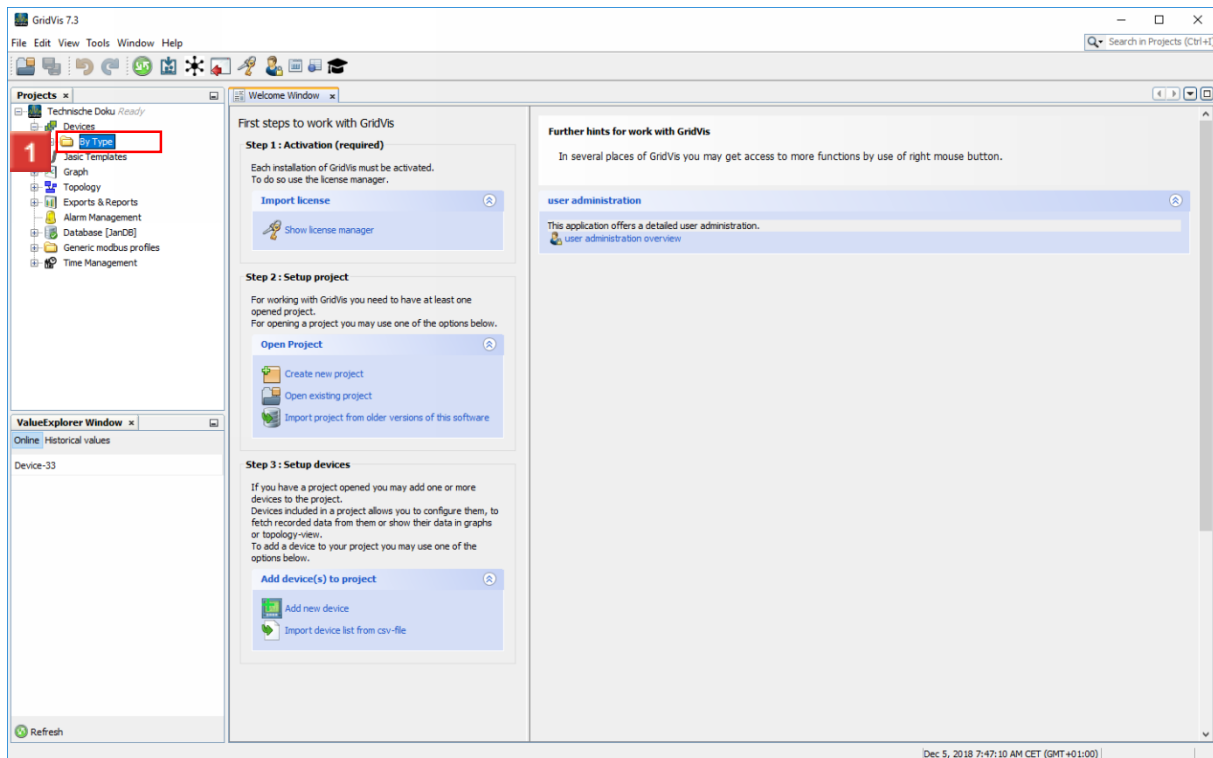
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1 Start

These instructions explain how to set up an automatic data import of quantities from a CSV file into the GridVis Desktop.

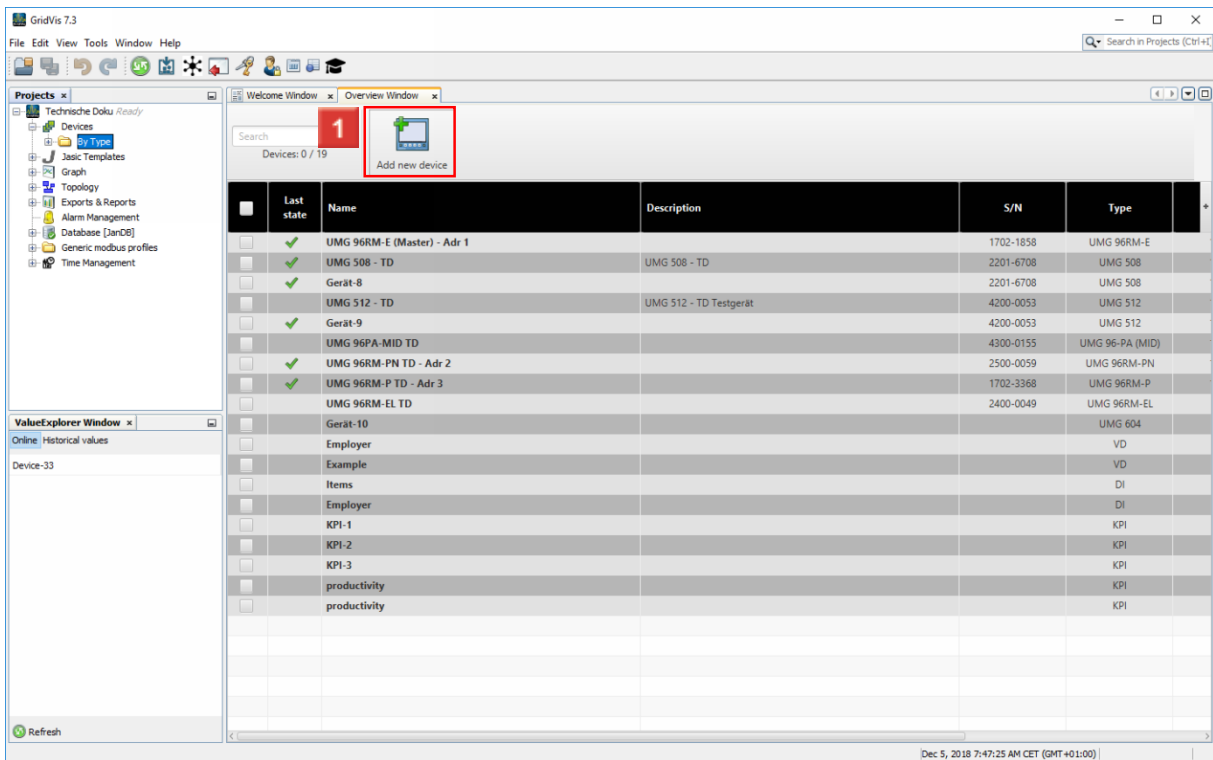
Content

- ■ Creating a new data import
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- ■ Automation
-

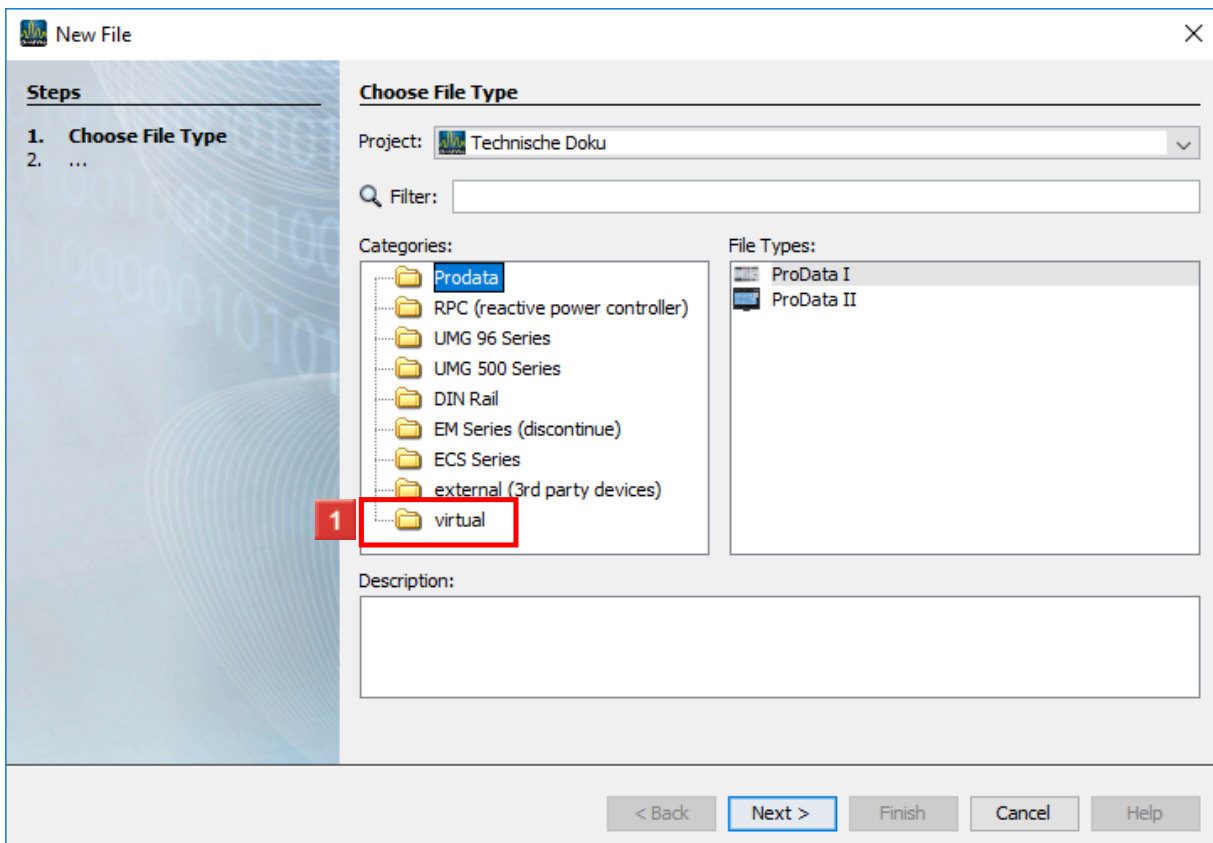


1 Double-click the **By Type** tree item.

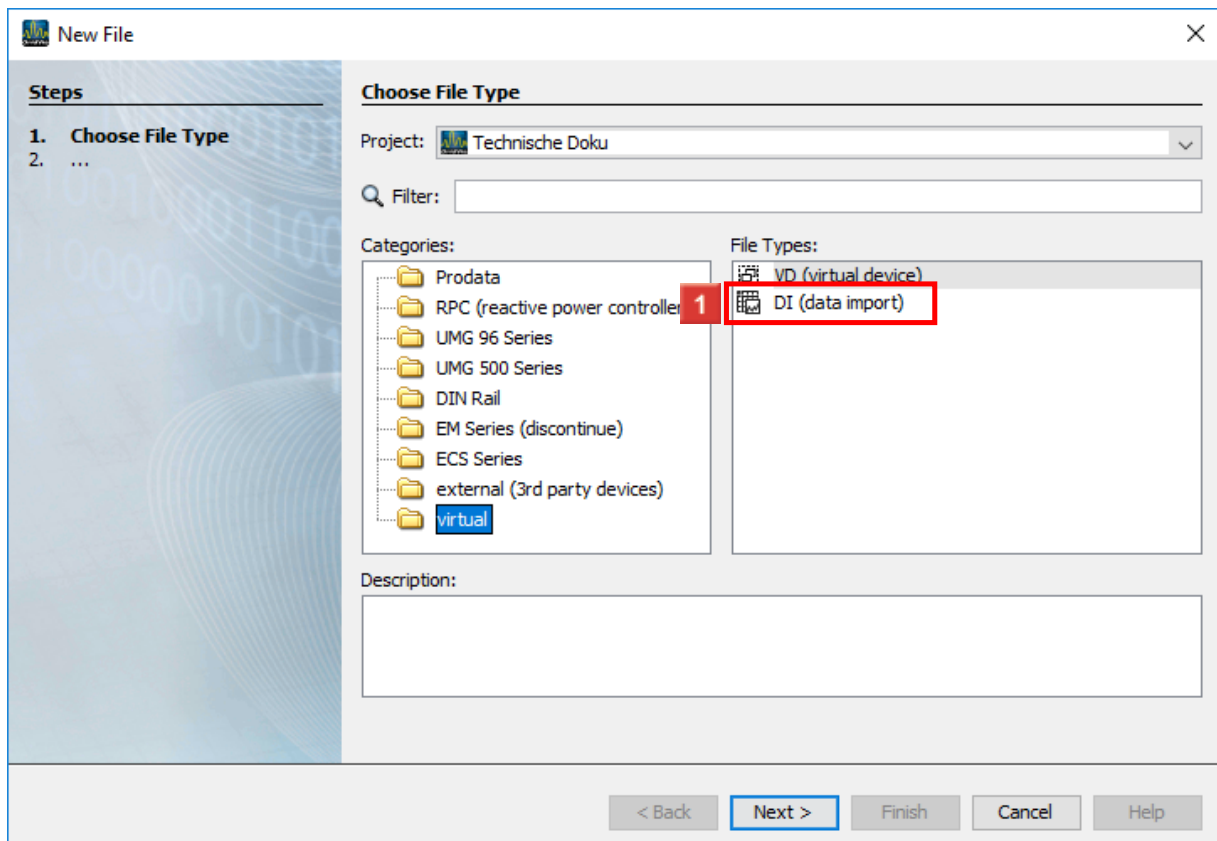
2 Adding a new data import



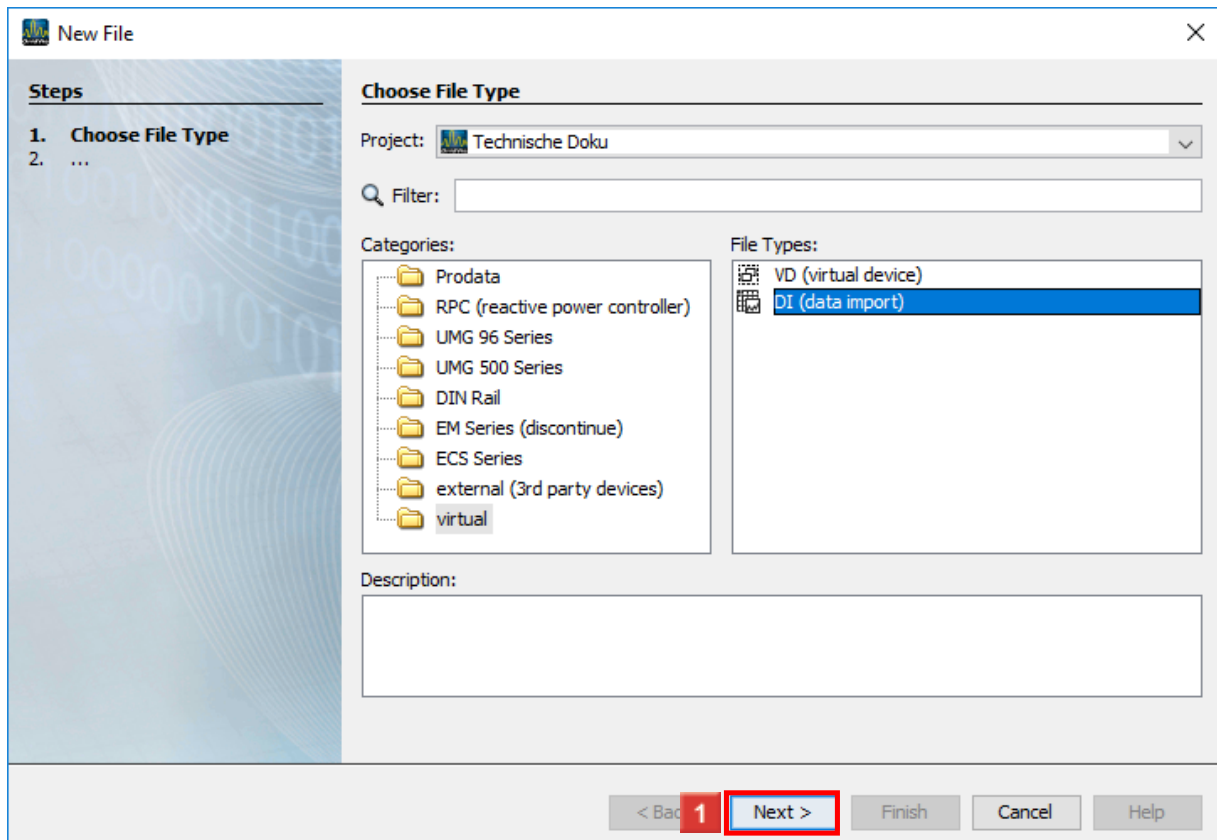
1 Click the **Add new device** button.



1 Click the **virtual** tree item.



1 Click the **DI (data import)** list item.



1 Click the **Next** button.

New DI (data import) X

Steps

1. Configure connection

Configure connection

DI [None] ?

Common

Type: None

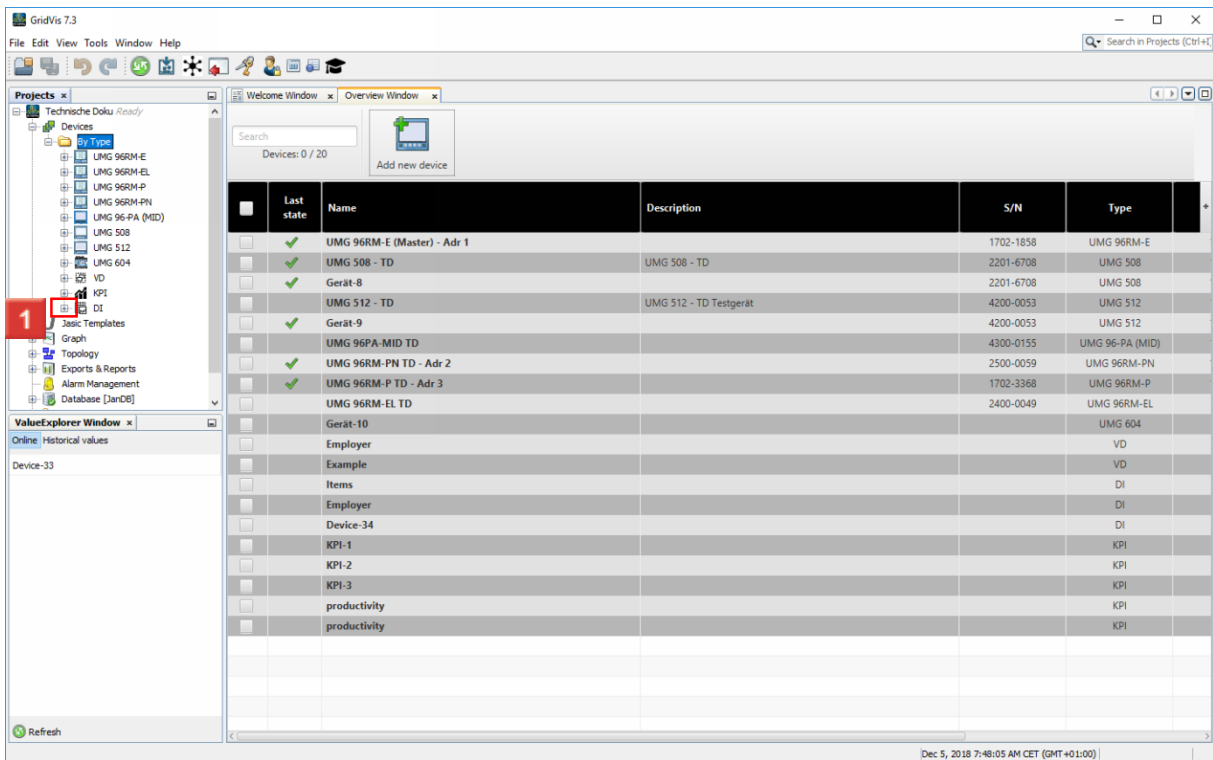
Connection not configured
For devices which acts simply as dummy for offline-configuration

< Back Next 1 Finish Cancel Help

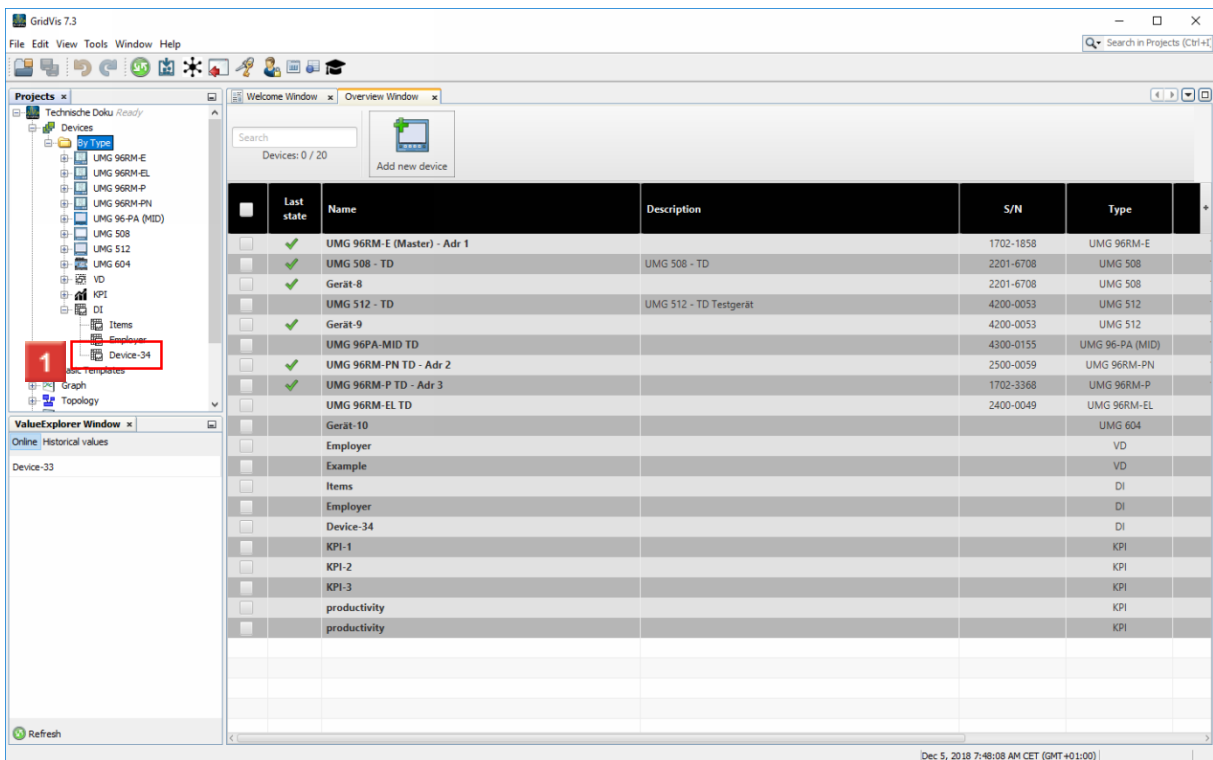
1 Click the **Finish** button.

i A data import is always created without a connection.

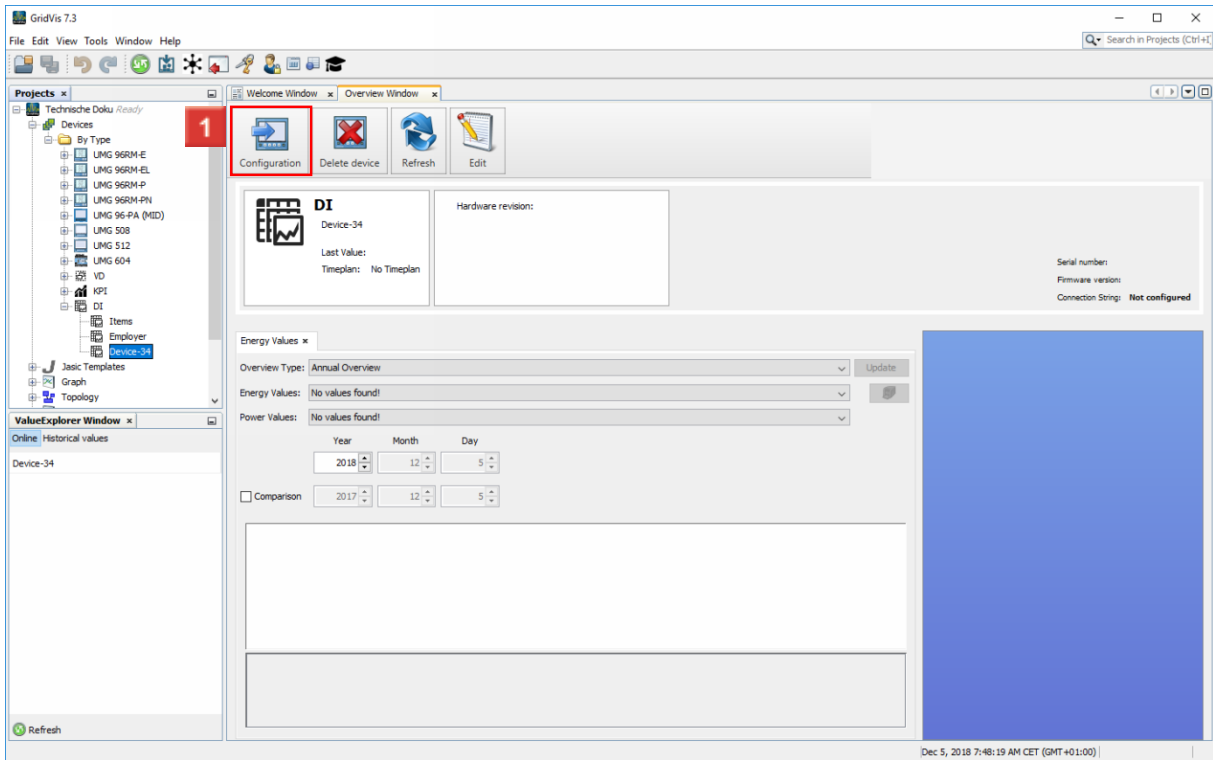
3 Designation



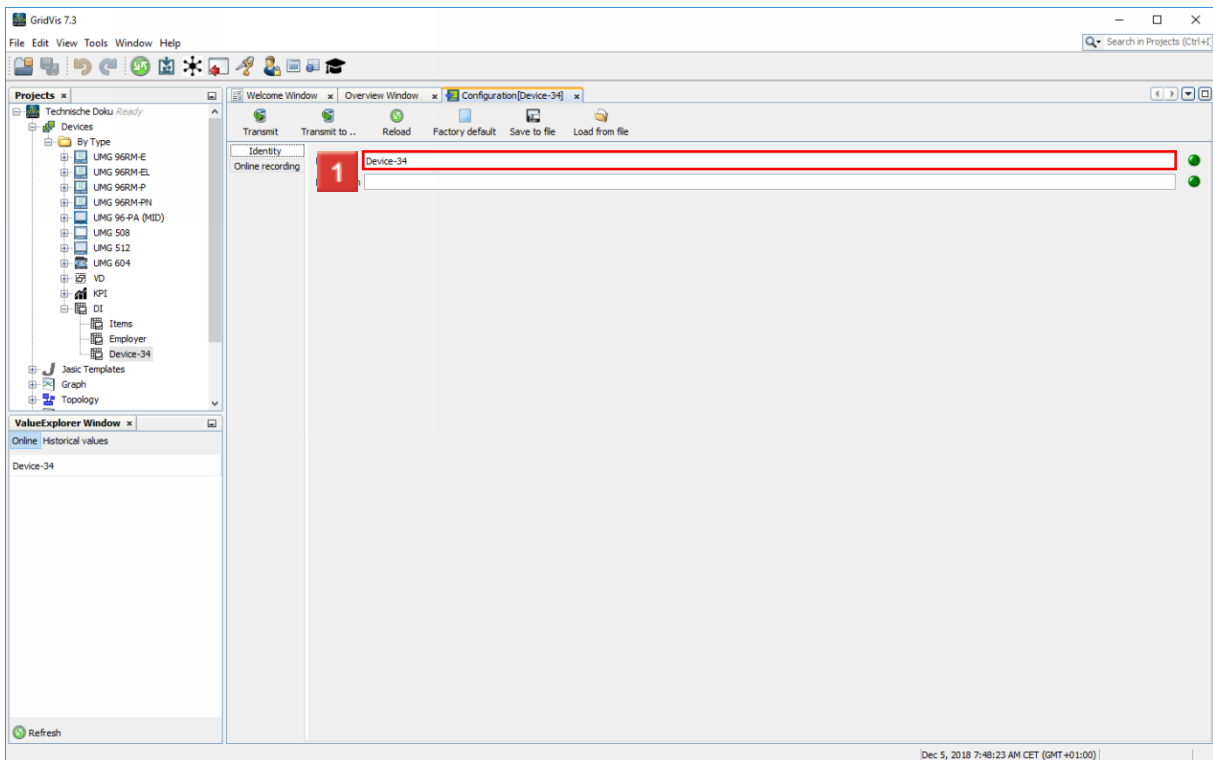
1 Open the DI tree item.



1 Click the the new device tree item.

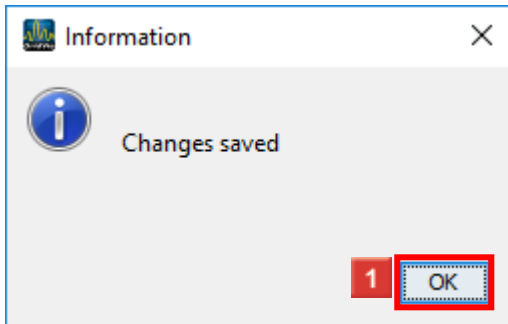


1 Click the **Configuration** button.

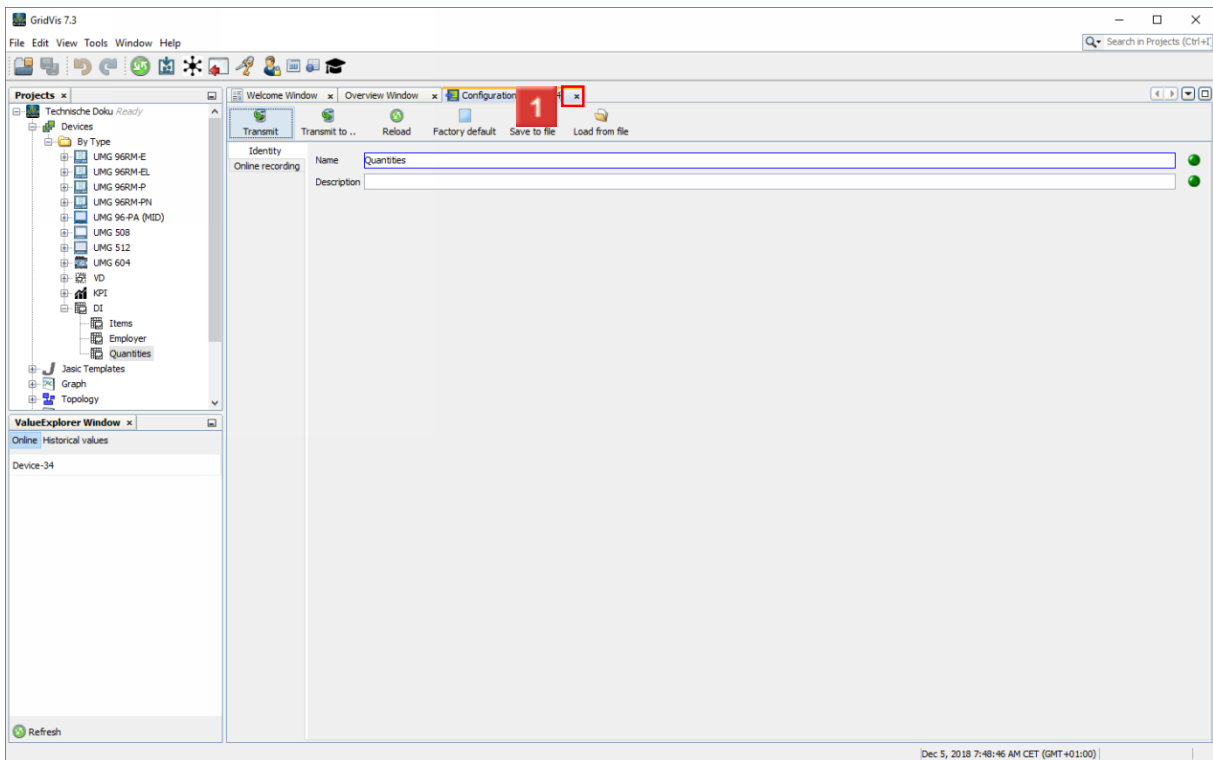


1 Click the **Name** input field to specify a name for the data import.

2 Click the **Transmit** button to save the name and description.

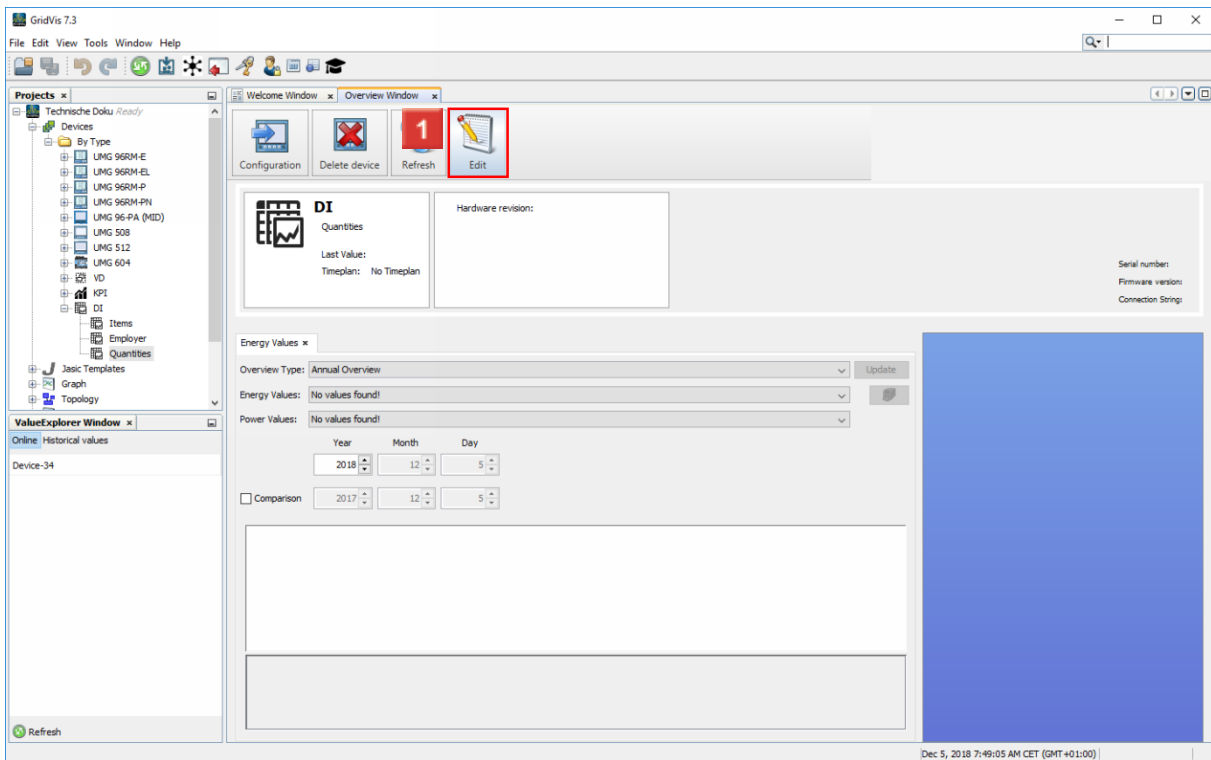


1 Click **OK**.

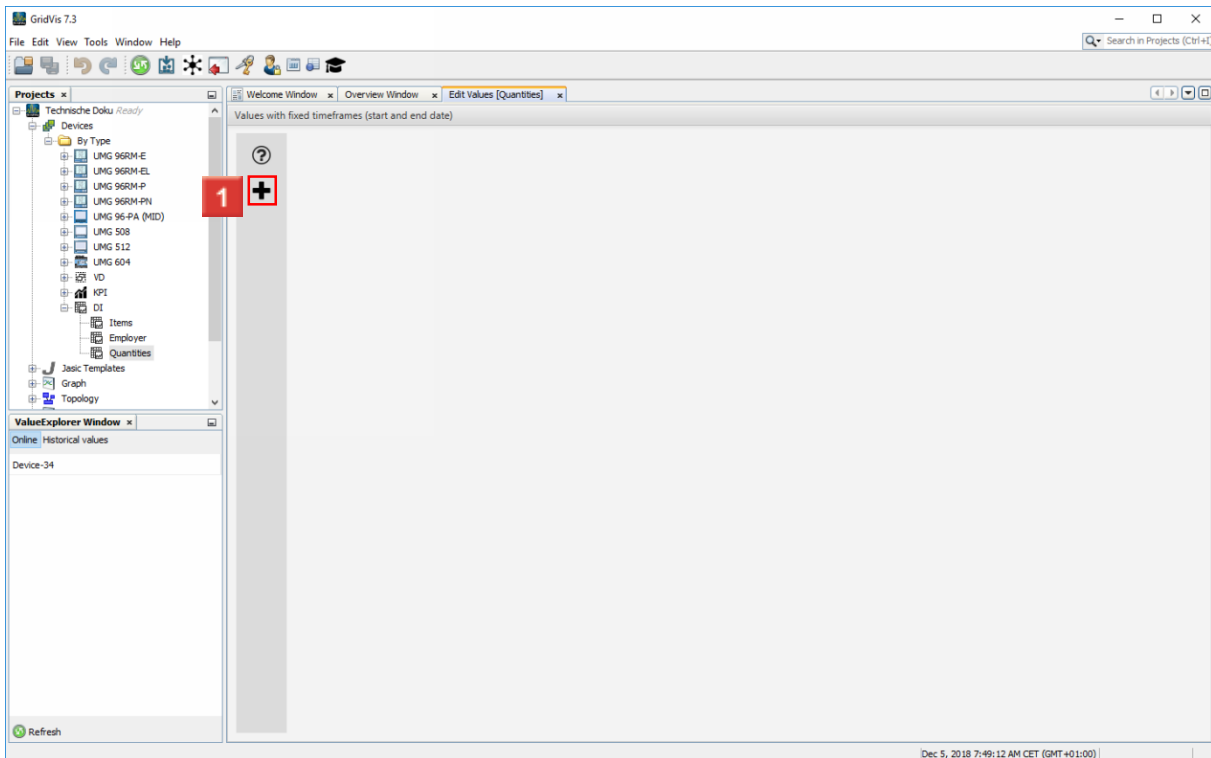


1 Click **Close** to close the configuration tab.

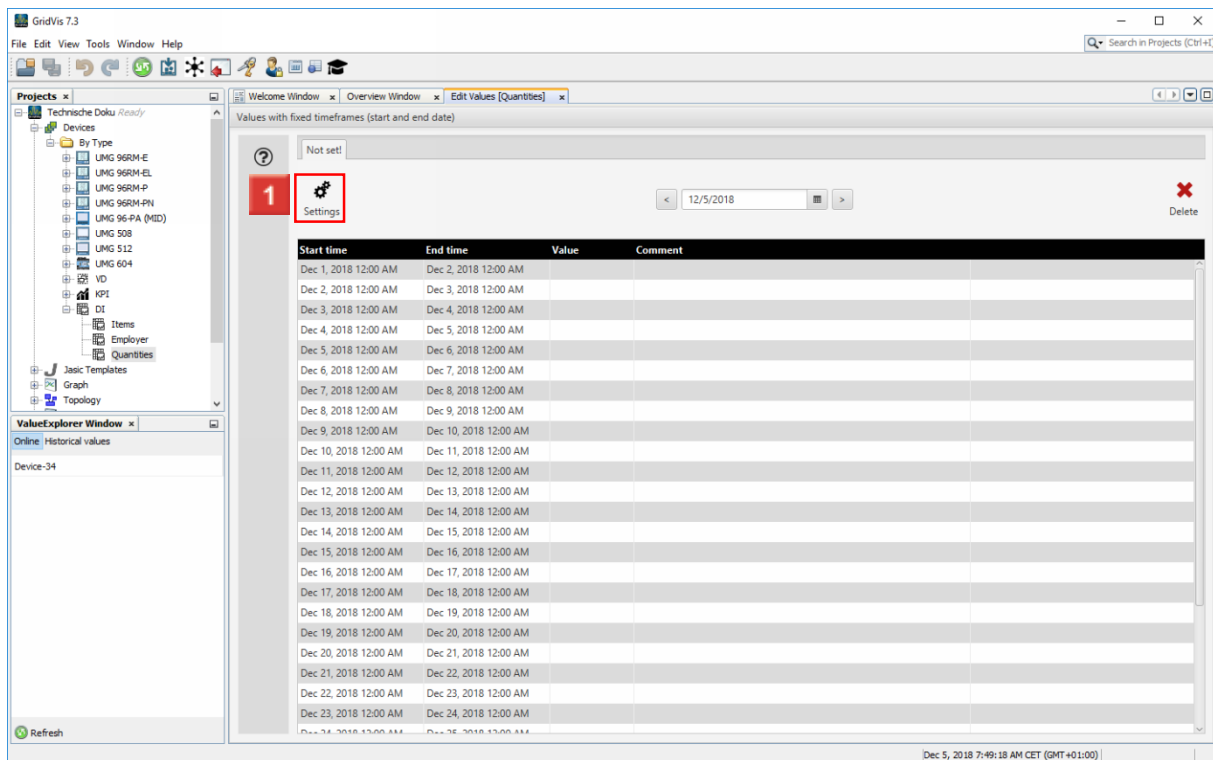
4 Configuration 1



1 Click the **Edit** button.



1 Click **Add** to add a value to the data import.



The screenshot shows the GridVis 7.3 application window. The main area displays a table of data with columns for Start time, End time, Value, and Comment. A red box highlights a 'Settings' icon (a gear) next to the first row of the table. The table contains 24 rows of data, each representing a 12-hour interval from Dec 1, 2018, to Dec 24, 2018. The 'Value' column is currently empty for all rows. The interface also includes a 'Projects' tree on the left, a 'ValueExplorer Window' at the bottom left, and a search bar at the top right.



Start time	End time	Value	Comment
Dec 1, 2018 12:00 AM	Dec 2, 2018 12:00 AM		
Dec 2, 2018 12:00 AM	Dec 3, 2018 12:00 AM		
Dec 3, 2018 12:00 AM	Dec 4, 2018 12:00 AM		
Dec 4, 2018 12:00 AM	Dec 5, 2018 12:00 AM		
Dec 5, 2018 12:00 AM	Dec 6, 2018 12:00 AM		
Dec 6, 2018 12:00 AM	Dec 7, 2018 12:00 AM		
Dec 7, 2018 12:00 AM	Dec 8, 2018 12:00 AM		
Dec 8, 2018 12:00 AM	Dec 9, 2018 12:00 AM		
Dec 9, 2018 12:00 AM	Dec 10, 2018 12:00 AM		
Dec 10, 2018 12:00 AM	Dec 11, 2018 12:00 AM		
Dec 11, 2018 12:00 AM	Dec 12, 2018 12:00 AM		
Dec 12, 2018 12:00 AM	Dec 13, 2018 12:00 AM		
Dec 13, 2018 12:00 AM	Dec 14, 2018 12:00 AM		
Dec 14, 2018 12:00 AM	Dec 15, 2018 12:00 AM		
Dec 15, 2018 12:00 AM	Dec 16, 2018 12:00 AM		
Dec 16, 2018 12:00 AM	Dec 17, 2018 12:00 AM		
Dec 17, 2018 12:00 AM	Dec 18, 2018 12:00 AM		
Dec 18, 2018 12:00 AM	Dec 19, 2018 12:00 AM		
Dec 19, 2018 12:00 AM	Dec 20, 2018 12:00 AM		
Dec 20, 2018 12:00 AM	Dec 21, 2018 12:00 AM		
Dec 21, 2018 12:00 AM	Dec 22, 2018 12:00 AM		
Dec 22, 2018 12:00 AM	Dec 23, 2018 12:00 AM		
Dec 23, 2018 12:00 AM	Dec 24, 2018 12:00 AM		
Dec 24, 2018 12:00 AM	Dec 25, 2018 12:00 AM		

1 Click **Settings** to edit the properties of the value.

i You can manually enter the measured values directly into the "Value" column here.

Choose or define a value

Value Selection ⚠ Settings Data Import

Value Selection			
	Value	 System Variable	 User Defined
⚠	Filter	Select a measurement	



Cancel Next Apply

1 Click **User-defined** to prepare the user-defined values for the import.

i You can import values either as GridVis system variables or as user-defined values.

Choose or define a value

Value Selection ⚠ Settings Data Import

Value Selection			
Value		 System Variable	 User Defined
⚠ Name	1	<input type="text"/>	
⚠ Unit		<input type="text"/>	
Definition	?	Consumed Energy	

Cancel Next Apply

1 Click the **Name** input field to assign a name to the value.

2 Click the **Unit** input field to define the unit of the name.

3 Click the **Definition** dropdown button.

i The selected **definition** determines how the GridVis software handles the value. This setting affects the recording and display of the value in the software.

Choose or define a value

Value Selection Settings Data Import

Value Selection

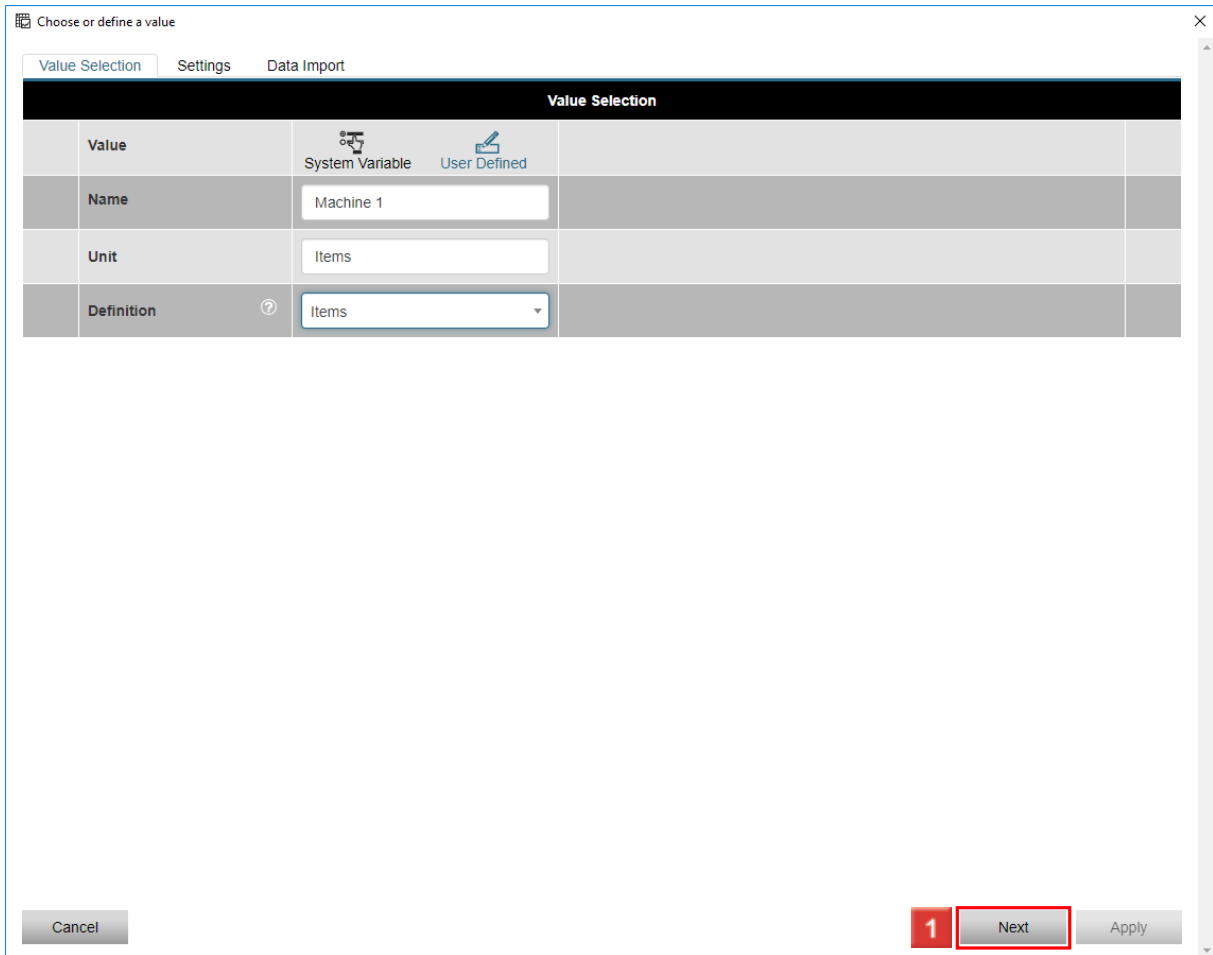
Value	System Variable	User Defined	
Name	Machine 1		
Unit	Items		
Definition	Consumed Energy		

1

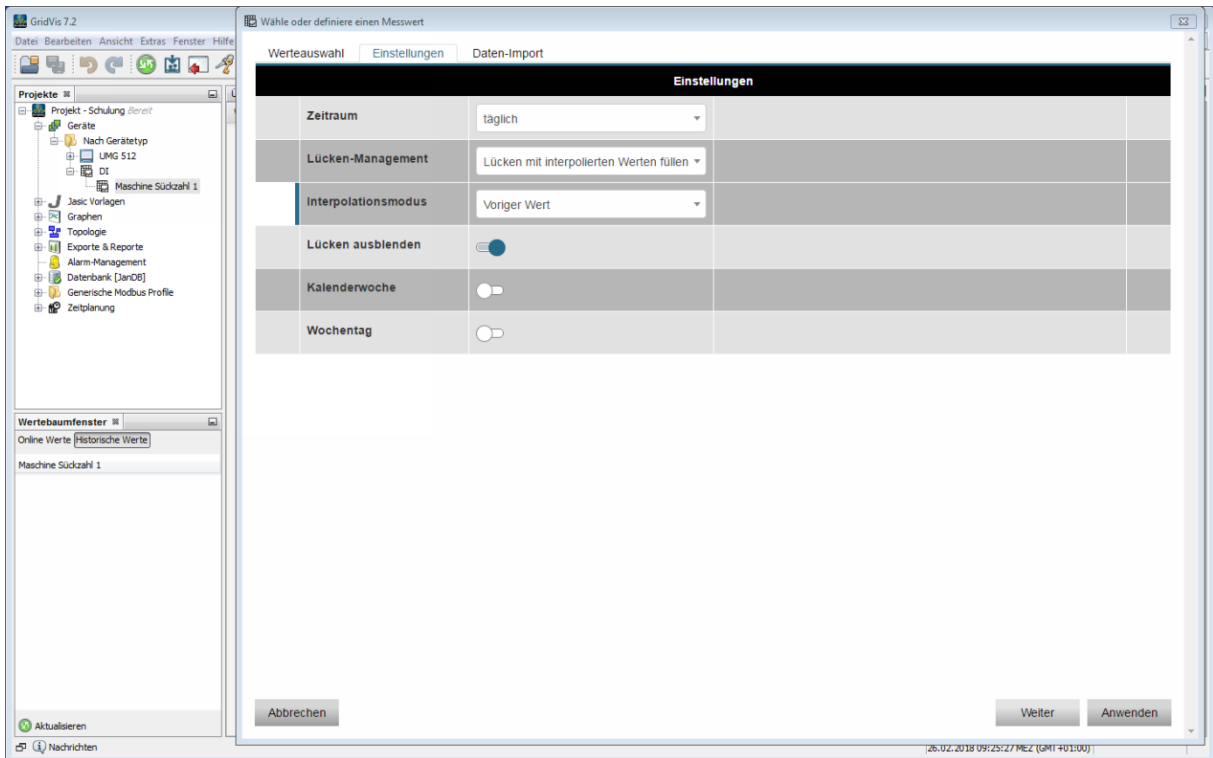
- Measuring value
- Sales Volume
- Items
- Square
- Employee
- Maximum

Cancel Next Apply

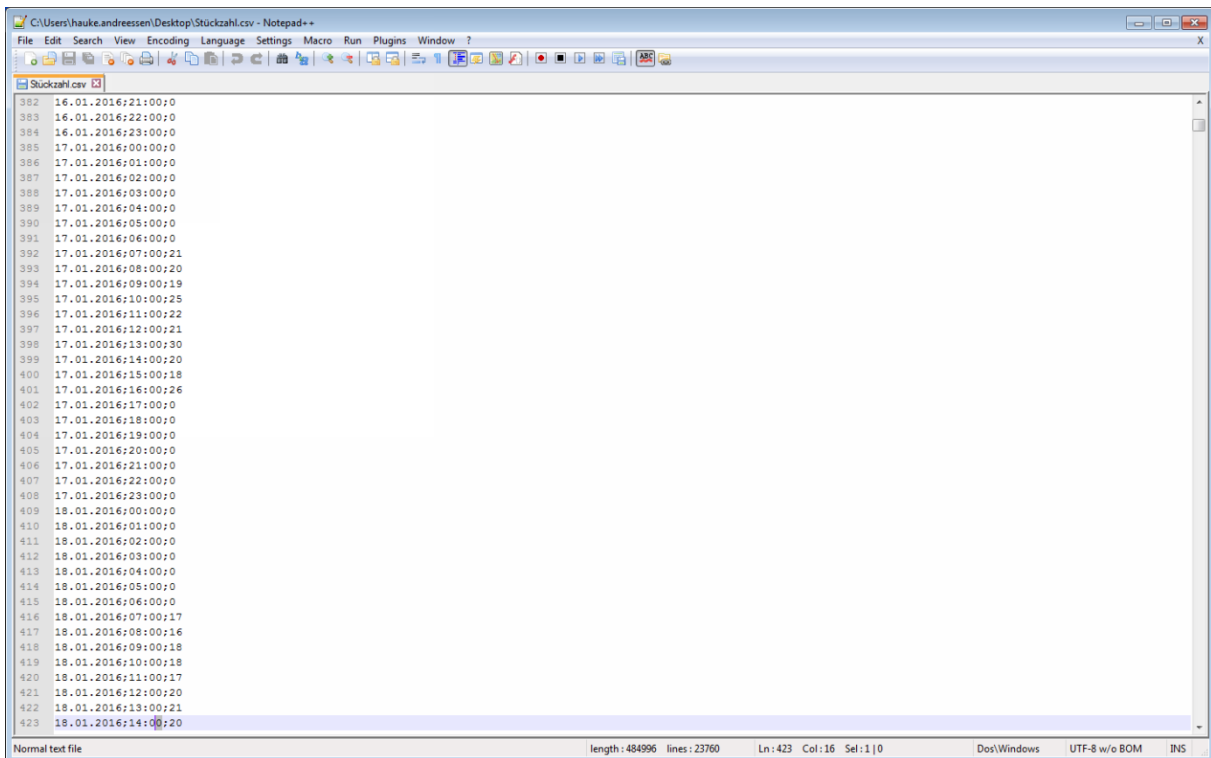
1 Select a definition for your user-defined value from the list.



1 Click Next.



5 Structure of a CSV file



```
382 16.01.2016:21:00:00
383 16.01.2016:22:00:00
384 16.01.2016:23:00:00
385 17.01.2016:00:00:00
386 17.01.2016:01:00:00
387 17.01.2016:02:00:00
388 17.01.2016:03:00:00
389 17.01.2016:04:00:00
390 17.01.2016:05:00:00
391 17.01.2016:06:00:00
392 17.01.2016:07:00:21
393 17.01.2016:08:00:20
394 17.01.2016:09:00:19
395 17.01.2016:10:00:25
396 17.01.2016:11:00:22
397 17.01.2016:12:00:21
398 17.01.2016:13:00:30
399 17.01.2016:14:00:20
400 17.01.2016:15:00:18
401 17.01.2016:16:00:26
402 17.01.2016:17:00:00
403 17.01.2016:18:00:00
404 17.01.2016:19:00:00
405 17.01.2016:20:00:00
406 17.01.2016:21:00:00
407 17.01.2016:22:00:00
408 17.01.2016:23:00:00
409 18.01.2016:00:00:00
410 18.01.2016:01:00:00
411 18.01.2016:02:00:00
412 18.01.2016:03:00:00
413 18.01.2016:04:00:00
414 18.01.2016:05:00:00
415 18.01.2016:06:00:00
416 18.01.2016:07:00:17
417 18.01.2016:08:00:16
418 18.01.2016:09:00:18
419 18.01.2016:10:00:18
420 18.01.2016:11:00:17
421 18.01.2016:12:00:20
422 18.01.2016:13:00:21
423 18.01.2016:14:00:20
```

i Information about this CSV file:

i

- i** ▪ No name line / header line
- i** ▪ No calendar week / weekday
- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon

i

i Layout of the content:

- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

6 Configuration 2

Choose or define a value

Value Selection Settings Data Import

Settings	
Period	1 daily
Gap management	Fill gaps with interpolated value
Interpolation mode	Previous value
Hide gaps	<input checked="" type="checkbox"/>
Calendar week	<input type="checkbox"/>
Weekday	<input type="checkbox"/>

1 Click the **Period** drop-down button to adjust the time basis of the measured values.

i Information about this CSV file:

i

- i** ▪ No name line / header line
- i** ▪ No calendar week / weekday
- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon

i

i Layout of the content:

- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)

i Column 3: Value (format 123.45)

Choose or define a value

Value Selection Settings Data Import

Settings

Period	daily		
Gap management	10 minutes		
	15 minutes		
Interpolation mode	hourly		
Hide gaps	daily		
	weekly		
Calendar week	monthly		
Weekday	<input type="checkbox"/>		

Cancel Next Apply

1 Select the desired time basis from the list.

Choose or define a value

Value Selection Settings Data Import

Settings

Period		hourly
Gap management	1	Fill gaps with interpolated value
Interpolation mode		Previous value
Hide gaps		<input checked="" type="checkbox"/>
Calendar week		<input type="checkbox"/>
Weekday		<input type="checkbox"/>

Cancel Next Apply

1 Click the **Gap management** drop-down button to define how the software should handle measurement gaps.

Choose or define a value

Value Selection Settings Data Import

Settings

Period	hourly	
Gap management	Fill gaps with interpolated value	
Interpolation mode	<div style="border: 1px solid red; padding: 2px;">Fill gaps with interpolated value Fill gaps with zero (0) Gaps are undefined (NaN)</div>	
Hide gaps		
Calendar week	<input type="checkbox"/>	
Weekday	<input type="checkbox"/>	

Cancel Next Apply

1 Select an option from the list.

- i** Two modes are available for filling the gaps with interpolated values:
- i**
- i**
 - Previous value: Accepts the last available value for the gap.
- i**
- i**
 - Arithmetic mean: Calculates the arithmetic mean for the gap from the previous and the following measured value.

Choose or define a value

Value Selection Settings Data Import

Settings	
Period	hourly
Gap management	Fill gaps with zero (0)
Hide gaps	<input checked="" type="checkbox"/>
Calendar week	<input type="checkbox"/>
Weekday	<input type="checkbox"/>

Cancel

1 Next Apply

1 Click the **Next** button.

Choose or define a value

Value Selection Settings **Data Import**

Data Import			
Activated	<input checked="" type="checkbox"/>	Import-File	<input type="text"/>
Format	CSV	Time plan	File Watch
Time changeover	<input type="checkbox"/>	Time zone	Europe/Berlin UTC+1
Encoding	UTF-8	Delimiter	;
Ignore Errors	<input type="checkbox"/>		
Header count	<input type="checkbox"/> Rows to be ignored	1	
Name	<input type="checkbox"/>		
Numerical Value	<input type="checkbox"/> Data field	2	Format: 123.45
Date	<input type="checkbox"/> Data field	1	Format: 31.12.2018
Time	<input type="checkbox"/>		
Comment	<input type="checkbox"/>		

Example

Cancel Apply

1 Click the **Activated** button to activate the data import.

Choose or define a value

Value Selection Settings **Data Import** ⚠

Data Import			
⚠	Activated	<input checked="" type="checkbox"/>	Import-File 1
	Format	<input type="text" value="CSV"/>	Time plan <input type="text" value="File Watch"/>
	Time changeover	<input checked="" type="checkbox"/>	Time zone <input type="text" value="Europe/Berlin UTC+1"/>
	Encoding	<input type="text" value="UTF-8"/>	Delimiter <input type="text" value=";"/>
	Ignore Errors	<input checked="" type="checkbox"/>	
	Header count	<input checked="" type="checkbox"/> Rows to be ignored <input type="text" value="1"/>	
	Name	<input type="checkbox"/>	
	Numerical Value	Data field <input type="text" value="2"/> Format <input type="text" value="123.45"/>	
	Date	Data field <input type="text" value="1"/> Format <input type="text" value="31.12.2018"/>	
⚠	Time	<input type="checkbox"/>	
	Comment	<input type="checkbox"/>	

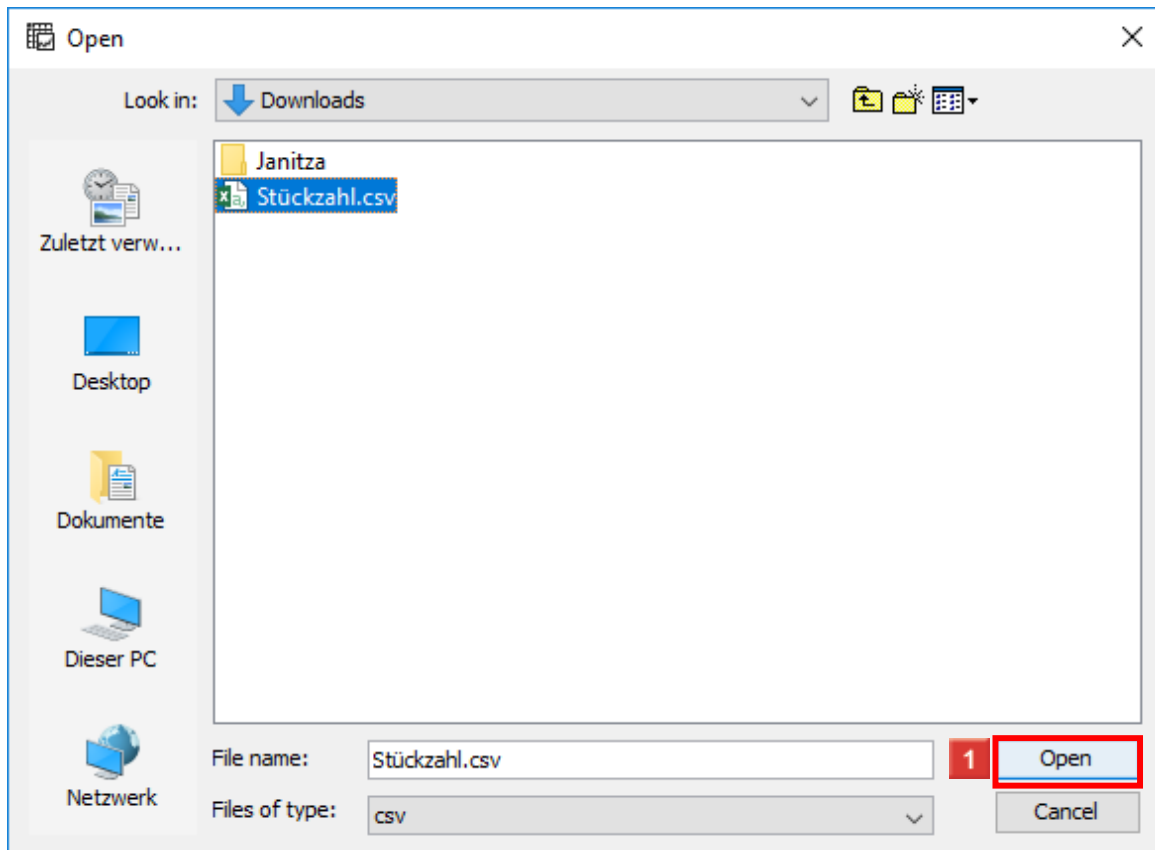
Example

31.12.2018;123.45
31.12.2018;123.45
...

Cancel
Apply

1 Click the **edit** button.

7 Loading the CSV



1 Select a CSV file and click **Open**.

8 Configuration based on the CSV file

2 Click the **Time plan** dropdown button.



3 Click

- i** If the time plane file watch (default setting) is selected, the specified import file is checked cyclically for size changes.
- i** All time instants that you have created in the GridVis time management with the tag **DI** are displayed under time plans.

You can find more information about times by clicking [here](#).

Choose or define a value

Value Selection Settings **Data Import** ⚠

Data Import			
Activated	<input checked="" type="checkbox"/>	Import-File	C:\Users\imax.striker\Downloads\St...
Format	CSV	Time plan	File Watch
Time changeover	<input checked="" type="checkbox"/>	Time zone	Europe/Berlin UTC+1
Encoding	UTF-8	Delimiter	;
Ignore Errors	<input checked="" type="checkbox"/>		
Header count	1 <input checked="" type="checkbox"/>	Rows to be ignored	1
Name	<input type="checkbox"/>		
Numerical Value	<input type="checkbox"/>	Data field	2
Date	<input type="checkbox"/>	Data field	1
Time	<input type="checkbox"/>		
Comment	<input type="checkbox"/>		

Example

```
31.12.2018;123.45
31.12.2018;123.45
...
```

Cancel Apply

1 Click the **Header** button to deactivate the header.

- i** Information about this CSV file:
- i**
- i**
 - No name line / header line
- i**
 - No calendar week / weekday

- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

Choose or define a value

Value Selection Settings **Data Import** ⚠

Data Import			
Activated	<input checked="" type="checkbox"/>	Import-File	C:\Users\max.stricker\Downloads\Stückza...
Format	CSV	Time plan	File Watch
Time changeover	<input checked="" type="checkbox"/>	Time zone	Europe/Berlin UTC+1
Encoding	UTF-8	Delimiter	;
Ignore Errors	<input checked="" type="checkbox"/>		
Header count	<input type="checkbox"/>		
Name	<input type="checkbox"/>		
Numerical Value	<input type="checkbox"/>	Data field 1 2	Format 123.45
Date	<input type="checkbox"/>	Data field 1	Format 31.12.2018
⚠ Time	<input type="checkbox"/>		
Comment	<input type="checkbox"/>		

Example

31.12.2018;123.45
31.12.2018;123.45
...

1 Click the **Data field (numerical values)** input field to define the column in which the corresponding information is saved.

- i** Information about this CSV file:
- i**
- i** ▪ No name line / header line
- i** ▪ No calendar week / weekday

- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

Choose or define a value

Value Selection Settings **Data Import** ⚠

Data Import			
Activated	<input checked="" type="checkbox"/>	Import-File	C:\Users\max.stricker\Downloads\Stückza...
Format	CSV	Time plan	File Watch
Time changeover	<input checked="" type="checkbox"/>	Time zone	Europe/Berlin UTC+1
Encoding	UTF-8	Delimiter	;
Ignore Errors	<input checked="" type="checkbox"/>		
Header count	<input type="checkbox"/>		
Name	<input type="checkbox"/>		
Numerical Value	Data field 3	Format 1	123.45
Date	Data field 1	Format	31.12.2018
⚠ Time	<input type="checkbox"/>		
Comment	<input type="checkbox"/>		

Example

```
31.12.2018;;123.45
31.12.2018;;123.45
...
```

Cancel Apply

1 Click the **Format** dropdown button.

- i** Information about this CSV file:
- i**
- i** ▪ No name line / header line
- i** ▪ No calendar week / weekday

- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

Choose or define a value

Value Selection Settings **Data Import** ⚠

Data Import			
Activated	<input checked="" type="checkbox"/>	Import-File	C:\Users\max.stricker\Downloads\Stückza...
Format	CSV	Time plan	File Watch
Time changeover	<input checked="" type="checkbox"/>	Time zone	Europe/Berlin UTC+1
Encoding	UTF-8	Delimiter	;
Ignore Errors	<input checked="" type="checkbox"/>		
Header count	<input type="checkbox"/>		
Name	<input type="checkbox"/>		
Numerical Value	Data field 3	Format	123.45
Date	Data field 1	Format	123.45
⚠ Time	<input type="checkbox"/>		123,456.78
Comment	<input type="checkbox"/>		123,45
			123.456,78

Example

31.12.2018;;123.45
31.12.2018;;123.45
...

Cancel Apply

1 Select the desired format from the list.

- i** Information about this CSV file:
- i**
- i** ▪ No name line / header line
- i** ▪ No calendar week / weekday

- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

Choose or define a value

Value Selection Settings **Data Import** ⚠

Data Import			
Activated	<input checked="" type="checkbox"/>	Import-File	C:\Users\max.stricker\Downloads\Stückza...
Format	CSV	Time plan	File Watch
Time changeover	<input checked="" type="checkbox"/>	Time zone	Europe/Berlin UTC+1
Encoding	UTF-8	Delimiter	;
Ignore Errors	<input checked="" type="checkbox"/>		
Header count	<input type="checkbox"/>		
Name	<input type="checkbox"/>		
Numerical Value	<input type="checkbox"/>	Data field 3	Format 123,45
Date	<input type="checkbox"/>	Data field 1	Format 31.12.2018
⚠ Time	1 <input checked="" type="checkbox"/>		
Comment	<input type="checkbox"/>		

Example

```
31.12.2018;;123,45
31.12.2018;;123,45
...
```

Cancel Apply

1 Click the **Time** button.

- i** Information about this CSV file:
- i**
- i** ▪ No name line / header line
- i** ▪ No calendar week / weekday

- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

Choose or define a value

Value Selection Settings **Data Import**

Data Import					
Activated	<input checked="" type="checkbox"/>		Import-File	C:\Users\max.striker\Downloads\Stückza	
Format		CSV	Time plan	File Watch	
Time changeover	<input checked="" type="checkbox"/>		Time zone	Europe/Berlin UTC+1	
Encoding		UTF-8	Delimiter	;	
Ignore Errors	<input checked="" type="checkbox"/>				
Header count	<input type="checkbox"/>				
Name	<input type="checkbox"/>				
Numerical Value		Data field	3	Format	123,45
Date		Data field	1	Format	31.12.2018
Time	<input checked="" type="checkbox"/>	Data field	1	Format	23:59
Comment	<input type="checkbox"/>				

Example

31.12.2018;23:59;123,45
31.12.2018;23:59;123,45
...

1 Click the **Arrow areas** in the **Data field (time)** input field to define the column in which the corresponding information is displayed.

- i** Information about this CSV file:
- i**
- i** ▪ No name line / header line

- i** ▪ No calendar week / weekday
- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

Choose or define a value X

Value Selection Settings **Data Import**

Data Import					
Activated	<input checked="" type="checkbox"/>		Import-File	C:\Users\max.striker\Downloads\Stückza...	
Format		CSV	Time plan	File Watch	
Time changeover	<input checked="" type="checkbox"/>		Time zone	Europe/Berlin UTC+1	
Encoding		UTF-8	Delimiter	;	
Ignore Errors	<input checked="" type="checkbox"/>				
Header count	<input type="checkbox"/>				
Name	<input type="checkbox"/>				
Numerical Value		Data field	3	Format	123,45
Date		Data field	1	Format	31.12.2018
Time	<input checked="" type="checkbox"/>	Data field	2	Format	23:59
Comment	<input type="checkbox"/>				

Example

31.12.2018;23:59;123,45
31.12.2018;23:59;123,45
...

Cancel
1
Apply

1 Click the **Apply** button.

- i** Information about this CSV file:
- i**
- i** ▪ No name line / header line

- i** ▪ No calendar week / weekday
- i** ▪ No comment column
- i** ▪ Hourly values
- i** ▪ The separator is a semicolon
- i**
- i** Layout of the content:
- i** Column 1: Date (format: DD:MM:YYYY)
- i** Column 2: Time (format: MM:HH)
- i** Column 3: Value (format 123.45)

9 Representation in the GridVis

Please enter your text here.

Configuration

The configuration must be created once when creating the data import based on the structure of the import file.

Using the data

After the import, the data can be used in the following parts of the GridVis software:

- Virtual devices
- Reports and exports
- Key performance indicators (KPI)
- Sankey diagram (quantity flow diagram)
- Dashboards and widgets

File monitoring

The import file is monitored in the background using GridVis Service. New data is automatically loaded into the GridVis software.

Possible applications

- System variables (current, voltage, power, etc.)
- Employee & shift figures
- Quantities
- Degree day numbers for weather adjustment
- Water consumption
- Fuel consumption