
Rillsoft Project

Release 9

Rillsoft GmbH

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LEGAL NOTICE

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INTRODUCTION

Rillsoft Project is a high-performance software tool for project management, assisting you in project scheduling, capacity planning and management resource planning.

Rillsoft Project provides the following functions for all project stages

- **Project scheduling and management resource planning**

- scheduling personnel resources in the form of:
 - * roles,
 - * teams,
 - * employees.
- flexibly recording of roles by different levels of qualification with graded cost rates.
- defining teams by:
 - * capacity and costs per hour,
 - * assigned employees.
- recording employees by
 - * assignation to several teams,
 - * simultaneous assignation to several roles with different qualifications, costs and stages of productivity,
 - * independent determination of non-working days (holidays, sickness).
- evaluation of available capacity and usage of roles and employees at any time.
- assigning employees on the basis of their roles and qualifications by means of an assistant program.
- entering the work result of activities (pit 180 m3).
- displaying the activity effort by entering employee days (such as 5 ED).
- describing and administering the required materials and machines.
- applying several calendar for the individual resources and a flexible scheduling.
- multiproject planning and project portfolio.
- evaluating excess and shortfall of personnel resources (supply minus demand = contingency).
- using subprojects and WBS codes to structure the project.
- viewing the project details from different perspectives.

- **Project controlling and project execution analysis**

- updating the project by recording the completion percentage of the activities.

- providing a variance analysis which matches the parameters, such as time, costs and resource utilization, of the target to those of actual.
- quickly detecting deviances from actual by means of a progress line and a baseline.
- controlling the project financing.

- **Project management**

conciliating the actual with the target

- assigning or reassigning employees to and from activities in the ongoing project.
- assigning personnel to critical activities, in order to speed up execution.

conciliating the target with the actual

- separating of completed activities from waiting activities.
- shifting of delayed activities to the cutoff date.
- optimising of resource utilization of not yet completed project activities.

- **Reports**

- Gantt chart, resource and capacity views can be exported to MS Excel.
- All views can be printed out as PDF files.

WORKING IN NETWORKS

In order to avoid conflicts between resources, all users of the network should share the same resource pool file. After the start Rillsoft Project accesses the resource pool.

You can check below in the left corner of the status bar, where to find your resource pool.



There is a difference between file-based solution and data-based solution (Rillsoft Project with interface to Rillsoft Integration Server).

File-based solution

Resource pool is a xml-file, it is located in the application folder.

For a networking or **floating license** would be right if this file indicates a network path such as **\\Server_Name\Rillsoft Project** or a mapped folder e.g. **R:\Rillsoft Project**. A local path such as **C:\Rillsoft Project** would be wrong for a **floating license**.

Change local folder to network folder (it is relevant only for floating license)

If your resource pool file indicates an incorrect (local) path, proceed as follows:

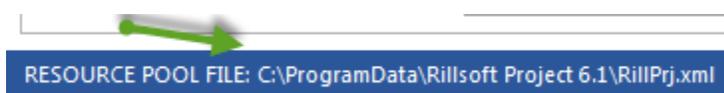
- Using Windows Explorer copy local Rillsoft folder, where is your resource pool file, to the Clipboard
- Then paste it into a network folder on the server
- Click **File > Resource pool > File > Select**
- In the dialog **open** select the inserted Rillsoft folder with resource pool file on the server
- Set a resource pool file from the Rillsoft folder on the server
- In the left corner of the status bar, check if your resource pool file uses the correct path.

Rillsoft Project offers a separate file repository, that is, program files are saved in the program folder and user files - in the user folder. During installation all users will be granted full access to the user folder (data folder).

Users do not require a write access for the program folder.

Data-based solution (Rillsoft Project with interface to Rillsoft Integration Server)

Resource pool is saved in a central database.



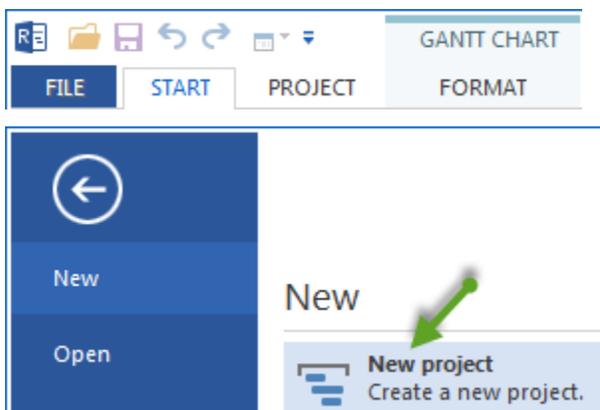
WORK WITH PROJECT

4.1 New Project

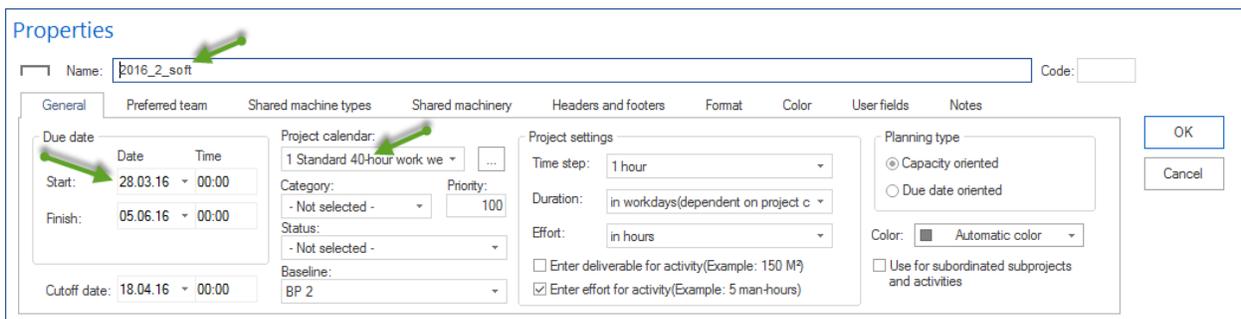
4.1.1 Create new project

In order to create a new project, do as follows:

1. Select the menu item **File > New > New Project**.



2. Select the menu item **Start > Property > Project**. The new project and the window Project properties appears.



3. Enter the project name in the field **Name**.
4. Enter the **Start date** and **Finish date** of the project in the tab **General** in the field **Due date**.
5. In the drop down list **Project calendar**, select the calendar you want to use for the project.
6. Click on the button **OK**.

4.1.2 Open project

In order to open a project (also projects in XML format), do as follows:

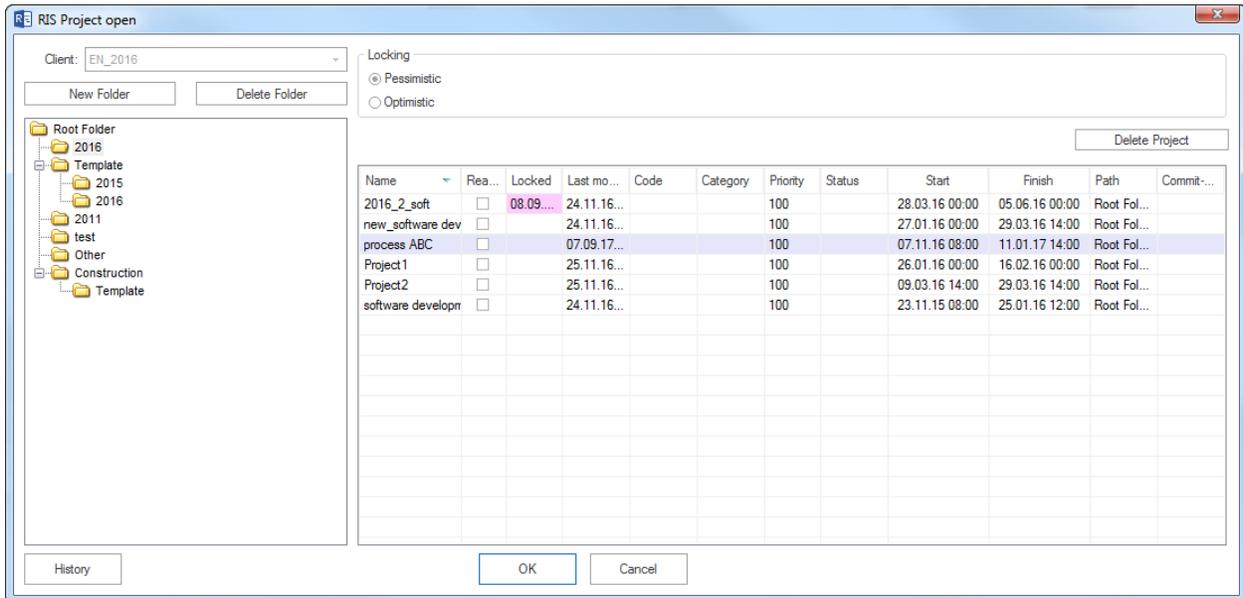
- Select the menu item **File > Open > File > Project**. The dialogue **Open** appears.
- Select the preferred project file.
- Click on the button **Open**.

Note:

Projects of other formats, such as in XML format you can open by clicking **File > Import**.

Data-based solution (Rillsoft Project & Interface to Rillsoft Integration Server)

1. Select the menu item **File > Open > Rillsoft Integration Server > Project**. The dialogue **Open** appears.



2. Select the preferred project.
3. Click on the button **OK**.

4.1.3 New project from template

In order to work with templates, at first, you have to save a project by selecting the menu item **File > Save as template**.

In order to create a new project from a template, do as follows:

- Select the menu item **File > New > New project from template** or **New project from Rillsoft Integration Server template**.
- Select the preferred project file in the appearing window.
- Click on the button **Open** or **Ok**.
- The dialogue **Select activities from templates** opens.

Select of Activity from Template

Start: 07.09.17 00:00

Finish: 08.11.17 14:00

For all activities change: Duration Scale factor: 1

Nr.	Name	Start	Finish	Notes
<input checked="" type="checkbox"/>	software development process	25.11.10 00:00	26.01.11 14:00	
<input checked="" type="checkbox"/>	1 project planning and oversight	25.11.10 08:00	14.12.10 11:00	
<input checked="" type="checkbox"/>	1.1 software development planning	25.11.10 08:00	29.11.10 10:00	
<input checked="" type="checkbox"/>	1.2 system test planning	25.11.10 08:00	01.12.10 15:00	
<input checked="" type="checkbox"/>	1.3 software installation planning	01.12.10 15:00	02.12.10 16:00	
<input checked="" type="checkbox"/>	1.4 software installation planning	06.12.10 08:00	10.12.10 12:00	
<input checked="" type="checkbox"/>	1.5 software transition planning	06.12.10 08:00	08.12.10 17:00	
<input checked="" type="checkbox"/>	1.7 following and updating plans	10.12.10 13:00	14.12.10 11:00	
<input checked="" type="checkbox"/>	2 establishing a software development enviro...	14.12.10 11:00	27.12.10 11:00	
<input checked="" type="checkbox"/>	2.1 software engineering environment	14.12.10 11:00	21.12.10 11:00	
<input checked="" type="checkbox"/>	2.2 software test environment	14.12.10 11:00	15.12.10 14:00	
<input checked="" type="checkbox"/>	2.3 software development library	14.12.10 11:00	16.12.10 17:00	
<input checked="" type="checkbox"/>	2.4 software development files	17.12.10 08:00	23.12.10 12:00	
<input checked="" type="checkbox"/>	2.5 non-deliverable software	23.12.10 13:00	27.12.10 11:00	
<input type="checkbox"/>	3 system requirements analysis	27.12.10 11:00	04.01.11 09:00	
<input type="checkbox"/>	3.1 analysis of user input	27.12.10 11:00	29.12.10 15:00	
<input type="checkbox"/>	3.2 operational concept	29.12.10 15:00	04.01.11 09:00	
<input type="checkbox"/>	3.3 system requirements	29.12.10 15:00	31.12.10 14:00	
<input checked="" type="checkbox"/>	4 system design	29.12.10 15:00	05.01.11 17:00	
<input checked="" type="checkbox"/>	5 software requirements analysis	29.12.10 15:00	04.01.11 12:00	
<input checked="" type="checkbox"/>	6 software implementation and unit testing	07.01.11 08:00	13.01.11 17:00	
<input checked="" type="checkbox"/>	6.1 software implementation	07.01.11 08:00	13.01.11 17:00	
<input checked="" type="checkbox"/>	6.2 unit testing	07.01.11 08:00	12.01.11 16:00	
<input checked="" type="checkbox"/>	6.3 test case/procedure implementation	07.01.11 08:00	12.01.11 17:00	
<input checked="" type="checkbox"/>	7 unit integration and testing	07.01.11 08:00	12.01.11 10:00	
<input checked="" type="checkbox"/>	8 qualification testing	12.01.11 10:00	14.01.11 16:00	
<input checked="" type="checkbox"/>	9 system qualification testing	14.01.11 16:00	20.01.11 11:00	

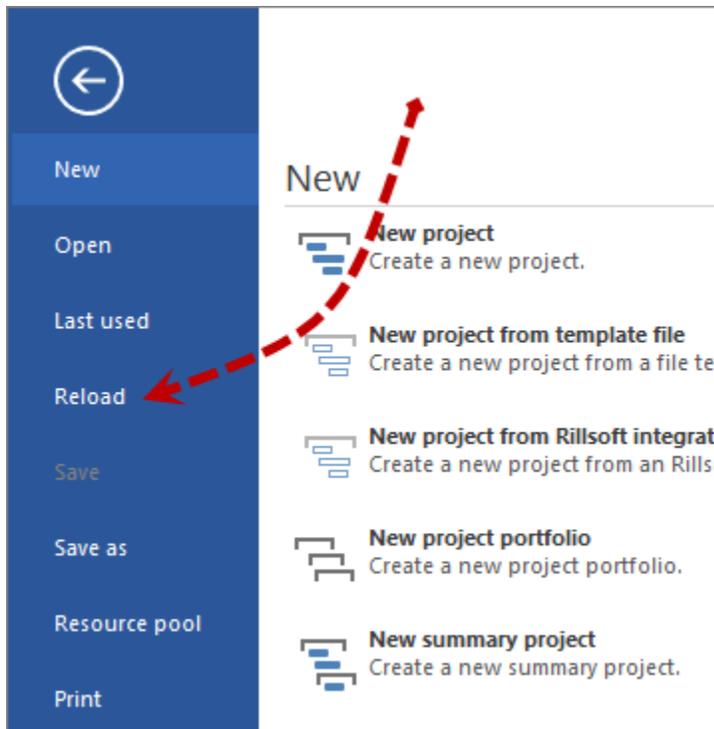
OK Cancel

- You can use the field **Start** to define the time the new project should start.
- You can use the field **Finish** to define the time the new project should finish.
- In the marked field **Change in all activities**, you can change either the **Duration** or **Effort** or **Output** of the marked activities by the **Proportionality factor**.
- It lists all activities and subprojects from the template.
- Mark the activities and subprojects that you want to include in the project.
- Click on the button **OK**.

4.1.4 Reload project

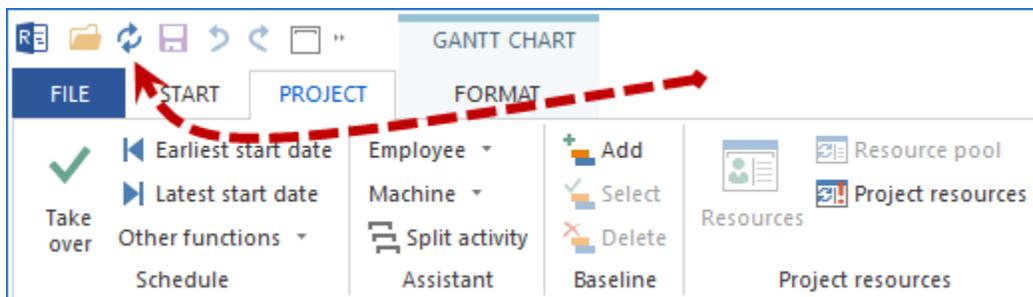
If you are working in a multi-user environment, it may often be necessary to reload a project where several people are working on different projects at the same time in order to view their changes.

With the help of the menu item **File > Reload Project > Portfolio** you can reload the current portfolio.

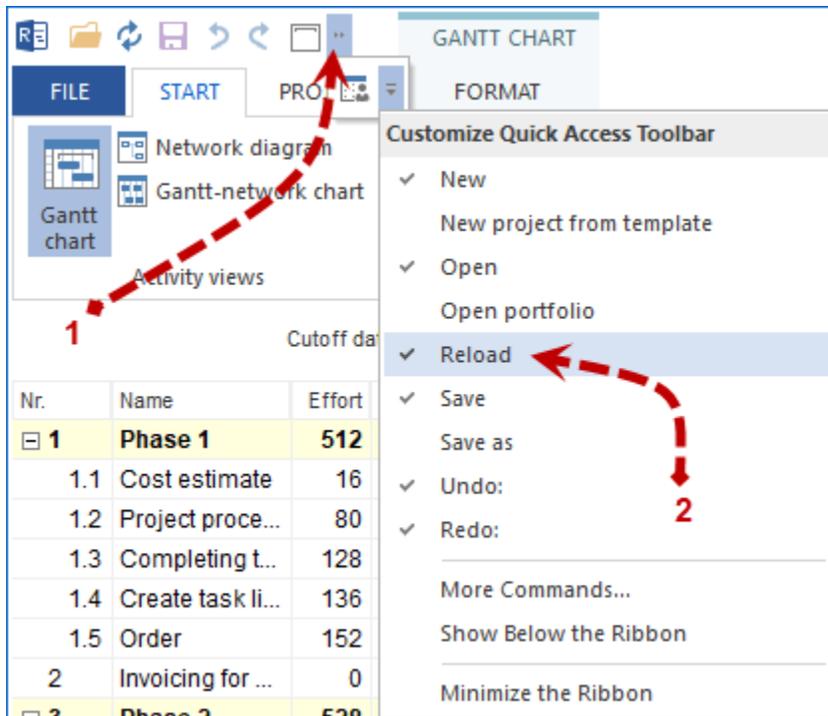


Alternatively, you can use a quick access.

Click the **Reload** icon on the **Quick Access Toolbar**.



Notes: If the **Reload** icon is not present, you can select **Reload** from the **Customise Quick Access Toolbar** menu item.

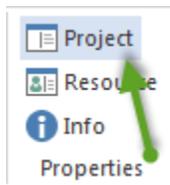


4.2 Set project properties

4.2.1 Define project properties

In order to define the project properties, do as follows:

Select the menu item **Start >Properties >Project**.



The window Object properties for the project opens below:

Properties

Name: 2016_2_soft Code: _____

General Preferred team Shared machine types Shared machinery Headers and footers Format Color User fields Notes

Due date: Start: 28.03.16 00:00 Finish: 05.06.16 00:00 Cutoff date: 18.04.16 00:00

Project calendar: 1 Standard 40-hour work we ...

Category: - Not selected - Priority: 100

Status: - Not selected -

Baseline: BP 2

Project settings: Time step: 1 hour Duration: in workdays(dependent on project c Effort: in hours

Enter deliverable for activity(Example: 150 M³) Enter effort for activity(Example: 5 man-hours)

Planning type: Capacity oriented Due date oriented

Color: Automatic color Use for subordinated subprojects and activities

OK Cancel

Enter the project name in the field **Name**.

Enter the project code in the field **Code**.

Enter the fields **Start date** and **Finish date** of the project in the tab **General** in the area **Due date**.

In the field **Cut off date**, enter the date on which the project progress was last updated.

Note: The cut off date is meant to be entered for the controlling and management of ongoing projects. The cut off date should be identical with the start date of the project to ensure correct scheduling.

In the drop down list **Project calendar** select the calendar you want to use for the project.

The button  allows the quick access to the actual calendar.

In the drop down list **Category** select the category you want to use for the project.

Note: You can create a drop down menu for the category in the menu item **Start > Properties > Resource > Project categories**.

In the field **Priority** enter a value between 1 and 1000. The higher the priority of a project is, the more resources can be assigned to it during capacity alignment in relation to other projects in the project portfolio.

Note: Priority must not be **0**.

In the drop down list **Status** select the status you want to use for the project.

Note: You can create a drop down menu for the status in the menu item **Start > Properties > Resource > Project status**.

In the drop down list **Baseline** select the baseline you want to use for the variance analysis.

Note: This selection requires you, at first, to save a baseline via the menu item **Project > Baseline > Add**.

In the drop down list **Time step** select the interval for the automatic rounding of start and finish dates as well as duration.

In the drop down list **Duration** select the measurement unit you want to use for the duration measuring.

In the drop down list **Effort** select the measurement unit you want to use for the effort measuring. On workdays (depend on calendar project) - workdays duration depends on the project calendar On workdays (8-hour workday) – a workday is 8 hours. Choose from the drop down list effort measuring units to use in order to measure the effort. On workdays (depend on calendar project) – a man day depends on the project calendar On workdays (8-hour workday) – a man day is 8 hours.

Activate the check box **Enter activity work results** if you want to display the activity work results using the entering of measurement units and quantities (such as 150 m3).

Activate the check box **Enter activity effort** if you want to display the activity effort using the entering of man-days (such as 5 ED).

In the area **Planning type** you can define whether your project plan will be calculated capacity or due date oriented.

Activate the check box **Capacity oriented**, if the available resources are sufficient and should not be overloaded. It can extend the activity duration and move tasks if assigned employees have nonworking days during the activity time.

Activate the check box **Due date oriented**, if you want to keep the activity and project due date in any case. If assigned employees have nonworking days during the activity time, negative effort is calculated for an activity that has a difference between an effort that is assigned to roles and the effort that is covered by the employee with the requested role.

In the drop down list **Color** select the color you want to use for the project/subproject bars.

Activate the check box **Use the subordinated subprojects and activities** if you want all the project / subproject related activities to be displayed in the same color.

Click on the button **OK**.

4.2.2 Preferred teams

You can use the tab **Preferred teams** to assign particular teams to the project. In calculating the project the capacity planning for the personnel includes only employees that are members of the **Preferred teams**. You can also edit the list **Preferred teams** later.

Properties

Name: Project2 Code:

General Preferred team Shared machine types Shared machinery Headers and footers Format Color Userfields Notes

Filter: 4 Assigned teams: Resource pool

Nr.	Working group	C...	Team	Calendar
11.001	North			
12.001	South			
13.001	East			
14.001	West			

Nr.	Working group	Code	Team	Calendar

OK Cancel

In order to define ****Preferred teams**, do as follows:**

- Activate the tab **Preferred teams** in the window **Project** properties.
- Doubleclick on a team in the left table to define a preferred team.
- Click on the button **OK**.

4.2.3 Define machine types that can be shared

Machine types that can be shared can be used by predefined activities simultaneously without increasing the number of machines.

The costs are not allocated to the individual activities; they are calculated as a whole and for each of the activity separately.

Example 1 (shared machine types) Scaffolding is defined as a shared resource and will be used for several activities, such as window installation or facade plaster. In case of time conflicts of the activities using this resource, the number of the required scaffold is not added up, but remains constant on defined number level.

Example 2 (separately used machine types allocated to activities) A special drilling machine is allocated in the activity properties as machine used for several activities. In case of a time conflict of the activities using this resource, the number of the required machines will be added up.

In order to define **shared machine types**, do as follows:

- Activate the tab **Machine types that can be shared** in the window **Project** properties.

Properties

Name: Project1 Code:

General Preferred team Shared machine types Shared machinery Headers and footers Format Color Userfields Notes

Filter: 2 Assigned machine types: Resource pool

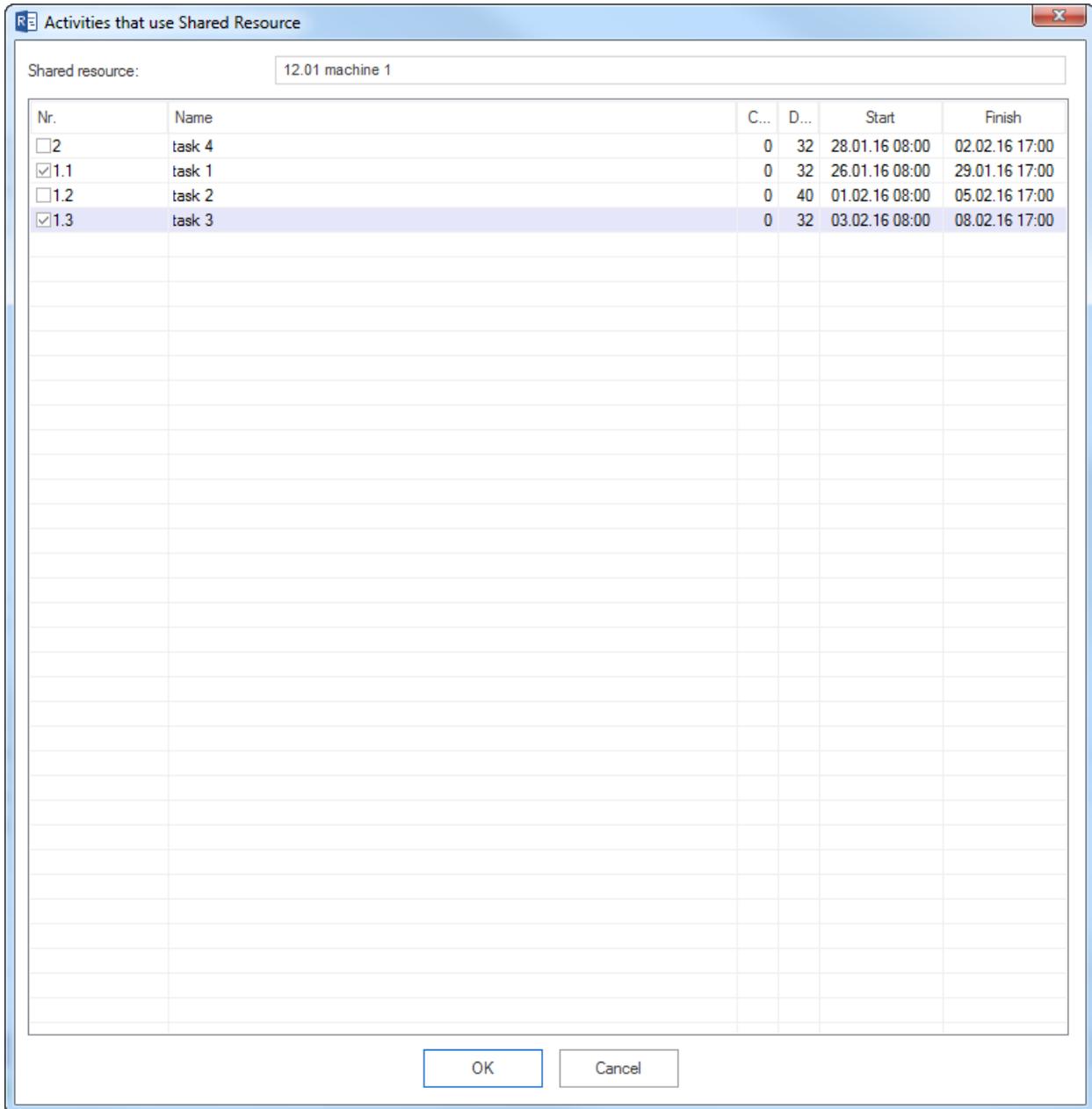
Nr.	Machine groups	Machine type
12.001	Rotate machine	
13.001	Milling machine	

Nr.	Machine groups	Machine type	Q...	Ut...	Activities	Notes
12.001	Rotate machine		1	100	...	

OK Cancel

- Doubleclick on a machine type in the left table to define it as a shared machine type.

- Enter the **Number** of the required machine types and their **Load** in the table to the right.
- Click on the button in the column **Activities**. The dialogue **Activities using the same resources** opens:



- Select from the activities list the ones that should share the machine type.
- Click on the button **OK**. The selected activities are entered in the column **Activities**.
- Click on the button **OK**.

Note:

- You can reduce the drop down list of machine types by entering a string value of the group name, the name or code in the field **Filter**.

The view **Machine types** (tab Project properties) shows each of the shared machine types separately. The table of the selected, commonly usable machine types shows each of the shared machine types separately.

4.2.4 Define machinery that can be shared

Machinery that can be shared can be used by predefined activities simultaneously without increasing the number of machines.

The costs are not allocated to the individual activities; they are calculated as a whole and for each of the activity separately.

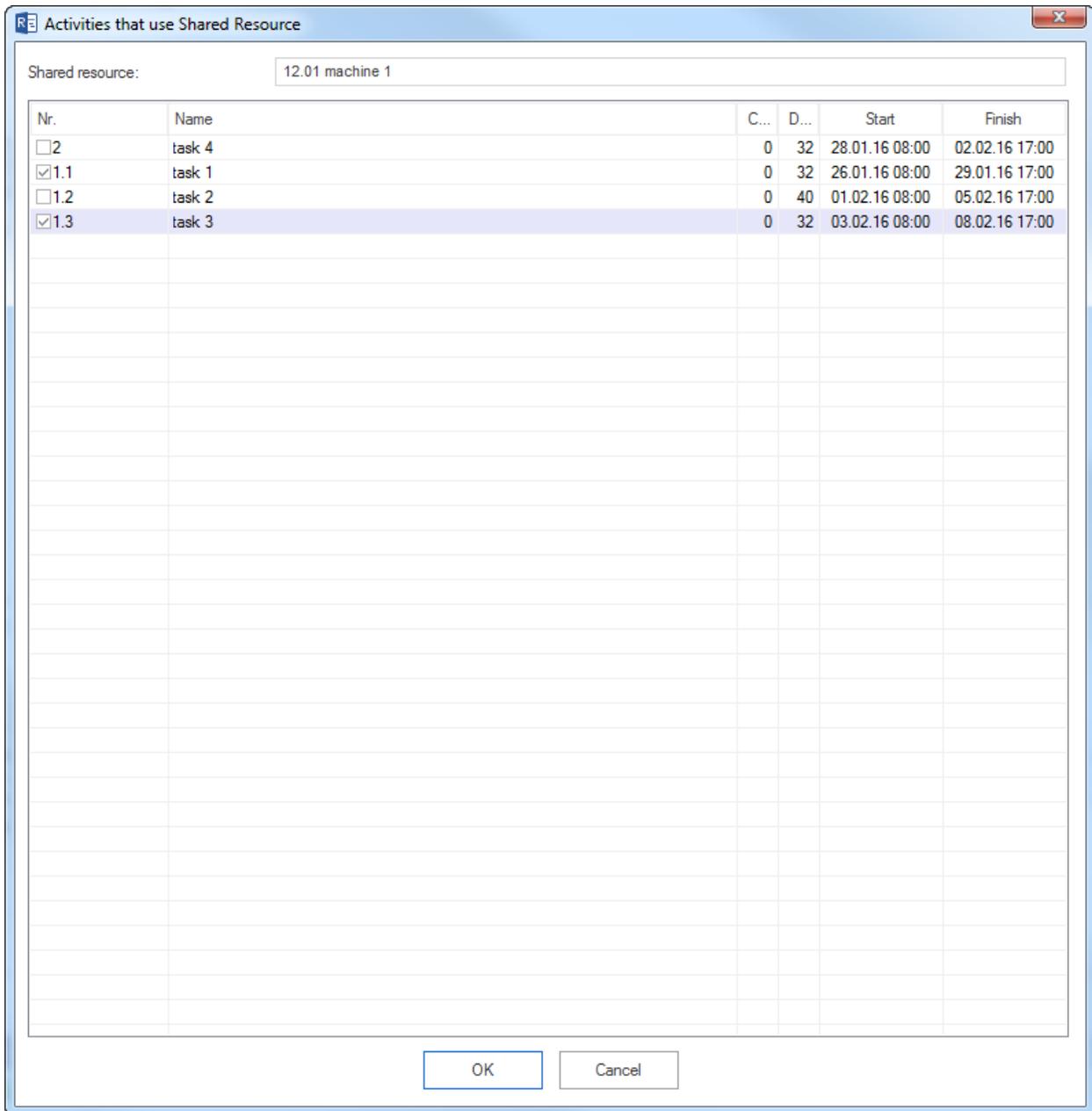
Example 1 (shared machinery) Scaffolding is defined as a shared resource and will be used for several activities, such as window installation or facade plaster. In case of time conflicts of the activities using this resource, the number of the required scaffold is not added up, but remains constant on defined number level.

Example 2 (separately used machinery allocated to activities) A special drilling machine is allocated in the activity properties as machine used for several activities. In case of a time conflict of the activities using this resource, the number of the required machines will be added up.

In order to define a shared machine, do as follows:

- Activate the tab **Machinery that can be shared** in the window Project properties.

- Doubleclick on a machine in the left table to define it as a shared machine.
- Enter the **Load** of the required machines in the table to the right.
- Click on the button  in the column **Activities**. The dialogue **Activities using the same resources** opens:



- Select from the activities list the ones that should share the machines.
- The selected activities are entered in the column **Activities**.
- Click on the button **OK**.

Note:

- You can reduce the drop down list of machines by entering a string value of the group name, the name or code in the field Filter.

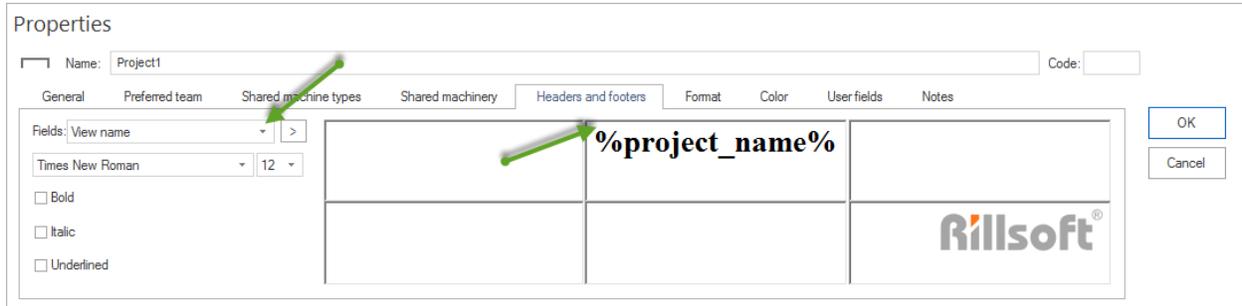
The view **Machinery** (tab Project properties) shows each of the shared machines separately.

The table of the selected, commonly usable machinery shows each of the shared machines separately.

4.2.5 Define header and footer

You can use the header and footer to define the print format of a project schedule. In this case, you do not have to set the headers and footers for each of the pages separately, but all at once.

You can adjust titles (left-top, ... right-bottom, see below) to your requirements.



In order to define the headers and footers of a project, do as follows:

- Activate the tab **Headers and footers** in the window Project properties.
- Click on one of the fields and enter your text or select a predefined field in the drop down list **Fields**.
- If necessary, repeat Step 2 for all the other fields.
- Click on the button **OK**.

Table fields:

View name	Name of the view
Project name	name of the project
Project start time	Time of the project's beginning
Project start date	Date of the project's beginning
Project ending time	Time of the project's ending
Project end date	Date of the project's ending
Project costs	Total costs
Project effort	Total effort
Project user defined fields	Free defined fields for project information
Subproject name	Name of the subproject
Subproject start time	Time of subproject's beginning
Subproject start date	Date of subproject's beginning
Subproject ending time	Time of the subproject's ending
Subproject end date	Date of the subproject's ending
Subproject costs	Total costs
Subproject effort	Total effort
Subproject user defined fields	Free defined fields for subproject information
Cut-off date time	Time of the project's cut-off date
Cut-off date	Date of the project's cut-off
Last saving time	Time of the last project's saving
Last saving date	Date of the last project's saving
Printing time	Time of the project's printing
Printing date	Date of the project's printing

Note:

- You can print all the project views.

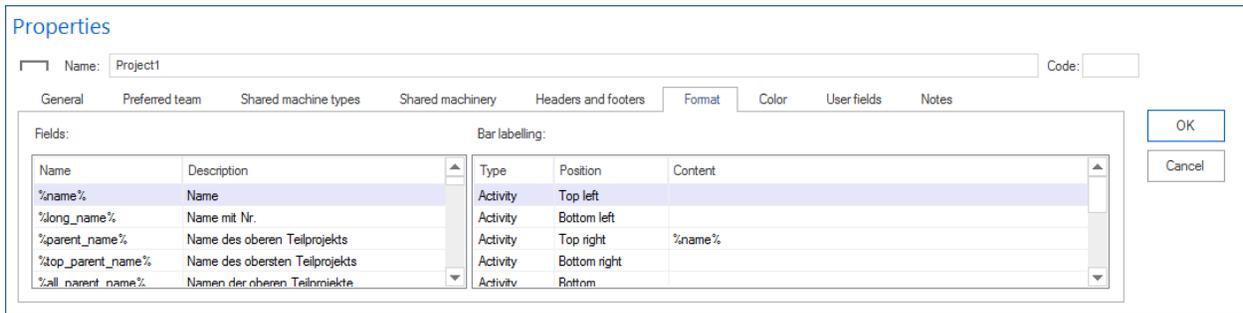
- You can format the texts in the individual fields by means of the corresponding functions.

4.2.6 Define format

You can define the bar labelling and colour for activities and subprojects at your convenience.

In order to define the format, do as follows:

- Activate the tab **Format** in the window Project properties.



You can use the area **Bar labelling** to define the bar labelling of activities and subprojects.

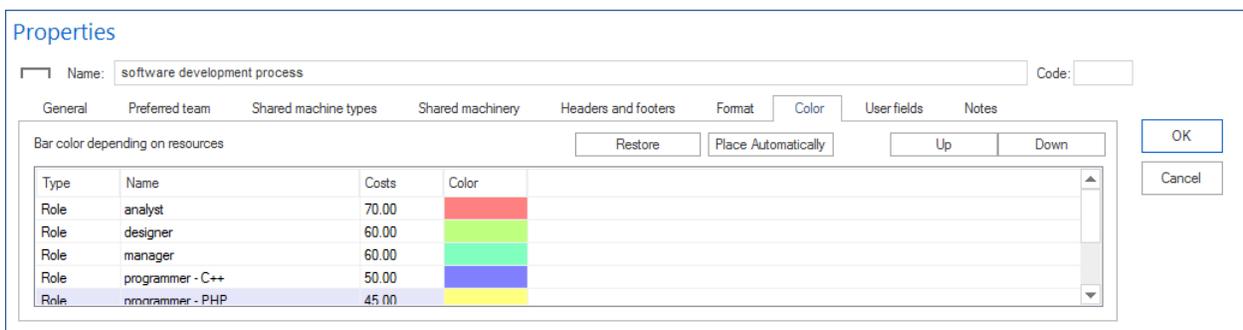
- The **Type** column shows which object – an activity or a subproject - is labelled.
- The **Position** column indicates the labelling position.
- The **Content** column indicates the selected labelling.
- Set the cursor on the area **Bar labelling** according to the required position in the corresponding row.
- Then switch to area **Fields** and choose a variable that should be integrated into the labelling.
- By double-clicking it will be copied in the field **Bar labelling**.
- Finally, click on the button **OK**.

4.2.7 Define color

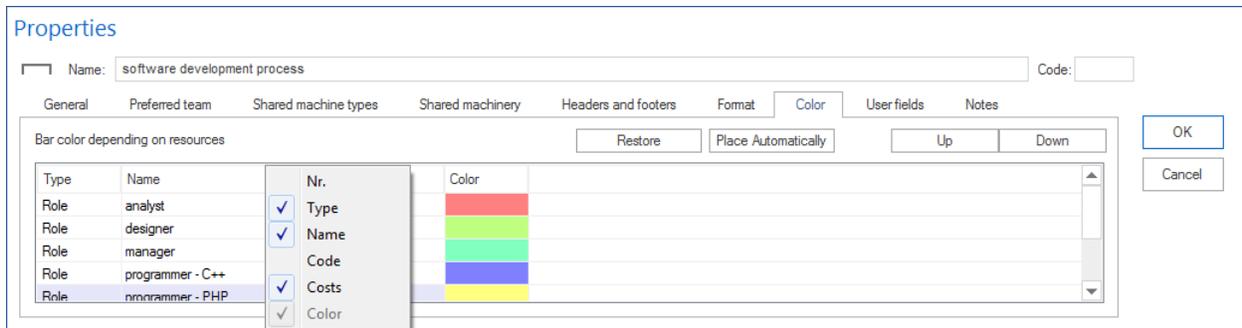
You can define the bar color for the activities and subprojects at your convenience.

To define the color depending on resources:

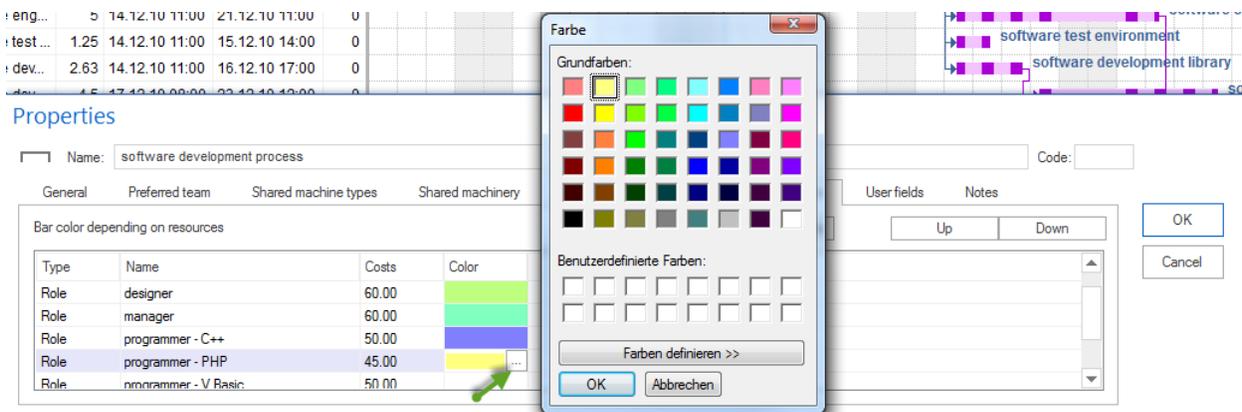
1. Activate the **Color** in the project properties window.



2. If you click the right mouse button on the table area, you can define which columns appear in the table.



3. The column **Type** indicates whether there is a role, team, employee, or machine.
4. The column **Name** includes resources that are planned in the project/portfolio.
5. After clicking the left mouse button on the preferred row of column **Color** and pressing the button with three dots, you can set color for activities, where the resource, such as Project management, is planned.



6. If, for example, two different colours of an activity are associated with defined resources, the activity is represented by the resource color, which is on a higher position in the list.
7. **Restore** - delete all of the dependency rules.
8. **Set automatically** - distribute resources colors automatically.
9. **Up** – increase the resource priority in the color allocation.
10. **Down** – reduce the resource priority of in the color allocation.
11. Click on the button **OK**.

4.2.8 Create user-defined fields

You can view user-defined fields in the tables or print them.

In order to create an user-defined field, do as follows:

- **Activate the tab User-defined fields in the window Project properties.**

Properties

Name: software development process Code:

General Preferred team Shared machine types Shared machinery Headers and footers Format Color **User fields** Notes

Nr.	Name	Text
1	Person of charge	
2		
3		
4		
5		
6		

OK Cancel

- Enter the field name in the **Name** column.
- Enter your information in the **Text** column.
- Click on the button **OK**.

Use formula

You can enter the project variable in user field and use formula.

Properties

Name: Project1 Code:

General Preferred team Shared machine types Shared machinery Headers and footers **Format** Color User fields Notes

Name	Description	Type	Position	Content
%name%	Name	Activity	Top left	
%long_name%	Name with Nr.	Activity	Bottom left	
%parent_name%	Name of the upper subproject	Activity	Top right	%name%
%top_parent_name%	Name of the top subproject	Activity	Bottom right	
%all_parent_name%	Name of the upper subprojects	Activity	Bottom	
%project_category%	Project category	Subproject	Top left	
%project_status%	Project status	Subproject	Bottom left	
%project_priority%	Project priority	Subproject	Top right	%name%
%code%	Code	Subproject	Bottom right	
%start_time%	Start time	Subproject	Bottom	
%start_date%	Start date			
%finish_time%	Finish time			
%finish_date%	Finish date			

OK Cancel

Enter a formula in the project properties window in the tab **User fields** in the column **Text**.

In the formula you can use almost all the fields from the register **Format**.

Following basic operations **+**, **-**, **x**, **/** are available.

4.2.9 Enter notes & links

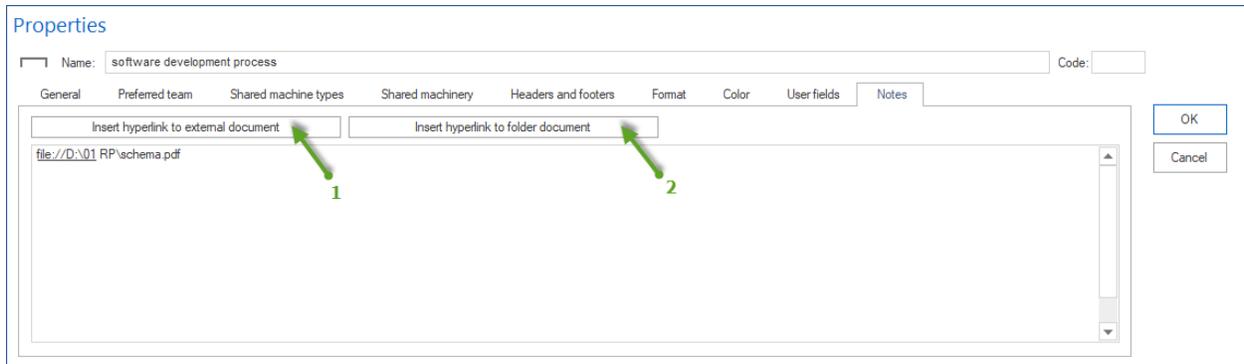
You can use this tab to enter your own notes and assign external links to the project / subproject or link the project / subproject to document or graphic files. You can use the following key words for links:

- <http://> for hyperlinks
- <https://>
- <mailto:>
- <ftp://>
- <news:>
- <telnet:>

- file: for document and graphic files

You may proceed as follows:

- Activate the tab **Notes** in the window Project/subproject properties



- Enter the text of your notes.
- If you click the **Add hyperlink to external document** button, you can create a reference to an internal file.
- If you click the **Add hyperlink to external folder** button, you can create a reference to an internal folder.
- To add a reference to external website, enter the required Internet address such as: <http://www.rillsoft.de/>
- Click on the button **OK**.

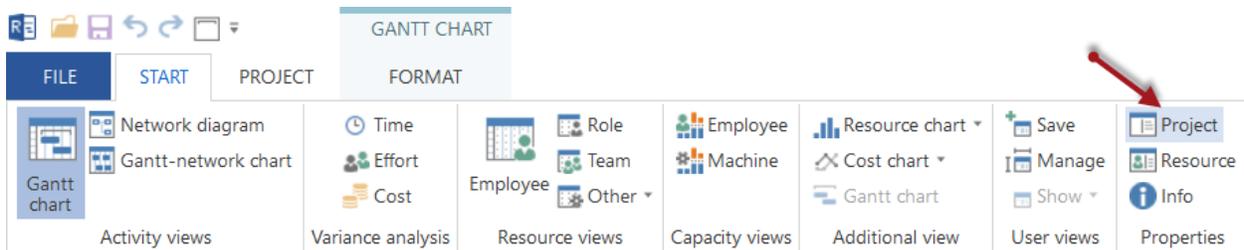
Alternatively: If you rightclick on the tab field in **Notes**, you can select one of the following commands in the context menu.



4.2.10 Documents(DMS)

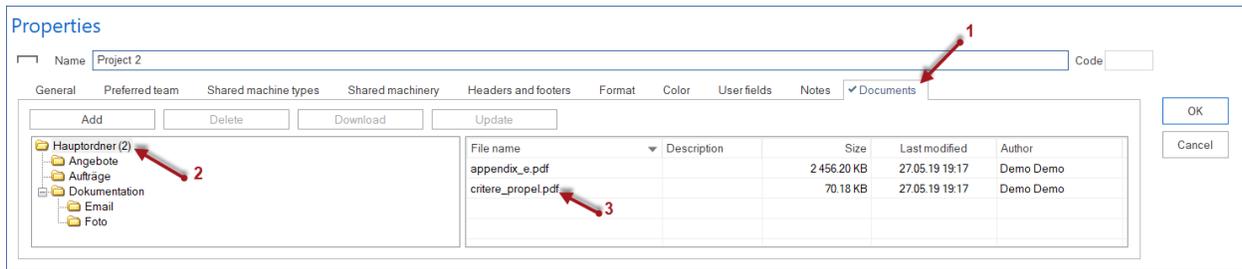
DMS (Document Management System) is only available in the database-based solution Rillsoft Project with Rillsoft Integration Server.

Click on **Start > Properties > Project**.



At the bottom of the Properties window, select the tab **Documents**.

On this tab you will see information divided into two sections.



The left pane shows a document-directory structure. Next to a directory name is the number of added documents.

When you click on a directory name, you will get a directory content with brief information in the right area.

You can edit documents by corresponding button:

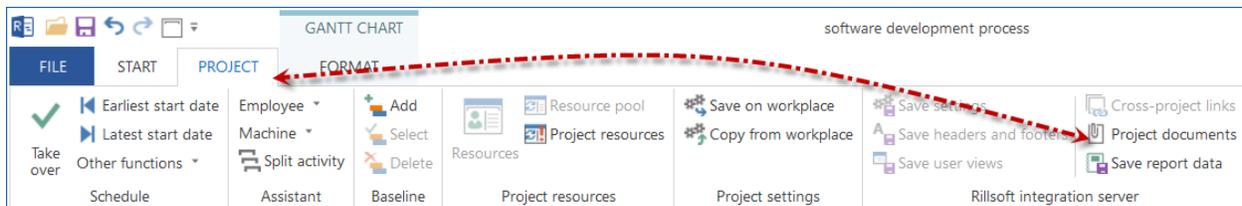
- Add
- Delete
- Download
- Update

Drag & Drop You can use this function here by dragging selected documents into the right area with the left mouse button pressed down. For example, email messages directly from Outlook to Rillsoft Project DMS.

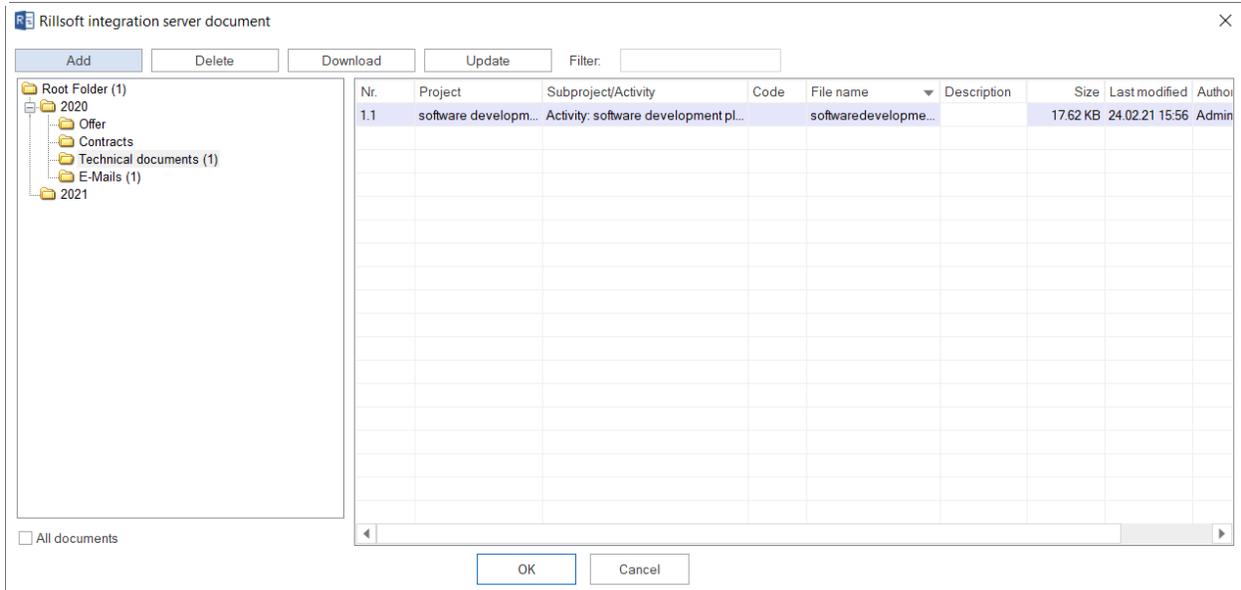
Documents manage in project or portfolio

All documents assigned to a project or portfolio can be managed in the dialog **Rillsoft Integration Server Document**.

Click on **Project > Rillsoft Integration Server > Project documents**.

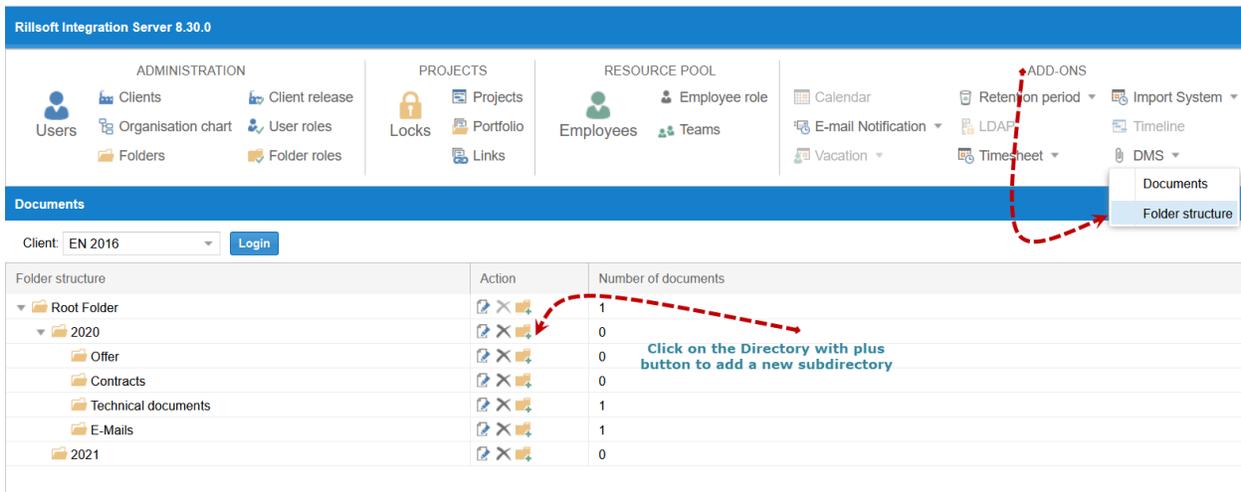


Here you can also filter out any documents.



Folder structure

You can define a folder structure in Rillsoft Integration Server.



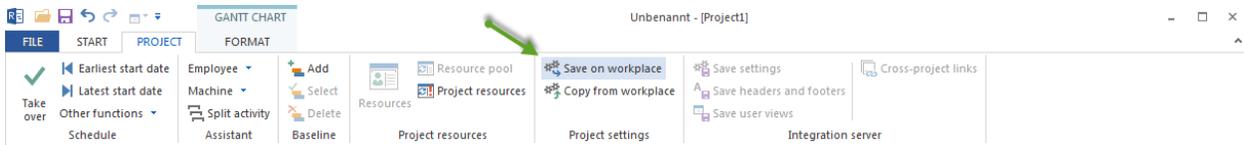
4.3 Settings for project and programme

4.3.1 Save settings in the workplace

The following settings can be saved in the workplace and used thereafter as default settings for other projects.

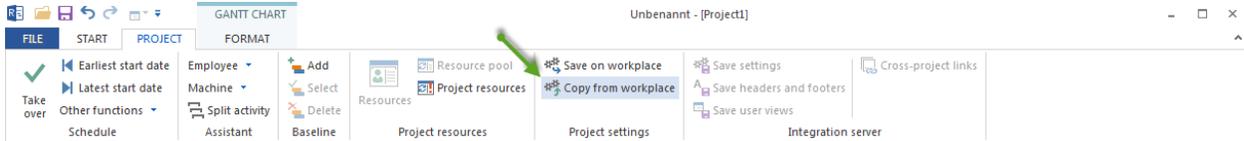
- Project properties as units of duration and effort etc.
- Arrangement of columns in tables
- Time scale representation

First you can adjust them according to your needs and then save by clicking on **Project > Project settings > Save in the workplace**.



4.3.2 Copy settings from the workplace

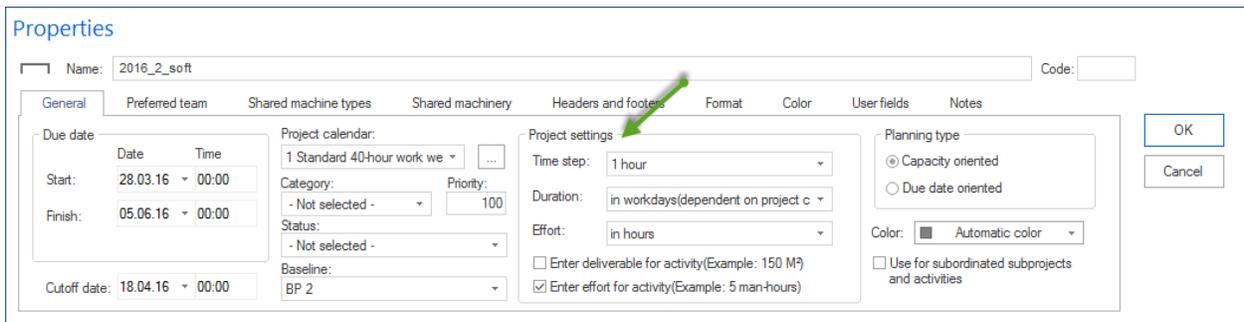
If you have previously set the settings and saved them in the workplace, you can take them for an open project by clicking on **Project > Project settings > Copy from the workplace**.



The following settings can be saved in the workplace and used thereafter as default settings for other projects.

- Project properties as units of duration and effort etc.
- Arrangement of columns in tables
- Time scale representation

You can set project properties in the object properties window.

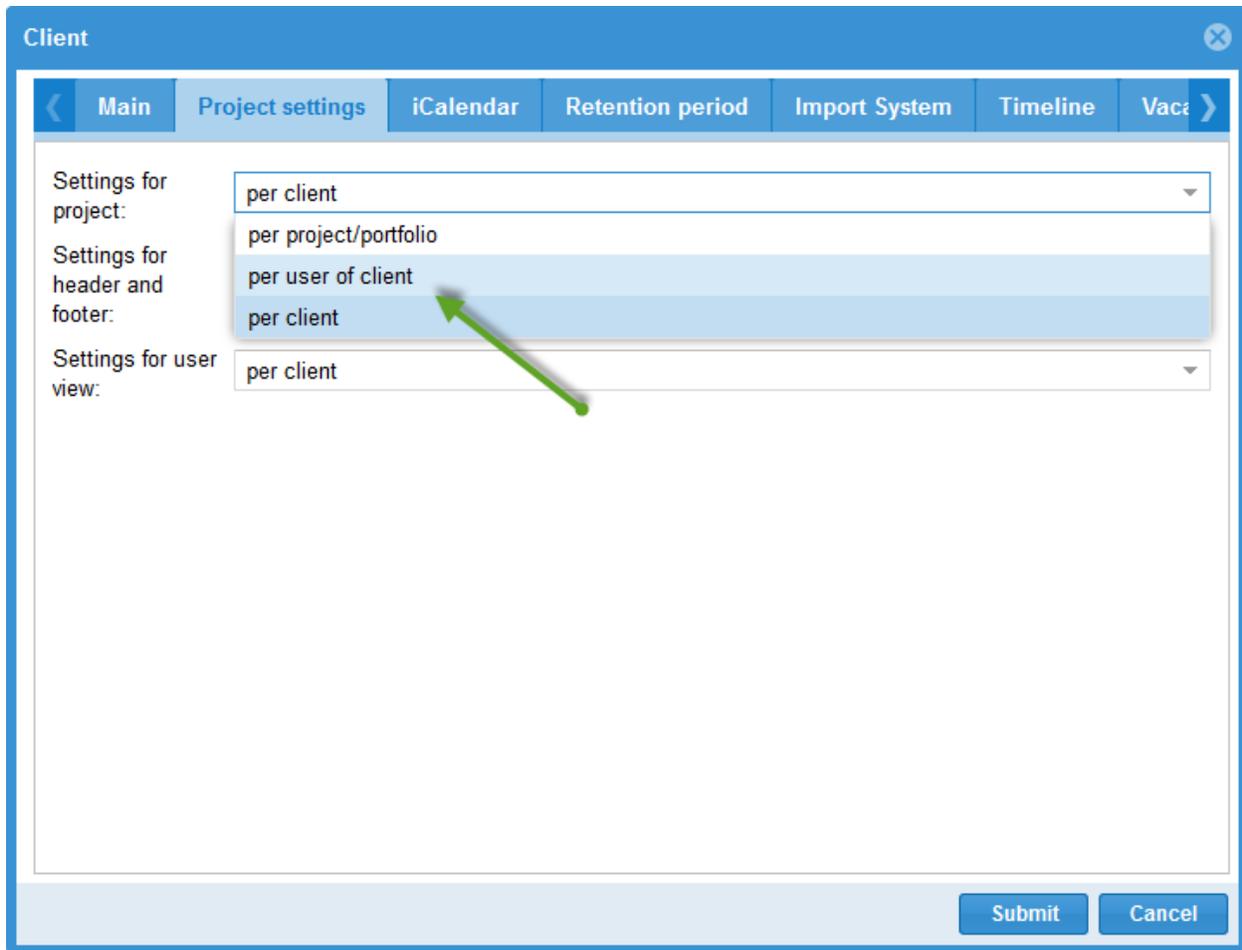


4.4 Settings for project with Rillsoft Integration Server

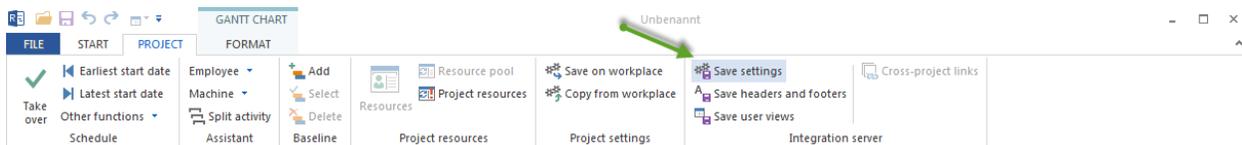
4.4.1 Save settings for project

This function is offered only in the Rillsoft with interface to Rillsoft Integration Server Solution.

The option is active, if settings are set either **per client** or **per user of client** in the client properties.



In order to save the settings for a project, please click on **Project > Rillsoft Integration Server > Save settings**.



The following settings can be used as default settings for other projects.

- Project properties as units of duration and effort etc.
- Arrangement of columns in tables
- Time scale representation

You can set project properties in the object properties window.

The screenshot shows the 'Properties' dialog box with the 'Headers and footers' tab active. A green arrow points to the 'Project settings' section. The 'Project settings' section contains the following fields and options:

- Time step:** 1 hour
- Duration:** in workdays(dependent on project c)
- Effort:** in hours
- Enter deliverable for activity(Example: 150 M³)
- Enter effort for activity(Example: 5 man-hours)

Other tabs visible include: General, Preferred team, Shared machine types, Shared machinery, Format, Color, User fields, and Notes. The 'Due date' section shows Start: 28.03.16 00:00 and Finish: 05.06.16 00:00. The 'Cutoff date' is 18.04.16 00:00. The 'Project calendar' is set to '1 Standard 40-hour work we'. The 'Category' is '- Not selected -' and 'Priority' is 100. The 'Status' is '- Not selected -' and 'Baseline' is 'BP 2'. The 'Planning type' is 'Capacity oriented'. The 'Color' is 'Automatic color'. There are 'OK' and 'Cancel' buttons at the bottom right.

4.4.2 Save settings for header and footer

This function is offered only in the Rillsoft with interface to Rillsoft Integration Server Solution.

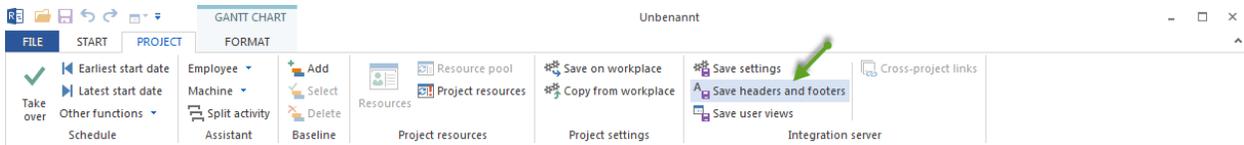
The option is active, if settings for header and footer are set either **per client** or **per user of client** in the client properties.

The screenshot shows the 'Client' dialog box with the 'Project settings' tab active. A green arrow points to the 'Settings for header and footer' dropdown menu, which is set to 'per user of client'. The other settings are:

- Settings for project:** per client
- Settings for user view:** per client

The dialog box has a blue header with the title 'Client' and a close button. The main area has a navigation bar with tabs: Main, Project settings, iCalendar, Retention period, Import System, Timeline, and Vac. The 'Submit' and 'Cancel' buttons are at the bottom right.

In order to save the settings for header and footer, please click **Project > Rillsoft Integration Server > Save headers and footers**.

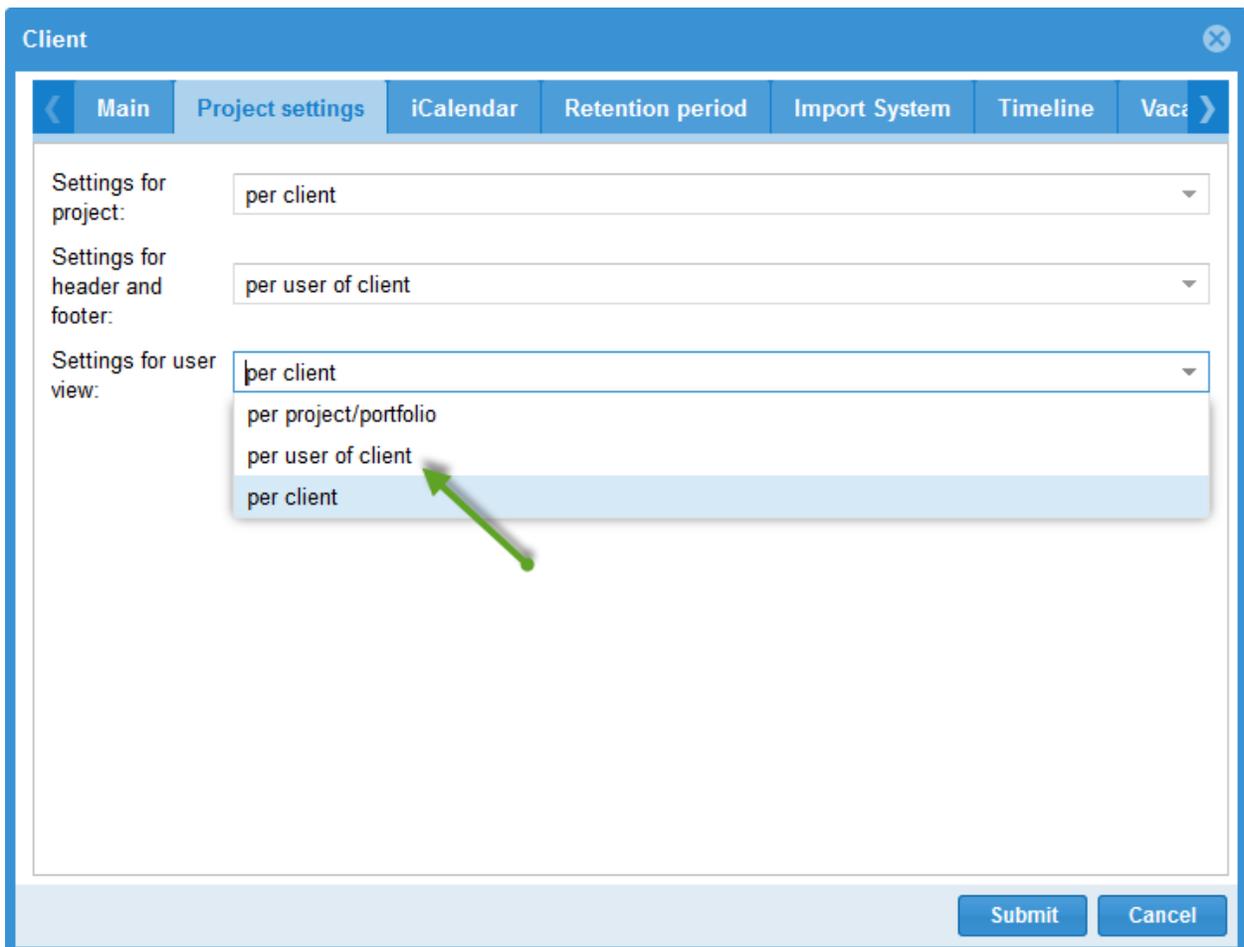


You can set headers and footers rows in the object properties window in the folder **Headers and footers**.

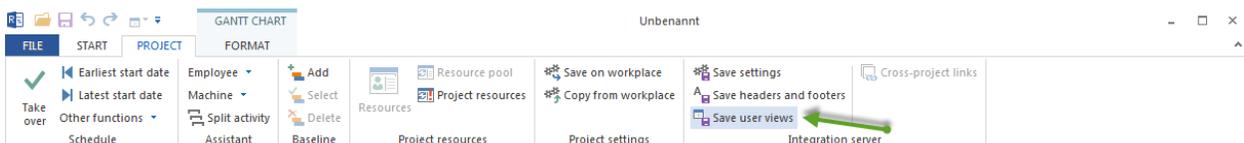
4.4.3 Save settings for user view

This function is offered only in the Rillsoft with interface to Rillsoft Integration Server Solution.

The option is active, if settings for user view are set either **per client** or **per user of client** in the client properties.



In order to save the settings for user view and to use them therefore as default views for other projects, please click on **Project > Rillsoft Integration Server > Save user view**.



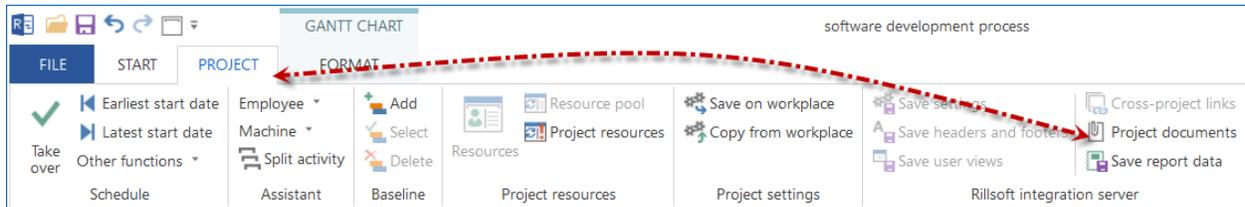
You can save user view by using the command **Start > user views > Save**.



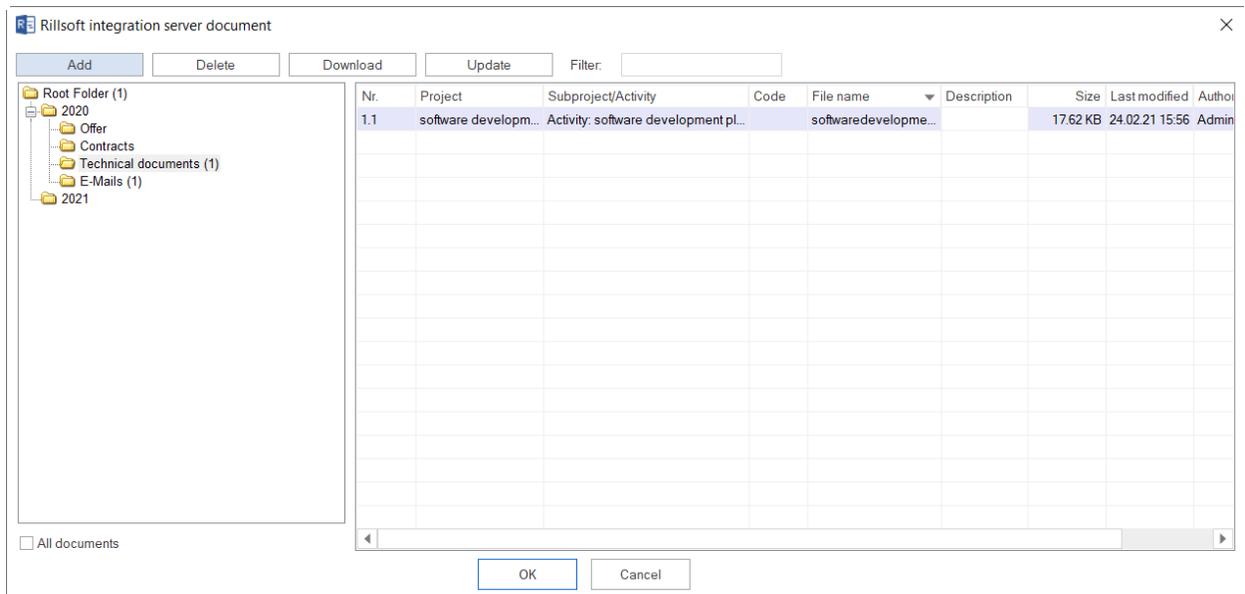
4.4.4 Project documents

This feature is only offered in the Rillsoft solution with interface to Rillsoft Integration Server.

To open the project documents of a project, please click **Project > Rillsoft integration server > Project documents**.



The dialog box **Rillsoft integration server document** opens.



The following activities are available:

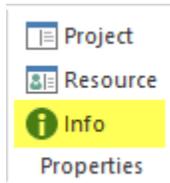
- **Add** add a document directly to the project
- **Delete** delete a selected document from the project
- **Download** save a selected document as a separate file
- **Update** update a selected document

You can set project properties in the properties window.

4.5 Project information

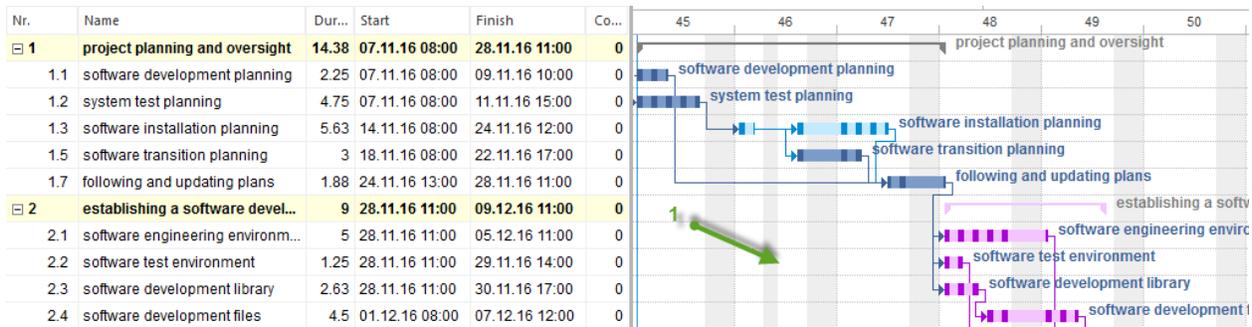
4.5.1 Project information

Click on **Start > Properties > Info** to display project information.

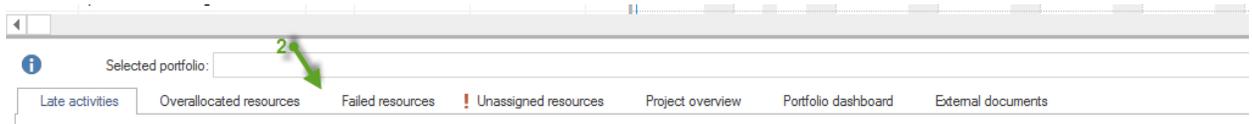


Alternatively you can

1. click with the left mouse button on a free space in the Gantt chart or one of the other views. The window with information appears at the bottom of the program window.

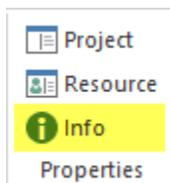


2. Select one of the tabs.



4.5.2 Late activities

Click on **Start > Properties > Info** to display late activities.



Select the tab **Late activities**.

Conflict	Nr.	Name	Effort	Negative effort	Duration	Start	Finish	Bilanz employee	Bilanz machine
93.88 work-day	1.1.1.2	Project procedure	120	0	15	09.09.16 08:00	29.09.16 17:00	-120	0
92.88 work-day	1.1.3.1	Create the order plan	96	0	6	09.09.16 08:00	16.09.16 17:00	-96	0
93.88 work-day	1.1.1.3	Completing the construction schedule	96	0	6	09.09.16 08:00	16.09.16 17:00	-96	0
87.88 work-day	1.1.1.4	Create task lists	128	0	16	19.09.16 08:00	11.10.16 17:00	-128	0
84.88 work-day	1.1.3.2	Planning the design phase	40	0	5	22.09.16 08:00	28.09.16 17:00	-40	0

Late activities indicate that a project plan has not been updated by a completed percentage, but a deadline has been postponed.

You can find the following information about late activities in the window:

Conflict shows a difference between the timepoint of an activity, where the activity is not yet completed, and the deadline in working days.

Nr. - activity number

Name - activity name

Effort - general activity effort for all assigned resources

Negative Effort - shows the difference between an effort assigned to roles and the effort covered by employees. As an example. If a role with 24 Ph (3 AT) is first assigned to an activity and then to an employee who can fulfil this role. However, the employee has a nonworking day over the activity time and can fulfil only 16 Ph (2 AT). The negative effort is $24 - 16 = 8$ Ph.

Duration - activity duration

Start - start of activity

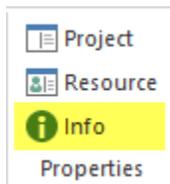
Finish - end of activity

Balance employee - contains the dynamically calculated difference between the requested effort for a role and the summarized effort of the already assigned employees with the same role and qualification. This serves as support during the controlling of the required assignments of employees. A negative value, for instance, indicates that more employees with this role and qualification are required.

Balance machine - contains as a dynamic calculation the difference between the requested effort for the machine type and the summed effort of the already assigned machines of the same machine type. This serves as a support for checking the necessary machine assignments. A negative value shows you, for example, that more machines of this machine type are needed.

4.5.3 Overallocated resources

Click on **Start > Properties > Info** to get a quick overview of activities with overallocated resources



Select the tab **Overallocated resources**.

Conflict	Nr.	Name	Effort	N...	Dur...	Start	Finish	B...
3 AT 200 % - 20.02 Think	1.4	software installation planning	72	0	4.5	18.11.16 08:00	24.11.16 12:00	0
3 AT 200 % - 20.02 Think	1.5	software transition planning	24	0	3	18.11.16 08:00	22.11.16 17:00	-24
1 AT 200 % - 14.01 Diligent	2.2	software test environment	10	0	1.25	28.11.16 11:00	29.11.16 14:00	-10
1 AT 200 % - 14.01 Diligent	2.1	software engineering environment	80	0	5	28.11.16 11:00	05.12.16 11:00	-80

Note Only one conflict is listed for each activity. You can get detailed information about overallocated resources either on the resources view **Employee** or on the tab **Employee** in the properties window of an activity.

In the window **Overallocated resources** you can find the following information:

Conflict displays an overloaded employee, the number of days of overload, and its overallocation in percentage within activity duration.

Nr. - activity number

Name - activity name

Effort - general activity effort for all assigned resources

Negative Effort - shows the difference between an effort assigned to roles and the effort covered by employees. As an example. If a role with 24 Ph (3 AT) is first assigned to an activity and then to an employee who can fulfil this role. However, the employee has a nonworking day over the activity time and can fulfil only 16 Ph (2 AT). The negative effort is $24 - 16 = 8$ Ph.

Duration - activity duration

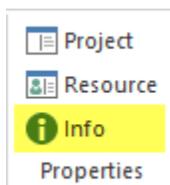
Start - start of activity

Finish - end of activity

Balance - contains the dynamically calculated difference between the requested effort for a role and the summarized effort of the already assigned employees with the same role and qualification. This serves as support during the controlling of the required assignments of employees. A negative value, for instance, indicates that more employees with this role and qualification are required.

4.5.4 Failed resource

Click on **Start > Properties > Info** to display failed resources



Select the tab **Failed resource**.

Properties

Selected portfolio: ... Reload Remove

! Late activities ! Overallocated resources ! Failed resources ! Unassigned resources Project overview Portfolio dashboard External documents

Conflict	Nr.	Name	Effort	Negativ effort	Duration	Start	Finish	Balance
1 AT 100 % - 17.02 Eager	1.4	software installation planning	36	-8	4.5	18.11.16 08:00	24.11.16 12:00	-36
1 AT 100 % - 21.01 Consider	2.4	software development files	36	-8	4.5	01.12.16 08:00	07.12.16 12:00	0

In the window you can find general information about failed resources.

Note If there are multiple conflicts in the activity due to a resource failure, only one conflict is listed. For detailed information see **Activity Properties** on the tab **Personal** in the column **Negative Effort**.

Properties

1.4 Name: software installation planning Code: Fixed: Duration Effort: 36 Ph Duration: 4.5 AT (8 Hrs.)

General Roles Employee Timesheets Material Machine type Machinery Links Format User fields Notes

Preferred teams Filter: 5 Assigned employees: Resource pool

Role - qualification	Bal...	Name	O...	A...	Role - qualif...	Pr...	Costs	Name	O...	A...	Role - q...	Pr...	Util...	Ad...	A...	Effort	Neg...	Substitutio...	N...
<input checked="" type="checkbox"/> programmer - C++	0	Tidy John	0	100	programmer ...	100	40.00	Eager	78	100	program...	100	100			36	-8		
<input type="checkbox"/> analyst	-36	Sleeper	100	100	programmer ...	100	50.00												
		Eager	78	100	programmer ...	100	50.00												
		Slow	100	100	programmer ...	100	50.00												
		Fast	100	100	programmer ...	100	50.00												

OK Cancel

Conflict shows the number of employees who have failed because of the nonworking days, the number of their non-working days, and their absence in percentages within activity duration.

Nr. - activity number

Name - activity name

Effort - general activity effort for all assigned resources

Negative Effort - shows the difference between an effort assigned to roles and the effort covered by employees. As an example. If a role with 24 Ph (3 AT) is first assigned to an activity and then to an employee who can fulfil this role. However, the employee has a nonworking day over the activity time and can fulfil only 16 Ph (2 AT). The negative effort is $24 - 16 = 8$ Ph.

Duration - activity duration

Start - start of activity

Finish - end of activity

Balance - contains the dynamically calculated difference between the requested effort for a role and the summarized effort of the already assigned employees with the same role and qualification. This serves as support during the controlling of the required assignments of employees. A negative value, for instance, indicates that more employees with this role and qualification are required.

Note Failed Resources can only be seen in a **Due date oriented**.

Properties

Name: 2016_2_soft Code: _____

General Preferred team Shared machine types Shared machinery Headers and footers Format Color User fields Notes

Due date: Start: 28.03.16 00:00 Finish: 05.06.16 00:00 Cutoff date: 18.04.16 00:00

Project calendar: 1 Standard 40-hour work we ...

Category: - Not selected - Priority: 100

Status: - Not selected -

Baseline: BP 2

Project settings: Time step: 1 hour Duration: in workdays(dependent on project c Effort: in hours

Enter deliverable for activity(Example: 150 M²) Enter effort for activity(Example: 5 man-hours)

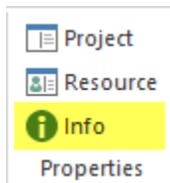
Planning type: Capacity oriented Due date oriented

Color: Automatic color Use for subordinated subprojects and activities

OK Cancel

4.5.5 Unassigned resources

Click on **Start > Properties > Info** to get a quick overview of activities with unassigned resources



Select the tab **Unassigned resources**.

Properties

Selected portfolio: _____ Reload Remove

! Late activities ! Overallocated resources ! Failed resources ! Unassigned resources Project overview Portfolio dashboard External documents

Conflict	Nr.	Name	Effort	Negativ effort	Duration	Start	Finish	Balance
38 Ph - 14.001 designer	1.2	system test planning	76	0	4.75	07.11.16 08:00	11.11.16 15:00	-76
18 Ph - 13.001 manager	1.1	software development planning	54	0	2.25	07.11.16 08:00	09.11.16 10:00	-54
9 Ph - 11.001 programmer - C++	1.3	software installation planning	18	0	1.13	14.11.16 08:00	15.11.16 09:00	-18
36 Ph - 15.001 analyst	1.4	software installation planning	36	-8	4.5	18.11.16 08:00	24.11.16 12:00	-36
24 Ph - 14.001 designer	1.5	software transition planning	24	0	3	18.11.16 08:00	22.11.16 17:00	-24
15 Ph - 11.003 programmer - V.Basic	1.7	following and updating plans	15	0	1.88	24.11.16 13:00	28.11.16 11:00	-15

In the window **Unassigned resources** you can find the following information:

Conflikt shows a role effort that has not yet been covered with employees and the assigned role for this effort.

Nr. - activity number

Name - activity name

Effort - general activity effort for all assigned resources

Negativ Effort - shows the difference between an effort assigned to roles and the effort covered by employees. As an example. If a role with 24 Ph (3 AT) is first assigned to an activity and then to an employee who can fulfil this role. However, the employee has a nonworking day over the activity time and can fulfil only 16 Ph (2 AT). The negative effort is $24 - 16 = 8$ Ph.

Duration - activity duration

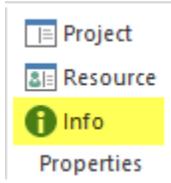
Start - start of activity

Finish - end of activity

Balance - contains the dynamically calculated difference between the requested effort for a role and the summarized effort of the already assigned employees with the same role and qualification. This serves as support during the controlling of the required assignments of employees. A negative value, for instance, indicates that more employees with this role and qualification are required.

4.5.6 Partially assigned resources

Click on **Start > Properties > Info** to display partially assigned resources



Select the tab **Partially assigned resources**.

Conflict	Nr.	Name	Effort	Negativ effort	Duration	Start	Finish	Bilanz employee	Bilanz machine
16 man-hour - 12.001 writer	2	activity B	16	0	2	31.10.19 08:00	01.11.19 17:00	-16	0
8 man-hour - 14.001 designer	1	activity A	8	0	1	30.10.19 08:00	30.10.19 17:00	-8	0

The warning about Partially assigned resources comes only if two situations occur together:

- firstly, if mixed resources have been assigned to a task, such as roles and employees
- secondly, if the role effort planned in the process was not completely covered but partly covered with employees

In this case, a conflict arises because an employee assignment has a higher priority in Rillsoft Project. That when calculating the effort of the activity, only one employee expense is included in the calculation, and the role effort is not taken into account.

Tip! It is better to either assign only the roles to an activity or cover the role requirements required by the activity completely with responsible employees.

The following information about conflict because of inconsistent resources can be found in the window:

Conflikt shows the role assigned to a task that did not have employee coverage while concrete persons were already assigned to this task.

Nr. - activity number

Name - activity name

Effort - general activity effort for all assigned resources

Negativ Effort - shows the difference between an effort assigned to roles and the effort covered by employees. As an example. If a role with 24 Ph (3 AT) is first assigned to an activity and then to an employee who can fulfil this role. However, the employee has a nonworking day over the activity time and can fulfil only 16 Ph (2 AT). The negative effort is $24 - 16 = 8$ Ph.

Duration - activity duration

Start - start of activity

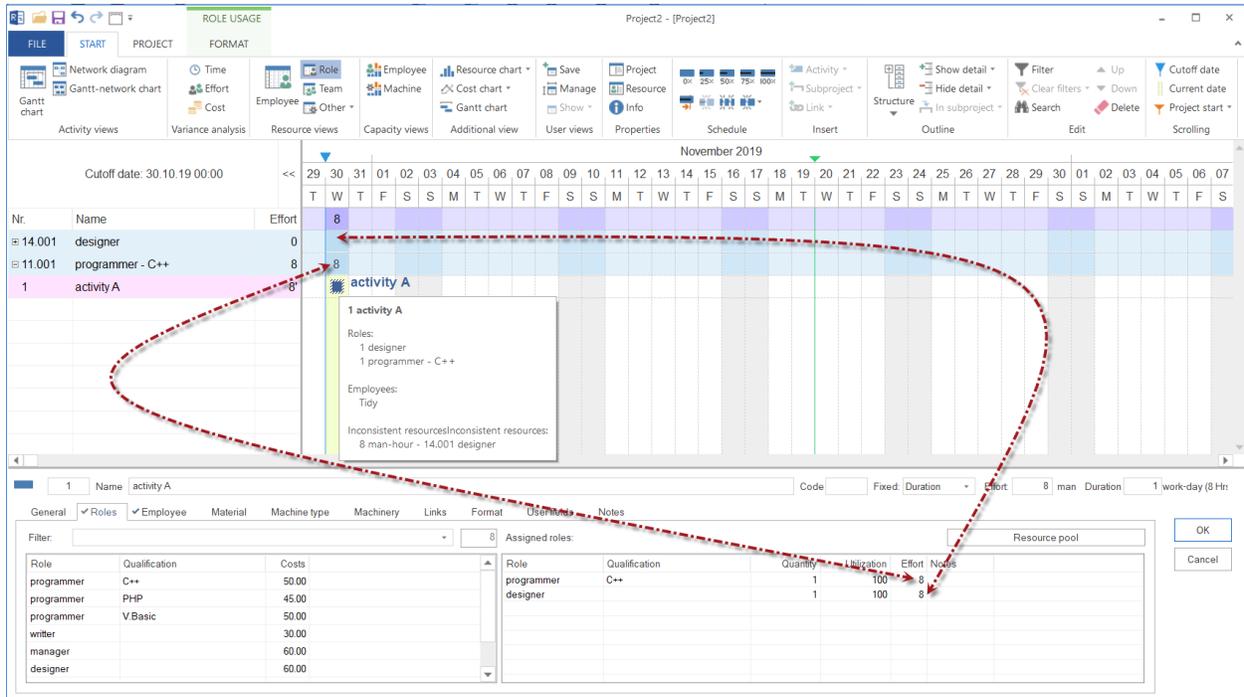
Finish - end of activity

Balance Employee - contains the dynamically calculated difference between the requested effort for a role and the summarized effort of the already assigned employees with the same role and qualification. This serves as support during the controlling of the required assignments of employees. A egative value, for instance, indicates that more employees with this role and qualification are required.

Balance Machinery - contains the dynamically calculated difference between the requested effort for a machine types and the summarized effort of the already assigned machinery with the same machine types. This serves as support during the controlling of the required assignments of machineries. A negative value, for instance, indicates that more machinery with this machine types are required

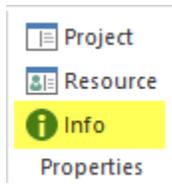
Sample of calculation for partially assigned resources.

The activity A are assigned to two roles, programmer C++ and designer, each 8 people hours. Thus, the effort at the role level is calculated as follows $8 + 8 = 16$ people hours. In the next step, the employee Mr Tidy is assigned to this activity A as a programmer C++, he takes over the programmer C++ effort in the amount of 8 persons hours. The role of designer, however, remains without cover by a concrete employee. As a result, the total effort at the employee level is estimated to be only 8 people hours. Although the role designer at the resource view roles is listed but without effort.

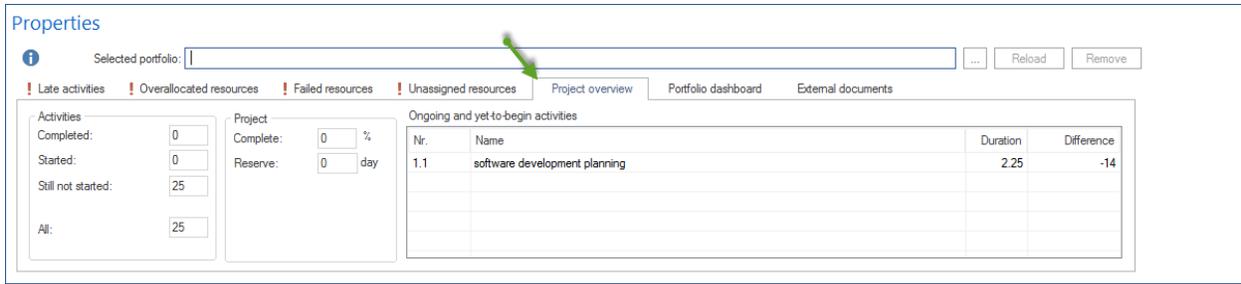


4.5.7 Project overview

Click on **Start > Properties > Info** to display failed resources.



Select the tab **Project overview**

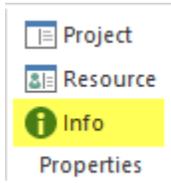


You see all the general information about the Project in the appearing window.

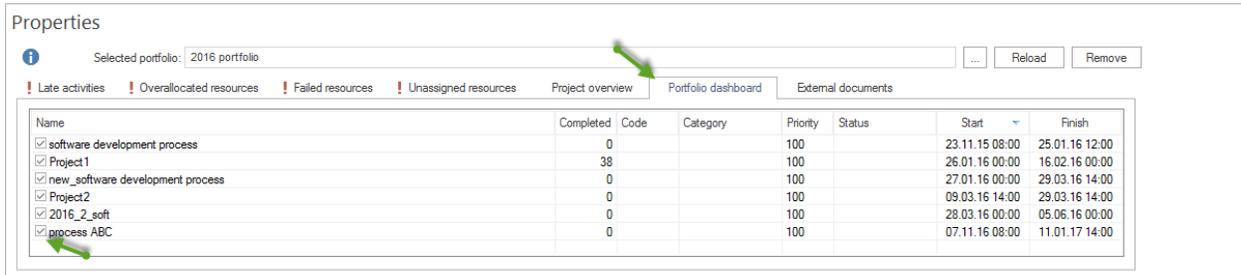
4.5.8 Portfolio dashboard

The portfolio overview shows projects that have been last opened in the portfolio.

Um sich **Portfolio dashboard** anzeigen zu lassen, klicken Sie bitte **Start > Eigenschaften > Info**



Select the tab **Project dashboard**



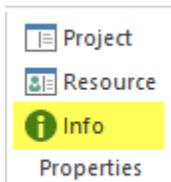
You can use the button  to select a portfolio.

The portfolio's projects marked with a check mark are considered in the calculation of the resources availability.

4.5.9 Cross-project links

Cross-project links are only available in Rillsoft Project with Rillsoft Integration Server (RIS).

To display cross-project links, please click **Start > Properties > Info**.



Select the **Cross-project Links** tab.

Note: The tab **Cross-Project Links** is only visible with the database-based solution Rillsoft Project with RIS.

Properties

! Late activities Overallocated resources Failed resources ! Unassigned resources Partially assigned resources Portfolio dashboard ! Cross-project links

Predecessor project/activity	Successor project/activity	Start	Finish	Reserve	Delay
Building planning/1.1.5.5 Briefing at start of construction	Orion planning/1.2.1.1 Cost estimate	03.11.16 17:00	27.10.16 08:00	0	-7.38
Orion planning/1.2.5.5 Briefing at start of construction	Katomo planning/1.3.1.2 Project procedure	19.12.16 17:00	30.11.16 08:00	-8	-19.38

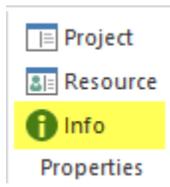
Help

All cross-project links in the portfolio/collective project are listed here.

- The column **Predecessor project/activity** shows the activities from which a link originates.
- The **Successor project/activity** column shows the activities that are at the end of the link.
- The columns **Start** and **Finish** allow you to follow a beginning and an end of a link.
- **Reserve** informs you whether there is a time gap in absolute time between the initial position and the input position.
- **Delay** represents a value of the time gap released from the beginning.
-

4.5.10 External documents

To display external documents, please click **Start > Properties > Info**.



Select the **External Documents** tab.

Note: The ****External Documents** tab is only visible with the file-based solution Rillsoft Project.

Properties

Selected portfolio: ... Reload Remove

Late activities Overallocated resources Failed resources ! Unassigned resources Partially assigned resources Project overview Portfolio dashboard External documents

Nr.	Name	External link
1	Phase 1	
3	Phase 2	file://D:\01%20RP\Samples_en\emp_week.xls
		file://D:\01%20RP\EN_Samples\2016_holiday_pdf.pdf

Help

All references in the project/sub-project are listed here.

- The names of the tasks or sub-projects are shown in the **Name** column. are shown.
- Double-clicking on the **Name** takes you to the **Notes** tab in the task properties.
- The names of the linked files are shown in the **External Link** column. are displayed. If you double-click on the link, this file is opened.

4.6 Create activities

4.6.1 Create activities

In order to create a new activity, do as follows:

1. click on the menu **Start > Activity**.

The screenshot shows the Rillsoft Project software interface. The main window is titled 'Project3' and displays a Gantt chart for the month of September 2017. The Gantt chart shows four tasks: 'task 1' (orange bar), 'task 2' (blue bar), 'task 3' (green bar), and 'task 4' (red bar). A 'project end' milestone is marked with a red diamond. The 'Activity' menu option is highlighted in the 'Insert' dropdown menu, indicated by a green arrow. The interface includes a menu bar (FILE, START, PROJECT, FORMAT), a ribbon with various views (Activity views, Variance analysis, Resource views, Capacity views, Additional view, User views, Properties, Schedule, Insert, Outline, Edit, Scrolling), and a table of activities.

Nr.	Name	Effort	Dur...	Start	Finish
1		3	7.63	07.09.17 08:00	18.09.17 14:00
1.1	task 1	1	3	07.09.17 08:00	11.09.17 17:00
1.2	task 2	1	3	12.09.17 08:00	14.09.17 17:00
1.3	task 3	1	3.63	13.09.17 08:00	18.09.17 14:00
2	task 4	1	3.5	08.09.17 13:00	13.09.17 17:00
3	project end	0	0	20.09.17 09:00	20.09.17 09:00

Below the Gantt chart, there is a 'Properties' dialog box for the selected activity. It includes fields for Name, Code, Fixed, Duration, Effort, and Duration (AT (8 Hrs.)). The 'General' tab is active, showing the 'Due date' section with 'Start' and 'Finish' dates set to 20.09.17 09:00. The 'Activity calendar' is set to 'Project calendar'. The 'Financing' section includes fields for 'Completed' (0%), 'Fixed costs' (0 €), 'Invoice amount' (0 €), and 'Term of payment' (0 wor). The 'Receipt' field is empty. The 'OK' and 'Cancel' buttons are visible.

1. Enter an activity name in the appropriate row.

In order to create a new activity in any position, do as follows:

Alternative 1: Set the cursor on the position you want in the Gantt chart and pressing the mouse button draw a bar. This way the start date and finish date as well as activity duration will be defined at the same time.

Alternative 2: You can create an activity via the diagram field of the context menu.

In order to create a new activity in any position, do as follows:

- Rightclick on the space in the Gantt chart where you want to create a new activity. It can also be between other activities.
- Choose the item **New activity** in the context menu .

Nr.	Name	Effort	Dur...	Start	Finish
1		3	7.63	07.09.17 08:00	18.09.17 14:00
1.1	task 1	1	3	07.09.17 08:00	11.09.17 17:00
1.2	task 2	1	3	12.09.17 08:00	14.09.17 17:00
1.3	task 3	1	3.63	13.09.17 08:00	18.09.17 14:00
2	task 4	1	3.5	08.09.17 13:00	13.09.17 17:00
3	project end	0	0	20.09.17 09:00	20.09.17 09:00

4.6.2 Edit activities

In order to edit any parameter of an existing activity, do as follows:

- In the diagram click on the activity whose parameter you want to edit.
- Activate the required tab in the window Properties and make the changes.

Properties

1.1 Name: task 1 Code: Fixed: Duration Effort: 32 Ph Duration: 4 AT (8 Hrs.)

General Roles Employee Timesheets Material Machine type Machinery Links Format User fields Notes

Due date Date Time Activity calendar: Project calendar Completed: 0 % Color: [Orange]

Start: 26.01.16 08:00 Finish: 29.01.16 17:00

Fixed costs: 0 € Invoice amount: 0 € Term of payment: 0 wor Receipt: [Dropdown]

Disregard team and employee calendar Start of activity only at first shift Merge into one line

OK Cancel

- Click on the button **OK**.

Edit in the Activity table

You may make the changes to the most important activity parameter directly in the table of the Gantt chart.

Nr.	Name	Effort	Dur...	Start	Finish
1		48	7.63	07.09.17 08:00	18.09.17 14:00
1.1	task 1	32	4	07.09.17 08:00	12.09.17 17:00
1.2	task 2	8	3	13.09.17 08:00	15.09.17 17:00
1.3	task 3	8	3.63	13.09.17 08:00	18.09.17 14:00
2	task 4	8	3.5	08.09.17 13:00	13.09.17 17:00
3	project end	0	0	20.09.17 09:00	20.09.17 09:00
*					

Edit in the Gantt chart area

You may use the mouse to shift the activity in the diagram, so as to change its time parameters or duration.

Nr.	Name	Effort	Dur...	Start	Finish
1	subproject 1	104	10	26.01.16 08:00	08.02.16 17:00
1.1	task 1	32	4	26.01.16 08:00	29.01.16 17:00
1.2	task 2	40	5	01.02.16 08:00	05.02.16 17:00
1.3	task 3	32	4	03.02.16 08:00	08.02.16 17:00
2	task 4	32	4	28.01.16 08:00	02.02.16 17:00
3	project end	0	0	09.02.16 09:00	09.02.16 09:00
*					

Edit schedule

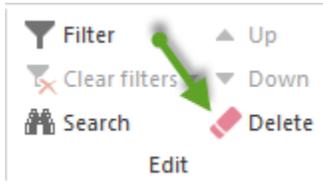
You can quickly check the completion percentage if you select the menu item **Start > Schedule**.

Schedule

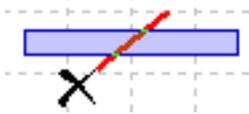
4.6.3 Delete activities

In order to delete an existing activity, do as follows:

- Rightclick on the activity you want to delete.
- Choose the menu item **Start > Edit > Delete**.



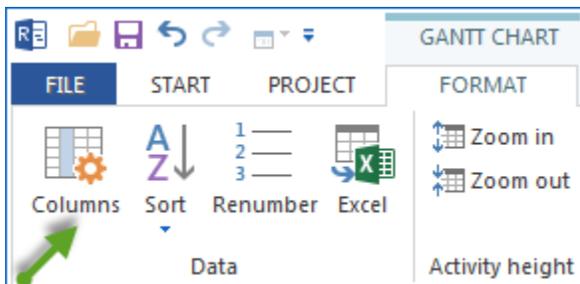
Alternatively: You can quickly delete an existing activity by clicking on the blank space in the diagram with the right mouse button pressed down and striking out the activity.



4.7 Working with activity and subproject tables

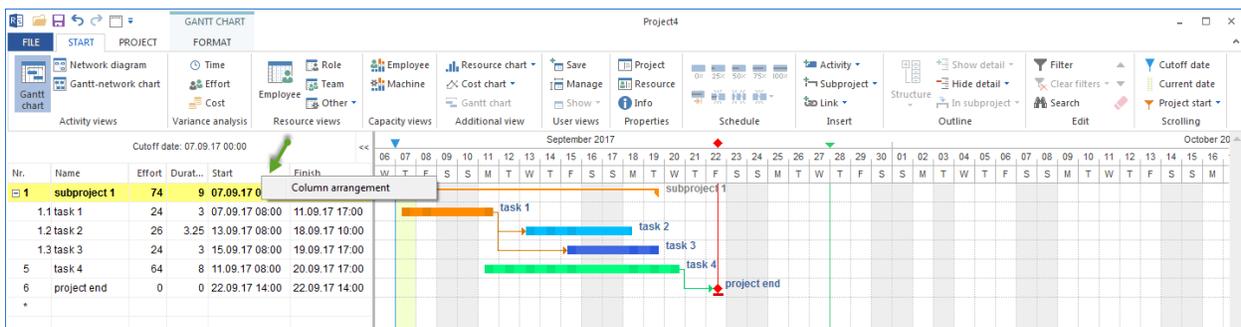
The Activity and Subproject tables display the most important parameters. You can adjust the tables to your requirements doing the following:

1. click on the menu **Format > Columns**

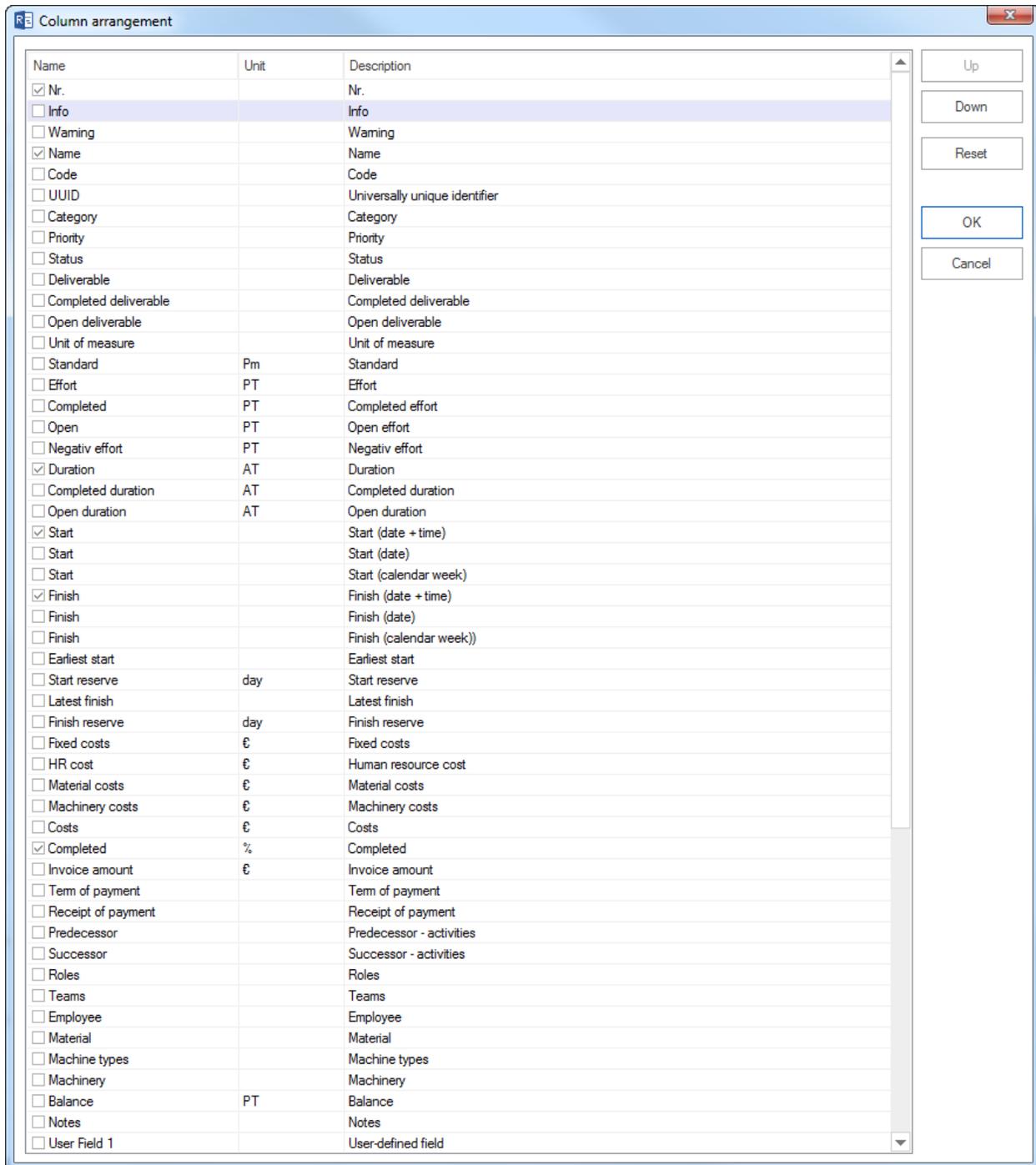


Alternative

1. rightclick on the column names of the table and choose **Properties** in the context menu.



1. In the appearing window you can edit the column layout and choose which of the columns (also user-defined fields) you want to have on display.



Change the width of the table

- change the width of a column and so affect the overall width of the table.
- temporarily collapse and unfold a table via the button.

Navigation

- You can use the arrow buttons **upwards** and **downwards** to toggle between activities and subprojects. You can use the buttons **Tab** and **Shift+Tab** to jump forwards and backwards among the single columns.

Unit of measurement

is in **Project / Project Properties / General / Project Settings** by specifying the duration and effort for tasks in hours or define in working days, weeks, etc.

Fields in the table

No.	Number of WBS code
Info	Signals whether it has been referred to internal documents or external links from an activity / subproject
Warning	Alert about overallocated, failed resources, or late activities
Name	Name of activity or subproject
Code	Code of activity or subproject
Category	Project category
Priority	Project priority
Status	Project status
Quantity	Quantity of the working results, measured by the measurement unit defined for the activity
Completed	Completed quantity
Open	Open quantity
Measurement unit	Measurement unit for the activity's working result (such as: m3, freight, ...).
Norm	Norm in man-hours required for the completion of a measurement unit within an activity
Effort	Effort of the activity or subproject
Completed	Completed effort
Open	Open effort
Duration	Duration of the activity or subproject
Completed	Completed duration
Open	Open duration
Start	Start time (date and time of day) of the activity or subproject
Start	Start time (date) of the activity or subproject
Finish	Finish time (date and time of day) of the activity or subproject
Finish	Finish time (date) of the activity or subproject
Earliest possible start	Earliest possible start of activity Caution! Will only be shown if the option Calculation of contingency reserve is selected
Start, reserve	Contingency reserve (difference between start and earliest possible start). Caution! Will only be shown if the option Calculation of contingency reserve is selected
Latest possible finish	Latest possible finish of activity Caution! Will only be shown if the option Calculation of contingency reserve is selected
Finish, reserve	Contingency reserve (difference between latest possible finish and finish). Caution! Will only be shown if the option Calculation of contingency reserve is selected
Fixed costs	Separate costs of the activity or subproject that are not shown by the view of resources
HR costs	Costs for the activity or subproject's personnel resources
Material costs	Material costs for the activity or subproject
Machine costs	Machine costs for the activity or subproject
Costs	Total costs for the activity or subproject
Completed	Percentage of completion of the activity / percentage of progress
Amount of invoice	Amount for the invoicing period of the project
Payment period	Period of time in working days for the due date of the payment
Receipt of payment	Date of payment receipt
Predecessor	"From" activities
Successor	"To" activities
Roles	Assigned roles
Teams	Assigned teams
Employees	Assigned employees
Material	Allocated materials
Machine types	Allocated machine types
Machinery	Allocated machinery
Balance	Difference between the demand for assigned roles and the demand for assigned employees (for a quick overview)
User-defined fields 1 - 20	

4.8 Link activities

4.8.1 Link activities

Activities can be linked with each other in Gantt chart, network charts and Gantt-network charts.

The following link types are at your disposal:

Finish-Start	the “from” activity must finish before the “to” activity can start
Start-Start	the “from” activity must start before the “to” activity can start
Finish-Finish	the “from” activity must finish before the “to” activity can finish
Start-Finish	the “from” activity must start before the “to” activity can finish
Incompatible activity group	Activities that must not be executed at the same time (time conflicts)

You can unhide the Properties window of any link by doubleclicking on the link.

The screenshot shows a 'Properties' dialog box with a 'Link' tab. At the top left is a chain icon. The dialog contains the following fields and controls:

- Predecessor:** 2 task 4
- Successor:** 3 project end
- Link type:** Finish to start (dropdown menu)
- Delay:** Absolute time (dropdown menu), 2 day (text input)
- Color:** Activity color (dropdown menu), Bold highlighted

On the right side of the dialog are three buttons: OK, Cancel, and Delete.

Time intervals

Intervals can be defined in Project properties in relation to the time unit of the duration (such as hours or days). You can choose among the following types of intervals:

- in absolute time (1 day consists of 24 hours, that is, for example, 8 hours and 16 non-working hours)
- in calendar time (depending on the actual calendar, for example, 1 day consists of 8 hours, that is, it ignores non-working hours)
- in relative time (for instance, a particular percentage, relating to the “to” activity, such as: 50%)

Intervals can have

- positive (such as: + 2 hours) or
- negative (such as: - 50% = overlapping)

signs.

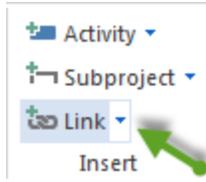
Highlight link

Links can be highlighted by means of colour or boldface.

Create link

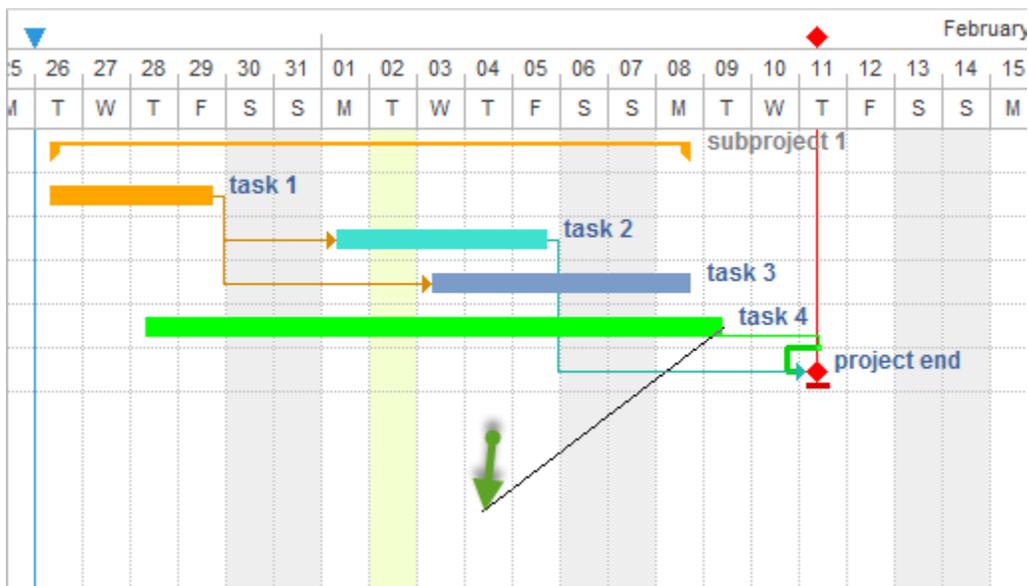
In order to create a new link, do as follows:

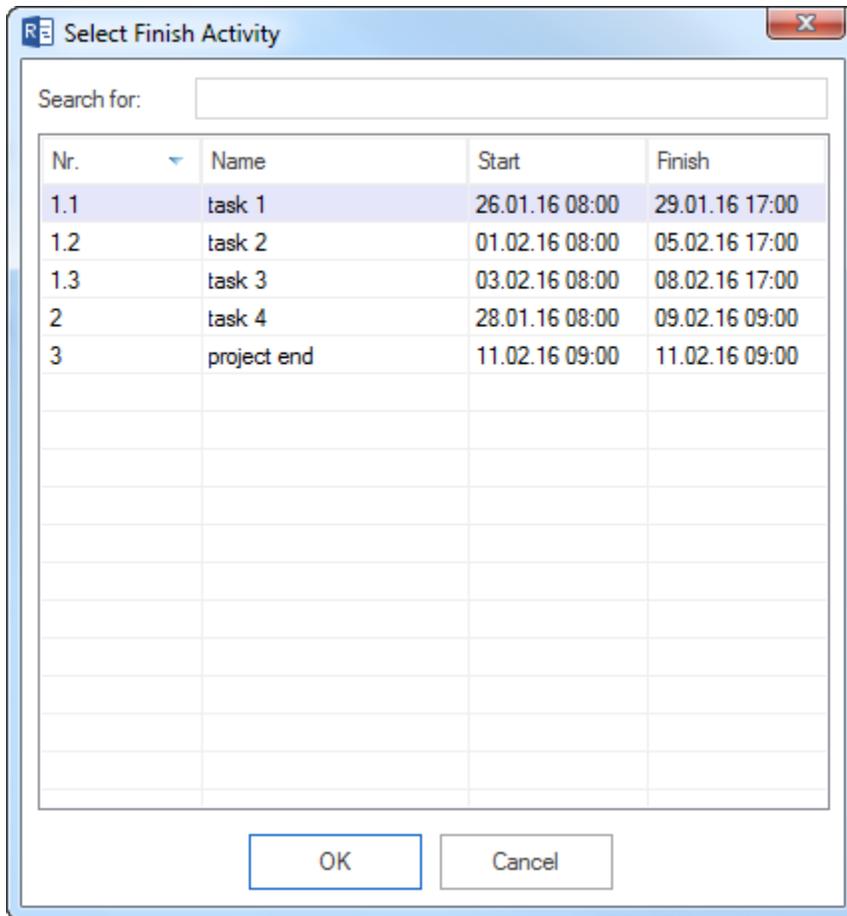
- Choose the link type via the menu **Start > Insert > Link**.



- Connect two activities by drawing your mouse from one activity to another.
- Choose the interval type for the link in the Properties window.
- If necessary, enter the Delay (positive or negative) by which you want to delay the “to” activity depending on the selected type of link.
- Click on the button **OK**.

Alternatively: You can create link activities in the diagrams via the context menu.

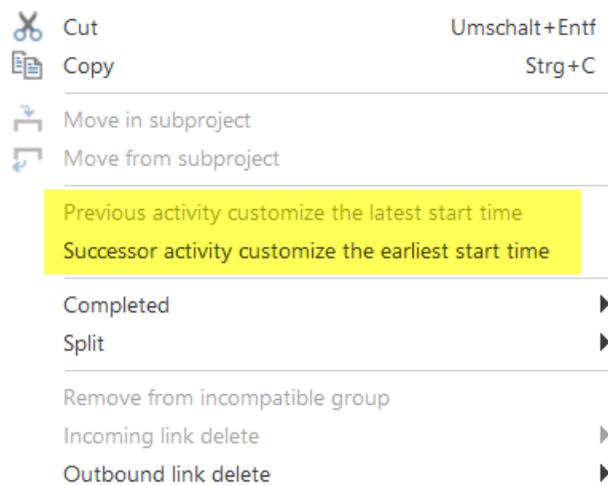




Context menu:

If you want to move a chain of activities backwards or also forwards with respect to a specific activity, two following commands are available from the context menu:

- Previous activity customize the latest start time
- Successor activity customize the earliest start time



Notes (restrictions in the links creation):

- The occurrence of an activity is only allowed in incompatible activity groups.

4.8.2 Edit link

Links can only be edited as long as the succeeding activity has not yet started.

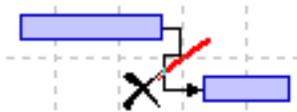
In order to change an existing link, do as follows:

- **Mark the link you want to edit by clicking on the line connecting the two activities.**
- **From the drop down menu Link type select another link type in the properties window.**
- **If necessary, enter the Delay (positive or negative) by which you want to delay the succeeding activity depending on the selected activity type.**
- Click on the button **OK**.

Alternatively: You can change the **Link type** via the context menu of the connecting line.

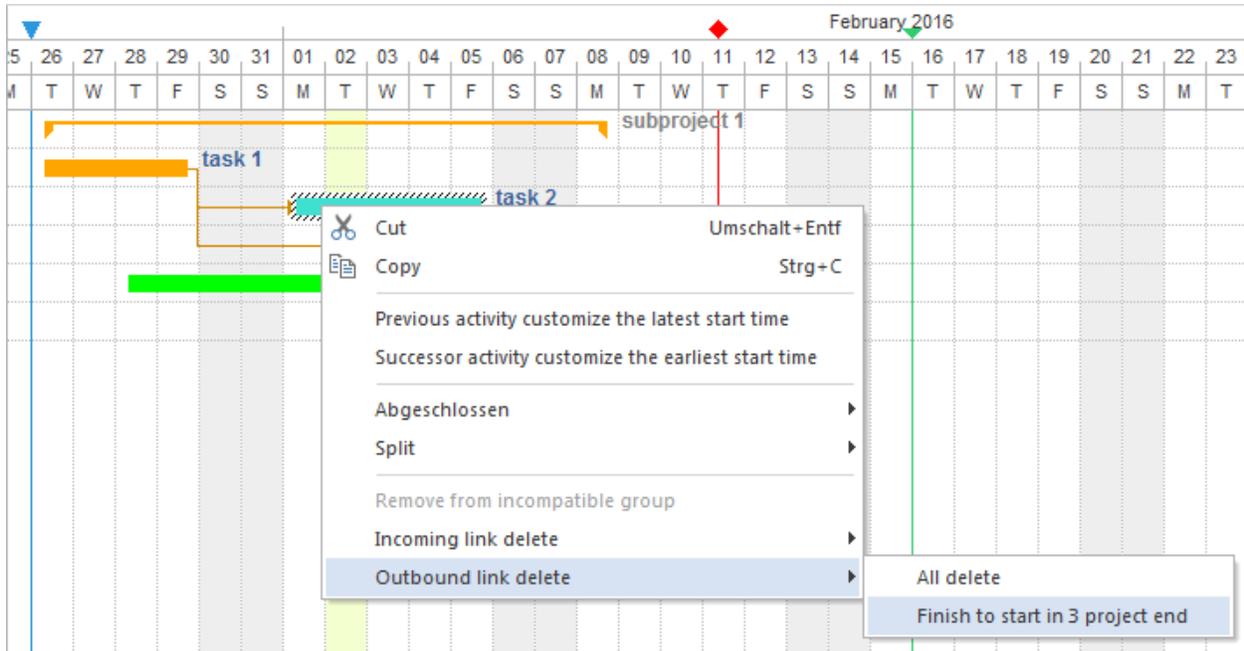
4.8.3 Delete link

You can quickly delete an existing link by clicking on the blank space in the diagram with the right mouse button pressed down and strike out the link.



Alternatively: In order to delete an existing link, do as follows:

- Rightclick on the activity.
- From the context menu, choose the command **Incoming link delete / Outbound link delete**.
- Choose the link you want to delete.



4.9 Activities properties

4.9.1 Enter activity properties

In order to define the properties of an activity, do as follows:

- **Mark the activity whose properties you want to enter.**
The window Object properties opens.

1. Enter the activity name in the field **Name**.
2. Enter the activity code in the field **Code**.

The following three fields will be available only if you have marked the check box **Enter deliverable for activity** in the menu item **Start > Properties > Project** in Project properties.

Properties

Name: software development process Code: _____

General Preferred team Shared machine types Shared machinery Headers and footers Format Color User fields Notes

Due date: _____

Date	Time
Start: 07.09.17	00:00
Finish: 08.11.17	14:00

Cutoff date: 07.09.17 00:00

Project calendar: 1 Standard 40-hour work we ...

Category: - Not selected - Priority: 100

Status: - Not selected -

Baseline: _____

Project settings

Time step: 1 hour

Duration: in workdays(dependent on project c)

Effort: in hours

Enter deliverable for activity(Example: 150 M³)

Enter effort for activity(Example: 5 man-hours)

Planning type

Due date oriented

Capacity oriented

Color: Automatic color

Use for subordinated subprojects and activities

OK Cancel

3. If necessary, enter the labour quantity as measured in the predefined measurement unit.
4. If necessary, enter the measurement unit of the labour amount (such as m³, load,...).
5. If necessary, enter the norm in man-hours required for the completion of a measurement unit.

The following three fields will only be available, if you have marked the check box **Enter effort for activity** in the menu item **Start > Properties > Project** in Project properties.

Properties

Name: software development process Code: _____

General Preferred team Shared machine types Shared machinery Headers and footers Format Color User fields Notes

Due date: _____

Date	Time
Start: 07.09.17	00:00
Finish: 08.11.17	14:00

Cutoff date: 07.09.17 00:00

Project calendar: 1 Standard 40-hour work we ...

Category: - Not selected - Priority: 100

Status: - Not selected -

Baseline: _____

Project settings

Time step: 1 hour

Duration: in workdays(dependent on project c)

Effort: in hours

Enter deliverable for activity(Example: 150 M³)

Enter effort for activity(Example: 5 man-hours)

Planning type

Due date oriented

Capacity oriented

Color: Automatic color

Use for subordinated subprojects and activities

OK Cancel

6. **Fixed duration** - Choose this option to calculate the effort for the activity and the resource utilization, with the duration of the activity remaining unchanged, if possible. You should choose this option if you do the scheduling on the basis of the known activity duration. The labour effort of the resources would then be automatically calculated.
7. **Fixed effort** - Choose this option to calculate the activity duration and the resource utilization, with the effort remaining unchanged. You should choose this option if you do the scheduling on the basis of the known activity efforts for activity roles. The activity duration would then be automatically calculated.
8. **Fixed effort & duration** - Choose this option to calculate the quantity and resource utilization on the basis of the constant effort and constant duration. This option allows you to calculate the quantity and utilization of the required personnel resources.

Note: This option is only suitable for role assignment.

9. Enter the activity effort in the field **Effort**.
10. Enter the activity duration in the field **Duration**.
11. Click on the button **OK**.

4.9.2 Define general activity properties

In order to define the general properties of an activity, do as follows:

- Activate the tab **General** in the window Activity properties.

Field **Due date**

- Choose the option **Start** if you have a fixed start date of the activity and enter **Date** and **Time**. The finish date of the activity will be calculated automatically.
- Choose the option **Finish** if you have a fixed finish date of the activity and enter **Date** and **Time**. The start date of the activity will be calculated automatically. **Note:** You can move the start date and finish date of an activity much more quickly in the diagram by using the mouse to shift the activity.
- Mark the check box **Fix** if the activity due dates in the optional date calculations that have been selected via the menu must not be shifted.
- Mark the check box **Mark as milestone** if you want to label the activity as milestone. In this case, activity duration is set to zero. Field **Activity calendar**
- Select the calendar you want to use from the drop down list **Activity calendar**.

The button  allows for the quick access to the actual calendar.

- Mark the check box **Disregard team calendar and employee calendar** if the team calendar and employee calendar should not be regarded in new activities.
- Mark the check box **Start of activity only at first shift** if the start of activity is permitted to begin only at the first shift.
- Mark the check box **Merge into one line** if you want to have several activities succeeding in a row displayed hierarchically independent.
- Enter the percentage of completion of an activity in the field **Completed**.
- Enter extra costs that are not on display along with the resources in the field **Fixed costs**.

Field **Financing**

- Enter the amount of the payment period in the field **Invoice amount**.
- Define a period of time in business days for the due date of the payment in the field **Term of payment**.
- You can enter the date of the payment receipt in the field **Receipt of payment** only if you have declared the milestone to be 100% completed. Once you have marked the milestone as 100% completed, the payment receipt is displayed automatically along with the due date of the milestone plus the term of payment. You may also correct the date.
- Select the color you want to use from the drop down list **Color**

- Click on the button **OK**.

4.9.3 Assign roles

In order to assign roles to the selected activity, do as follows:

- Activate the tab **Roles** in the window Activity properties.

The screenshot shows the 'Properties' dialog box with the 'Roles' tab selected. The 'Assigned roles' table contains the following data:

Role	Qualification	Quantity	Utilizat...	Effort	Notes
programmer	PHP	1	100	32	

The 'Available roles' table on the left contains the following data:

Role	Qualification	Costs
programmer	C++	50.00
programmer	PHP	45.00
programmer	V.Basic	50.00
writer		30.00
manager		60.00

Available roles

- Enter a string value in the field **Filter** to show only certain roles (search via role group and code) or enter two dots “..” in order to view the roles that have already been used in the project.
- Doubleclick on the entry in the left table to assign the role to the activity. **Assigned roles**
- Enter a differing value for the number of employees required for this role in the field **Quantity**.
- Enter a differing value of the percentage the role is utilized in the activity in the field **Utilization**.
- Enter a differing value in the field **Effort**, for the effort that a role has to perform within the activity.
- Enter notes that might be crucial for the role in connection with the activity in the the field **Notes**.
- Click on the button **OK**.

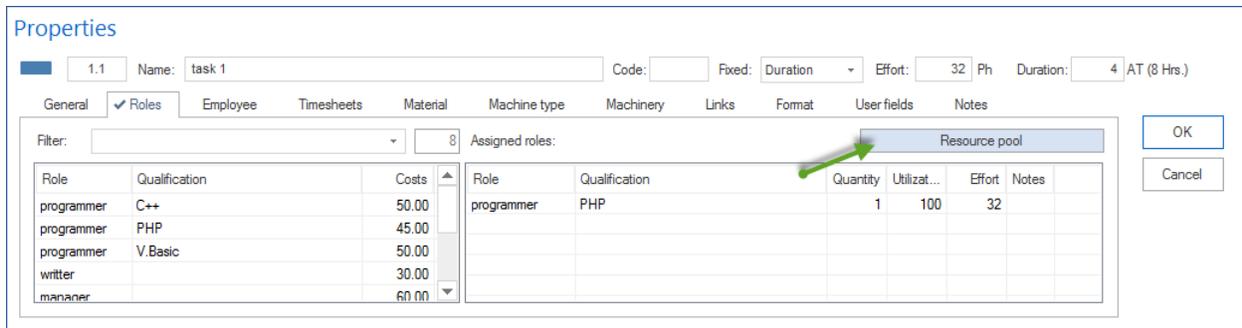
Notes:

- You can adjust the columns layout of both tables at your convenience by rightclicking on the column names of the table and selecting the columns you want to adjust.

The screenshot shows the 'Properties' dialog box with the 'Roles' tab selected. A context menu is open over the 'Assigned roles' table, showing the following options:

- Nr.
- Role
- Code
- Qualification
- Quantity
- Utilization
- Effort
- Notes

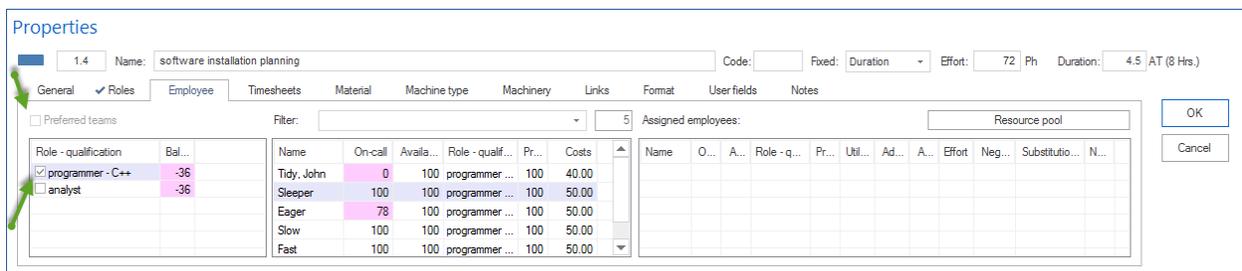
- You can use the menu item Project / Roles from Employee assignation to define roles within a project for available employees who are required for the activity completion. This allows you to use easily these settings as templates for other activities.
- In order to have quick access to the used resources, click on the button **Resource pool** if you are using the general resource pool - or on the button **Project resources** if you are using a project-specific resource pool.



4.9.4 Assign employees

In order to assign employees to the selected activities, do as follows:

- Activate the tab **Employees** in the window Activity properties.



Assigned roles

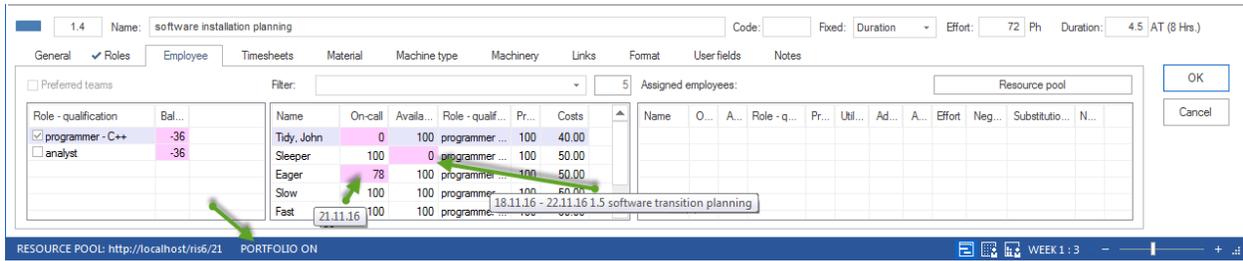
- Mark the check box of a role in the list Assigned roles in order to use this role as additional filter for the employees list. The list of employees shows you only those employees who have the appropriate roles and qualifications.
- The column Quantity-workload-effort contains the required number of employees whose workload and effort meet the demands of the role. This column is deactivated by default. If you want to unhide it, please refer to Details.
- The field Balance contains the dynamically calculated difference between the requested effort for a role and the summarized effort of the already assigned employees with the same role and qualification. This serves as support during the controlling of the required assignments of employees. A negative value, for instance, indicates that more employees with this role and qualification are required.

Preferred teams

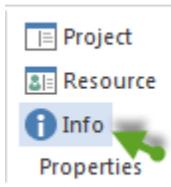
- Mark the check box Preferred and assigned teams to use the assigned teams as an additional filter for the employees list. The list of employees will show you then only those employees that belong to assigned teams.

Available employees - The table in the centre lists, depending on the filter settings (teams, roles, and entries in the field filter), all employees defined in the resource pool and available for being assigned to actual activities.

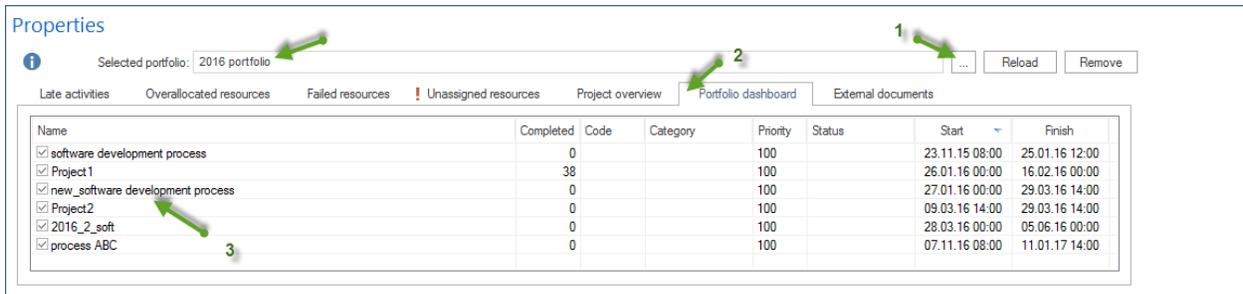
- Enter a string value in the field **Filter** to show only certain employees (search via employee name and code) or enter two dots “..” in order to view the employees that have already been used in the project.
- **On-call** - percentage of the possible working capacity of an employee within activity duration, adjusted for the reported non-working days (holidays/sickness).
- **Availability** - percentage of the possible working capacity of an employee within activity duration, adjusted for the participation of the employee in other activities of the project.



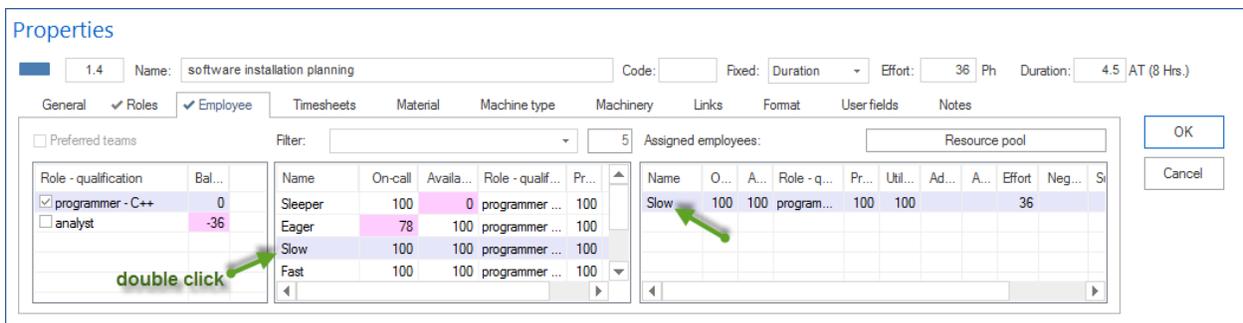
- To include the workload in other projects that belong to a selected portfolio during scheduling, open the desired portfolio:
- Click on **Start > Properties > Info**



- Select the tab **Portfolio dashboard**.



- Doubleclick on the entry in the central table to assign this employee to the activity.



Assigned employees

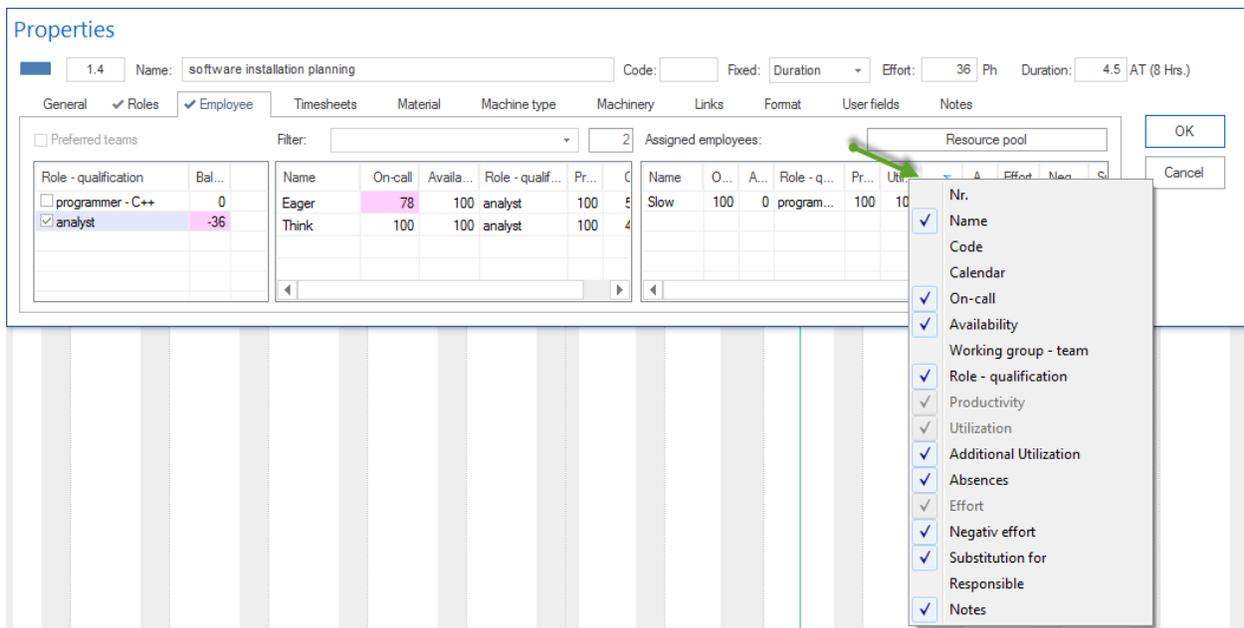
- **On-call** - percentage of the possible working capacity of an employee within activity duration, adjusted for the reported non-working days (holidays/sickness).
- **Availability** - percentage of the possible working capacity of an employee within activity duration, adjusted for the participation of the employee in other activities of the project as well as their workload in this activity.
- Enter a differing value in percent in the field **Productivity** if the productivity of the employee in the activity differs (they are proposed from the resource pool).
- Enter a differing value in percent in the field **Workload** if the employees workload in the activity differs. If you have reported a role usage to the tab Roles, this workload will be taken over; otherwise, default workload is

100%.

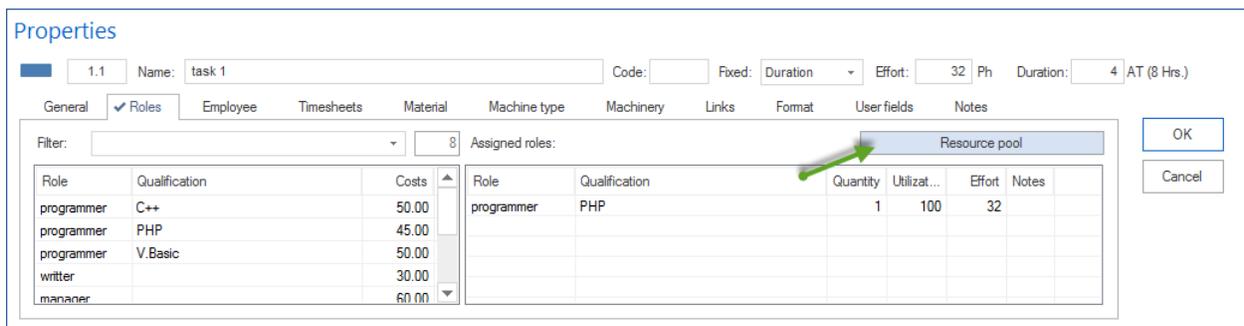
- If you click on the icon in the field **Absence**, the window Absence with the calendar field opens where you can define the days the employee will not be participating in the activity.
- Enter a differing value in the field **Effort** for the effort that an employee has to perform within the activity.
- Select the check box **Responsible**, if the employee is to be registered as the person responsible for the activity.
- Enter notes that might be crucial for the employee in connection with the activity in the the field **Notes**.
- Mark the check box **Utilize resources to the maximum** in order to obtain the shortest possible activity duration. This redistributes the effort of the resources with identical qualifications in a way to allow for a better resource utilization, which can affect the activity duration by, for instance, a higher percentage of readiness.
- Click on the button **OK**.

Notes:

- You can adjust the layout of the columns of the three tables at your convenience by rightclicking on the column names of the table and selecting the columns you want to adjust.



- In order to have quick access to the used resources, click on the button **Resource pool** if you are using the general resource pool - or on the button **Project resources** if you are using a project-specific resource pool.



4.9.5 Timesheet

Here you can display information about completed working hours in the activity.

Requirement You can only enter timesheet in the Rillsoft Integration Server interface.

In order to assign timesheet to the selected activities, do as follows:

- Activate the tab **Timesheet** in the window Activity properties.

The screenshot shows the 'Properties' window for an activity named 'software development planning'. The 'Timesheets' tab is active, and a red arrow points to it. The window contains two tables: 'Employees' and 'Timesheets'.

Nr.	Name	Target	Actual	Open	Notes
<input checked="" type="checkbox"/> 12.01	Superman	2.25	0	2.25	
<input type="checkbox"/> 16.02	Sleeper	2.25	0	2.25	
<input type="checkbox"/> 17.01	Eager	2.25	0	2.25	

Calendar week	Day	Date	Target	Actual	Shift
week 44/2019	Monday	28.10.19	1.13		
week 44/2019	Tuesday	29.10.19	1.13		
week 44/2019	Wednesday	30.10.19			
week 44/2019	Thursday	31.10.19			
week 44/2019	Friday	01.11.19			

Employees

All employees assigned to the task are listed here.

Name Name of assigned employee

Effort shows the effort planned in the activity for this employee

Close how much of the planned effort the employee has already done for the activity

Open shows still open effort in the activity for this employee

Notes Notes

Timesheet

Here you can see for an employee selected in the left table, how did he complete the task day by day.

Week in which calendar week did the employee work for the activity

Weekday on which day of the week the employee worked for the activity

Date Date

Effort shows the effort planned for this employee during the day and for the activity

Close shows how much of the planned effort the employee has already done on the day

Schicht daytime

4.9.6 Allocate material

In order to allocate material to the selected activities, do as follows:

- Activate the tab **Material** in the window Activity properties.

Properties

1.2 Name: task 2 Code: Fixed: Duration Effort: 40 Ph Duration: 5 AT (8 Hrs.)

General Roles Employee Timesheets **Material** Machine type Machinery Links Format User fields Notes

Filter: 6 Assigned material: Resource pool

Material group	Material type	Costs	Material group	Material type	Unit	Calcul...	Amount	Notes
Metals	Steel	0.00	Metals	Steel	100 kg	Fix	2	
Metals	Stainless steel	0.00	Non-ferrous metals	Aluminium	1 kg	Fix	1	
Metals	Spring steel	0.00						
Non-ferrous metals	Aluminium	0.00						
Non-ferrous metals	Copper	0.00						

OK Cancel

Available Material

- Enter a string value in the field **Filter** to show only certain materials (search via material group, material type and code) or enter two dots “..” in order to view the materials that have already been used in the project.
- Doubleclick on the entry in the left table to assign the material to the activity.

Allocated material

- Select calculation the type of material requirements in the field **Calculation: Fixed** - The material requirements in the activity are fixed. **Per hour** - The material requirements in the activity are calculated by considering the activity duration. **Per man-hour** - The material requirements in the activity are calculated by considering the effort. **Per quantity** - The material requirements in the activity are calculated by considering the working result.
- Enter a differing value of the material quantity, which is required for the activity, in the field **Quantity**.
- Enter notes that might be crucial for the material in connection with the activity in the the field **Notes**.
- Click on the button **OK**.

Notes:

- You can adjust the layout of the columns of both tables at your convenience by rightclicking on the column names of the table and selecting the columns you want to adjust.

Properties

1.2 Name: task 2 Code: Fixed: Duration Effort: 40 Ph Duration: 5 AT (8 Hrs.)

General Roles Employee Timesheets **Material** Machine type Machinery Links Format User fields Notes

Filter: 6 Assigned material: Resource pool

Material group	Material type	Costs	Material group	Material type	Unit	Calcul...	Amount	Notes
Metals	Steel	0.00	Metals	Steel	100 kg	Fix	2	
Metals	Stainless steel	0.00	Non-ferrous metals	Aluminium	1 kg	Fix	1	
Metals	Spring steel	0.00						
Non-ferrous metals	Aluminium	0.00						
Non-ferrous metals	Copper	0.00						

OK Cancel

- In order to have quick access to the used resources, click on the button **Resource pool** if you are using the general resource pool - or on the button **Project resources** if you are using a project-specific resource pool.

Properties

1.1 Name: task 1 Code: Fixed: Duration Effort: 32 Ph Duration: 4 AT (8 Hrs.)

General Roles Employee Timesheets Material Machine type Machinery Links Format User fields Notes

Filter: 8 Assigned roles: Resource pool

Role	Qualification	Costs	Role	Qualification	Quantity	Utilizat...	Effort	Notes
programmer	C++	50.00	programmer	PHP	1	100	32	
programmer	PHP	45.00						
programmer	V.Basic	50.00						
writer		30.00						
manager		60.00						

OK Cancel

4.9.7 Allocate machine types

In order to allocate machine types to the selected activities, do as follows:

- Activate the tab **Machine types** in the window Activity properties.

Properties

1.2 Name: task 2 Code: Fixed: Duration Effort: 40 Ph Duration: 5 AT (8 Hrs.)

General Roles Employee Timesheets Material **Machine type** Machinery Links Format User fields Notes

Filter: 2 Assigned machine types: Resource pool

Machine groups	Machine type	Costs	Machine groups	Machine type	Quantity	Utilizat...	Notes
Rotate machine		0.00	Rotate machine		1	100	
Milling machine		0.00					

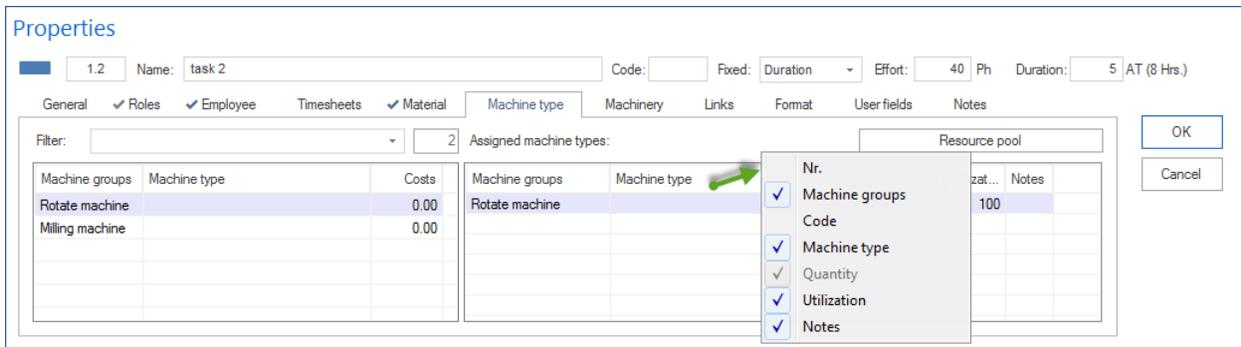
OK Cancel

Available machine types The left table shows you all the machine types defined in the basic resources.

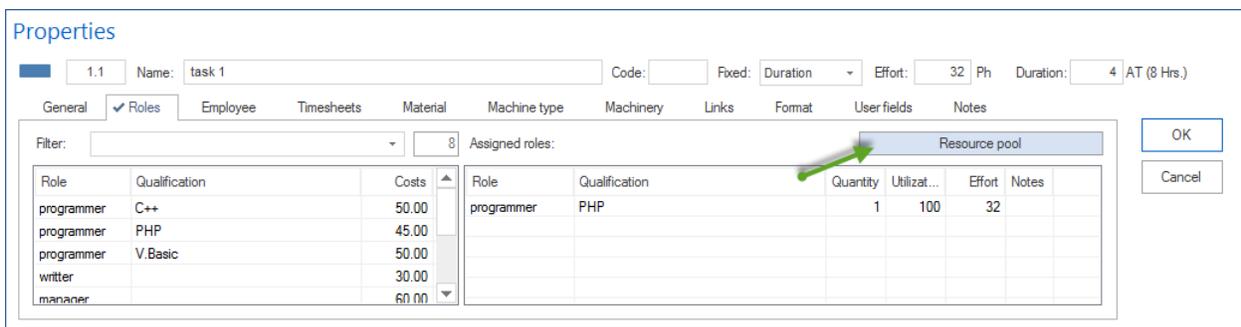
- Enter a string value in the field **Filter** to show only certain machines (search via the machine group, type and code) or enter two dots “..” in order to view the machine types that have already been used in the project.
- Doubleclick on the entry in the left table to allocate this machine type to the activity. **Allocated machine types** The right table shows you the machine types already selected for the activity.
- Enter the number of machine types required for this activity in the field **Number**.
- Enter the machine type usage of this activity in the field **Usage**.
- Enter notes that might be crucial for the machine types in connection with the activity in the the field **Notes**.
- Click on the button **OK**.

Notes:

- You can adjust the layout of the columns of both tables at your convenience by rightclicking on the column names of the table and selecting the columns you want to adjust.



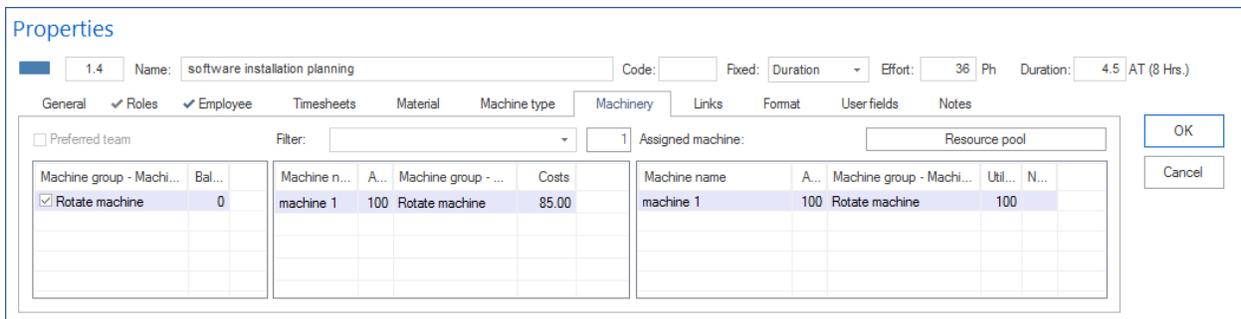
- In order to have quick access to the used resources, click on the button **Resource pool** if you are using the general resource pool - or on the button **Project resources** if you are using a project-specific resource pool.
- The time of use will be calculated automatically.



4.9.8 Allocate machinery

In order to allocate machines to the selected activities, do as follows:

- Activate the tab **Machinery** in the window Activity properties.



Allocated machine groups - machine types This table lists the allocated machine types in order to support you in selecting the machinery.

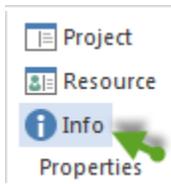
- The marked check box of a machine group / machine type is an additional filter for the machinery list. The list Machinery shows you only those machines that have the corresponding machine group and machine type.
- The field Quantity-utilization contains the required number of machines as well as their utilization for the machine type. This column is deactivated by default. If you want to unhide it, please refer to Details.
- The field Balance contains the dynamically calculated difference between the requested number for a machine type and the total number of the already assigned machines with the same machine type. Support in the control-

ling of the required machinery allocations. A negative value, for instance, indicates that more machines of this machine group and machine type are required.

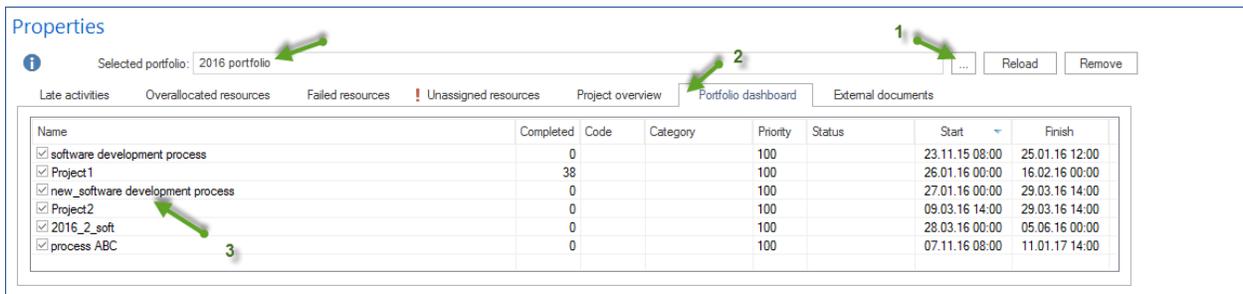
Mark the check box **Preferred and assigned teams** to use the assigned teams as an additional filter for the list Machinery. The list Machinery will show you then only those machines that belong to the assigned teams.

Available machinery Depending on the filter settings (teams, machine type and the entries in the field Filter), the central table shows you the machinery as defined in the basic resources. Enter a string value in the field **Filter** to show only certain machines (search via the machine group, type and code) or enter two dots “..” in order to view the machines that have already been used in the project.

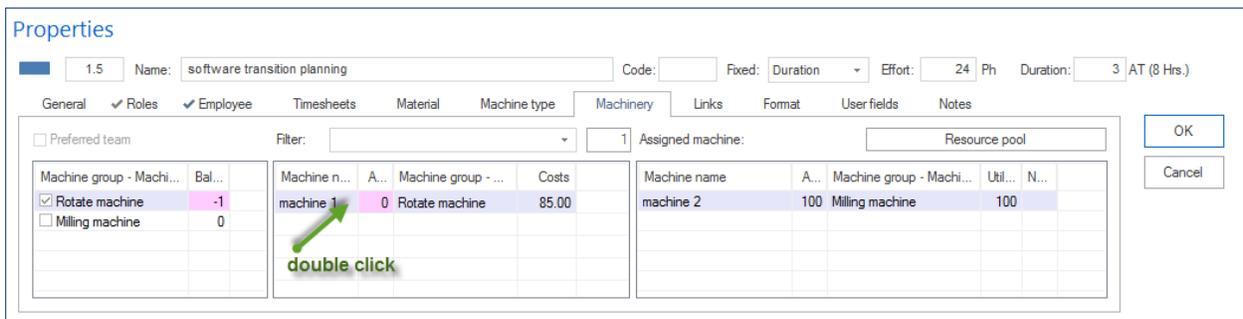
- The field Availability shows the percentage of the possible working capacity of a machine within activity duration, adjusted for the participation of the machine in other project activities.
- Um bei der Einplanung die Maschinen-Auslastung in anderen Projekten, die zu einem ausgewählten Portfolio zugehören, zu berücksichtigen, öffnen Sie das gewünschte Portfolio:
- Klicken Sie **Start > Eigenschaften > Info**



- Select the tab **Portfolio dashboard**.



- Doubleclick on the entry in the central table to allocate this machine to the activity.



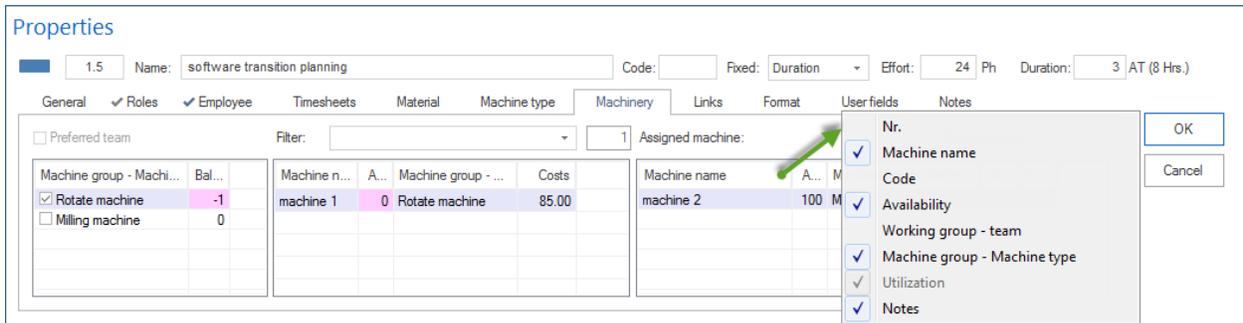
Allocated machines

The right table shows you the machines already selected for the activity.

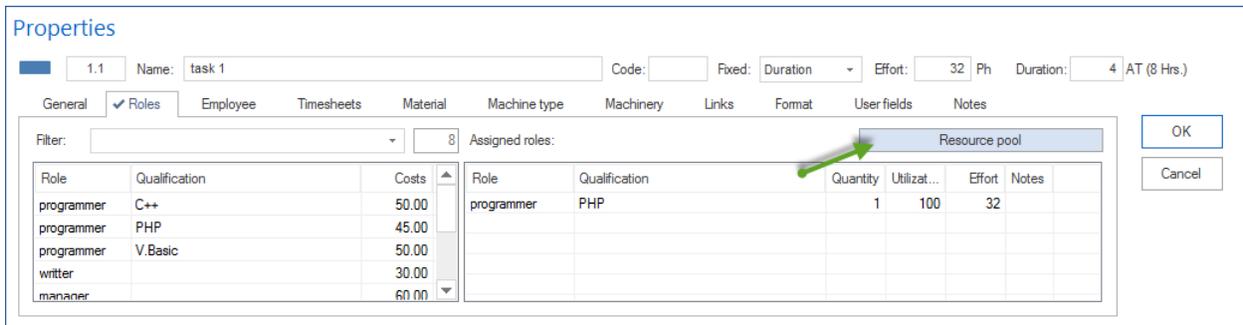
- Enter the machine usage of this activity in the field **Usage**.
- Enter notes that might be crucial for the machine in connection with the activity in the the field **Notes**.
- Click on the button **OK**.

Notes:

- You can adjust the columns layout of the three tables at your convenience by rightclicking on the column names of the table and selecting the columns you want to adjust.



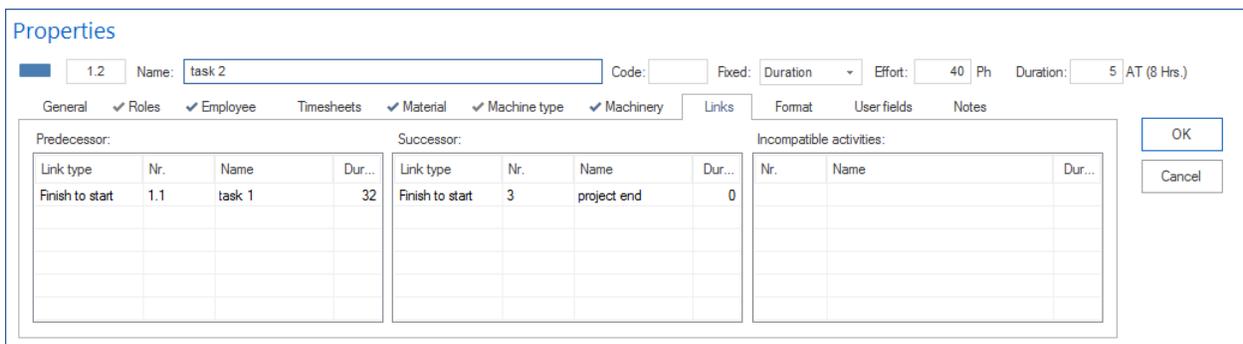
- In order to have quick access to the used resources, click on the button **Resource pool** if you are using the general resource pool - or on the button **Project resources** if you are using a project-specific resource pool.



- The time of use will be calculated automatically.

4.9.9 Check links

In order to check links, activate the tab **Links** in the window Activity properties.



“From” activity - The left table shows you all link types of the “from” activities along with the corresponding number and description of the activity.

“To” activity - The table in the centre shows you all link types of the “to” activities.

Incompatible activities – The right table shows you all incompatible activities.

4.9.10 Define format

You can define the bar labelling and colour for activities and subprojects at your convenience.

In order to define the format, do as follows:

- Activate the tab **Format** in the window Activity properties.

The screenshot shows the 'Properties' dialog box for 'task 2'. The 'Format' tab is active. The 'Fields' list on the left contains the following items:

Name	Description
%payment_date%	Zahlungseingang
%resource_employee_roles	Rollen
%resource_teams%	Teams
%resource_employees%	Personal
%resource_materials%	Material
%resource_machine_roles%	Maschinenarten

The 'Bar labelling' table on the right is as follows:

Type	Position	Content
Activity	Top left	
Activity	Bottom left	
Activity	Top right	%resource_employee_roles%
Activity	Bottom right	
Activity	Bottom	

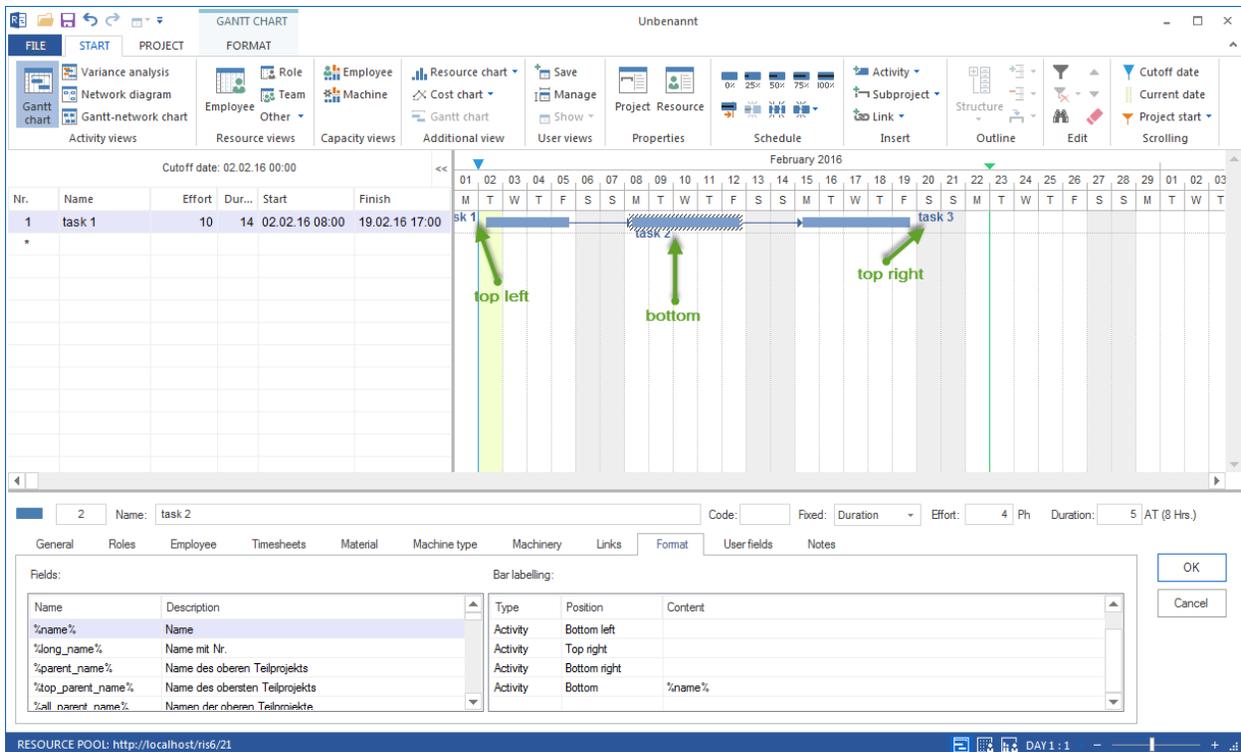
- **Select the variables you want to integrate into the labelling from the list Fields.**

You can use the field **Bar labelling** to define the bar labelling of activities and subprojects.

- **The field Type shows which of the objects - activities or subprojects - will be labelled.**
- The field **Position** shows the position of the labelling.
- **The field Content shows the content of the labelling. Depending on the preferred position, set the cursor on the corresponding content field.**
- **Enter either the labelling or select a predefined field from the drop down list Fields and doubleclick.**
- Click on the button **OK**.

Notes

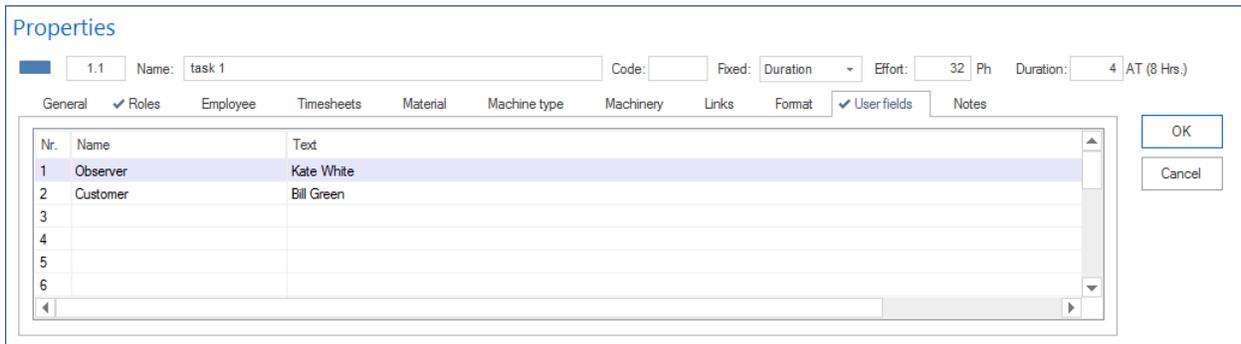
If several activities are shown in a row, the internal activities can be labelled just below.



4.9.11 Fill in user-defined fields

In order to fill in user-defined fields, do as follows:

- Activate the tab **User-defined fields** in the window Activity properties.



- Enter the text of your choice.
- Click on the button **OK**.

Note:

- First you need to define the **Name** of the user-defined fields in Project properties.

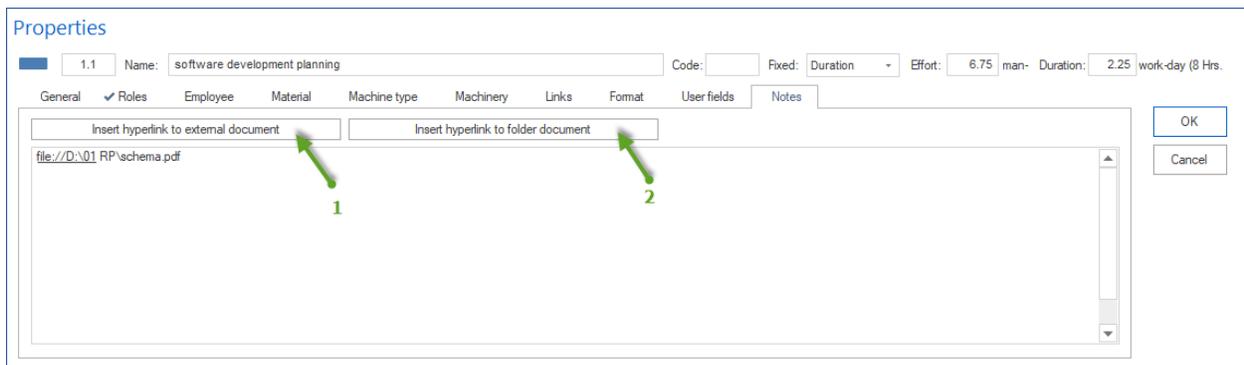
4.9.12 Enter notes & links

You can use this tab to enter notes, attach links to the activity and link the activity with document and graphic files. You can use the following key words for links:

- `http://` for hyperlinks
- `https://`
- `mailto:`
- `ftp://`
- `news:`
- `telnet:`
- `file:` for document and graphic files

You may proceed as follows:

- Activate the tab **Notes & links** in the window Activity properties.



- Enter the text of your notes.
- If you click the button **Insert Hyperlink to external document**, you can create a reference to an internal file.
- If you click the button **Insert Hyperlink to external folder**, you can create a reference to an internal folder.
- To insert a reference to external website, enter the preferred Internet address such as <http://www.rillsoft.de/>
- Click on the button **OK**.

Alternatively: If you rightclick on the tab field in **Notes & links-tab field**, you can select one of the following commands in the context menu.

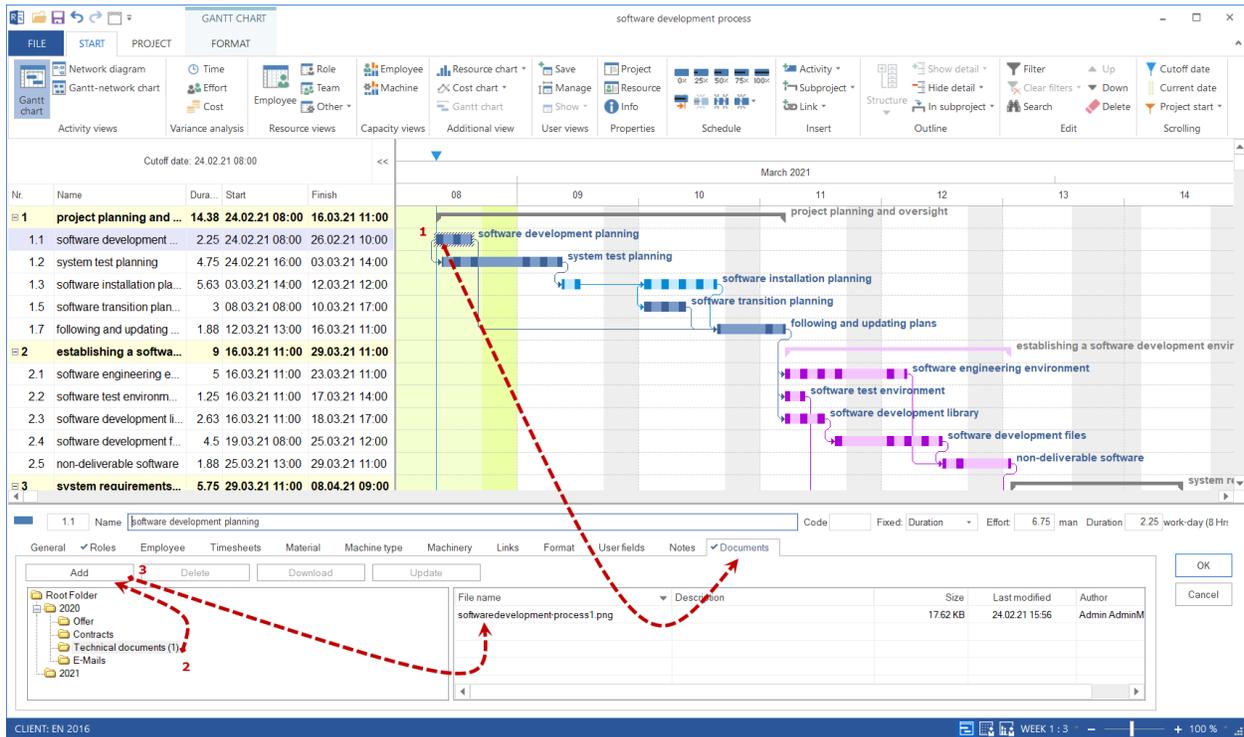


4.9.13 Assign documents in the DMS

Documents in the DMS (Document Management System) can be assigned only in the database-based solution Rillsoft Project with Rillsoft Integration Server.

To assign documents to a selected activity, please proceed as follows:

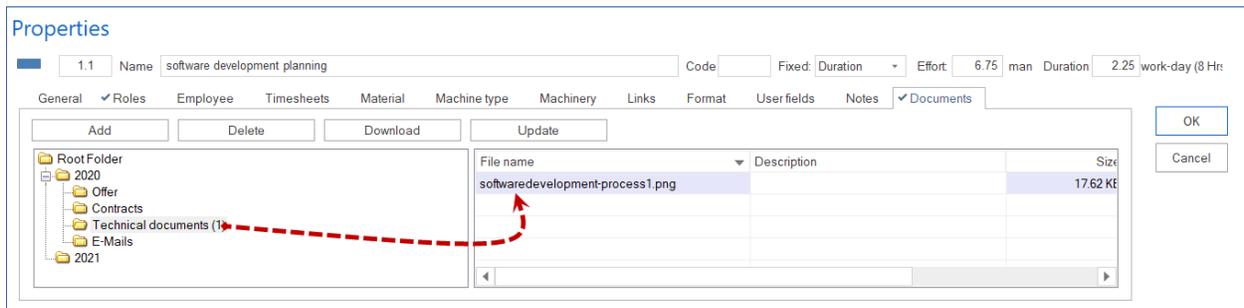
Activate the **Documents** tab in the activity properties window



The **Insert** button allows you to add a new document to an activity.

If you have already marked a document, you can **delete, download and update**.

On this tab you can see information divided into two areas.



A document directory structure is shown on the left. The number of documents added is shown in brackets next to a directory name.

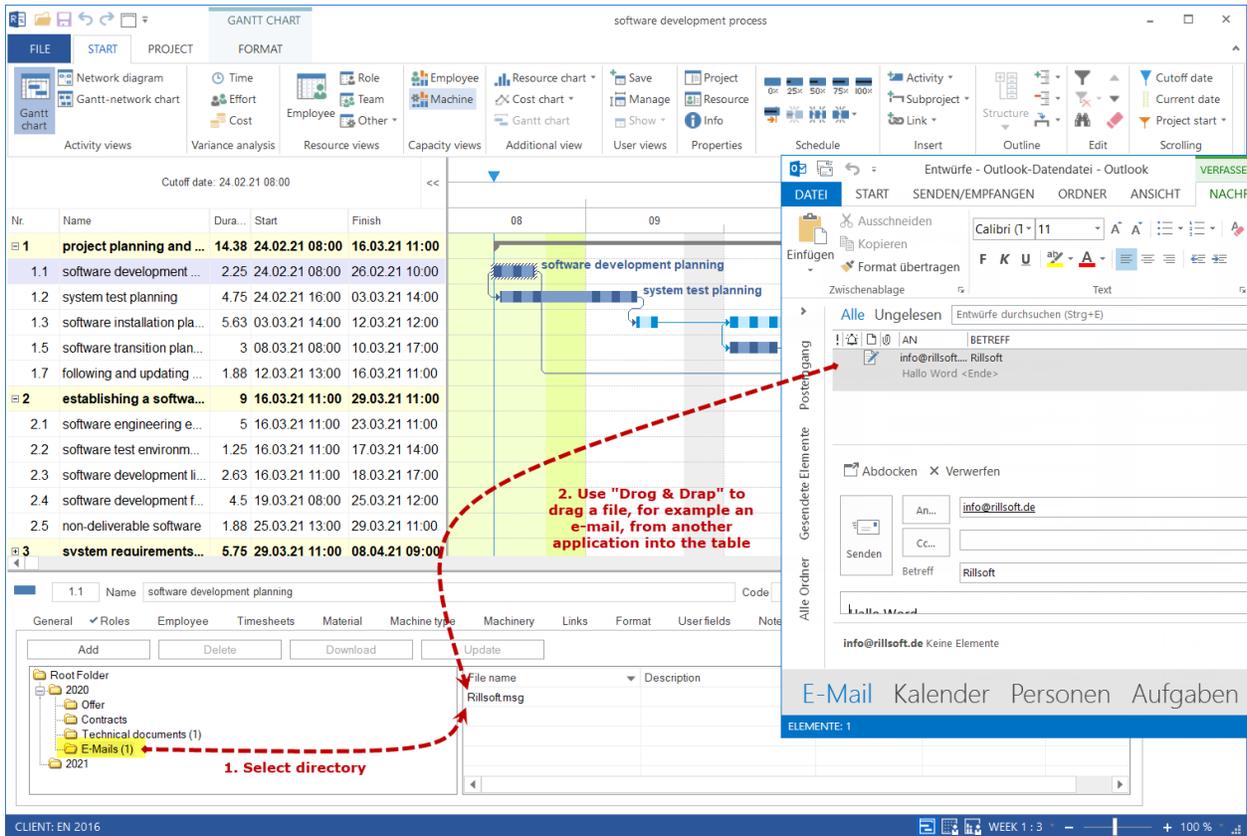
When you click on a directory name, you will see a directory content with brief information in the right area.

You can edit documents using the corresponding button:

- Add

- Delete
- Download
- Update

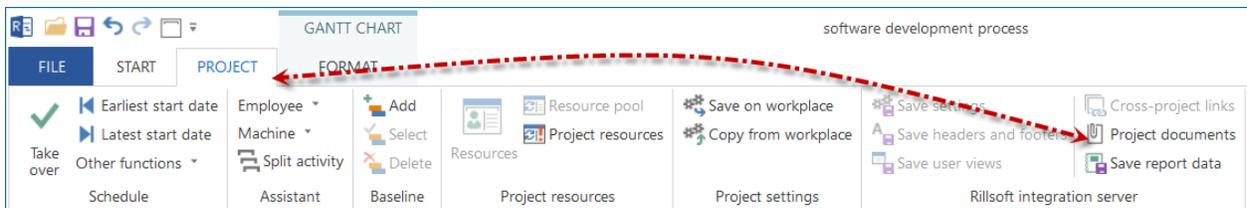
Drag & Drop You can use this function by dragging selected documents with the left mouse button pressed into the right area.



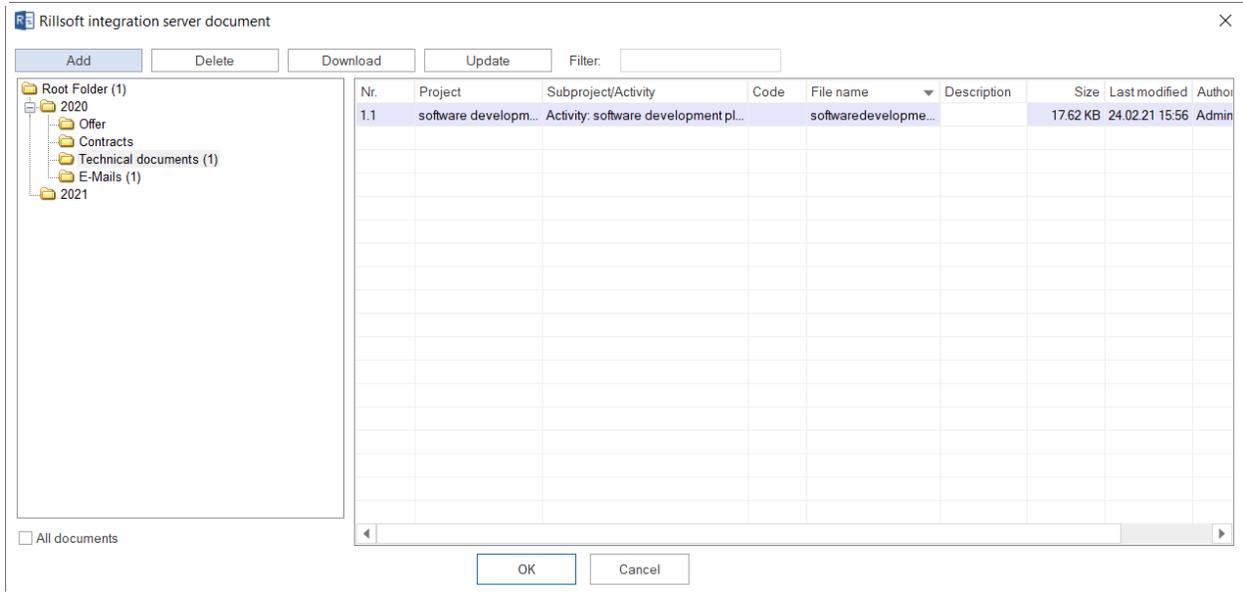
Manage documents in the project or portfolio

You can manage all documents assigned to a project or portfolio in the **Rillsoft Integration Server Document** dialog.

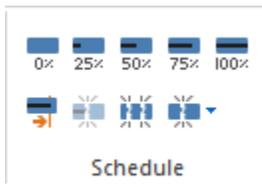
Click **Project> Rillsoft Integration Server> Project Documents**.



Here you can also filter out any documents.



4.10 Split activities

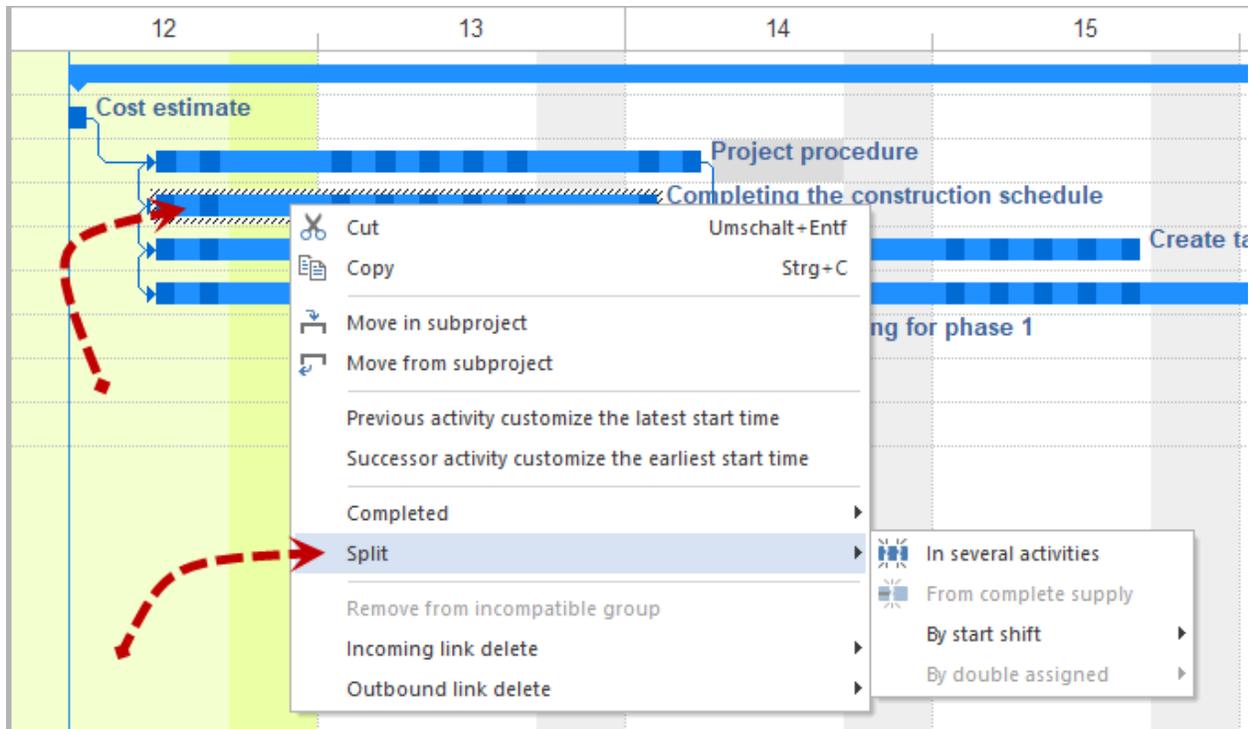


In order to split an existing activity, do as follows:

- Click Start> Schedule> ... and one of the split-functions.

Alternatively: This function is available via the context menu of the activity.

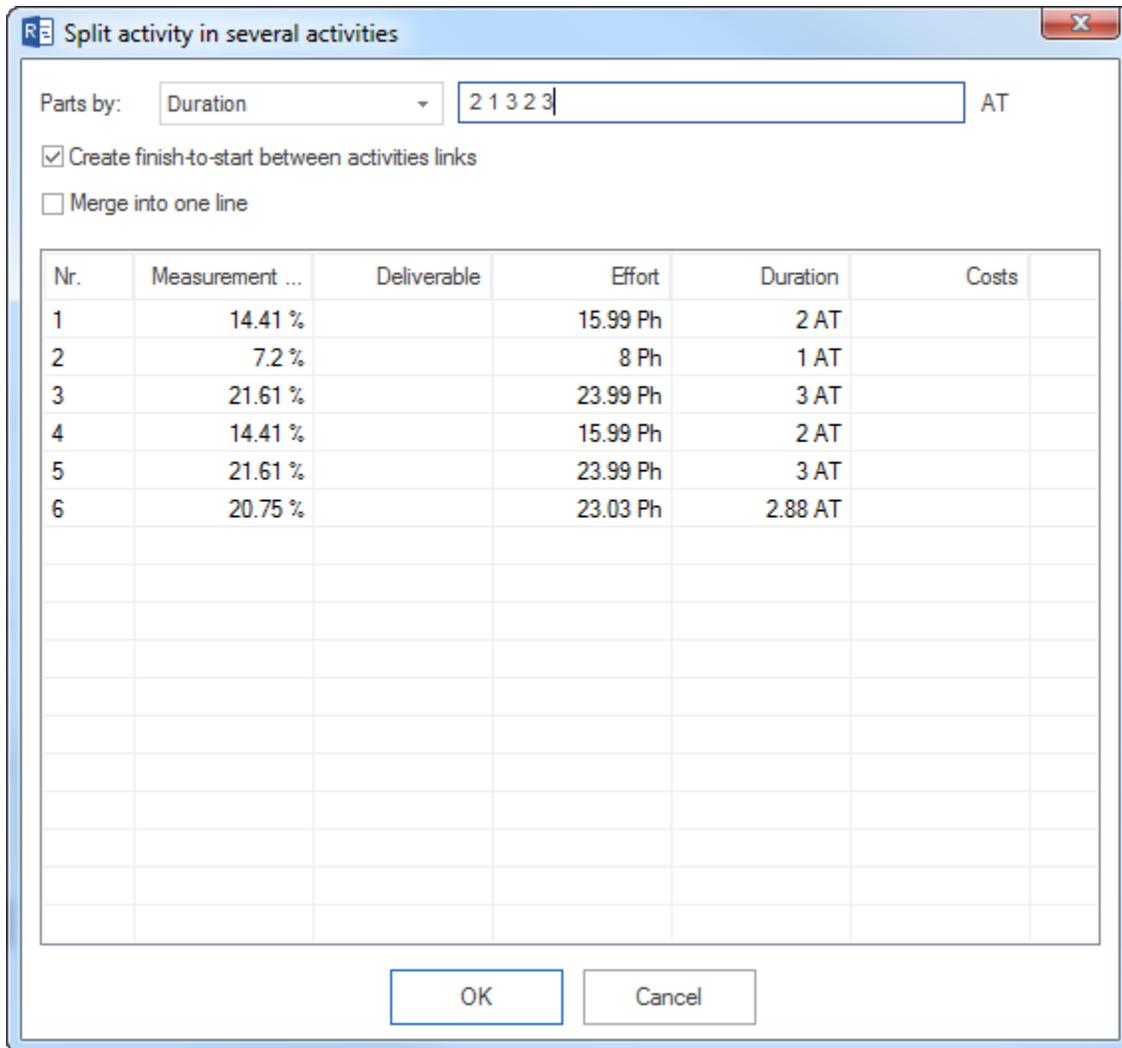
Rightclick on the activity in the diagram field.



Select the command **Split** from the context menu and choose one of the following functions:

- into several activities
- from the completed part
- at the first shift
- in case of several assignments

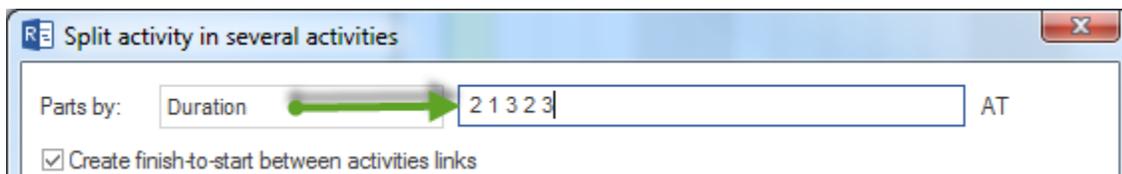
Split into several activities



Define the activity parameter according to which you want to split the activities in the field **Split into**. You can choose between the following parameters

- Percentage,
- Deliverable,
- Effort,
- Duration,
- Costs

The values to be entered in the next field need to be separated by **blank spaces**.



Mark the check box **Create finish-start links between activities** if you want to link the split activities with each other. Mark the check box **Show in one row** if you want to have the split activities displayed in one row. The list shows the

Activity Configuration Dialog:

Due date	Activity calendar: Project calendar	Completed: 0 %	Color: Automatic color
Start: 02.02.16 08:00	<input type="checkbox"/> Disregard team and employee calendar	Fixed costs: 0 €	
Finish: 19.02.16 17:00	<input type="checkbox"/> Start of activity only at first shift	Invoice amount: 0 €	
<input type="checkbox"/> Fix	<input type="checkbox"/> Merge into one line	Term of payment: 0 wor	
<input type="checkbox"/> Mark as milestone		Receipt: _____	

Display of the project schedule after the splitting into places / spaces.

Ongoing and yet-to-begin activities Summary:

Nr.	Name	Duration	Difference
1	Building	0.5	+0.33
2.1	Building	4.75	+0.33
3.1	Building	4.13	+0.33
4.1	Building	4.63	+0.33

4.12 Subprojects

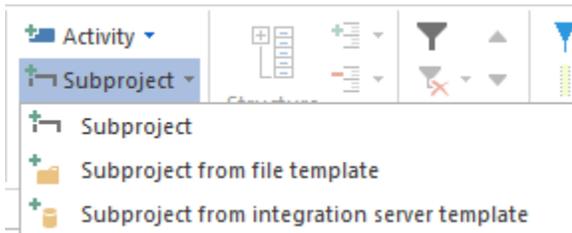
4.12.1 Create subproject

You can create:

- a new subproject
- subproject from file
- subproject from Rillsoft Integration Server template

In order to create a new subproject in the table, do as follows:

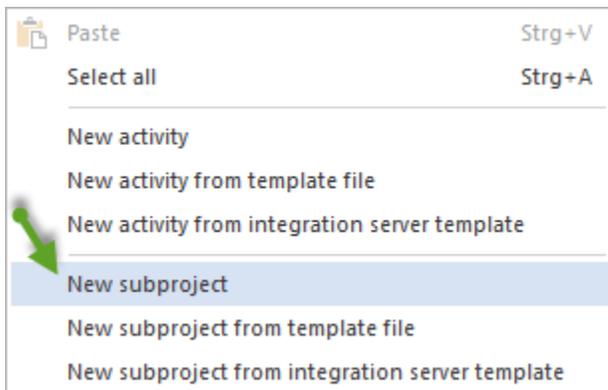
1. Select the menu item **Start > Insert > Subproject**.



2. Enter a subproject's name for in the appropriate row.

Create a new subproject in any area in the Gantt chart

1. Set the cursor on any area of the Gantt chart, where you want to create a blank Project.
2. Click with the right mouse button and select from the context menu **New Subproject**.



Add selected activities to the new subproject

You can add several pactivities to a new subproject doing as follows:

1. Mark with the pressed left mouse button several activities
2. Finally, click on Start > Add > Subproject

In this case, the start and finish dates of activities are assumed as the start and the end of the Subproject.

The screenshot displays the Rillsoft Project software interface. The top menu bar includes FILE, START, PROJECT, and FORMAT. The main workspace shows a Gantt chart for February 2016 with tasks 1 through 6. A table on the left lists task details:

Nr.	Name	Effort	Dur...	Start	Finish
1	task 1	16	2	02.02.16 08:00	03.02.16 17:00
2	task 2	8	1	04.02.16 08:00	04.02.16 17:00
3	task 3	24	3	05.02.16 08:00	09.02.16 17:00
4	task 4	16	2	10.02.16 08:00	11.02.16 17:00
5	task 5	24	3	12.02.16 08:00	16.02.16 17:00
6	task 6	24	3	17.02.16 08:00	19.02.16 17:00

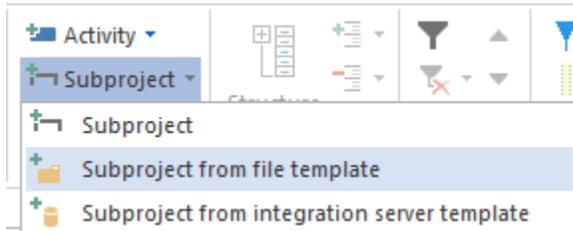
Below the Gantt chart is a dashboard with 'Project overview', 'Portfolio dashboard', and 'External documents' tabs. The 'Project overview' tab shows activity statistics and a table of ongoing activities:

Activities		Project		Ongoing and yet-to-begin activities			
Completed:	0	Complete:	0 %	Nr.	Name	Duration	Difference
Started:	0	Reserve:	3.3 day	1	task 1	2	+0.33
Still not started:	6						
All:	6						

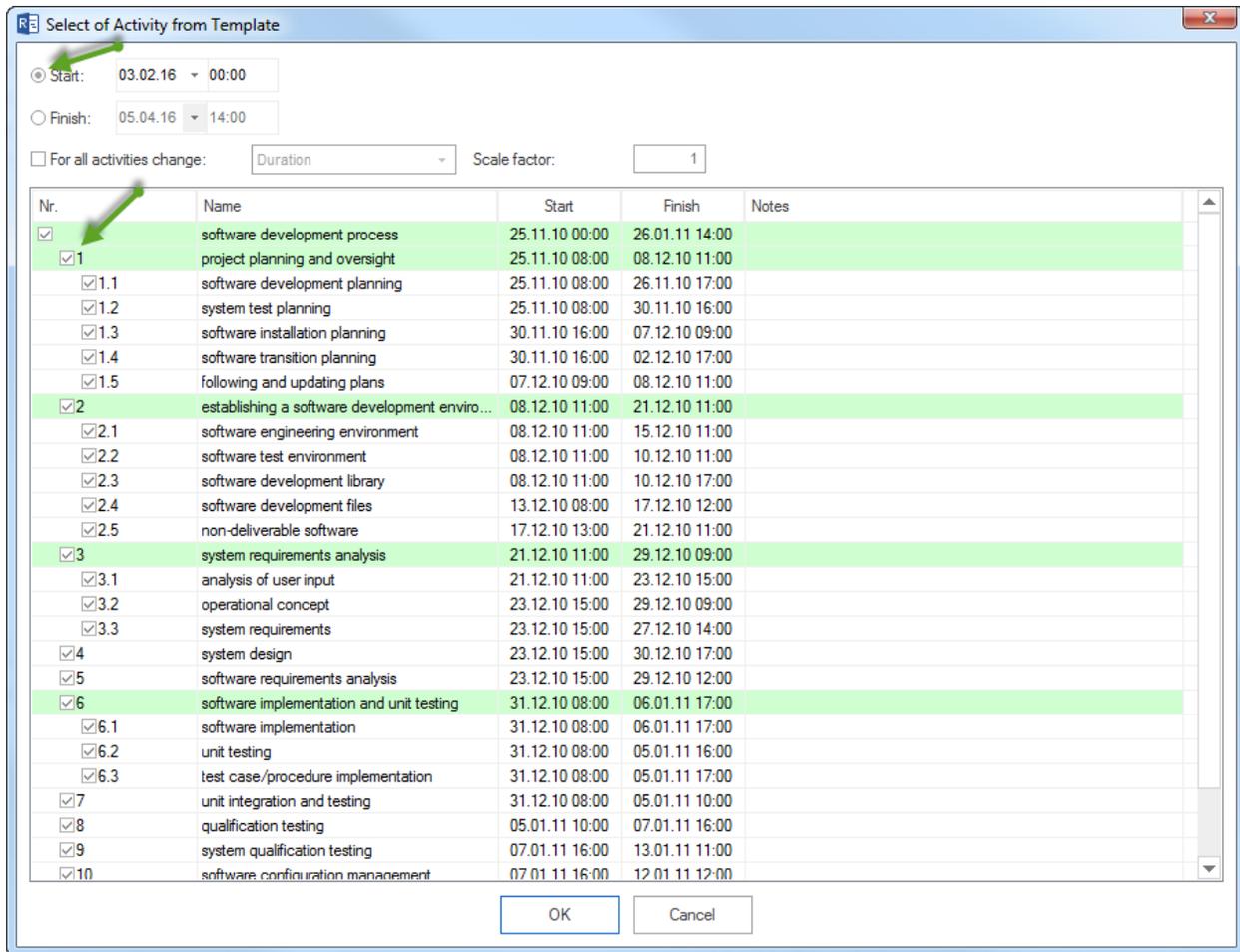
4.12.2 Insert subprojects from file

Insert a new subproject in the end of the activity table

- Choose the menu item **Start > Insert > Subproject from file template**



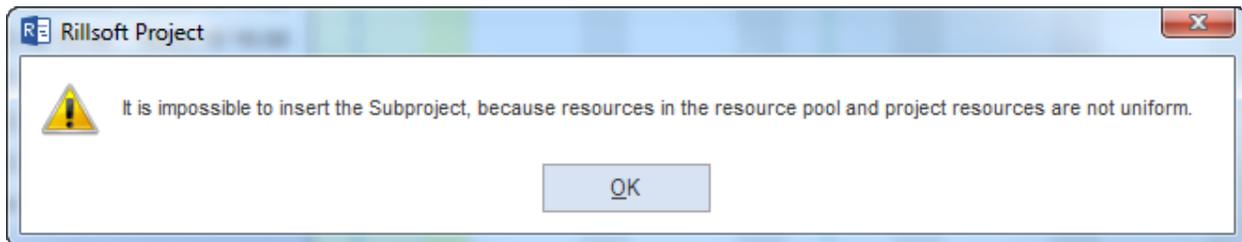
- The dialogue box **Open** appears.
- Select the project you want to insert.
- Set at the start or end of the subproject.
- You cannot assume the whole project but only selected activities as subproject by marking appropriate activities.



- Click on the button **OK**.

Note:

Inserted from the file-template project should work with the same resource pool as the main project. If there is a resource difference, the message appears.

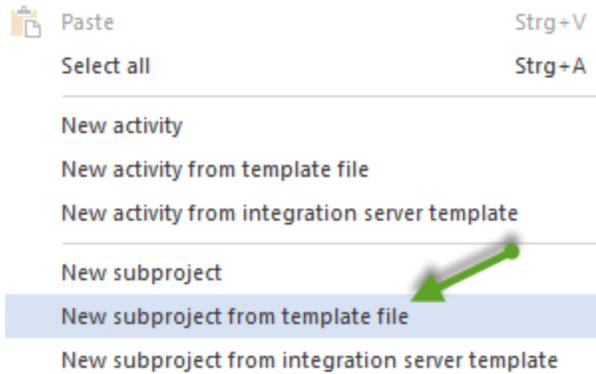


You should open the project inserted from template separately in Rillsoft Project and switch to the resource pool.

Follow the instructions under **Shift to the resource pool**.

Insert a new subproject in any area in the Gantt chart

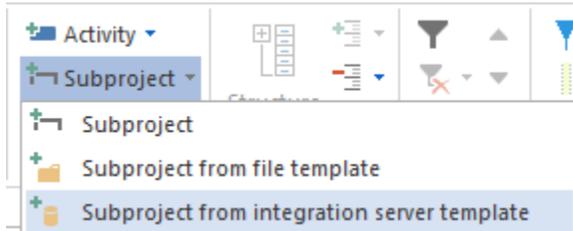
1. Set the cursor on a field in the Gantt chart where you want to insert a subproject.
2. Click the right mouse button and select the item from the context menu **New subproject from template file**.
3. Continue as described above.



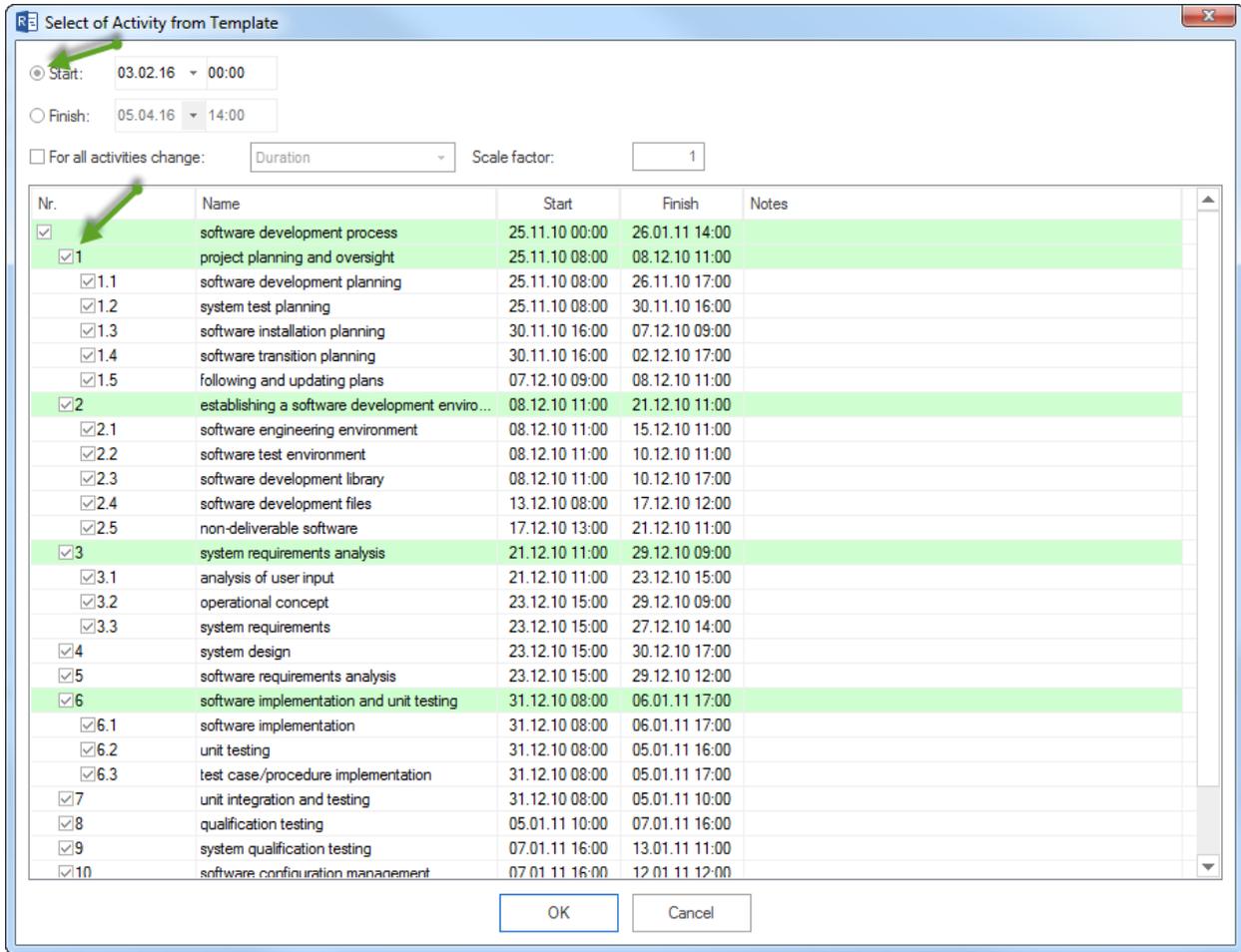
4.12.3 Insert subprojects from Rillsoft Integration Server template

Insert a new subproject in the end of the activity table

1. Select the menu item **Start > Insert > Subproject from Rillsoft Integration Server template**.



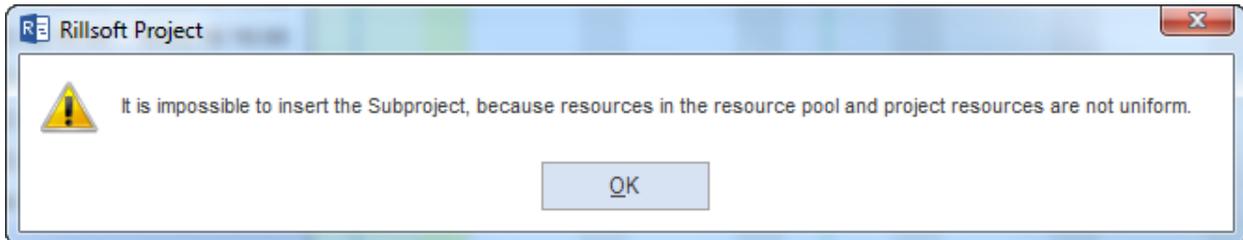
- The dialogue box **Open** appears.
- Select the project you want to insert.
- Set start or end of the subproject.
- You cannot assume the whole project but only selected activities as subproject by marking appropriate activities.



5. Click on the button **OK**.

Note:

Inserted from the Rillsoft Integration Server-template project should work with the same resource pool as the main project. If there is a resource difference, the message appears.



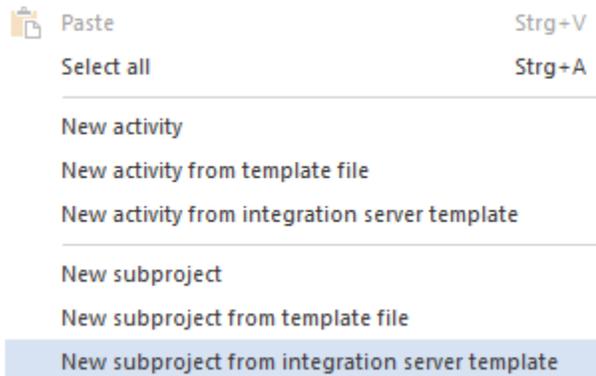
You should open the project inserted from Rillsoft Integration Server-template separately in Rillsoft Project and switch to the resource pool.

Follow the instructions under **Shift to the resource pool**.

Insert a new subproject in any place in the Gantt chart

1. Set the cursor on a field in the Gantt chart where you want to insert a subproject.
2. Click the right mouse button and select the item from the context menu **New subproject from Rillsoft Integration Server template**.

3. Continue as described above.



4.12.4 Edit subprojects

In order to edit a parameter of an existing subproject, do as follows:

- In the diagram click on the subproject whose parameter you want to edit.

Properties

1.2 Name: establishing a software development environment Code:

General Preferred team Shared machine types Shared machinery Format Userfields Notes

Due date
Start: 16.02.16 11:00
Finish: 01.03.16 11:00
Cutoff date: 03.02.16 00:00

Project calendar:
Project calendar
Category: - Not selected - Priority: 100
Status: - Not selected -
Baseline:

Project settings
Time step: 1 hour
Duration: in workdays(dependent on project c
Effort: in hours
 Enter deliverable for activity(Example: 150 M³)
 Enter effort for activity(Example: 5 man-hours)

Color:

Use for subordinated subprojects and activities

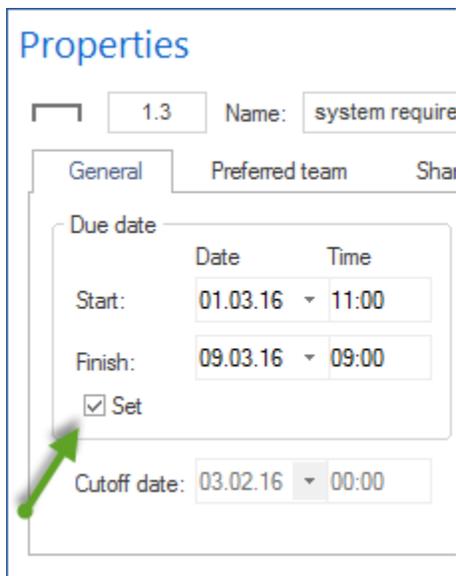
OK Cancel

- Activate the required tab in the window Properties and make the changes.
- Click on the button **OK**.

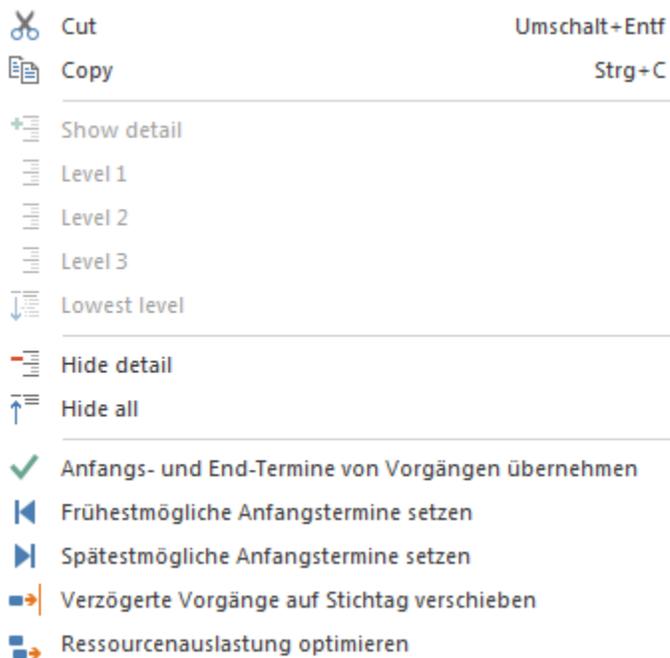
Alternative 1: You may make the changes to the most important subproject parameters directly in the table of the Gantt chart.

Alternative 2: You may use the mouse to shift the subproject in the diagram, so as to change its time parameters or duration.

Requirements: The subproject has fixed start and end dates.



Alternative 3: You can use the context menu of the subproject to make substantial changes to it quickly.

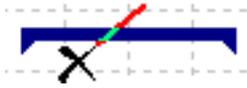


4.12.5 Delete subprojects

In order to delete an existing subproject, do as follows:

- Rightclick on the subproject you want to delete.
- Choose the command **Delete** from the context menu.

Alternatively: You can quickly delete an existing subproject by clicking on the blank space in the diagram with the right mouse button pressed down and striking out the subproject.



4.12.6 Enter subproject properties

In order to define the subproject properties, do as follows:

- Mark the subproject whose properties you want to enter.

The window **Object properties** opens.

- Enter the subproject name in the field **Name**.
- Enter the subproject code in the field **Code**.
- Mark the check box **Define** if you don't want to have the **start** and **finish date** of the subproject automatically calculated, but want to define it manually instead.
- Enter the approximately start and finish dates of the subproject in the fields **Start/Finish** after you have marked the check box Define.
- In the drop down list **Project calendar** select the calendar you want to use for the subproject.
- Click on the button **OK**.

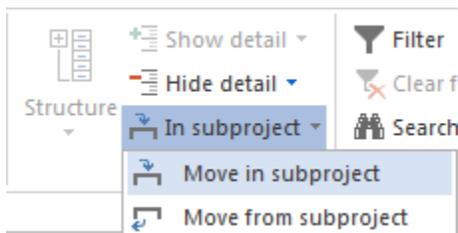
Note:

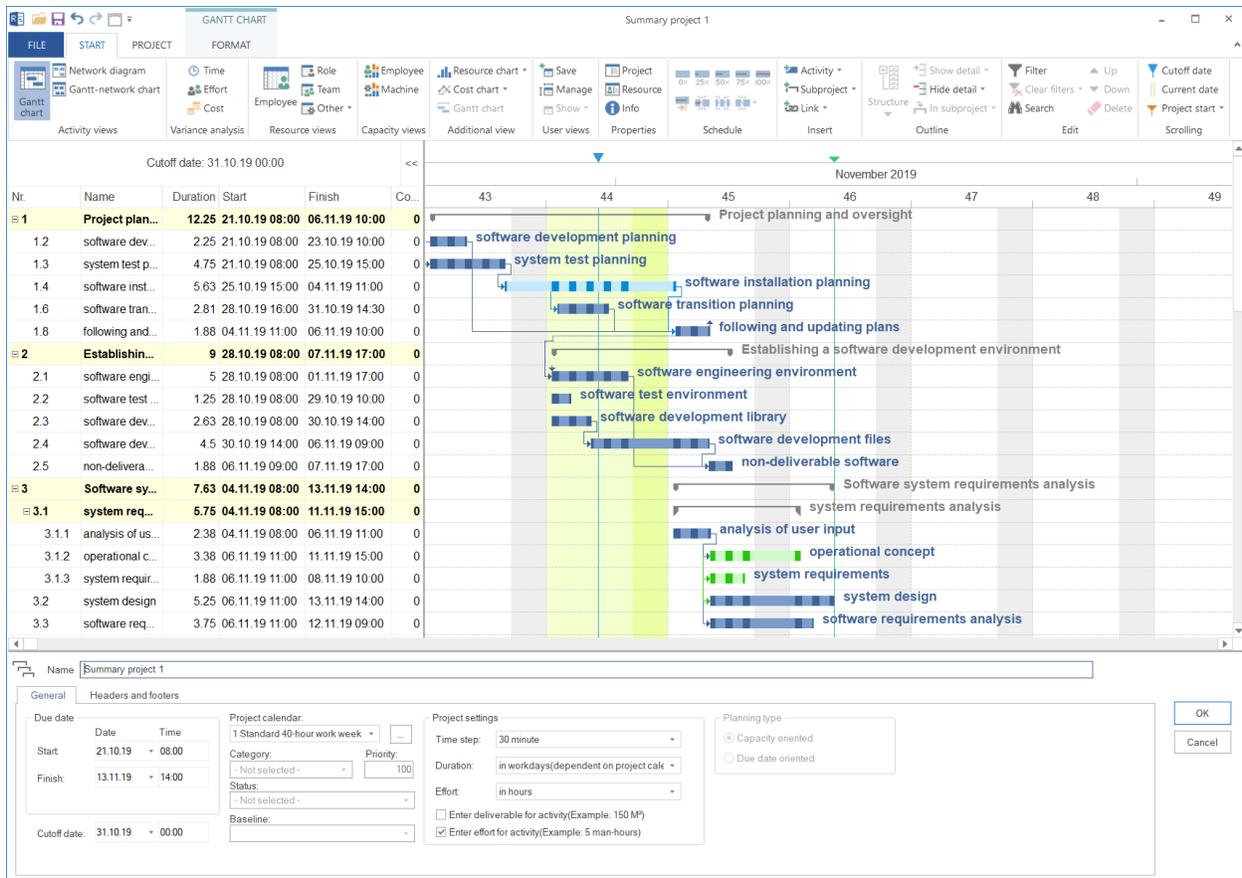
- The field Baseline indicates whether a baseline is being used or not. This feature is defined in the main project.
- The field Time step indicates which interval is being used. This feature is defined in the main project.

4.12.7 Assign activities to subprojects

In order to assign activities to subprojects, do as follows:

- Mark the activity bars you want to move into a subproject.
- Select the menu item **Start > Outline > Move in subproject**.





Requirement: Only the projects in the summary project may be added, which use a common resource pool.

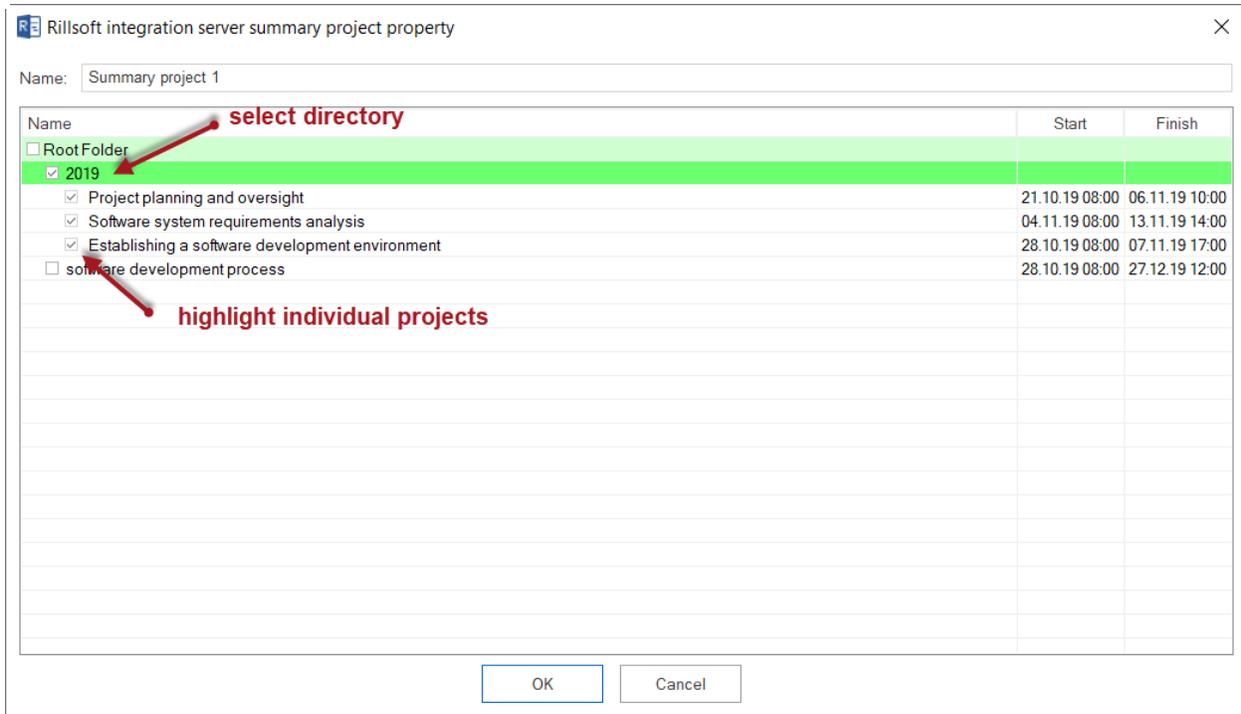
All views are available for the summary project, from the **gant chart** to the **resource chart**. In the summary project all activities like be carried out in a usual project, i.e. You can create tasks, allocate resources, correct activities, or save results.

Note: A **new Project** can not be created in the summary project. You should create a new project separately and then add to a summary project.

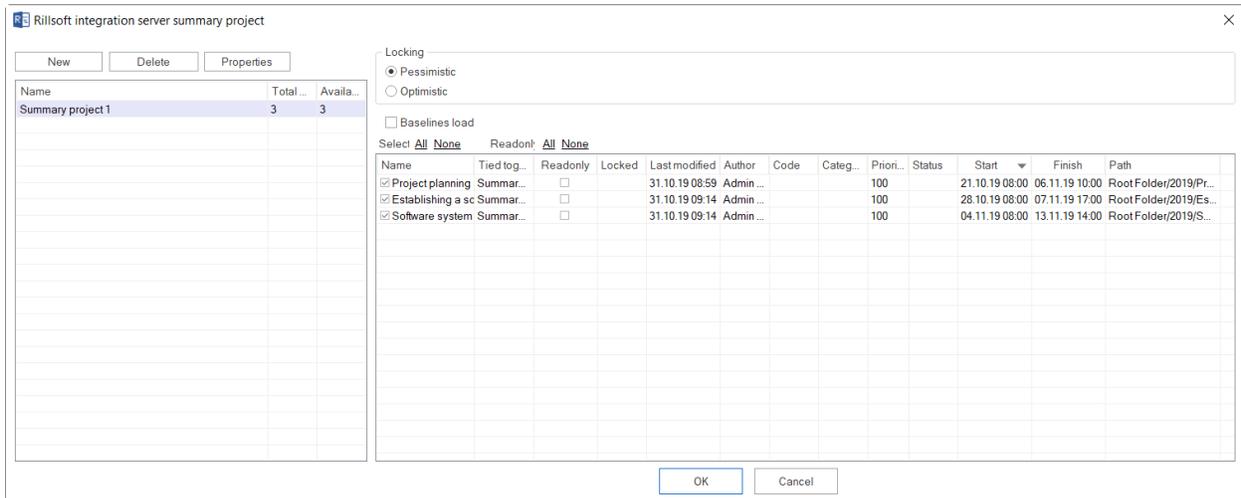
4.13.2 New Summary project in Rillsoft with interface to Rillsoft Integration Server

In order to open a new summary project, do as follows:

1. Select the menu item **File > Open new summary project**.
2. The dialogue window **Rillsoft Integration Server summary project** appears.



3. Select the folder where the required projects are located. Or select individual projects, which are to be transferred into the summary project. Enter a name for the summary project.



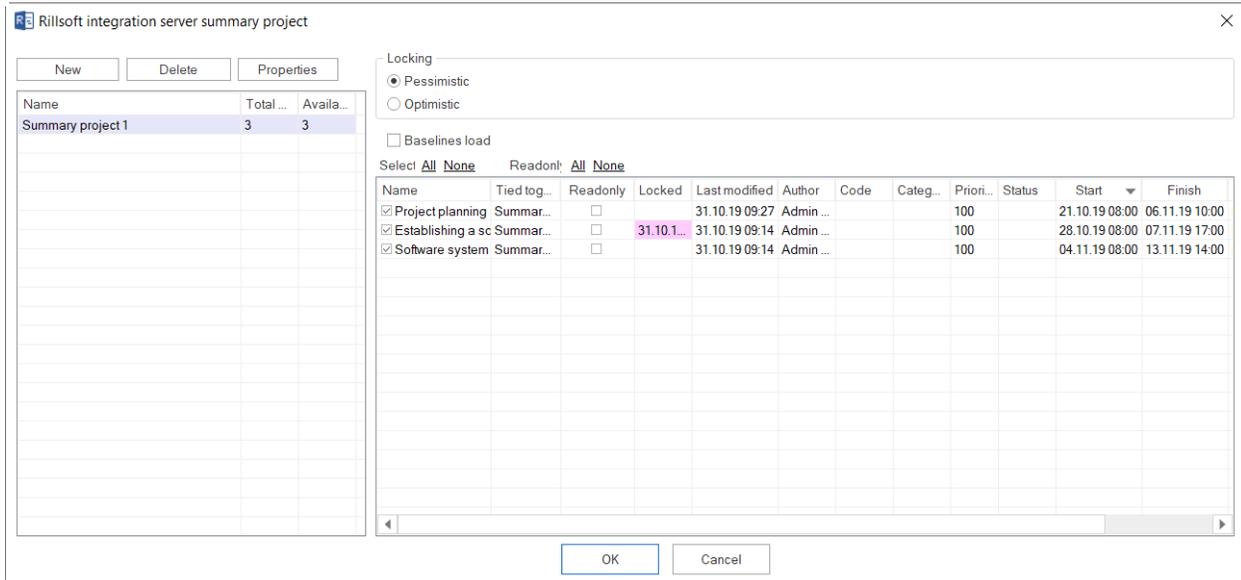
4. Click on the button **OK**.

Note: Although you can add to the summary project projects with resources different from the resource pool, but when you open the summary project appears a note, that you should switch these projects with the menu item **Project > Project resources > Switch to Resource pool** to the resource pool.

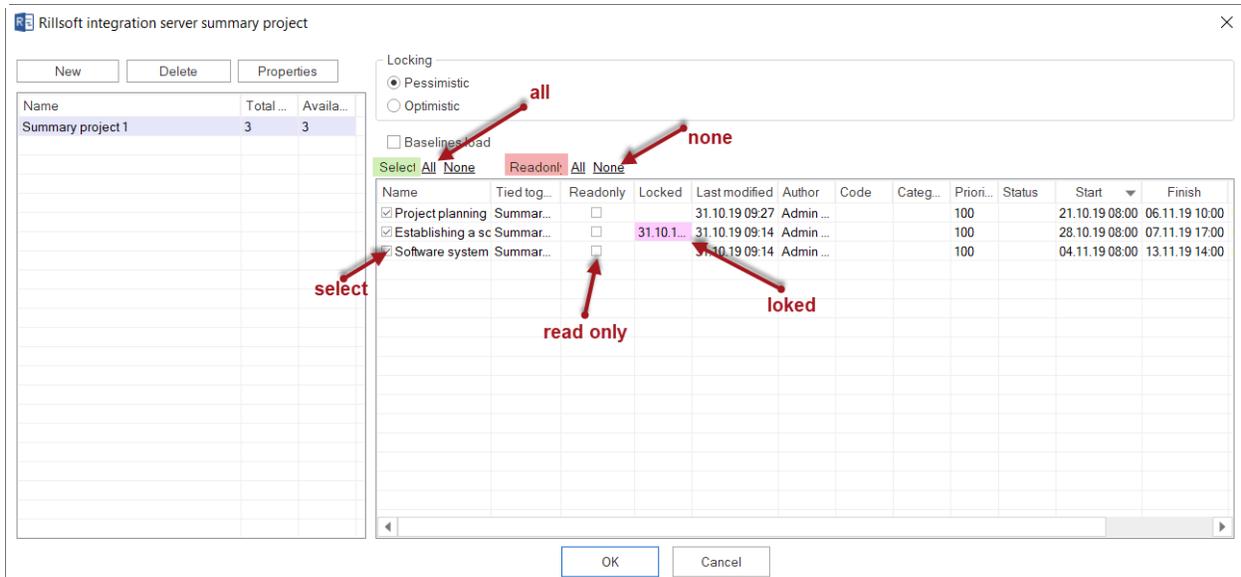
4.13.3 Open a summary project in Rillsoft with interface to Rillsoft Integration Server

In order to open a summary project, do as follows:

1. Select the menu item **File > Open > Rillsoft Integration Server > summary project**.
2. The dialogue **Rillsoft Integration Server summary project** appears.



3. Left, all summary projects are listed with information about project number in the summary project and number of projects that are available for you, it is related to your access rights.
4. Right, you see all the projects from the selected summary project. You can take out individual projects from the summary project for this time by deleting the marking of appropriate projects or all projects by click **Select: All**.



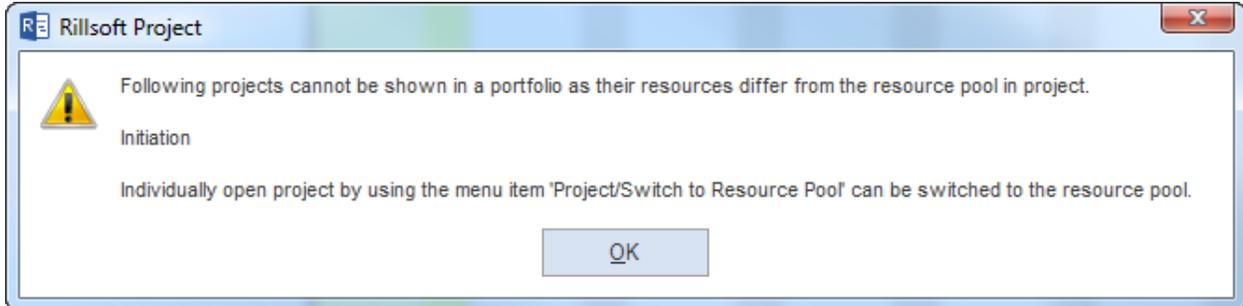
5. You can apply some projects read-only i.e. only to read in the summary project, by selecting them in **Read-Only** column or all projects by click **Readonly: All**.

You can see at once on a red background if any projects are locked as well.

6. Click on the button **OK**.

Note: Only projects that share a common resource pool can be included in the summary project.

If project resources are different from the resource pool, the message appears.



In order to have the summary project accepted projects with significant differences in resources, they must be opened separately and you can switch from the project resource to the resource pool by means of the menu item **Project > Switch > Resource pool**.

Locking

- Pessimistic – once a user edits something in the project, all other users can open the project only as a read-only copy.
- Optimistic - each user can always edit the project.

The lock option is available only for the user, who also have the appropriate access rights.

Baselines load

Baseline slows the work with the summary project. If you do not need a comparison with a baseline at the moment, you can open summary project without a baseline.

Set the order of the project in summary project

The projects shown in the list can be sorted according to the following parameters:

- Project name
- Code
- Category
- Priority
- Status
- Start of project
- Finish of project
- File names

Click on the selected column in the title area, e.g. **Start**.

Baselines load

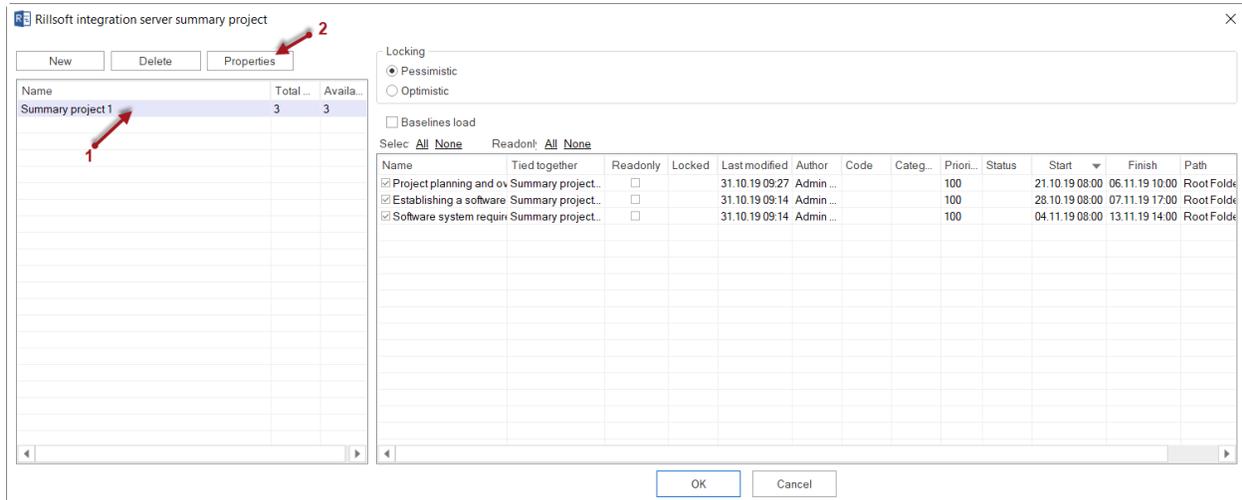
Selec: All None Readonly: All None

Name	Tied together	Readonly	Locked	Last modified	Author	Code	Categ...	Priori...	Status	Start	Finish	Path
<input checked="" type="checkbox"/> Project planning and ov Summary project...	<input type="checkbox"/>	<input type="checkbox"/>		31.10.19 09:27	Admin ...			100		21.10.19 08:00	06.11.19 10:00	Root Folder\2019\Pr...
<input checked="" type="checkbox"/> Establishing a software Summary project...	<input type="checkbox"/>	<input type="checkbox"/>		31.10.19 09:14	Admin ...			100		28.10.19 08:00	07.11.19 17:00	Root Folder\2019\Es...
<input checked="" type="checkbox"/> Software system requir Summary project...	<input type="checkbox"/>	<input type="checkbox"/>		31.10.19 09:14	Admin ...			100		04.11.19 08:00	13.11.19 14:00	Root Folder\2019\S...

The selected order is then accepted by the summary project.

Change summary project properties

Click on the button **Properties**



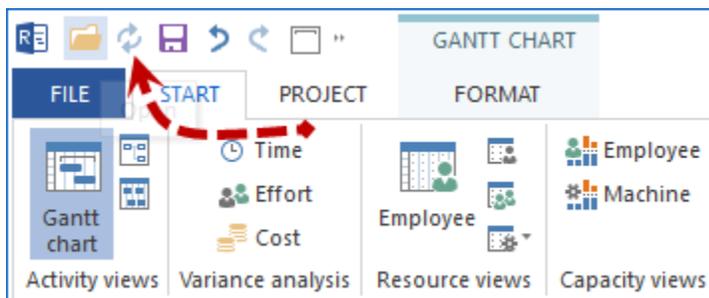
If you want to add other projects to the list, click on the appropriate button to add either a folder or file.

4.13.4 Reload summary project

If you are working in a multi-user environment, it may often be necessary to reload a summary project on which several people are working at the same time in order to view their changes.

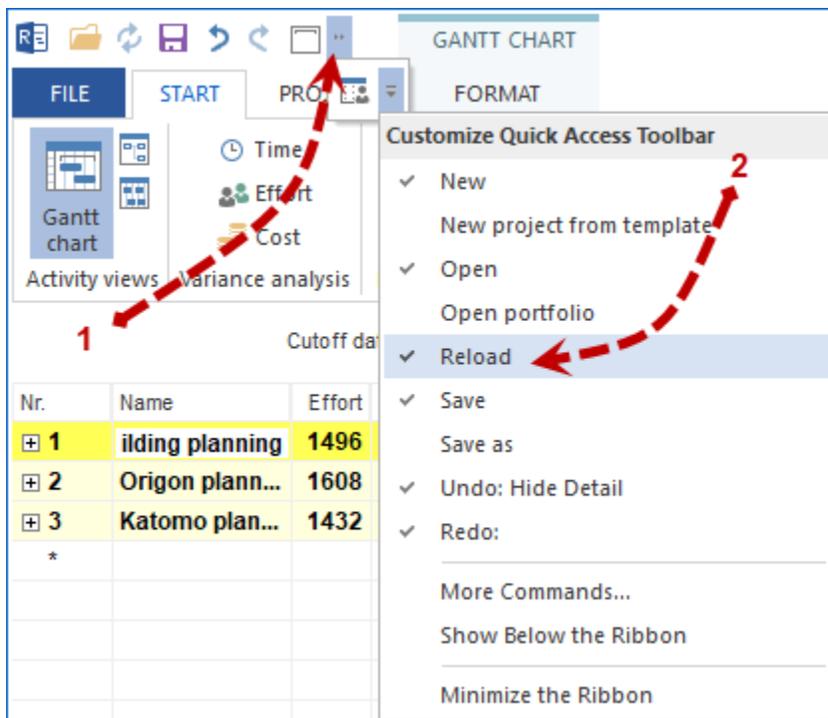
This function reloads the current summary project.

- Click on the **Reload** icon on the **Quick Access Toolbar**.



Notes:

- If the **Reload** icon is not present, you can select **Reload** from the **Customise Quick Access Toolbar** menu item.



4.13.5 Form a summary project from a split project

You can automatically convert an existing project, which consists of several sub-projects and is to be processed by different teams, into a summary project in Rillsoft Project with an interface to the Rillsoft Integration Server.

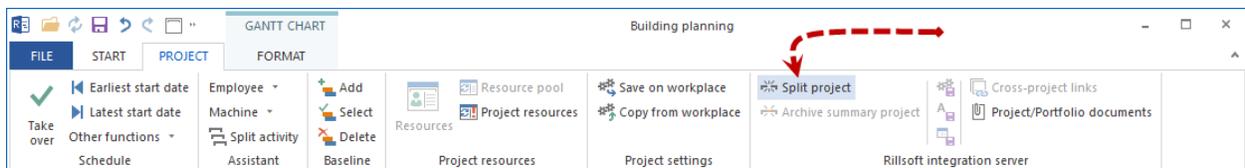
In order to convert a project into a summary project, the following **Prerequisites** should first be fulfilled:

1. there should be at least one sub-project in the project.
2. there should be no separate activities at the top project level, i.e. all activities should be subordinate to some subproject.
3. there should be no added documents at the top project level.

If the above requirements are not met, the function **Project > Rillsoft Integration Server > Split Project** is greyed out.

To create a summary project, please proceed as follows:

1. open a project that you want to convert to a summary project.
2. check whether the project has been converted to a summary project.
3. If it does, select the menu item **Project > Rillsoft Integration Server > Split Project**.



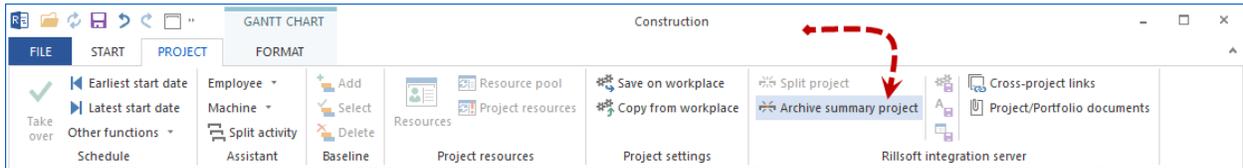
4. In the dialogue window, Rillsoft Project shows us in the **Name** column how many separate projects the project can be divided into.

4.13.6 Summary project archiving in Rillsoft with interface to the Rillsoft Integration Server

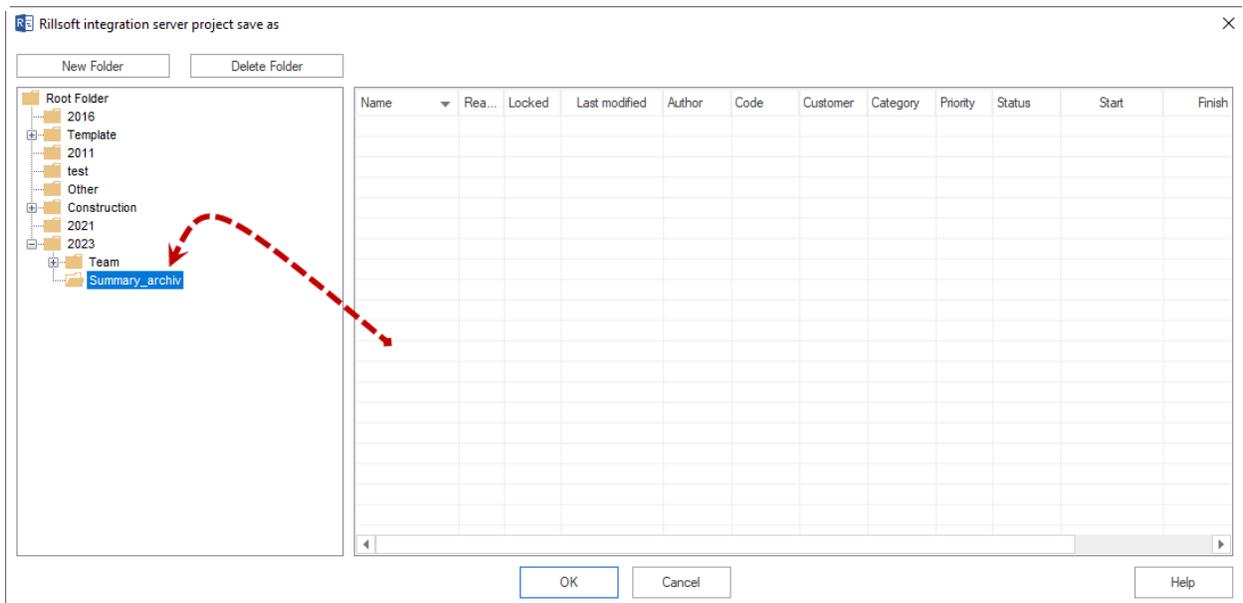
Several separate projects belonging to the summary project are merged into one project.

To archive a summary project, please proceed as follows:

1. select the menu item **Project > Rillsoft Integration Server > Archive summary project**.



2. The dialogue **Save Rillsoft Integration Server Project** appears.



3. On the left, all virtual directories are listed. On the right you see all projects from the selected directory.
4. Click the **OK** button.

4.13.7 Cross-project links in summary project

In the summary project you can link several projects with each other. **Important!** This function is only included in Rillsoft Project with **Rillsoft Integration Server** and links can only be edited in the summary project.

In cross-project links, succeeding activities are shifted not automatically, but the program sets negative intervals instead. By means of the menu item **Project > Rillsoft Integration Server > Cross-project links**, you can check these links and obtain detailed information about them, such as occurring delays.

You can choose whether you want to accept only single or all of the changes you have made to these settings.

Finish-Start	the “from” activity must finish before the “to” activity can start
Start-Start	the “from” activity must start before the “to” activity can start
Finish-Finish	the “from” activity must finish before the “to” activity can finish
Start-Finish	the “from” activity must start before the “to” activity can finish

Time intervals

Intervals can be defined in Project properties in relation to the time unit of the duration (such as hours or days). Intervals can only be defined in absolute time (estimated duration including non-working time, such as: 10 hours or 2 days).

Intervals can have

- positive (such as: + 2 hours) or
- negative (such as: - 50% = overlapping)

signs.

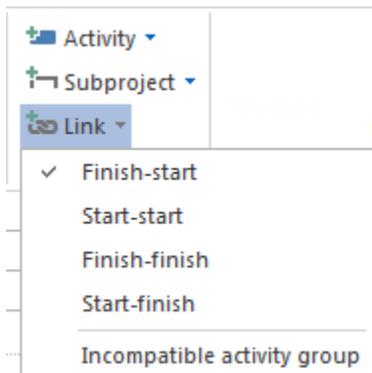
Highlight link

Links can be highlighted by means of colour or boldface.

Create cross-project link

New cross-project links can be only created by Rillsoft Project with Rillsoft Integration Server in the summary project. In order to create a new cross-project link, do as follows:

- Choose the link type via the menu item **Start > Insert > Link**.



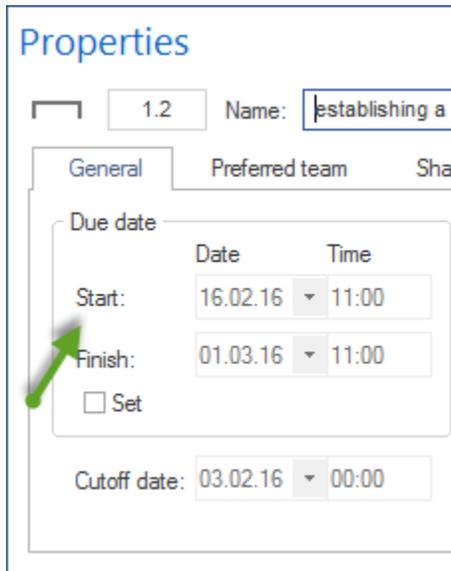
- **Connect two activities by drawing your mouse from one activity of a project to another activity from another project.**
- **If necessary, enter the delay (positive or negative) by which you want to delay the “to” activity depending on the selected link type.**

Note: If you do not enter any delay, the delay related to positions of outgoing and incoming activities is automatically calculated.

- Click on the button **OK**.

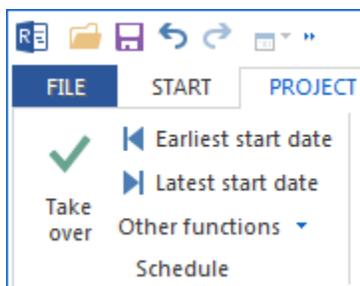
4.14 Take over start and finish dates of a project from activities

Rillsoft Project allows you to define the start and finish dates of a project during the setup of this project.



A project's duration is usually set by default for two weeks.

You may use the menu item **Project > Schedule > Take over** to recalculate project dates in relation to a start date of the first activity and the finish date of the last activity.



4.15 Improve presentation of the project

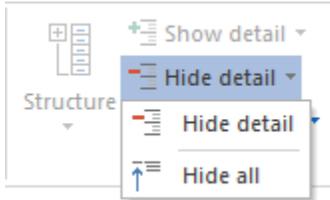
In order to improve the project readability, do as follows:

- Show / hide all subprojects
- Number all activities and subprojects
- Change order in the Gantt charts
- Adjust timescale and calendar pane

- Scale up/down display
- Create subprojects
- Add user view

Show / hide detail

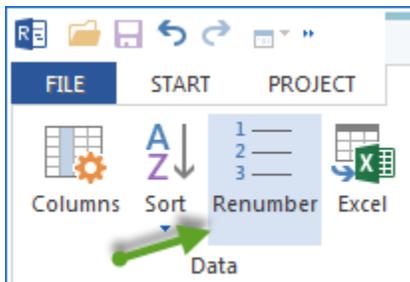
In order to unfold all subprojects, select the menu item **Start > Outline > Show/Hide detail**.



Number all activities and subprojects

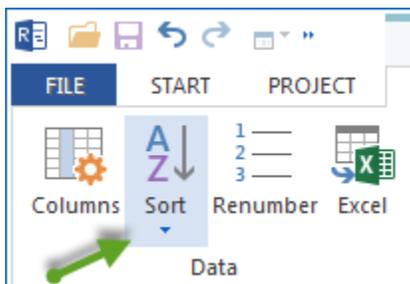
To each activity is automatically assigned a number during the activities creation. After their linking or the schedule correction, the numbers may not correspond to the correct time series.

In order to rearrange the numbers of activities - no matter whether it is a unique number or WBS code - , select the menu item **Project / Numbering**. The activities will then be numbered automatically and unbrokenly.



Change order in the Gantt charts

In order to automatically change the order of all activities and subprojects, select the menu item **Gantt chart format > Data > Sort** an



select one of the following menu items or icon buttons:

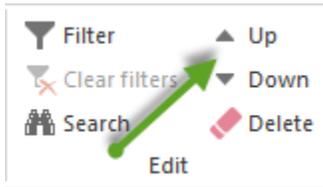
- by links
- by start time
- by code
- by name

Note: Different views can have different menu items.

Manually change

In order to change automatically the order of a single marked activity or subproject

1. select the menu item **Start > Edit >...** an.



2. select one of the following menu items or icon buttons:

- up
- down

Adjust timescale and calendar pane

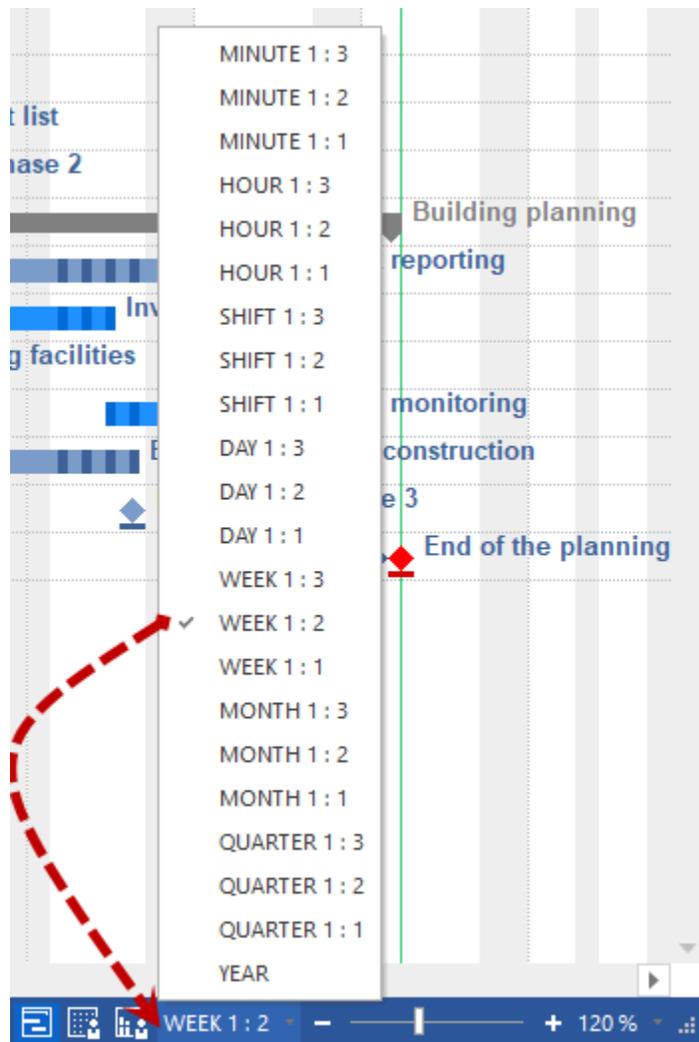
To display the project's time, you can choose between minutes and quarters.

To adjust the timescale, you can select one of two options:

- Click the slide bar with the left mouse button on the right pane of the status bar and move the slider to the preferred time-zoom setting.



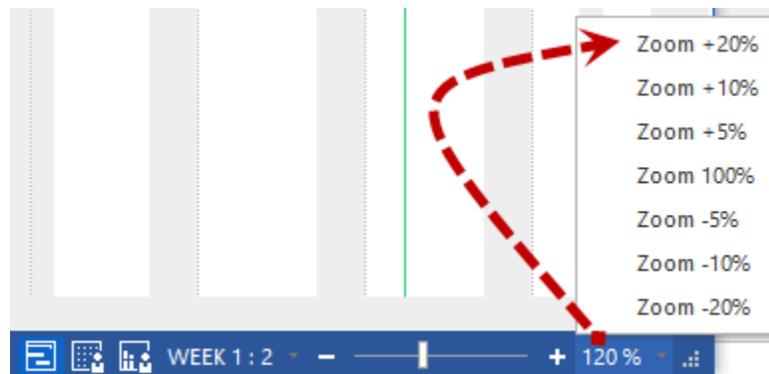
- Click on the actual time display e.g. Week 1:2 with the left mouse button on the right pane of the status bar. Then select other preferred representation from the list.



Scale up/down display

When displaying the project, you can enlarge or reduce the project views.

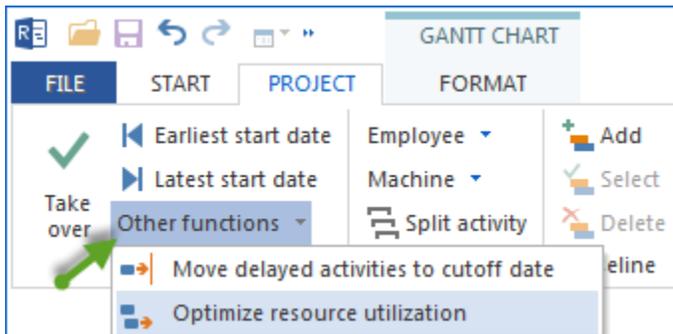
Please click with the left mouse button in the right-hand area of the status bar on the current scale display, e.g. 120%. Then select select other preferred representation from the list.



4.16 Optimize a project

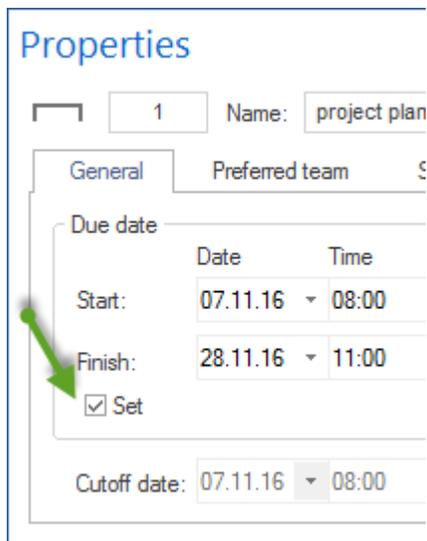
The purpose of project optimisation is to obtain a project schedule that meets a predefined finish date and which makes optimal resources utilization.

In order to optimize a project, go to the menu item **Project > Schedule > Other functions > Optimize resource utilization**.

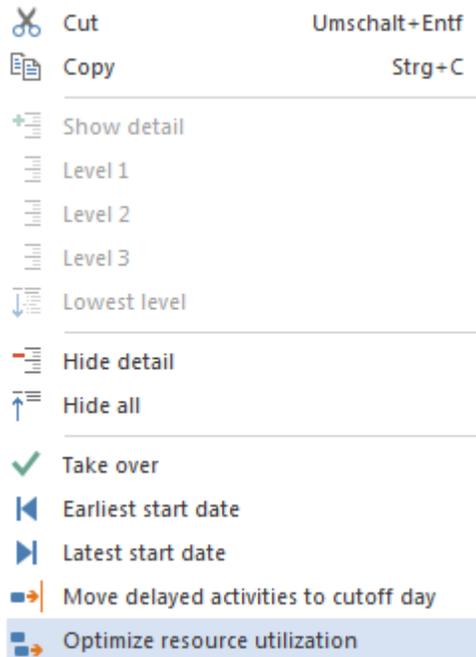


Note:

- You can use the check box **Fix** in the window Activity properties (tab **General**, field **Due date**) to ensure that the due date of the activity remains unchanged during optimisation.



- The optimisation process takes the fixed dates of the subprojects into account.
- The command **Optimize resource utilization** in the context menu of the subproject can be used to optimize selected subprojects only.



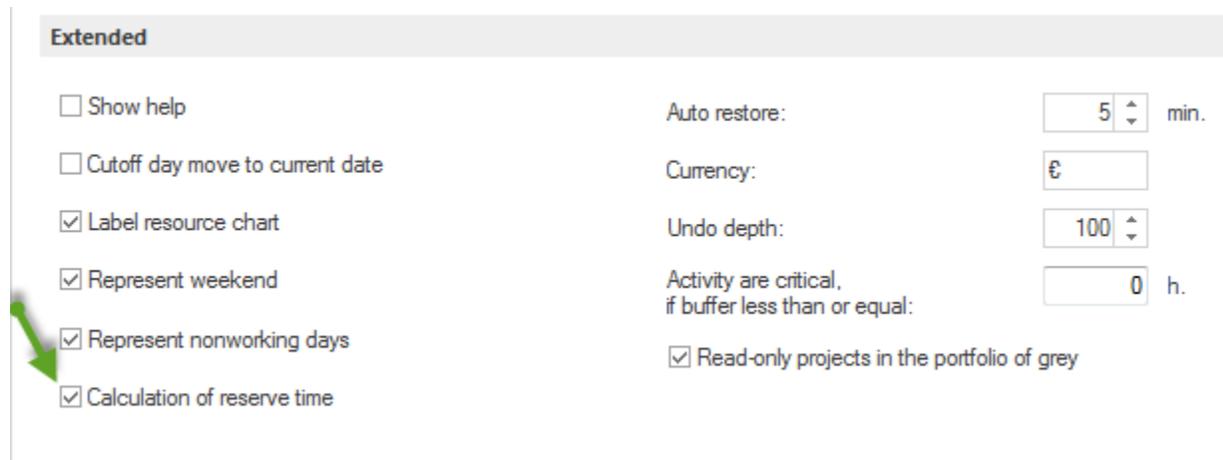
- The optimisation of personnel resources is done according to the following command structure: employee -> teams -> roles (explanation: if it includes employees, teams or roles will be ignored in the optimisation).

Contingency reserve

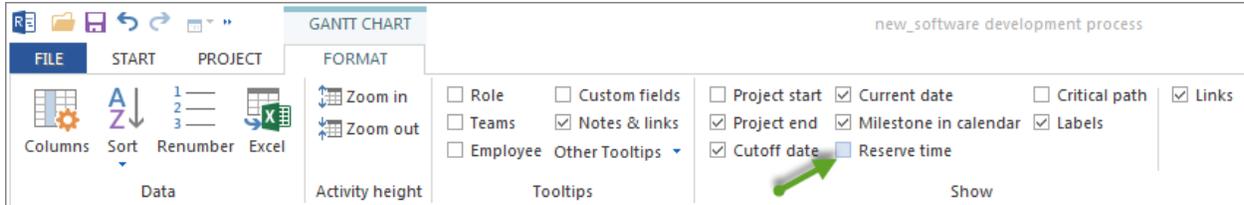
The display of the contingency reserve provides an overview about the earliest possible start dates and latest possible finish dates of activities and subprojects in the Gantt chart in case of changes in the project schedule.

In order to activate the view of the contingency reserve, do as follows:

- Select the menu item **File > Options > General > Extended**.
- Mark the check box **Reserve time calculation**.

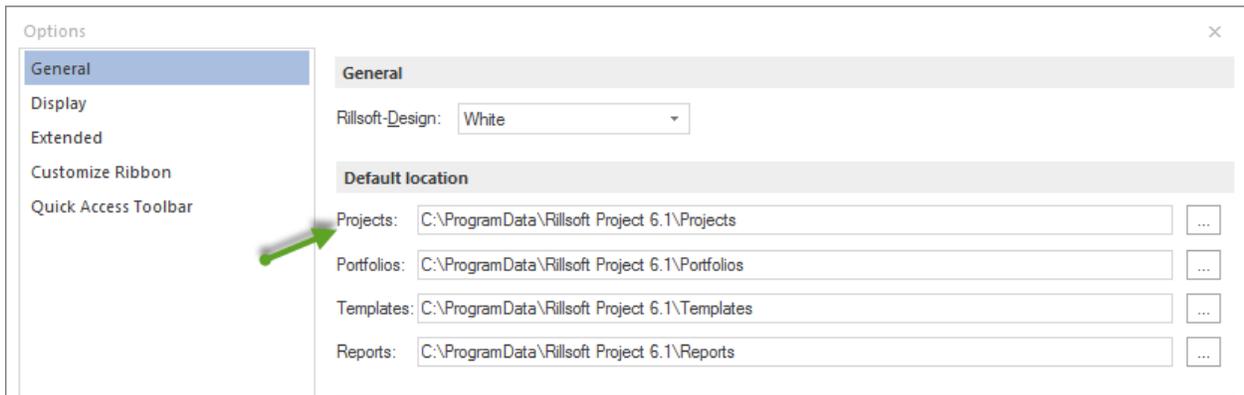


- Select the menu item **Gantt chart format > Show > Contingency reserve**.



4.17 Save project

In order to save a project, select the menu item **File > Save or File > Save as**.

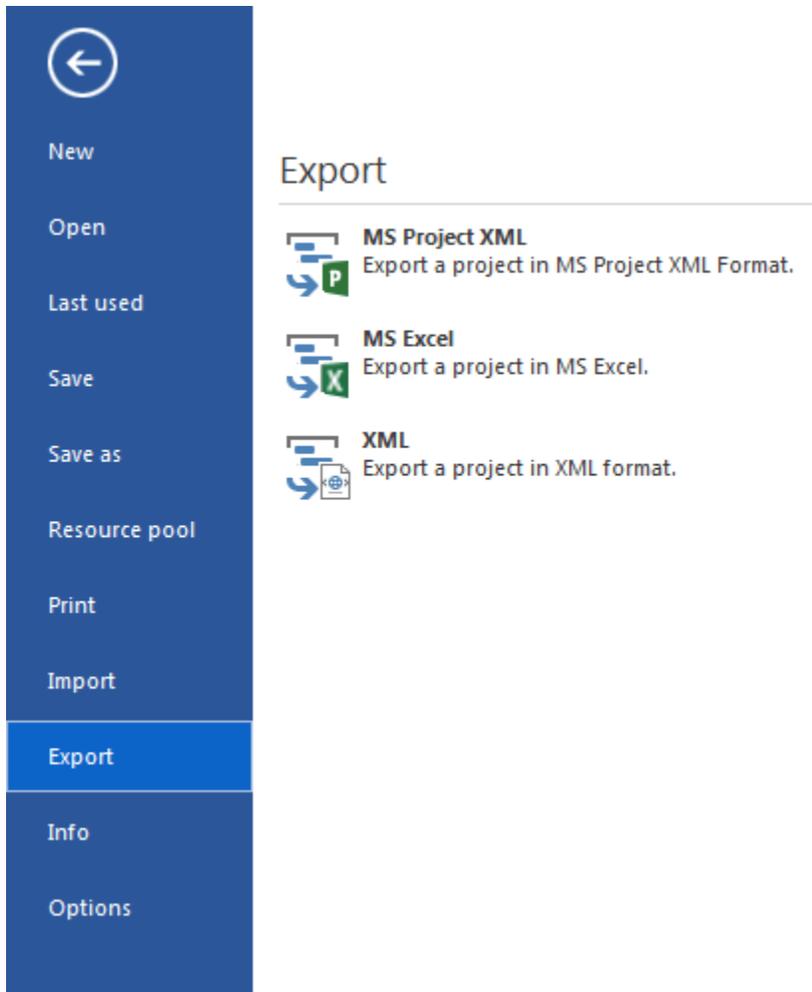


- You can create a folder for your templates by clicking on **File > Option > General > Default location** in the field **Project**.

Rillsoft with interface for the Rillsoft Integration Server

In order to save a project, select the menu item **File > Save or Save as > Rillsoft Integration Server > Project**.

Save to other formats



Alternatively, you can save projects in other formats:

- in **MS Project** via XML
 - in **XML format** for Web

Clicking on **File > Export > ...** and mark as **File type** the appropriate format.

- **MS Excel**

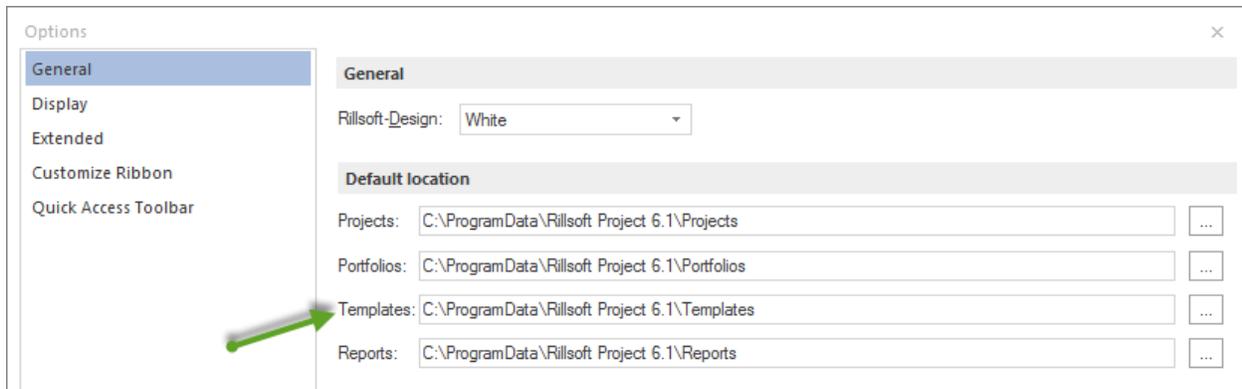
Select the menu item **View format > Data > Excel**, for example **Gantt chat format > Data > Excel**

4.18 Save project as template

In order to save a project **as template**, select the menu item **File > Save as template**.

Note:

- We recommend you to remove all employees from the project by clicking on **Project > Assistant > Employees > Remove employees from activities**.

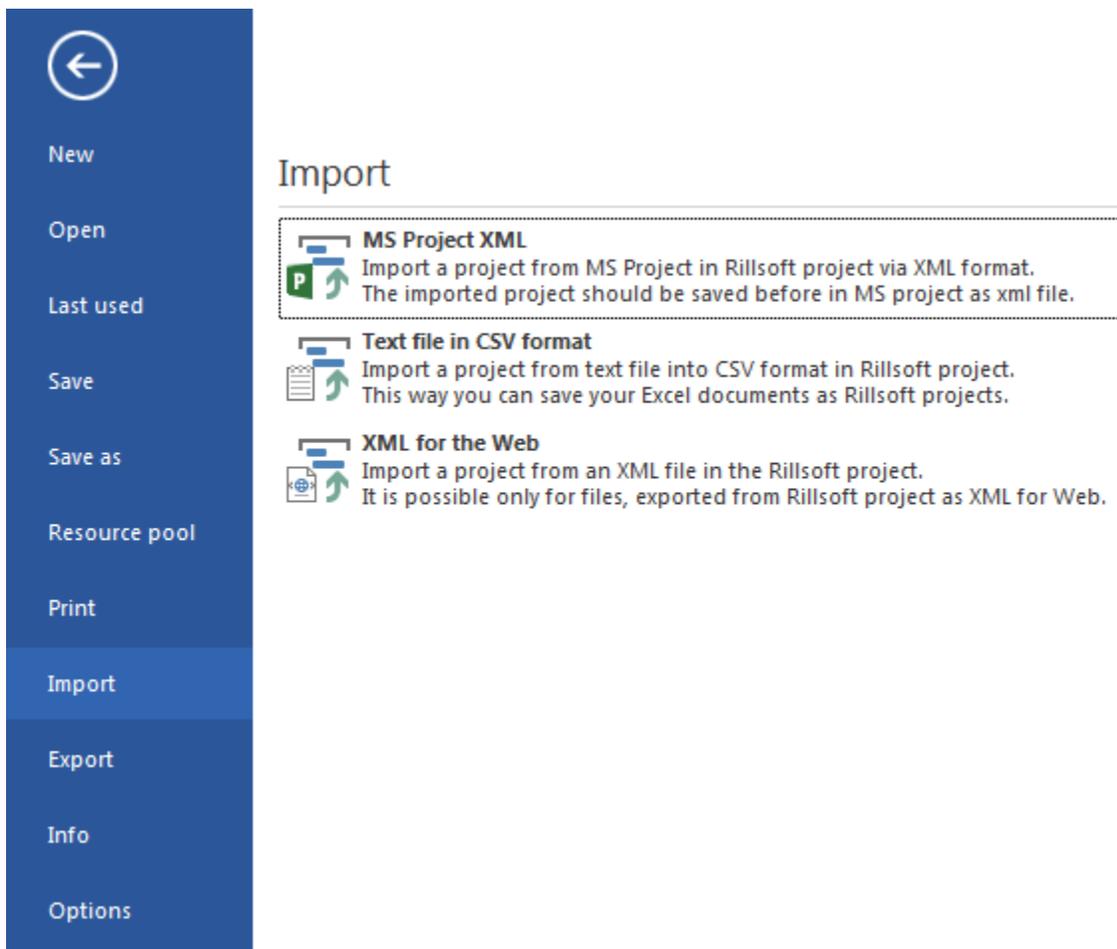


- You can create a folder for your templates by selecting the menu **File > Option > General > Default location** in the field **Templates**.

4.19 Import of projects

4.19.1 Import

In order to import a project, select the menu item **File > Import**.



- **MS Project XML** allows to import from MS Projects that used to be saved as XML files.
- **Text file in CSV format** allows to import simple scheduling data, such as project structure, name, start and end dates by means of CSV Standard.
- **XML for web** allows to import XML files that used to be saved via the menu item **File > Export**.

4.19.2 Import from MS Project XML

In order to import from MS Project XML, do as follows:

1. Save a project as XML file by means of MS Project by selecting in the MS Project software the menu item **File > Save as** and setting the file type in the appearing dialogue **File type** to **XML format (*.xml)**.
2. In Rillsoft Project select the menu item **File > Import > MS Project XML** and select the required file. Resources from the imported MS Project will be displayed and you should assign these different resource types in Rillsoft Project.

Nr.	Name	Code	Costs	Role	Team	Employee	Machine types	Machinery
9	Volunteer Team		0.00	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	Chairperson		0.00	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	Board of Directors		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	Auction Manager		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	Wine Tasting Manager		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	Publicity Manager		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	Caterer		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	Music		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	Wine Vendor		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	Printer		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	Auctioneer		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	Techie		0.00	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. Define each of the resources according to your requirements, this could be role, team, employee, machine type, machinery, by marking the corresponding check box in the column of the table.

Mark all as:

If you want to mark all resources at a time, click on the appropriate button.

- If you want to mark all resources at a time, click on the appropriate button.
- **Role** - all resources are assigned as roles.

- **Team** - all resources are assigned as teams.
- **Employee** - all resources are assigned as employees.
- **Machine type** - all resources are assigned as machine types.
- **Machinery** - all resources are assigned as machinery.

4. Click on the button **OK**.

4.19.3 Import text file CSV format

When importing from a text file Rillsoft project offers two Variants:

1. To determine a structure plan from WBS code, you define a column for WBS code in text file. That is, each row contains an operation name.
2. Breakdown structure should be determined by grouping several text columns. You can capture several operations per one row.

You can import from the text file:

- the project structure
- name of tasks
- their start dates and finish dates
- user fields (up to 20)

Sample of a text file:

Version 1 (breakdown structure is determined via WBS code):

```
WBS;Name;Start;Finish;Duration, hrs.;Effort, EH;Costs, €
1;Subproject1;25.08.2015 08:00;05.09.2015 17:00;80,00;200,00;10741,20
1.1;Task1;25.08.2015 08:00;29.08.2015 17:00;40,00;40,00;1520,00
1.2;Task2;28.08.2015 08:00;03.09.2015 17:00;40,00;80,00;3040,00
```

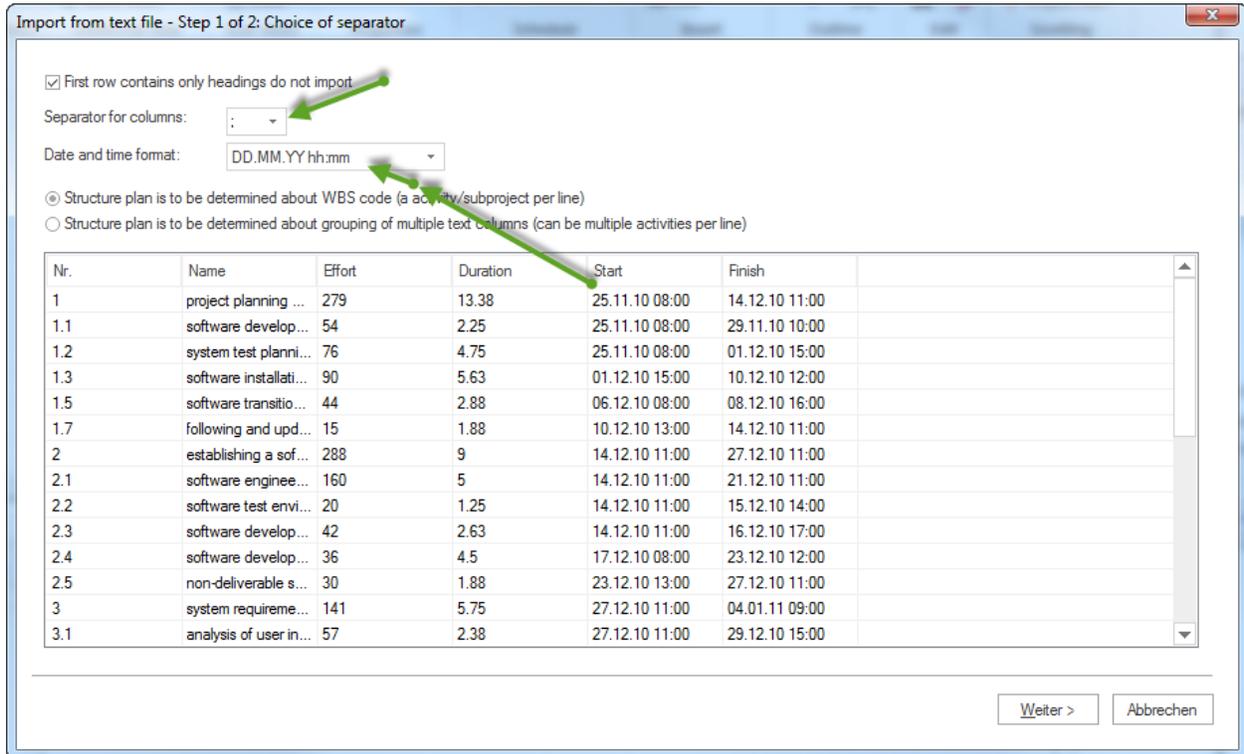
Version 2 (breakdown structure is determined by grouping several text columns):

```
Filiale;Services and miscellaneous;Pay compensation;24.01.2011 08:00;28.01.2011 16:00;
↪Task 1
Filiale;Services and miscellaneous;Pay compensation;24.01.2011 16:00;01.02.2011 15:00;
↪Task 2
Filiale;Services and miscellaneous;Pay compensation;28.01.2011 08:00;04.02.2011 17:00;
↪Task 3
Filiale;Services and miscellaneous;Reimbursement claim;24.01.2011 16:00;01.02.2011 15:00;
↪Task 7
Filiale;Services and miscellaneous;Pflegeversicherung;31.01.2011 08:00;04.02.2011 17:00;
↪Task 9
Filiale;Services and miscellaneous;Long-term care insurance;31.01.2011 08:00;04.02.2011_
↪17:00;Task 10
Filiale;Sales;Candidate declarations;28.01.2011 08:00;04.02.2011 17:00;Task 13
Service Center client;Employer service;;31.01.2011 08:00;04.02.2011 17:00;Task 16
;;24.01.2011 16:00;01.02.2011 15:00;Task 18
```

In order to import a text file as CSV file, do as follows:

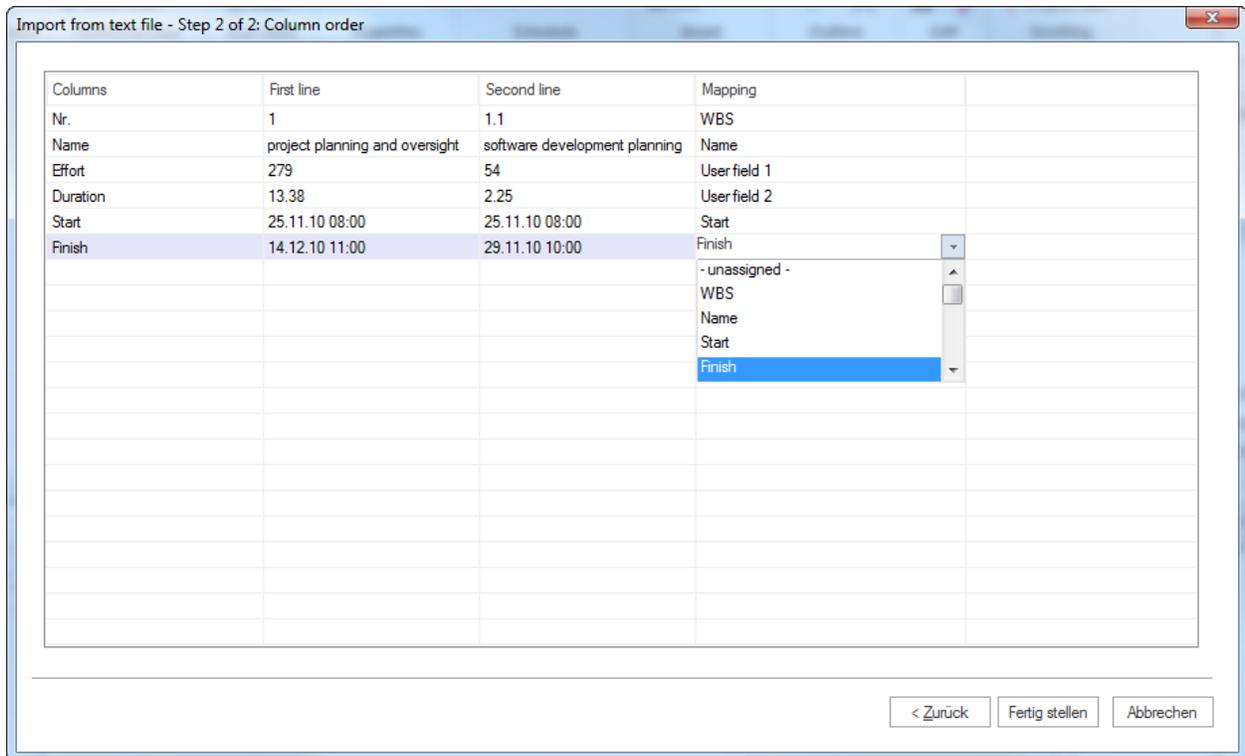
Step 1:

Select the menu item **File > Import > Text file in CSV format.**



- Activate the check box First row contains only headers, do not import if the first row should not be imported.
- In the drop down menu Separator for columns, select the separator you want to use to separate the individual elements from each other.
- In the drop down menu Date and time format, select the format you want to use for the display of date and time format in the text file.
- Select how should a structure plan be determined, that is, Variant 1 or Variant 2.
- The table lists information that can be accepted in the project.
- Click on the button Continue.

Step 2:



- In the column Assignment, select a matching name for the specific property of a product from the drop down menu.

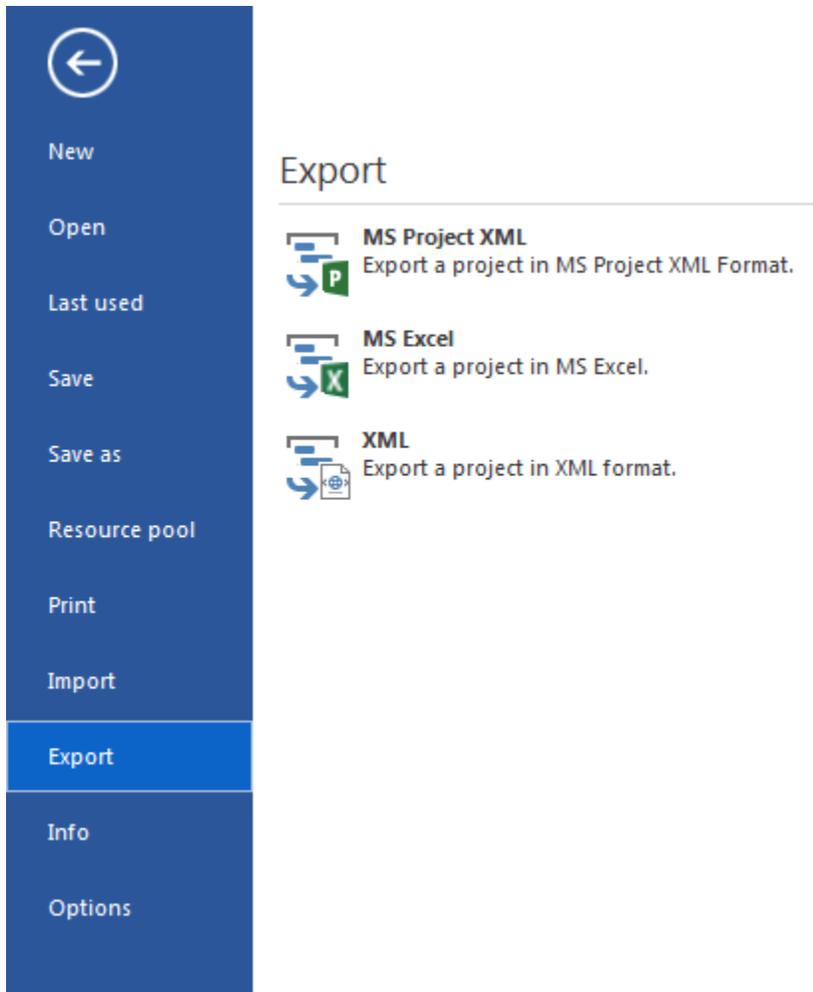
Normally, the names are connected to the values in the column Columns.

- Click on the Finish button.

4.20 Export of projects

4.20.1 Export

In order to export a project, select the menu item **File > Export**.



- **MS Project XML** allows you to export to MS Project per XML format.
- **XML for Web** allows you to export to XML files.

Export via selecting the menu item **View > View format> Data > Excel**

- **MS Excel** allows you to export to Excel files.

In Rillsoft project with interface to the Rillsoft Integration Server you can create different calendars via **Add-Ons > iCalendar >...**:

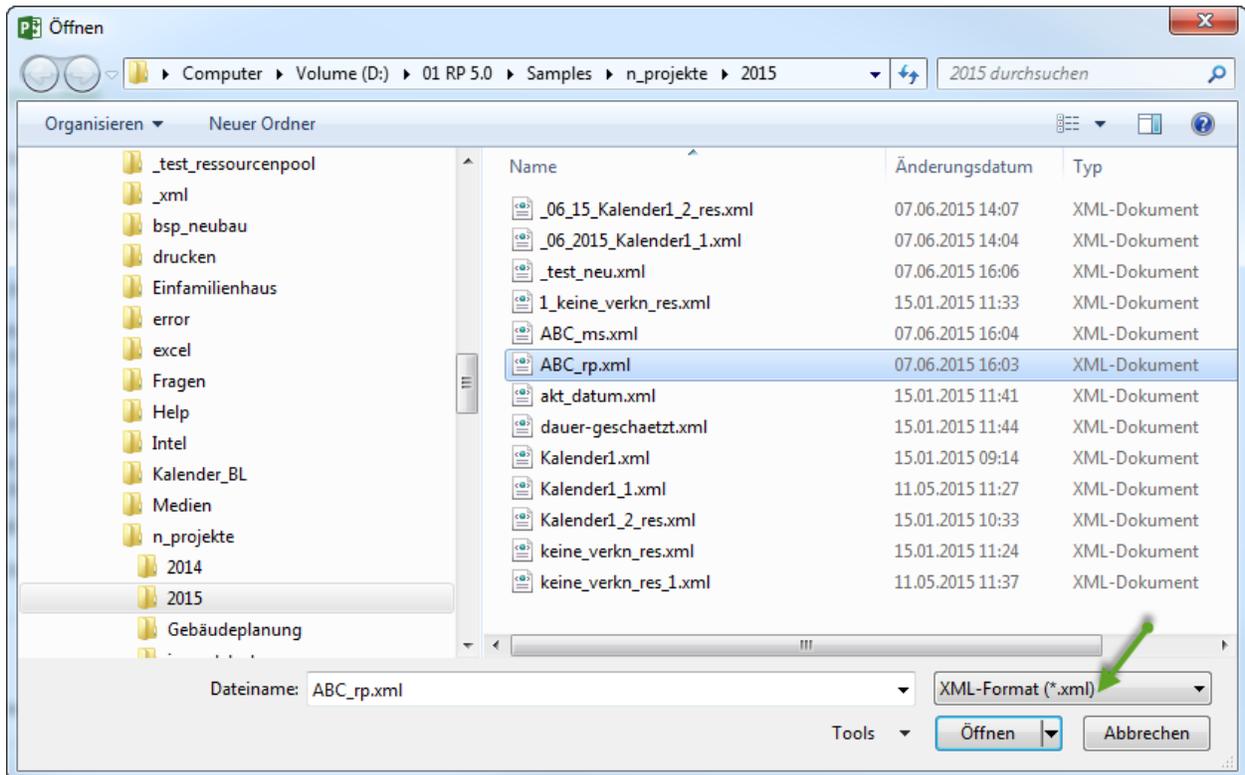
- **MS Outlook** allows you to export to MS Outlook via iCalendar format.

4.20.2 MS Project XML

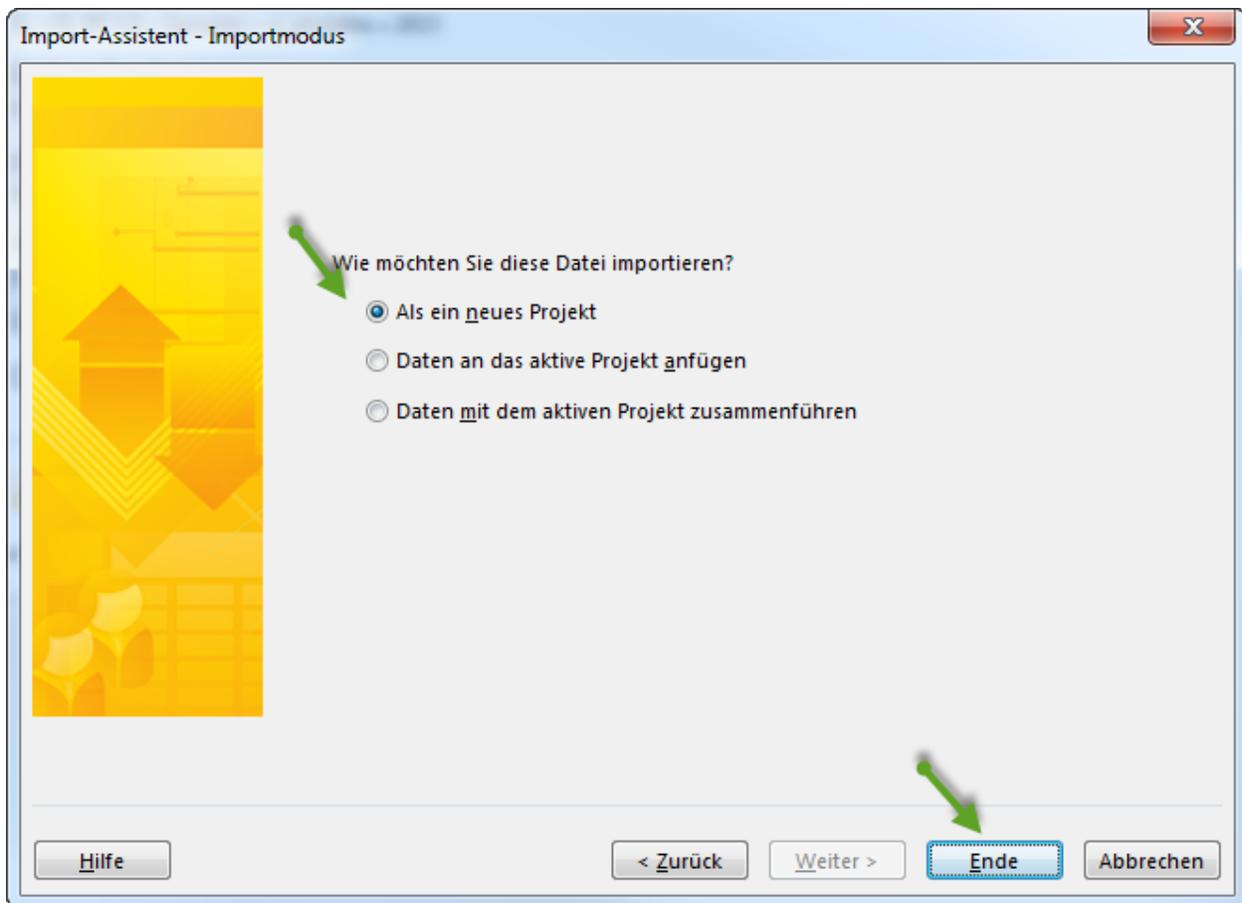
In order to export a project,

1. In **Rillsoft Project**
 - select the menu item **File > Export > MS Project XML**
 - Enter a name for the Rillsoft xml file
 - Click on the button **Save**
2. In **MS Project**

- select the menu item **Open** and select File type as **XML format (*.xml)**.



- Select your Rillsoft xml file and then click on **Open**.
- Stay with the option **As a new project** and click **Ok**.



4.20.3 Export to MS Excel

You can export the following views to the Excel:

- Activity views
 - Gantt chart
- Resource views
 - Employee
 - Role
 - Team
 - Machine types
 - Machine
 - Material requirements
- Capacity views
 - Employee
 - Machine

Tip By means of a filter you can define the exported information concerning time and resources.

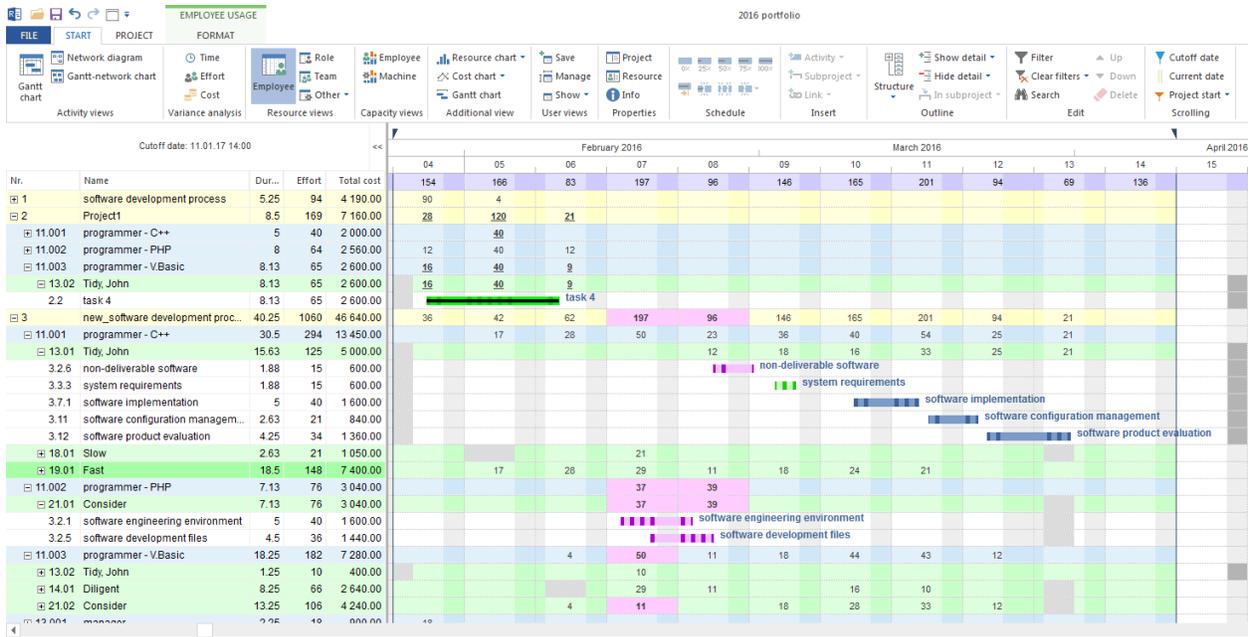
employee_portfolio.xls [Kompatibilitätsmodus] - Excel

DATEI START EINFÜGEN SEITENLAYOUT FORMELN DATEN ÜBERPRÜFEN ANSICHT

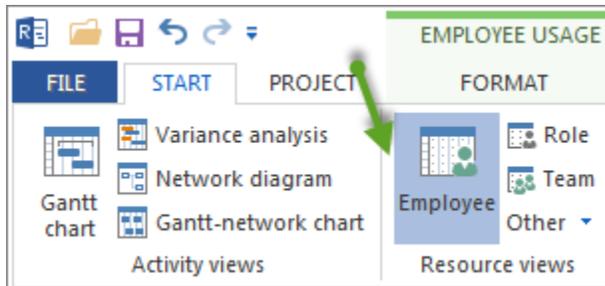
Ausschneiden Kopieren Einfügen Format übertragen Zwischenablage Schriftart Ausrichtung Zahl Bedingte Formatierung Als Tabelle Zelle formatieren

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Nr.	Name	Duration	Effort	Total cost	week 04 25.01.2016	week 05 01.02.2016	week 06 08.02.2016	week 07 15.02.2016	week 08 22.02.2016	week 09 29.02.2016	week 10 07.03.2016	week 11 14.03.2016	week 12 21.03.2016	week 13 28.03.2016	week 14 04.04.2016
1																
2			AT	Ph	€											
3	1	software development pr	5,25	94,00	4190,00	90	4									
4	2	Project1	8,50	169,00	7160,00	28	120	21								
5	11.001	programmer - C++	5,00	40,00	2000,00		40									
6	11.002	programmer - PHP	8,00	64,00	2560,00	12	40	12								
7	11.003	programmer - V.Basic	8,13	65,00	2600,00	16	40	9								
8	13.02	Tidy, John	8,13	65,00	2600,00	16	40	9								
9	2.2	task 4	8,13	65,00	2600,00	16	40	9								
10	3	new_software developme	40,25	1060,00	46640,00	36	42	62	197	96	146	165	201	94	21	
11	11.001	programmer - C++	30,50	294,00	13450,00		17	28	50	23	36	40	54	25	21	
12	13.01	Tidy, John	15,63	125,00	5000,00					12	18	16	33	25	21	
13	3.2.6	non-deliverable software	1,88	15,00	600,00					12	3					
14	3.3.3	system requirements	1,88	15,00	600,00						15					
15	3.7.1	software implementation	5,00	40,00	1600,00							16	24			
16	3.11	software configuration mana	2,63	21,00	840,00								9	12		
17	3.12	software product evaluation	4,25	34,00	1360,00									13	21	
18	18.01	Slow	2,63	21,00	1050,00				21							
19	19.01	Fast	18,50	148,00	7400,00		17	28	29	11	18	24	21			
20	11.002	programmer - PHP	7,13	76,00	3040,00					37	39					
21	21.01	Consider	7,13	76,00	3040,00					37	39					
22	3.2.1	software engineering environ	5,00	40,00	1600,00				29	11						
23	3.2.5	software development files	4,50	36,00	1440,00				8	28						
24	11.003	programmer - V.Basic	18,25	182,00	7280,00			4	50	11	18	44	43	12		
25	13.02	Tidy, John	1,25	10,00	400,00				10							
26	14.01	Diligent	8,25	66,00	2640,00				29	11		16	10			
27	21.02	Consider	13,25	106,00	4240,00			4	11		18	28	33	12		
28	13.001	manager	2,25	18,00	900,00	18										
29	14.001	designer	21,25	170,00	8500,00	18	8	15	29	11	37	24	9	19		
30	15.001	analyst	23,63	245,00	10470,00		17	15	31	12	55	41	55	19		
31	16.001	support	9,38	75,00	3000,00							16	40	19		
32	5	2016_2_soft	9,00	184,00	8800,00										48	136
33																

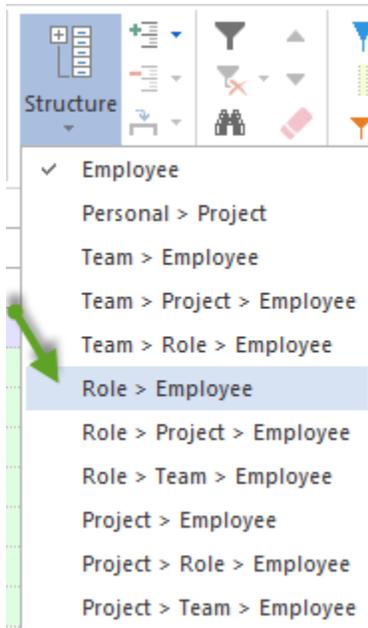
How it looks in Rillsoft Project



1. Click one of the views that you want to export to Excel. For example **Start > Resource views > Employee**



2. Structure the project information by setting **Start > Outline > Structure >...** For example **Project > Role > Employee**



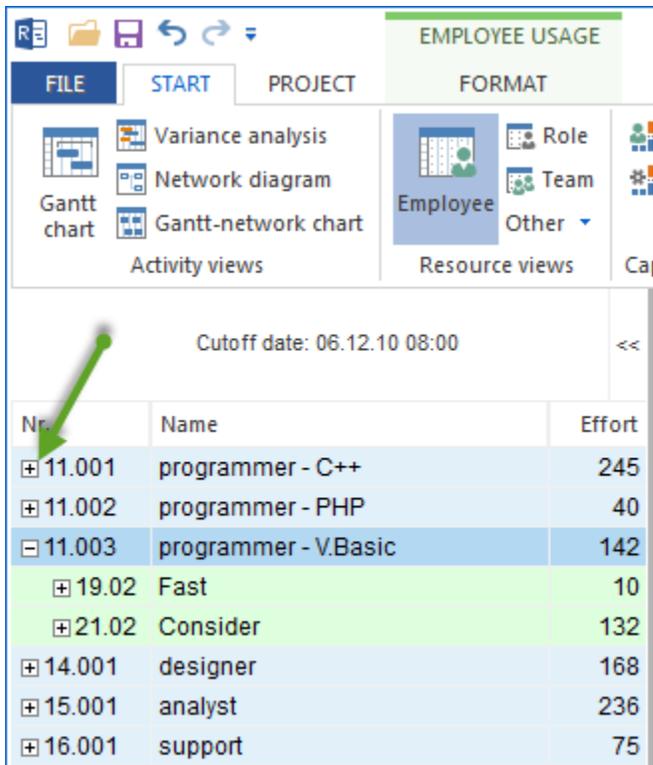
Then appears a note about the structure selection in the status bar.

STRUCTURE: Role > Employee

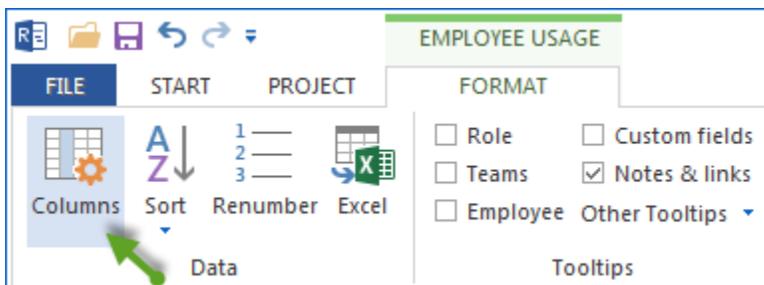
3. Define the time scale. For example **Week 1:2**



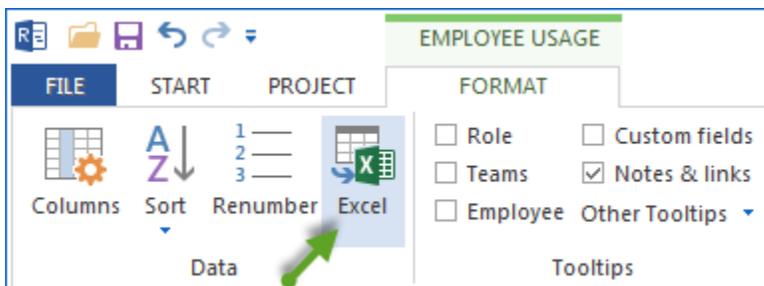
4. If necessary, you can display more details by clicking ****+****.



5. Check which columns are to be exported clicking the menu item **Resource view format > Data > Columns** and switch on/off the required columns.



6. Click **Resource view format > Data > Excel** and enter a name for the Excel file.



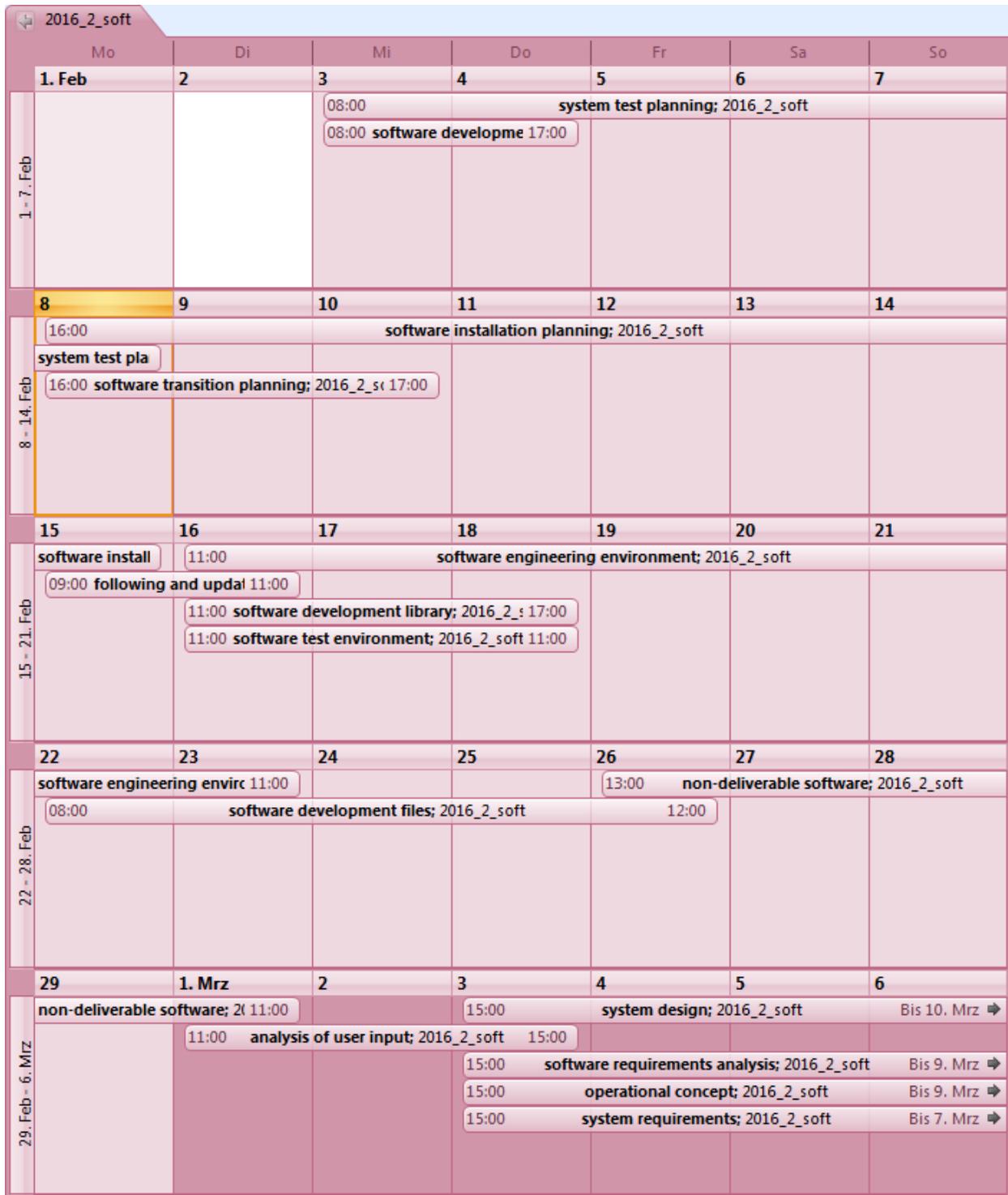
4.20.4 Export to MS Outlook

You can export the following information of the project to the MS Outlook via iCalendar:

- user task
- portfolio task
- project task

Requirements:

- Interface to the Rillsoft Integration Server
- You should have appropriate access rights.



1. Sign up in Rillsoft Integration Server by Web interface.

Logged in Rillsoft Integration Server

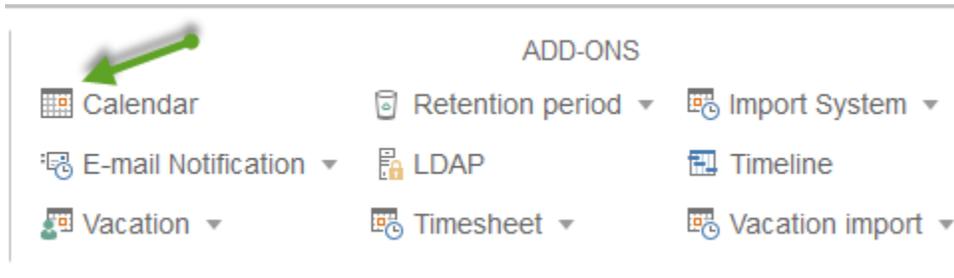
Username:

Password:

Remember me:

[Login](#)

2. Select the menu item **ADD-ONS > iCalendar**.



3. Select what information you want to display in Outlook as Calendar. For example **Project calendar**



4. Select a project from the list. For example **Maschine AAA** and click the column **Aktion** button **Calendar**.

User calendar	Calendar of subsidiaries users	Company calendar	Portfolio calendar	Project calendar
Actions	Company	Project	URL	
	EN_2016	software development...	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=1	
	EN_2016	Project1	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=3	
	EN_2016	new_software develop...	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=4	
	EN_2016	Project2	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=8	
	EN_2016	2016_2_soft	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=9	
	EN_2016	software development...	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=2	
	EN_2016	software development...	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=5	
	EN_2016	software process	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=6	
	EN_2016	test_email	http://localhost/ris6/api/icalendar/getics?api_key=fec3f6d54e1cfa72ac97229409d3c842&client_id=21&project_id=7	

RESOURCE MANAGEMENT

5.1 Create resources

5.1.1 Identify resources

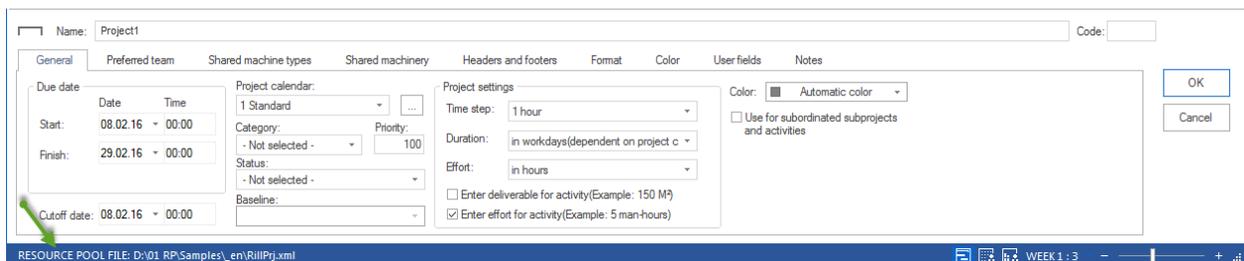
Rillsoft Project provides two types of resources:

- **Resource pool** - a total list of resources which can be allocated to project activities. Resource pools can be used for one or several projects.
- **Project resources** - resources which can be used for one project only.

Resources are: roles, teams, employees, material resources, materials and machines that can be assigned / allocated to a project for the activity execution.

Resource pool or project resources?

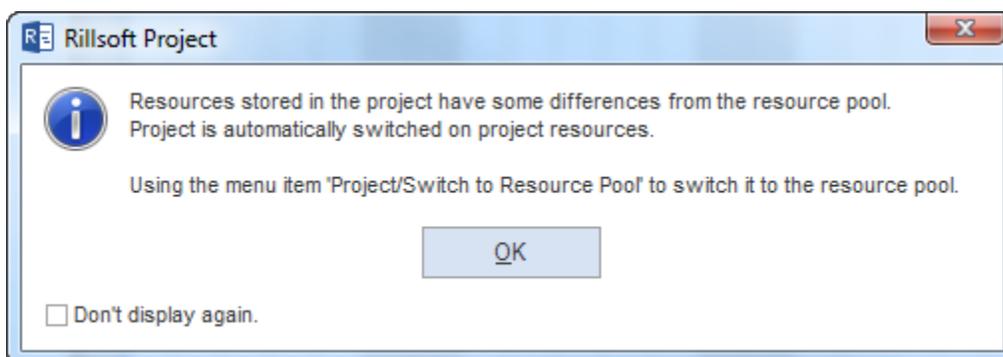
In general, if you open Rillsoft Project, the resource pool is active.



Name and path of the actual resource pool file are in the left corner of the status bar.

Caution: If you open the project and the resources used by this projects are different from the resource pool,

1. first, the message appears

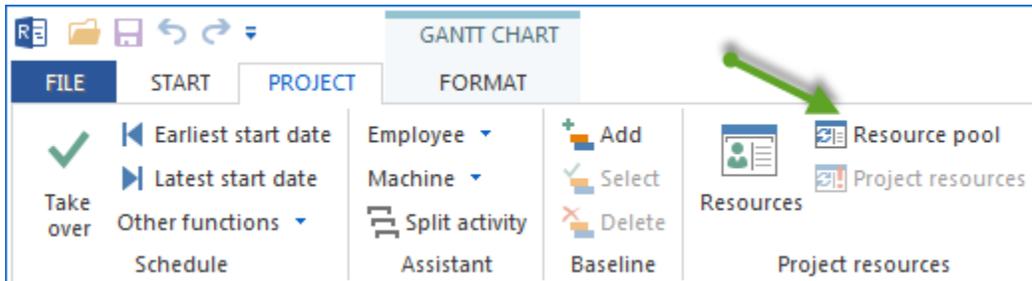


- the program switches automatically from the resource pool to the project resources.

The status bar displays project resources used in the open project.



For manual switching between resource pool and project resources, there are two commands in the menu bar:



- Project / Shift to resource pool
- Project / Shift to project resources

If, for instance, the project resources are active, the menu item **Project > Project resources > Project resources** is not available.

Shift project resources to resource pool

If the project resources match the resource pool, users do not recognize the shifting from one to the other resource. The shifting to project resources does not require the user to take any additional action. If during the shifting process to the resource pool, there are differences between project resources and resource pool, the program displays a list with the deviations. Then, you can choose between using project resources and resource pool.

Creation and adjusting resources

In order to create resources in the resource pool, select the menu item **File > Resource pool > Create**.

Rillsoft with interface to Rillsoft Integration Server

Here you should create a client in the Rillsoft Integration Server surrounding by Web browser and then click on **File > Resource pool > Rillsoft Integration Server > Select**

Here you can:

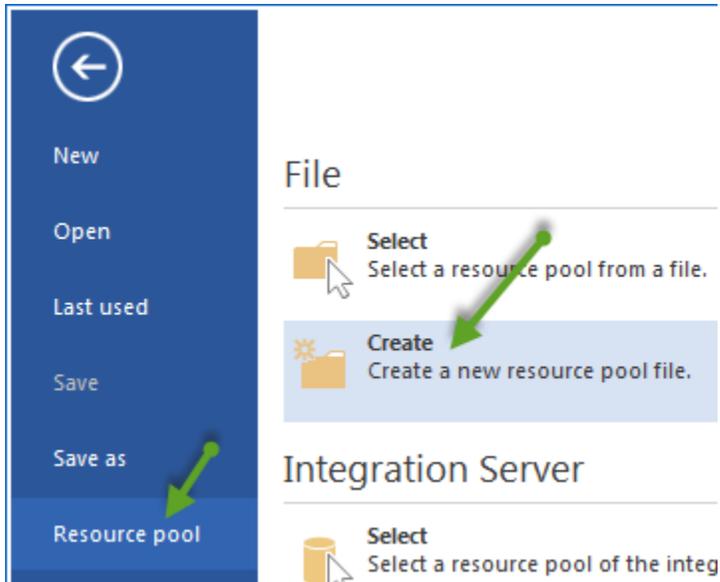
- adjust and edit existing resources
- create new resources manually
- import resources from a text file

5.1.2 Create new resource pool file

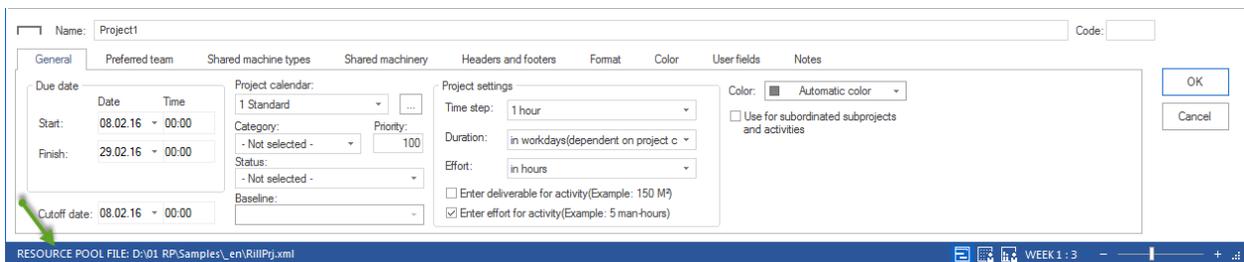
You find the resource pool in the file RillPrj.xml in the Rillsoft Project data folder. You can create a new resource pool.

Close all projects before creating a new resource pool.

- Select the menu item **File > Resource pool > File > Create**
- Enter a name for the new file *.xml in the opening dialogue window.



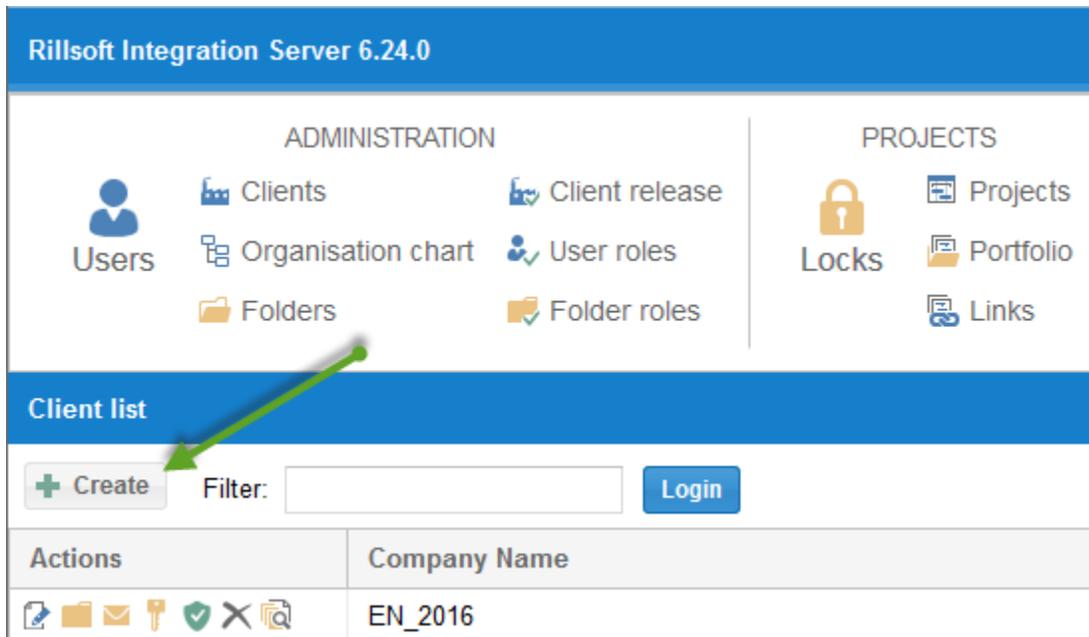
Note: The name of the actual resource pool file is shown in the left corner of the status bar. A project should then be opened.



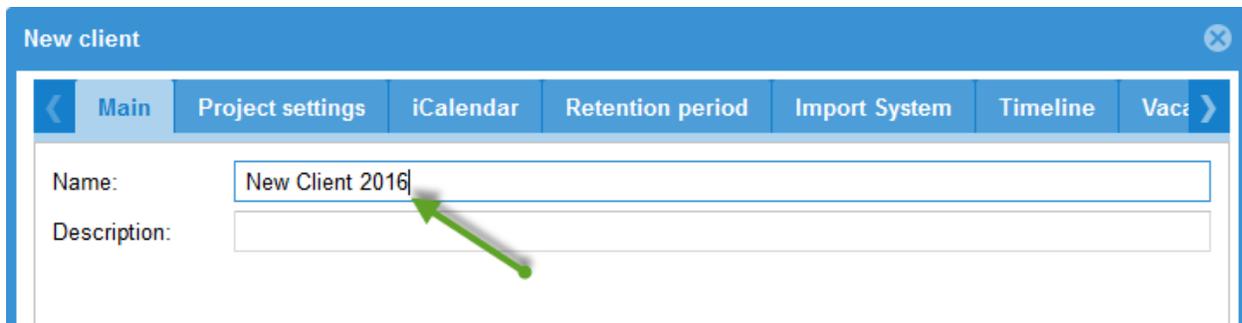
5.1.3 Create new resource pool in Rillsoft with interface to Rillsoft Integration Server

The resource pool is in data base solution in your database. You can create a new resource pool,

1. by creating a new client in Rillsoft Integration Server Web interface.

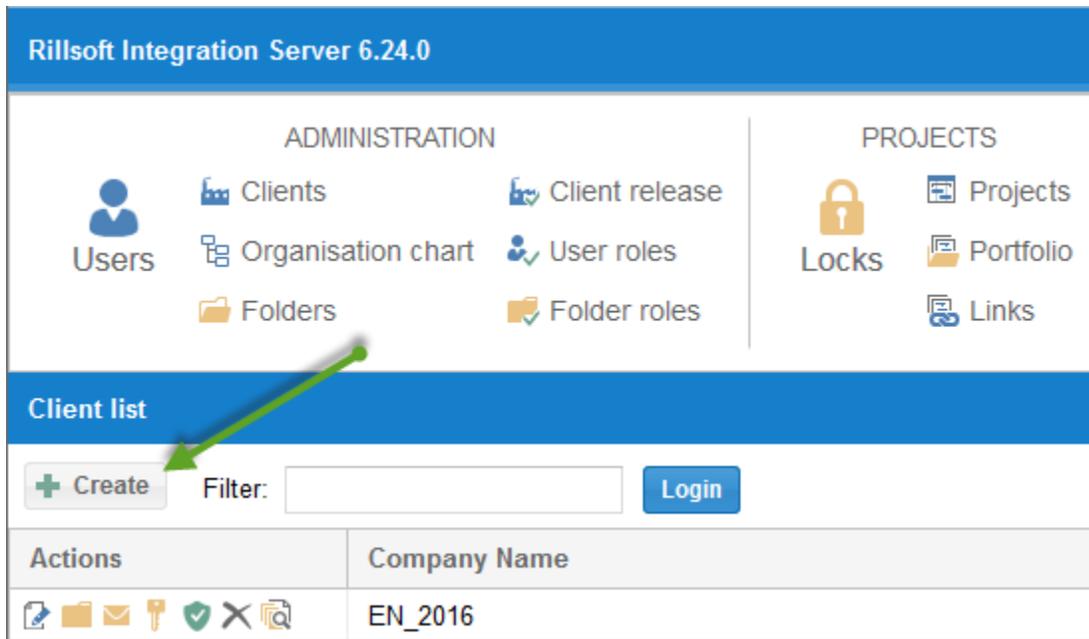


2. Enter a name for the client.

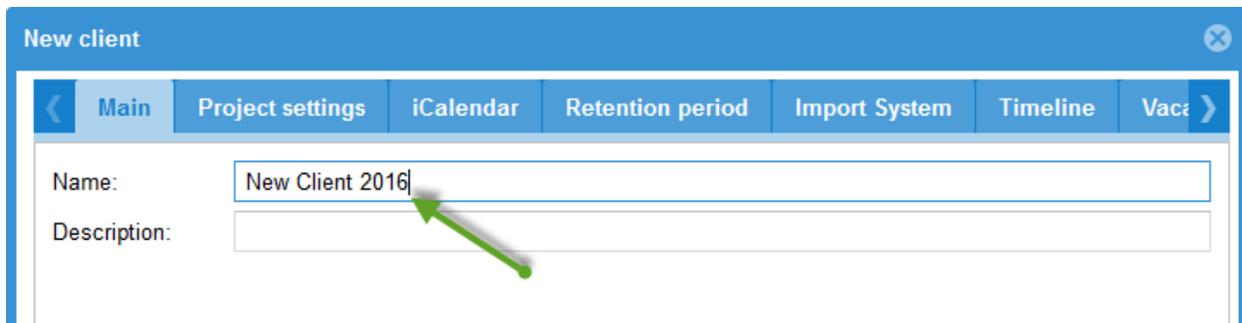


3. In Rillsoft Project click on **File > resource pool > Rillsoft Integration Server > Select**.

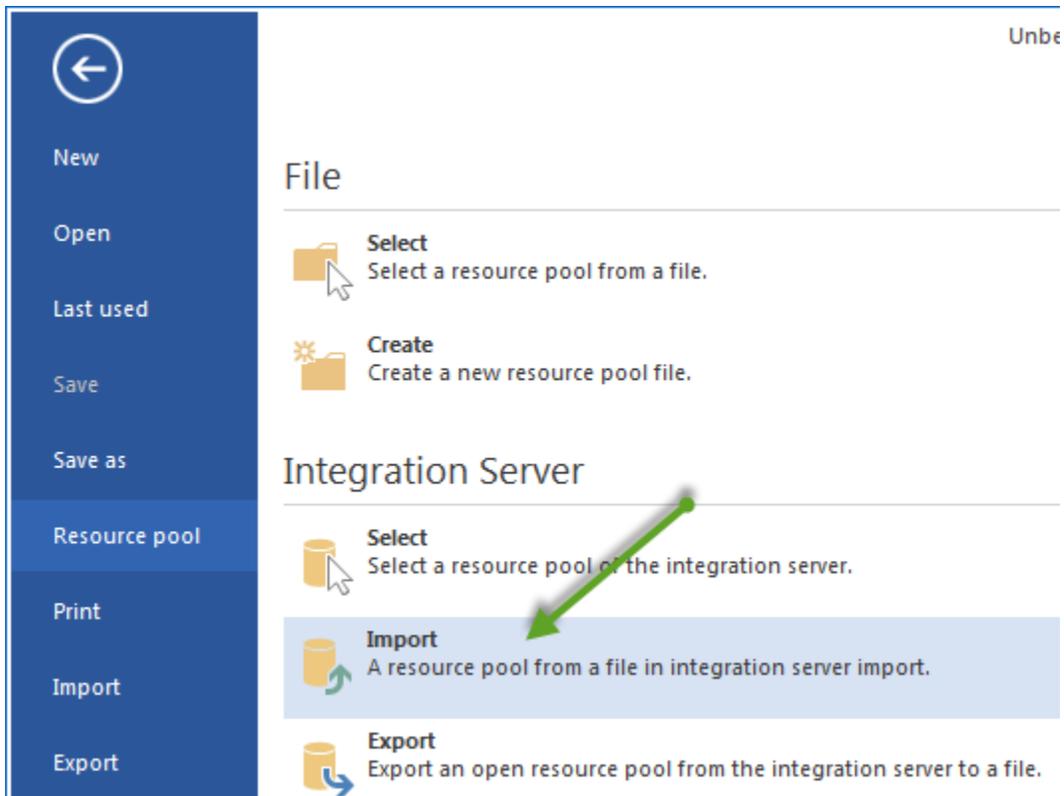
4. Select a client.



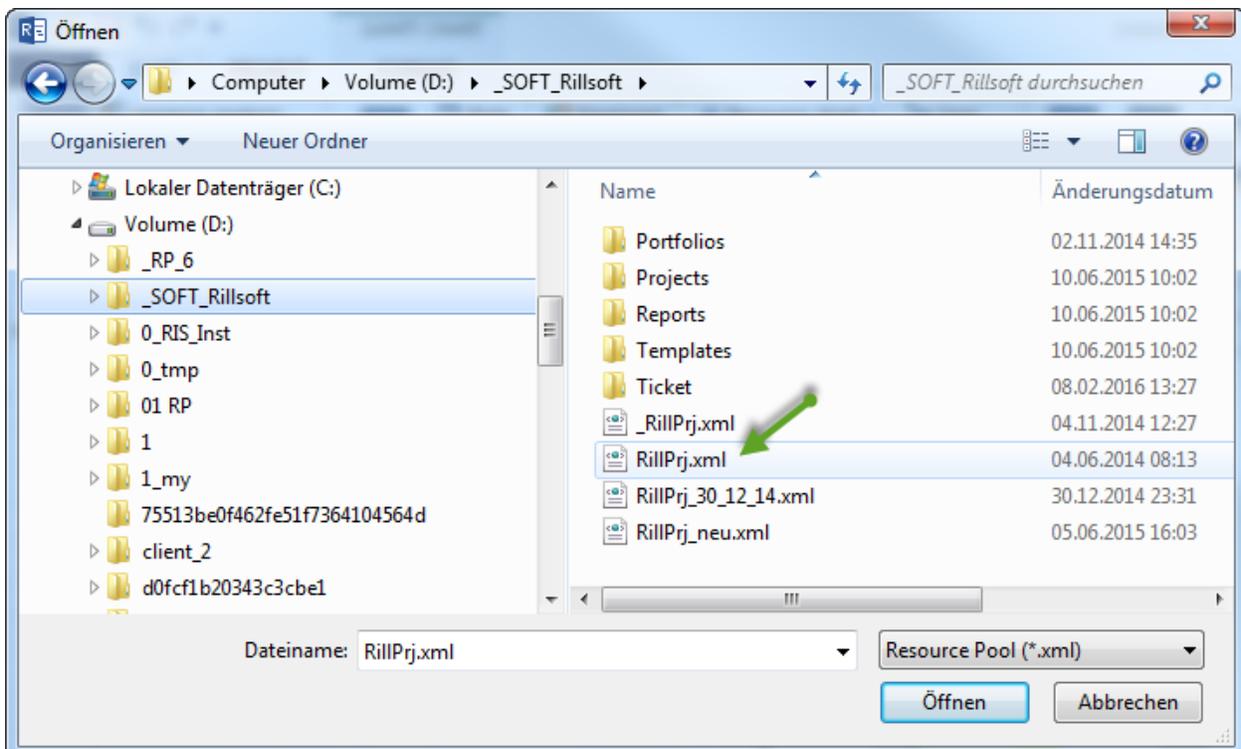
2. Enter the client name.



3. In Rillsoft Project select the menu item **File > resource pool > Rillsoft Integration Server > import an.**



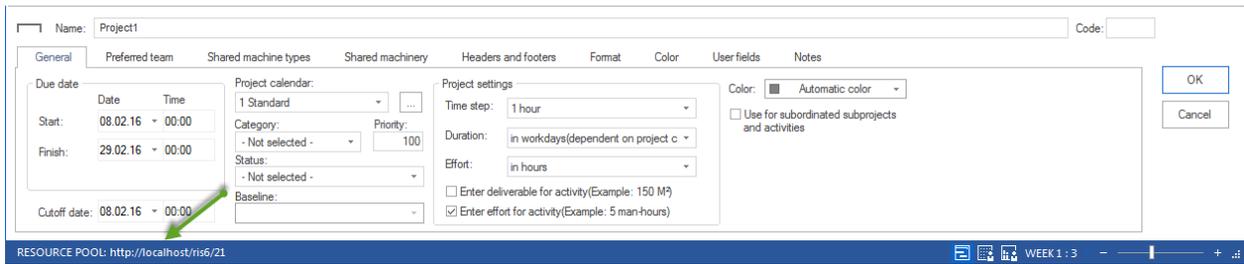
4. Select a resource pool file in the dialog.



5. Click on **Open**.

Note: The name of the actual resource pool is shown in the left corner of the status bar. A project should then be

opened.

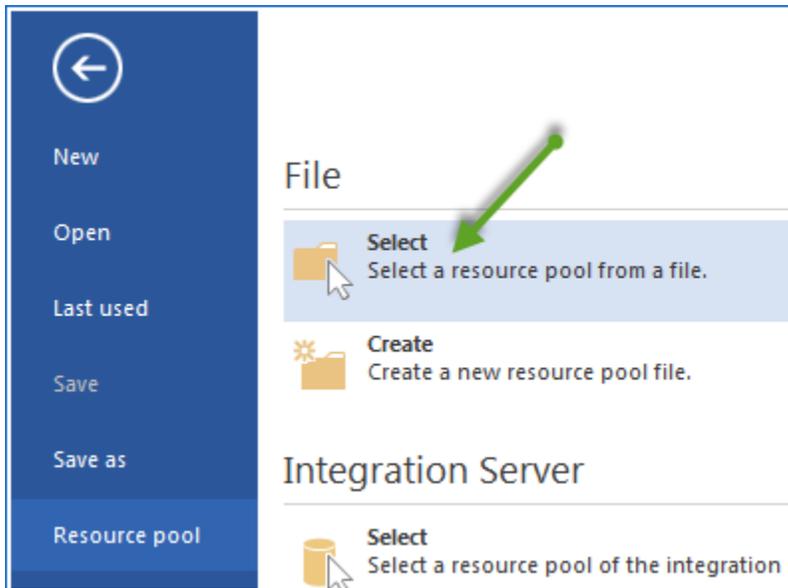


5.1.5 Select other resource pool

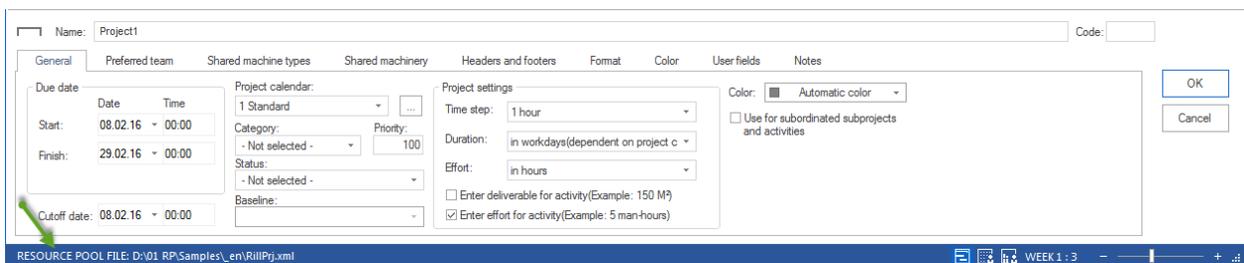
When you first start the program, you find the resource pool as RillPrj.xml-file in the Rillsoft Project data folder. You can choose another resource pool.

Close all projects before choosing another resource pool.

- Select the menu item **File > resource pool > File > Select**.
- Select the required file *.xml in the opening dialogue window.



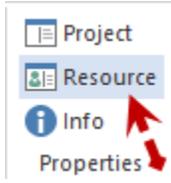
Note: The name of the actual resource pool is shown in the left corner of the status bar. A project should then be opened.



5.1.6 Set and adjust calendars

In order to set and adjust calendars, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Calendar**.

Resource pool

Calendar (6) Roles (9) Teams (4) Employee (13) Material (6) Machine type (2) Machinery (2) Project categories (3) Project status (4) Project customers (2)

New Calendar Delete Calendar Load Holidays Delete All Holidays

Nr.	Name	Code	Duration	Color	Notes
1	Standard		40		5-days- and 4...
2	all		45		5 days 45 h w...
3	24_hours		168		7 days
4	morning shift 6-14		37.5		
5	late shift 14-22		37.5		
6	night shift 22-06		37.5		

Week

Monday 08:00-12:00;13:00-17:00 8 hrs

Tuesday 08:00-12:00;13:00-17:00 8 hrs

Wednesday 08:00-12:00;13:00-17:00 8 hrs

Thursday 08:00-12:00;13:00-17:00 8 hrs

Friday 08:00-12:00;13:00-17:00 8 hrs

Saturday 0 hrs

Sunday 0 hrs

Working hours per week: 40 hrs

Intervals can be separated by using a semicolon.
Example: 08:00-12:00;13:00-17:00

Day - 30.08.24

Default

Holiday

After day...

Exemption 08:00-12:00 4 hrs

Calendar view showing months from January 2024 to December 2024. The calendar displays days of the week and dates, with some dates highlighted in red, indicating working hours or specific calendar events.

OK Abbrechen Hilfe

- In order to create a new calendar, click on the button **New calendar** or enter a calendar name in the column **Name**, which is marked with an asterisk (*).

Note: The list of calendars shows all the calendars that have been created. Mark one of the calendars to view detailed information or to make changes.

- In the field **Week** define the worktime for each of the days in a week. Intervals can be separated by using a semicolon (example: 08:00-12:00; 13:00-17:00).
- In the field **Day** define the non-working days. You can enter deviating worktimes for single days (such as Shrove Tuesday). You can also define additional workdays.
- Mark the day in the calendar view you want to change.
- Select the **Default Option**, if you want to set the changes made to a day to its default weekday definition.

- Select the **Holiday Option**, if the marked day is a holiday.
- Select the **After day... Option**, if the marked day should be subjected to the rules of another weekday. Select the corresponding weekday definition from the drop down menu.

Note: If you change the worktimes in the weekday definition, the worktime of this day will be changed accordingly.

- You can select the ****Exceptions Option**** to define an individual worktime for the marked day.

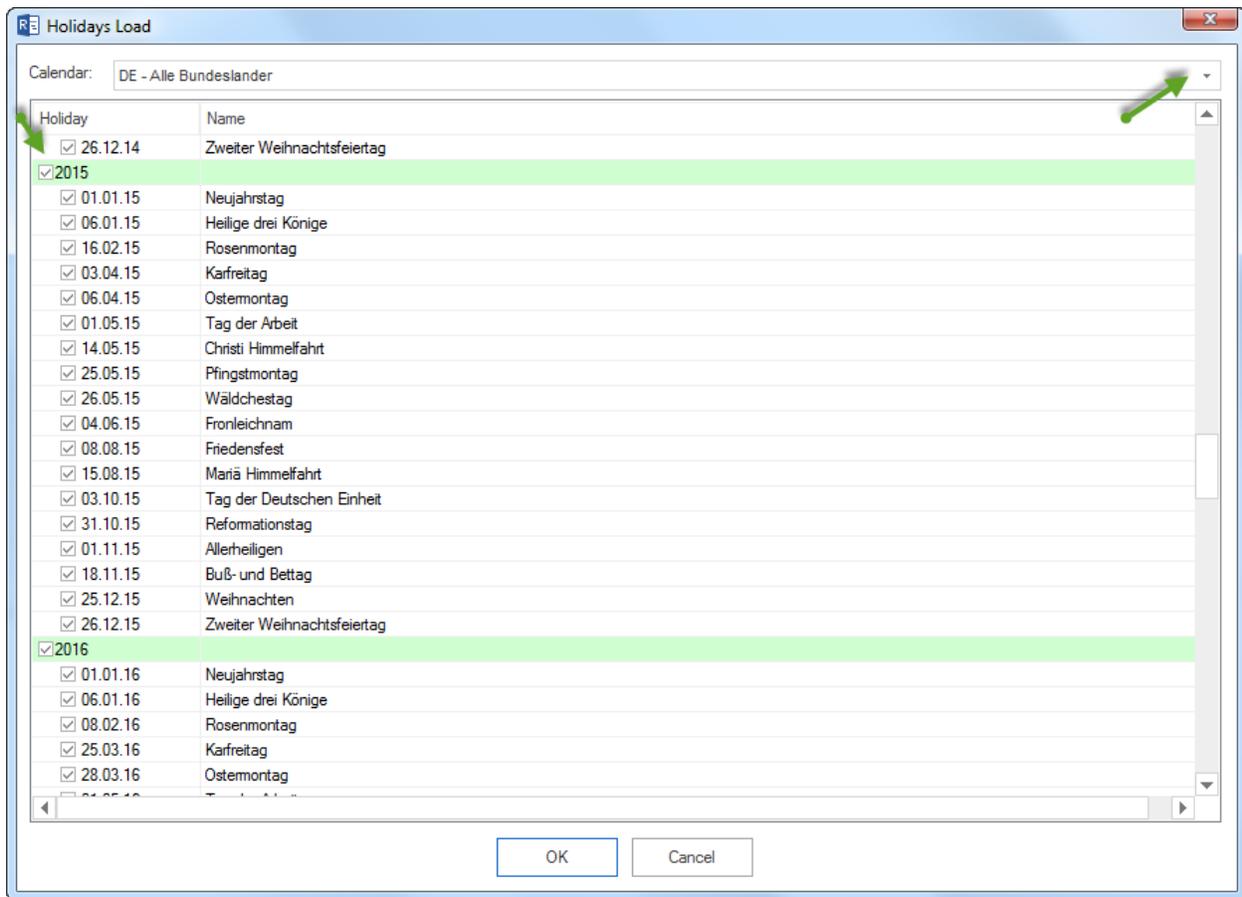
Note: Any changes to the worktime in the weekday definition has no effects on this day.

Note: In order to delete a calendar, click on the button **Delete calendar**.

- Click on the button **OK**.

Download holidays

You can download official holidays for coming years and different federal states from our server to you program. Accept these holidays by clicking on the button **Load holidays**. We recommend the following procedure:



- The dialogue window **Load holidays** appears.
- Select your calendar from the drop down menu **Calendar**, such as GER-all states.
- You can accept the holidays for the entire year by marking the check box next to the year date, such as 2015.
- Alternatively, you can mark only particular holidays and enter them in your calendar.
- Click on the button **OK**.

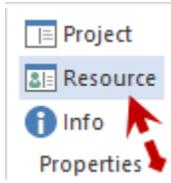
5.1.7 Set and adjust roles

Rillsoft Project allows you to define roles in a flexible way, because you can set different quality ranks with graded cost rates for roles. We recommend you to define roles in a way that allows you to manage them in groups. You should define a group for each of the roles individually (example: floor tiler, carpenter, ...)

Enter the qualification and corresponding cost rate directly in the group (example: carpenter - foreman, master, craftsman, apprentice, etc.).

In order to set and adjust roles, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Roles**.

Resource pool

Calendar (6) Roles (9) Teams (4) Employee (13) Material (6) Machine type (2) Machinery (2) Project categories (3) Project status (4) Project customers (2)

Filter: 7/9

Nr.	Role	Code	Qualification	Costs	Price adjustment	Notes
11.001	programmer		C++	50.00		
11.002	programmer		PHP	45.00		
11.003	programmer		V.Basic	50.00		
12.001	writer			30.00		
13.001	manager			60.00		
14.001	designer			60.00		
15.001	analyst			70.00		
16.001	support			50.00		

Nr.:

Role:

Code:

Qualification:

Cost: \$ per Hour

Cost adjustment: ...

Notes:

- Create a new group by clicking on the button **New group** or on the row that is marked with an asterisk (*), enter a new group name in the column **Role**.
- Enter a specific role in this group in the row (column **Qualification**).

- You can enter more qualification ranks in the empty row below in the column **Qualification**, which copies the group name automatically. **Note:** To change the role name, you need to do this in the first group row, which automatically transfers the group name to all the other saved qualification ranks.
- Enter a specific value in the column **Code** to exchange data with other applications.
- Enter the costs per hour in the field **Costs**.
- After a particular date, you can enter either a coefficient for an existing unit price or a new unit price per hour and role in the field **Cost adjustment**.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Import / export of roles

Click on the button **Export** to export a resource to a TXT file or on the button **Import** to import resources.

Import / export fields:

- [ID]
- [Role](required field)
- [Code]
- [Qualification](required field)
- [Costs]
- [Cost adjustment]
- [Notes]

The individual fields are separated by a hash key “#”.

Sample of an import file: #Stucco plasterer, plasterer##Foreman - construction#23.00##

Note:

- You can search for roles in the field **Filter**. Enter the search phrase (or a part of it) in the field.

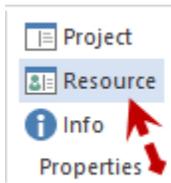
5.1.8 Set and adjust teams

The team management in Rillsoft Project is very flexible: You can define teams by means of the assigned employees or via fixed costs and capacities. We recommend you to define teams in a way that allows you to manage them in groups. You should define a group for each of the teams individually (example: Team floor tiler, Team carpenter, ...)

You enter the team name and the capacities directly in the group. (Example: Foreman - Team early shift, Team late shift.)

In order to set and adjust teams, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Teams**.

Resource pool

Calendar (6) Roles (9) **Teams (4)** Employee (13) Material (6) Machine type (2) Machinery (2) Project categories (3) Project status (4) Project customers (2)

Filter: 4/4

Nr.	Working group	Code	E-mail	Team	Calendar	Shift cal...	Non-working d...	Capacity ty...	Capacity	Costs	Price adjus...	Notes
11.001	North			Team A				Medium	3	120.00		
12.001	South							Medium	5	240.00		
13.001	East							Medium	2	90.00		
14.001	West							Medium	2	100.00		
*												

Nr.:

Working group:

Code: E-mail:

Team:

Calendar:

Shift calendar: ...

Non-working days: ...

Capacity type:

Capacity:

Cost: \$ per Hour

Cost adjustment: ...

Notes:

- Create a new group by clicking on the button **New group** or on the row that is marked with an asterisk (*), enter a new group name in the column **Working group**.
- Enter a new team type in this group in the row (column **Team**).
- You can enter more team types in the empty row below in the column **Team**, which copies the group name automatically. **Note:** To change the group name, you need to do this in the first group row, which automatically transfers the group name to all the other saved team types.
- Enter a specific value in the column **Code** to exchange data with other applications.
- From the drop down list **Calendar**, select the calendar that should apply for this team. If you have not selected a calendar, the program searches for a valid calendar in the following order : Activity calendar and project calendar.
- Enter the non-working days of the team (job trainings, workshops, etc.) in the field **Non-working days**. **Note:** (Example for a definition of non-working days: 18.03.05-22.04.05; 25.05.05; 08.06.05-17.06.05).
- Select the option according to which you want to calculate the capacity and costs of the team in the drop down menu **Capacity type**.
 - **Fixed:** For manual capacity and costs fixing in the columns Capacity and Costs. **Note:** This option is only applicable in case of the team definition by capacity and costs per hour, without assigning employees to the teams. If you combine employees with teams, we recommend you to use one of the following options.
 - **Optimistic:** The capacity and costs calculation is done on the basis of a higher level of productivity and the corresponding cost rates of each employee.

- **Real:** The capacity and costs calculation is done on the basis of the real cost rate and the corresponding productivity level of each employee.
- **Median:** The capacity and costs calculation is done on the basis of the median value from the productivity level and the cost rate of each employee.

Note: The options **Optimistic**, **Real** and **Median** provide different results only when an employee has been assigned to several roles and is recorded with these several roles as team member.

- Enter the capacity for all team members, which is calculated in dependence to the selected type of calculation in the field **Capacity type** (corresponds normally with the number of team members) in the field **Capacity**. You can change this value in the option **Fixed**.
- In the field **Costs**, enter the total cost rate for all team members, which is calculated in dependence to the selected type of calculation in the field **Capacity type**. You can change this value in the option **Fixed**.
- After a particular date, you can enter either a coefficient for an existing unit price or a new unit price per hour of the team in the field **Cost adjustment**.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Import / export of teams

Click on the button **Export** to export a resource to a TXT file or on the button **Import** to import resources.

Import / export fields:

- [ID]
- [Working group](required field)
- [Code]
- [Team](required field)
- [Calendar]
- [Non-working days]
- [Capacity type]
- [Capacity]
- [Costs]
- [Cost adjustment]
- [Notes]

The individual fields are separated by a hash key “#”.

Sample of an import file:

```
#Underground construction###Team underground construction#####
```

Note:

- You can search for teams in the field **Filter**. Enter the search phrase (or a part of it) in the field.

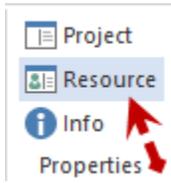
5.1.9 Set and adjust employees

The employee management in Rillsoft Project is very flexible. You can assign several different roles, team memberships, costs and productivity to employees.

Note: We recommend you to create teams before you define employees.

In order to set and adjust employees, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Employees**.

Resource pool

Calendar (6) Roles (9) Teams (4) **Employee (13)** Material (6) Machine type (2) Machinery (2) Project categories (3) Project status (4) Project customers (2)

Filter: 13/22

Nr.	First name	Last name	Code	E-mail	Calendar	Begin	End	Shift cal...	Non-worki...	Working g...	Role - qualificat...	Productivity	Costs	Price adj...	Notes
12.01	Red	Supeman		supema...	2 all 45-h...				04.01.16-0...	12.001 So...	13.001 manager	100	50.00		
13.01	John	Tidy		td@gma...					04.01.16-0...	11.001 No...	11.001 progra...	100	40.00		
13.02	John	Tidy		td@gma...					04.01.16-0...	11.001 No...	11.003 progra...	100	40.00		
14.01	Bill	Diligent		dlg@gm...				05.02.21...	07.01.16-0...	13.001 East	11.003 progra...	100	40.00		
14.02	Bill	Diligent		dlg@gm...					07.01.16-0...	13.001 East	11.002 progra...	100	40.00		
15.01		Goeslike		goeslike...					04.01.16-0...	12.001 So...	16.001 support	100	40.00		
15.02		Goeslike		goeslike...					04.01.16-0...	12.001 So...	12.001 writer	100	40.00		
16.01		Sleeper		slp@gm...					04.01.16-0...	14.001 W...	11.001 progra...	100	50.00		

Nr.:

Firstname: Lastname:

Code: E-mail:

Calendar: Begin: End:

Shift calendar:

Non-working days:

Working group - Team:

Role - Qualification:

Productivity: %

Cost: \$ per Hour

Cost adjustment:

Notes:

- Create a new group or a new employee by clicking on the button **New group** or on the row that is marked with an asterisk (*), enter a new employee name in the column **Name**.
- Enter the property of an employee (a new role or team membership) in this group in the row (columns **Working group – team** and **Role - qualification**). You can enter additional properties of the employee directly in the empty row below the column **Working group - team** and **Role - qualification**, while the group description is

automatically copied. **Note:** In order to change the group name, at first you need to do this in the first group row, which automatically transfers the group name to all the other saved material types.

- Enter a specific value in the column **Code** to exchange data with other applications.
- Enter an Email address of the employee in the column **Email**.
- From the drop down list **Calendar** select the calendar that should be applied for this employee. If you have not selected a calendar, the program searches for a valid calendar in the following order: Team calendar, Activity calendar and Project calendar.
- Enter the date the employee has entered the company in the field **Entry**.
- Enter the date the employee has left the company in the field **Leaving**.

The screenshot shows the 'Resource pool' window with a table of employee data. A calendar selection popup is open over the 'Shift calendar' column for row 13.01. The popup shows the month of März 2024 with the date 19 selected. Red arrows and text annotations indicate the steps: '1. click on' pointing to the 'Shift calendar' column and '2. select date' pointing to the date 19 in the calendar popup.

Nr.	First name	Last name	Code	E-mail	Calendar	Begin	End	Shift cal...	Non-work...	Working ...	Role - qualificat...	Productivity	Costs	Price adj...	Notes
12.01	Red	Superman		superma...	2 all 45h...				04.01.16-0...	12.001 S...	13.001 manager	100	50.00		
13.01	John	Tidy		td@gma...		19.03.24	28.07.23		04.01.16-0...	11.001 ...	11.001 progra...	100	40.00		
13.02	John	Tidy		td@gma...					04.01.16-0...	11.001 ...	11.003 progra...	100	40.00		
14.01	Bill	Diligent		dlg@gm...					7.01.16-0...	13.001 E...	11.003 progra...	100	40.00		
14.02	Bill	Diligent		dlg@gm...					7.01.16-0...	13.001 E...	11.002 progra...	100	40.00		

- Click in the **Shift calendar** field if an employee is to work at different times according to different calendars. First select a time period for a work calendar by holding down the left mouse button. Then select a desired calendar for this time. The prerequisite is that the calendars to be selected should have been created in the resource pool on the **Calendar** tab.

Employee: 14.01 Diligent, Bill

Period	Duration	Calendar
05.02.24-29.02.24	25	4 morning shift 6-14 37.5-hour work week
08.04.24-26.04.24	19	5 late shift 14-22 37.5-hour work week
13.05.24-17.05.24	5	6 night shift 22-06 37.5-hour work week
		2 all 45-hour work week
		3 24_hours 168-hour work week
		4 morning shift 6-14 37.5-hour work week
		5 late shift 14-22 37.5-hour work week
		6 night shift 22-06 37.5-hour work week

1. define a time period

2. select a calendar

Create automatically OK Cancel Help

- Enter the non-working days of the employee (job trainings, workshops, etc.) in the field **Non-working days**. Note: The entered non-working days will be added to those defined in the team. (Example for a definition of non-working days: 18.03.05-22.04.05; 25.05.05; 08.06.05-17.06.05).
- Select the team which you want the employee to be assigned to in the drop down list **Working group - team**.

Employee: 14.01 Diligent, Bill

Filter: 4

Nr.	Working group	Code	Team	Costs
<input type="checkbox"/> 11.001	North		Team A	120.00
<input type="checkbox"/> 12.001	South		Team A	240.00
<input checked="" type="checkbox"/> 13.001	East		Team A	90.00
<input type="checkbox"/> 14.001	West		Team A	100.00

Select the role which you want to assign to the employee in the drop down list **Role - qualification**.

Employee: 14.01 Diligent, Bill

Filter: 9

Nr.	Name	Code	Qualification	Costs
<input type="checkbox"/> 11.001	programmer		C++	50.00
<input type="checkbox"/> 11.002	programmer		PHP	45.00
<input checked="" type="checkbox"/> 11.003	programmer		V.Basic	50.00
<input type="checkbox"/> 12.001	writer			30.00
<input type="checkbox"/> 13.001	manager			60.00
<input type="checkbox"/> 14.001	designer			60.00
<input type="checkbox"/> 15.001	analyst			70.00
<input type="checkbox"/> 16.001	support			50.00
<input type="checkbox"/> 17.001	tester			60.00

- Enter a different value for the calculated productivity of an employee in percent in the field **Productivity**.
- Enter a different value for the calculated hourly rate of an employee (for instance, from the role definition) in the field **Costs**.
- After a particular date, you can enter either a coefficient for an existing unit price or a new unit price per hour of the employee in the field **Cost adjustment**.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Assign additional roles, teams, costs and productivity to an employee

If you want to assign a different role along with its different cost rate to an employee, do as follows:

- Enter the different value in the row of the employee directly below (no asterisk) in the corresponding column.
Caution: Make sure not to define this employee in another row, which features an asterisk, because this may cause inconsistencies within the project.

Import / export of employees

Click on the button **Export** to export a resource to a TXT file or on the button **Import** to import resources.

Import / export fields:

- [ID]
- [First Name]
- [Last Name](required field)
- [Code]
- [Email]
- [Calendar]
- [Entry date]
- [Leaving date]
- [Non-working days]
- [Team]
- [Role]
- [Productivity]

- [Costs]
- [Cost adjustment]
- [Notes]

The individual fields are separated by a hash key “#”.

The number you want to import from “#” symbols in imported txt file must always be 14. If more or less “#” symbols are registered, you will get an error message

Example of an import file (only employee names and the corresponding hourly rates are imported):

```
#MA-1#N-MA-1#1000001#MA1.NMA1@musterfirma.com#####11.001 Team 1#11.001 Role 1####
```

oder

```
#MA-1#N-MA-1#1000001#MA1.NMA1@musterfirma.com#####
```

Note:

- You can search for employees in the field **Filter**. Enter the search phrase (or a part of it) in the field.

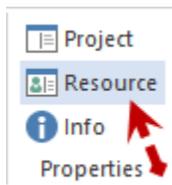
5.1.10 Set and adjust materials

We recommend you to define materials (consumables) in a way that allows you to manage them in groups. You may define a group for each of the materials (for instance: group gravels...).

Manufacturer, type of material, measurement unit and costs are then entered in the group. (Example: gravel - grit, ballast, etc.)

In order to set and adjust materials, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Material**.

Resource pool

Calendar (6) Roles (9) Teams (4) Employee (13) **Material (6)** Machine type (2) Machinery (2) Project categories (3) Project status (4) Project customers (2)

Filter: 2/6

Nr.	Material group	Code	Material type	Unit	Unit price	Price adjustment	Notes
12.001	Metals		Steel	100 kg	156.00		
12.002	Metals		Stainless steel	100 kg	267.00		
12.003	Metals		Spring steel	50 kg	170.00		
13.001	Non-ferrous metals		Aluminium	1 kg	20.00		
13.002	Non-ferrous metals		Copper	10 kg	150.00		
13.003	Non-ferrous metals		Brass	10 kg	170.00		
*							

Nr.:

Material group:

Code:

Material type:

Unit:

Unit cost: \$

Cost adjustment: ...

Notes:

- Create a new group by clicking on the button **New group** or on the row that is marked with an asterisk (*), enter a new group name in the column **Material group**.
- Enter a new material type in this group in the row (column **Material type**). You can enter more material types in the empty row directly below in the column Description, which copies the group name automatically.

Note: To change the group name, at first, you need to do this in the first group row, which automatically transfers the group name to all the other saved material types.

- Enter a specific value in the column **Code** to exchange data with other applications.
- Enter the description / manufacturer, etc. of the material type in the field **Material type**.
- Enter the measurement unit of the material type (example: tons, square metres, piece, etc.) in the field **Measurement unit**.
- Enter the costs per measurement unit in the field **Unit price**.
- After a particular date you can enter either a coefficient for an existing unit price or a new unit price per measurement unit of the material in the field **Price adjustment**.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Import / export of materials

Click on the button **Export** to export a resource to a TXT file or on the button **Import** to import resources.

Import / export fields:

- [ID]
- [Material group](required field)

- [Code]
- [Material type](required field)
- [Measurement unit]
- [Unit price]
- [Price adjustment]
- [Notes]

The individual fields are separated by a hash key “#”.

Sample of an import file: #Building construction - Ready-mixed concrete##Ready-mixed concrete BI: B 5 KS 0/32
HOZ 35L#m3#122.00##

Note:

- You can search for material groups, material types or the material code in the field **Filter**. Enter the search phrase (or a part of it) in the field.

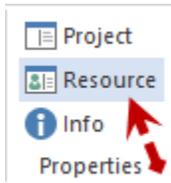
5.1.11 Set and adjust machine types

We recommend you to define machine types in a way that allows you to manage them in groups. You may define a group for each of the machine types (for instance: lifting davits, tower cranes ...).

Manufacturer and machine or device type are then defined within the group (Example: Lifting davits - Lifting davit type 10 to, Lifting davit type 100 to, etc.)

In order to set and adjust machines,do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Machine types**.

Resource pool X

Calendar (6) Roles (9) Teams (4) Employee (13) Material (6) **Machine type (2)** Machinery (2) Project categories (3) Project status (4) Project customers (2)

Filter: 2/2

Nr.	Machine groups	Code	Machine type	Unit	Unit price	Price adjustment	Notes
12.001	Rotate machine				85.00		
13.001	Milling machine				90.00		
*							

Nr.:

Machine group:

Code:

Machine type:

Unit:

Unit cost: \$ per Hour

Cost adjustment: ...

Notes:

- Create a new group by clicking on the button **New group** or on the row that is marked with an asterisk (*), enter a new group name in the column **Machine group**.
- Enter a new machine type in this group in the row (column **Description**). You can enter more machine types in the empty row below in the column machine type, which copies the group name automatically. **Note:** To change the group name, at first, you need to do this in the first group row, which automatically transfers the group name to all the other saved machine types.
- Enter a specific value in the column **Code** to exchange data with other applications.
- Enter the description / manufacturer, etc. of the machine type in the field **Machine type**.
- Enter the measurement unit of the tool or machine type (example: piece, etc.) in the field **Measurement unit**.
- Enter the costs per hour of the machine type in the field **Unit price**.
- After a particular date you can enter either a coefficient for an existing unit price or a new unit price per hour and machine type in the field **Price adjustment**.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Import / export of machine types

Click on the button **Export** to export a resource to a TXT file or on the button **Import** to import resources.

Import / export fields:

- [ID]
- [Machine group](required field)

- [Code]
- [Machine type](required field)
- [Measurement unit]
- [Unit price]
- [Price adjustment]
- [Notes]

The individual fields are separated by a hash key “#”.

Sample of an import file:

```
#Construction machines - Dredgers##Demolition dredges - Caterpillar#Pcs.#32.00##
```

Note:

- You can search for machine groups, machine types or the machine type code in the field **Filter**. Enter the search phrase (or a part of it) in the field.

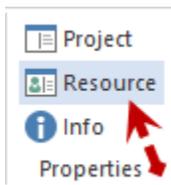
5.1.12 Set and adjust machinery

The machinery management in Rillsoft Project is very flexible. You can allocate a machine to machine types and to unit prices or to price adjustments.

Manufacturer and machine or device type are then defined within the group. (Example: Lifting davits - Lifting davit type 10 to, Lifting davit type 100 to, etc.

In order to set and adjust machinery, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Machinery**.

- [Machine group - machine type](required field)
- [Measurement unit]
- [Unit price]
- [Price adjustment]
- [Notes]

The individual fields are separated by a hash key “#”.

Sample of an import file: #Construction machines - Dredgers##Demolition dredges - Caterpillar#Pcs.#32.00##

Note:

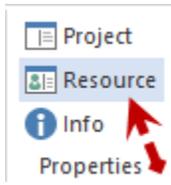
- You can search for machine names, machine types or the machine code in the field **Filter**. Enter the search phrase (or a part of it) in the field.

5.1.13 Set and adjust project categories

Rillsoft Project allows you to summarize project categories in Groups in a flexible way.

In order to set and adjust project categories, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Project categories**.

Resource pool ×

Calendar (6) Roles (9) Teams (4) Employee (13) Material (6) Machine type (2) Machinery (2) **Project categories (3)** Project status (4) Project customers (2)

Filter:

Nr.	Group	Code	Name	Notes
11.01	Strategic			
12.01	Operational			
13.01	Tactical			
*				

Nr.:

Group:

Code:

Name:

Notes:

- **Create a new group by clicking on the button New group or on the row that is marked with an asterisk (*), enter a new group name in the column **Group**.**
- **Enter a specific project categories in this group in the row (column **Name**).**
- **You can enter more category ranks in the empty row directly below in the column **Name**, which copies the group name automatically. **Note:** To change the category name, you need to do this in the first group row, which automatically transfers the group name to all the other saved category ranks.**
- **Enter a specific value in the column **Code** to exchange data with other applications.**
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Note:

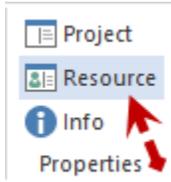
- You can search for project categories in the field **Filter**. Enter the search phrase (or a part of it) in the field.

5.1.14 Set and adjust project status

Rillsoft Project allows you to summarize the project status in groups in a flexible way.

In order to set and adjust the project status, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Project status**.

Resource pool

Calendar (6) Roles (9) Teams (4) Employee (13) Material (6) Machine type (2) Machinery (2) Project categories (3) **Project status (4)** Project customers (2)

Filter: 4/4

Nr.	Group	Code	Name	Notes
11.01	in work			
12.01	in planning			
13.01	completed			
14.01	rejected			
*				

Nr.:

Group:

Code:

Name:

Notes:

- **Create a new group by clicking on the button New group or on the row that is marked with an asterisk (*), enter a new group name in the column Group.**
- **Enter a specific project status in this group in the row (column Name).**
- **You can enter more status ranks in the empty row directly below in the column Name, which copies the group name automatically. Note:** To change the status name, you need to do this in the first group row, which automatically transfers the group name to all the other saved status ranks.

- Enter a specific value in the column **Code** to exchange data with other applications.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Note:

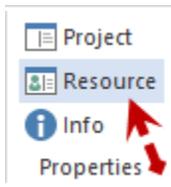
- You can search for the project status in the field **Filter**. Enter the search phrase (or a part of it) in the field.

5.1.15 Set and adjust project customers

Rillsoft Project allows you to summarize project customers in Groups in a flexible way.

In order to set and adjust project customers, do as follows:

- Select the menu item **Start > Properties > Resource**.



The dialogue box **Resource pool** opens.

- Select the tab **Project customers**.

Resource pool

Calendar (3) Roles (8) Teams (4) Employee (10) Material (6) Machine type (2) Machinery (2) Project categories (3) Project status (4) **Project customers (1)**

Filter: 0/0

Nr.	Name	Code	Website	Street	Postcode	City	State	Country	Contact ...	E-mail	Phone	Notes
11.01	Mechanical Engineering Preci...		www.sa...	Sample s...	11246	Sample ...		Great Bri...	Mr. Riech	m.tech...	1126343	

Nr.:

Name:

Code: Website:

Street: Postcode: City:

State: Country:

Contact person: E-mail: Phone:

Notes:

- **Create a new group by clicking on the button New group or on the** row that is marked with an asterisk (*), enter a new group name in the column **Group**.
- **Enter a specific project customers in this group in the row** (column **Name**).
- **You can enter more customers ranks in the empty row directly below in the** column **Name**. In the following columns, you can enter further project-relevant information related to the customer, such as the address and contact data of a contact person.
- **If necessary, you can add several addresses or contact person to a client in the directly following empty lines.** Thereby the group name in the **Name** column is automatically copied as well.
Note: To change the client name, you need to do this in the first group row, which automatically transfers the group name to all the other saved client ranks.
- **Enter a specific value in the column Code to exchange data with** other applications.
- If necessary, enter a note in the field **Notes**.
- Click on the button **OK**.

Note:

- You can search for project customers in the field **Filter**. Enter the search phrase (or a part of it) in the field.

5.2 Update resource pool

It might be useful to reload a resource pool that has been changed by a responsible person in order to apply the changes. This function reloads the current resource pool.

- Click on the **Update Resource Pool** icon in the left corner of the status bar.



5.3 Assign resources

5.3.1 Resource allocation

Rillsoft Project provides you two variants of resource allocation:

- to allocate resources to **an activity**. First choose an activity in the Gantt chart and then select the resources, such as roles or employees, from the window Activity properties in the tabs. Then you may allocate the required resource accordingly.
- to allocate activities to **a resource**. First define a resource in one of the Resource utilization views and then, select the activities, to which you want to assign the resources, in the window Resource properties.
- **Personnel assign assistant**. If you have already defined personnel resources in the project in the form of roles, you can assign the employees to activities semi-automatically.

Important! A project schedule including activities should have been set up and the required resources, such as roles, teams and personnel need to be defined before the assignment time.

Check if you are working with a resource pool. There should be no project resources. If in the status bar is shown the Word **project resources**, then you should switch to the resource pool.



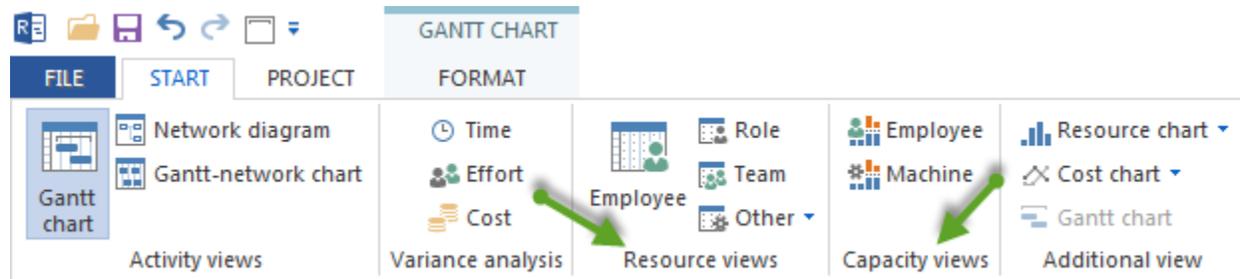
Allocate resources to an activity

In order to allocate an activity resource, proceed as follows:

- Select the menu item **Start > Activity views > Gantt chart**.
- Choose an activity either by selecting it from the Activity table or by leftclicking on it in the Gantt chart field. The activity will be marked and the information is shown in the lower part of the Properties window.
- Select one of the tabs with the resources, such as **Roles, Teams, Employees, Machines** etc., depending on what resource you want to allocate.
- The left table shows resources from the resource pool.
- Doubleclick on one of these resources.
- You can allocate several resources to one activity at a time. There, you can define the required quantity, utilization and effort and verify the readiness and availability of personnel resources.
- Finally, click **OK**.

Allocate activities to a resource

- Select one of the resource views such as **Role, Team or Employee**.



Tip! If roles have already been assigned, you can use the Capacity view personnel to assign employees to activities easily.

- In the filter **Start > Edit > Filter**, deactivate the option **Offer only used resources for selection**, to have all resources from the resource pool shown in the table.
- Choose a resource either by selecting it from the resources table or by leftclicking on it in the timescale field. The resource will be marked and the corresponding information is shown in the lower part of the Properties window.
- Select the tab **Activities**.
- Mark the check boxes of the activities.
- You can define different parameters of each resource for an activity.
- In this way, you can assign several activities to one resource at a time.
- Click on the button **OK**.

Personnel assign Assistant

Requirements: In order to assign employees to activities, at first, you need to assign personnel resources in the form of roles.

By means of the menu item **Project > Assistant > Employee > Assign employees to activities**, you can:

- The first step is to define what employees you want to assign.
- The second step is to mark the activities.
- Analyse and confirm the provided employee assignment.

Possible conflicts or overloads are marked in red. For this, there will be no automatic assignment / allocation.

5.3.2 Assign activities to a role in the view Role

In order to assign activities to a role, do the following:

- Select the view **Start > Resource views > Role**.
- Select the menu item **Start > Edit > Filter**.

The dialogue box **Filter** opens.

Filter

Project _____

Project / Subproject: 2016_2_soft

Period _____

Peri... 03.02.16 00:00

to: 05.04.16 14:00

Activity _____

Hide completed activities

Resources _____

Show only overloaded resources

Only already planned resources to choose from offer

Nr.	Name	Code	Costs
<input type="checkbox"/> Roles			
<input type="checkbox"/> 15.001	analyst		70.00
<input type="checkbox"/> 14.001	designer		60.00
<input type="checkbox"/> 13.001	manager		60.00
<input type="checkbox"/> 11.001	programmer - C++		50.00
<input type="checkbox"/> 11.002	programmer - PHP		45.00
<input type="checkbox"/> 11.003	programmer - V.Basic		50.00
<input type="checkbox"/> 16.001	support		30.00
<input type="checkbox"/> 12.001	writer		30.00
<input type="checkbox"/> Teams			
<input type="checkbox"/> 13.001	East		0.00
<input type="checkbox"/> 11.001	North - Team A		0.00
<input type="checkbox"/> 12.001	South		0.00
<input type="checkbox"/> 14.001	West		0.00
<input type="checkbox"/> Employee			
<input type="checkbox"/> 21.02	Consider (11.003 programmer - V.Basic)		0.00
<input type="checkbox"/> 21.01	Consider (11.002 programmer - PHP)		0.00
<input type="checkbox"/> 14.02	Diligent (11.002 programmer - PHP)		0.00
<input type="checkbox"/> 14.01	Diligent (11.003 programmer - V.Basic)		0.00
<input type="checkbox"/> 17.02	Eager (11.001 programmer - C++)		0.00
<input type="checkbox"/> 17.01	Eager (15.001 analyst)		0.00

OK Cancel

- Remove the tick from the check box **Offer only used resources for selection** to view all roles from the resource pool in the list.
- You can mark the check box **Roles** and transfer all roles to the view Role usage. **Alternatively** you can mark only selected roles.
- Click on the button **OK**.
- Select a role which you want to assign activities to in the table of the view Role usage. The tab **Activities** in the window Resource properties lists activities from the project schedule.

The screenshot displays the Rillsoft Project software interface. The main window shows a Gantt chart for a project named '2016 portfolio'. The chart is set to a cutoff date of 11.01.17 14:00. The Gantt chart shows various activities and tasks, including 'software configuration management', 'task 4', 'following and updating plans', 'software engineering environment', 'software test environment', 'software requirements analysis', 'software implementation', 'unit integration and testing', and 'software configuration management'. The chart is organized by month, showing February 2016 and March 2016. The activities are represented by horizontal bars of different colors, indicating their duration and effort.

Below the Gantt chart, a dialog box is open for role assignment. The dialog box has two tabs: 'Activities' and 'Role'. The 'Activities' tab is selected, showing a list of activities with columns for 'Nr.', 'Name', 'Project', 'Fixed', 'Duration', 'Start', 'Finish', 'Role', 'Quantity', 'Utilizat...', 'Effort', and 'Notes'. The 'Quantity' column is highlighted, and the value '1' is entered in the cell for the activity 'system qualification testing'. The 'Role' column is also highlighted, and the role '11.003 programmer...' is selected. The 'Effort' column shows a value of '21' for the selected activity. The dialog box has 'OK' and 'Cancel' buttons.

- Mark the check boxes of the activities.
- Among others, you can define the **quantity, usage and effort** of a role for an activity.
- Click on the button **OK**.

Role properties during assignment

During the assignment you can refine role properties by controlling and defining the following values for each activity:

- Number of roles
- Usage of a role
- Effort of a role
- Notes concerning a role.

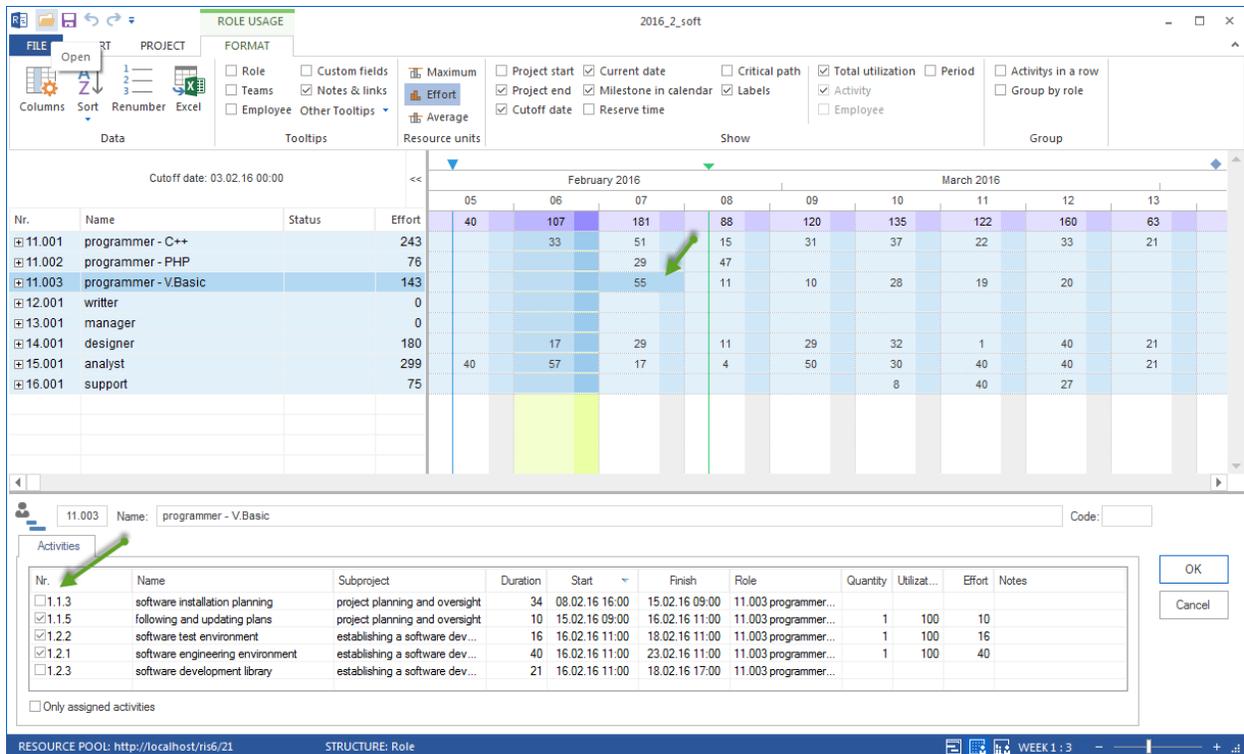
Activity selection

During this assignment you can determine the activity list by activating /deactivating the following options:

- **Assigned activities only** lists only assigned activities.

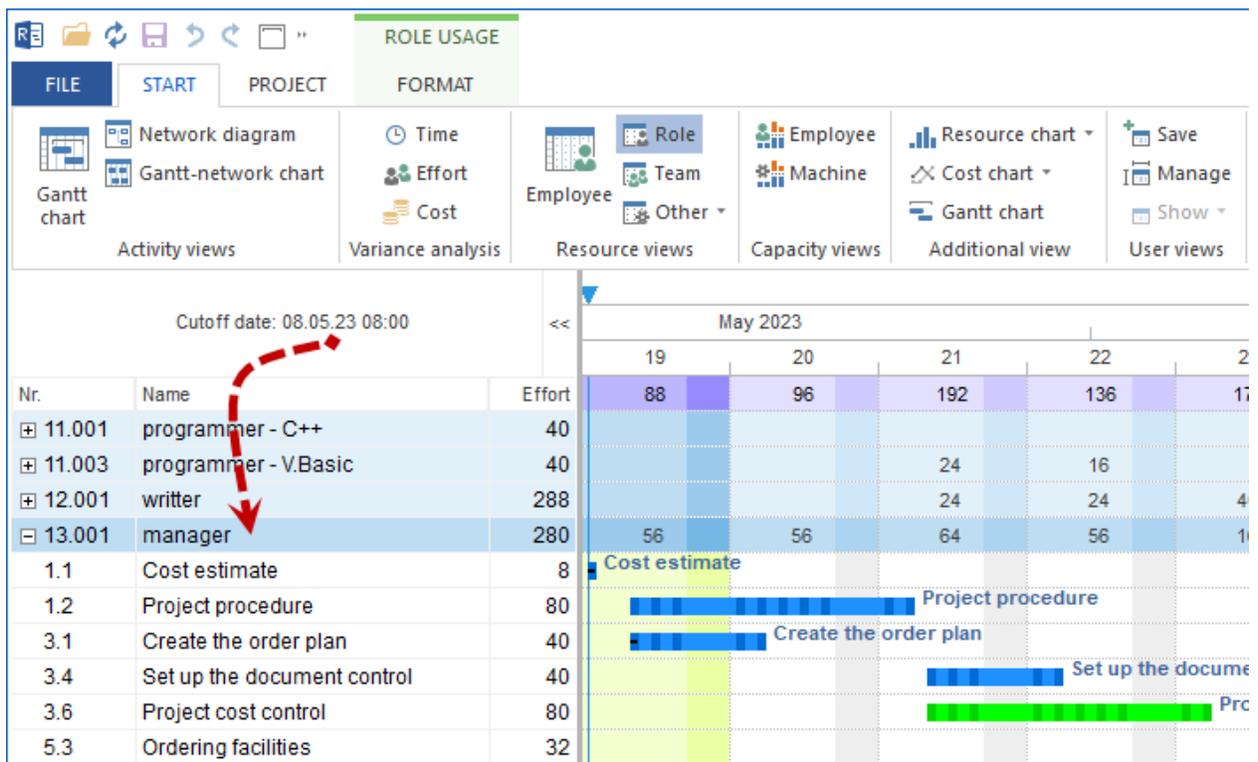
Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Roles and column Date, you will only receive the displayed activities that were defined for this particular time period.



5.3.3 Role View Resource Properties

If you click on a row in the table at a role view, you can display detailed information about the role in the properties window.



The role information can be tracked on the following tabs:

- Activities
- Role

Activities

Properties

13.001 Name: manager Code:

Activities Role

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Role	Quantity	Utilizati...	Effort	Notes
<input checked="" type="checkbox"/> 1.1	Cost estimate	Phase 1	Duration	8	08.05.23 08:00	08.05.23 17:00	13.001 manager	1	100	8	
<input checked="" type="checkbox"/> 3.1	Create the order plan	Phase 2	Duration	40	10.05.23 08:00	16.05.23 17:00	13.001 manager	1	100	40	
<input checked="" type="checkbox"/> 1.2	Project procedure	Phase 1	Duration	80	10.05.23 08:00	23.05.23 17:00	13.001 manager	1	100	80	
<input checked="" type="checkbox"/> 1.3	Completing the construction schedule	Phase 1	Duration	64	17.05.23 08:00	26.05.23 17:00	13.001 manager	1	100	64	
<input type="checkbox"/> 3.2	Planning the design phase	Phase 2	Duration	32	23.05.23 08:00	26.05.23 17:00	13.001 manager				
<input type="checkbox"/> 3.5	Setting up the project monitoring	Phase 2	Duration	40	24.05.23 08:00	30.05.23 17:00	13.001 manager				

Only assigned activities

OK Cancel Help

In the **No.** column you can assign the activities to the selected role by selecting it.

More information about the activities is available here.

The option **Only assigned activities** reduces the activity list to the activities that have already been assigned.

Role

Properties

13.001 Name: manager Code:

Activities Role

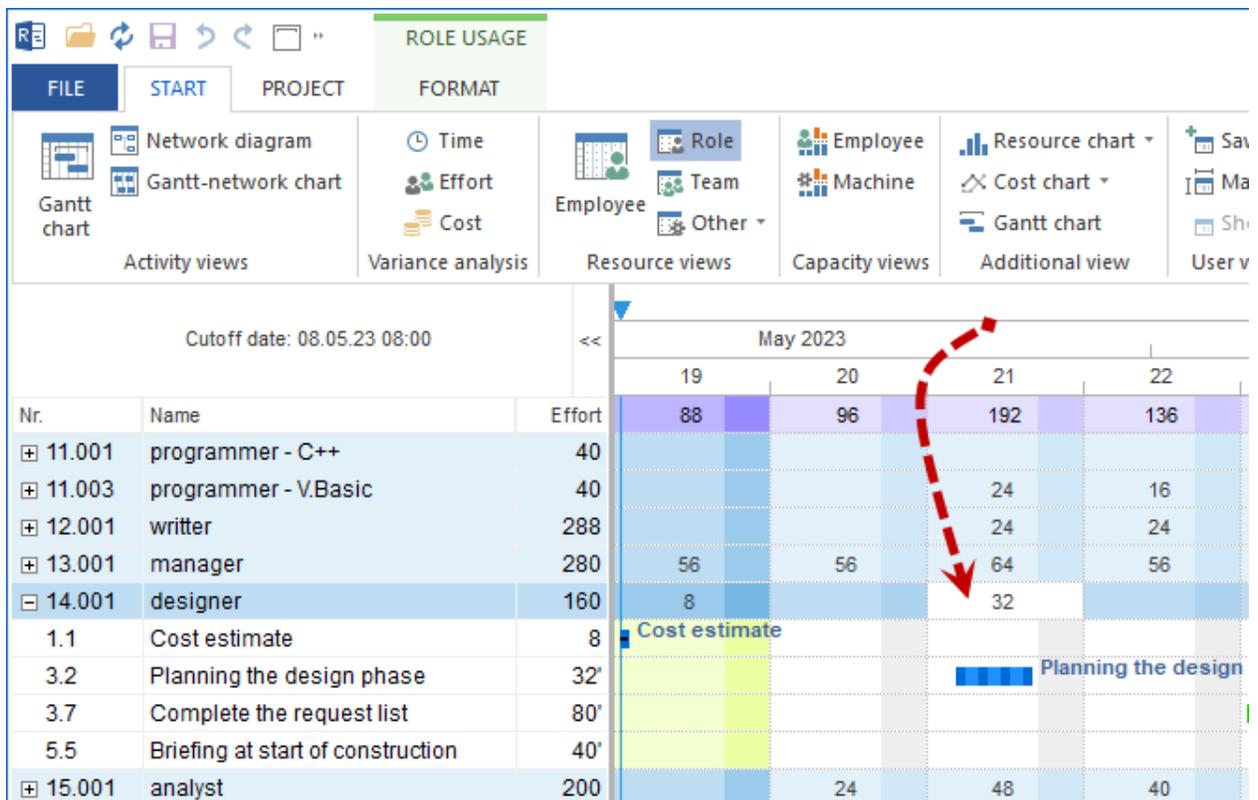
Resource pool

Nr.	Role	Code	Qualification	Costs	Notes
13.001	manager			60.00	

OK Cancel Help

You can see the properties of the role entered in the resource pool from the tab.

Activities on specific date



You can filter out activities that are due on a certain date. If you click with the left mouse button on a cell which is a result of the role line and the date column, you will only get the activities that are in question for the selected period.

Properties

14.001 Name: designer Code: _____

Activities

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Role	Quantity	Utilizati...	Effort	Notes
<input checked="" type="checkbox"/> 3.2	Planning the design phase	Phase 2	Duration	32	23.05.23 08:00	26.05.23 17:00	14.001 designer	1	100	32	

Only assigned activities

OK Cancel Help

5.3.4 Assign activities to a team in the view Team

In order to assign activities to a team, do the following:

- Select the view **Start > Resource views > Team**.
- Select the menu item **Start > Edit > Filter**.

The dialogue box **Filter** opens.

Filter

Project _____

Project / Subproject: 2016_2_soft

Period _____

Peri... 03.02.16 00:00

to: 05.04.16 14:00

Activity _____

Hide completed activities

Resources _____

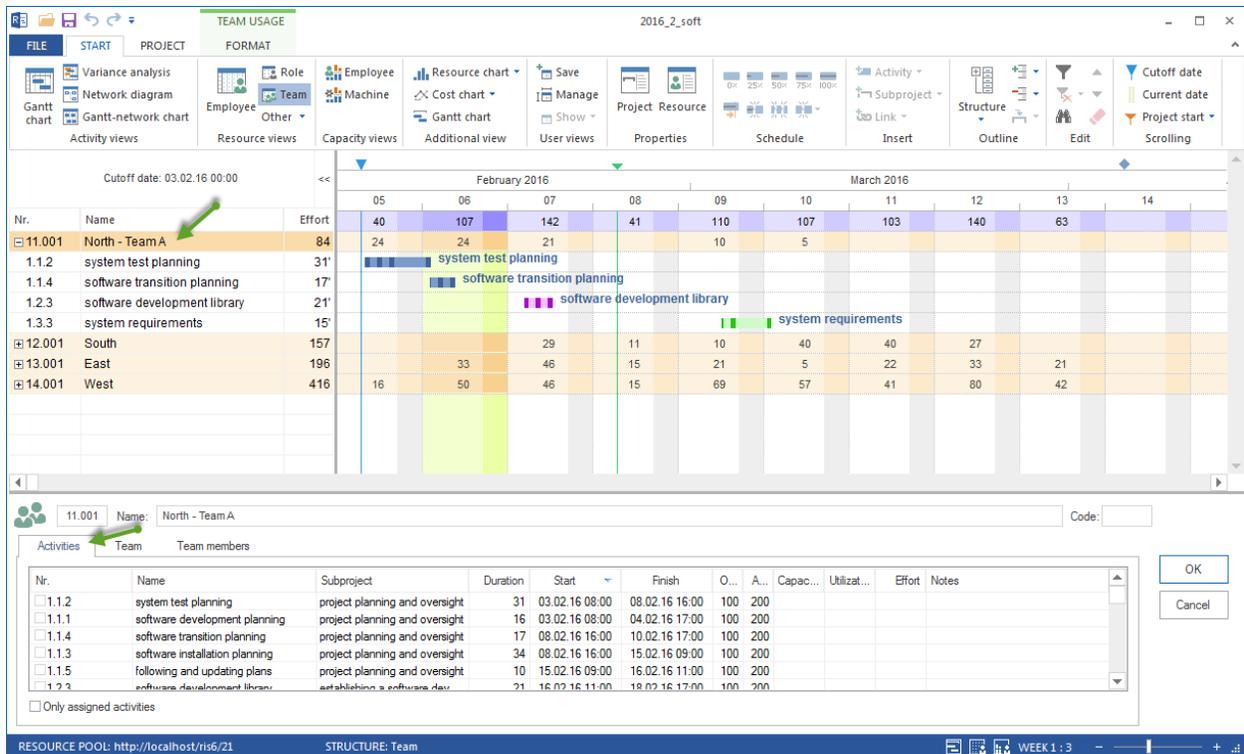
Show only overloaded resources

Only already planned resources to choose from offer

Nr.	Name	Code	Costs
<input type="checkbox"/> Roles			
<input type="checkbox"/> 15.001	analyst		70.00
<input type="checkbox"/> 14.001	designer		60.00
<input type="checkbox"/> 13.001	manager		60.00
<input type="checkbox"/> 11.001	programmer - C++		50.00
<input type="checkbox"/> 11.002	programmer - PHP		45.00
<input type="checkbox"/> 11.003	programmer - V.Basic		50.00
<input type="checkbox"/> 16.001	support		30.00
<input type="checkbox"/> 12.001	writer		30.00
<input type="checkbox"/> Teams			
<input type="checkbox"/> 13.001	East		0.00
<input type="checkbox"/> 11.001	North - Team A		0.00
<input type="checkbox"/> 12.001	South		0.00
<input type="checkbox"/> 14.001	West		0.00
<input type="checkbox"/> Employee			
<input type="checkbox"/> 21.02	Consider (11.003 programmer - V.Basic)		0.00
<input type="checkbox"/> 21.01	Consider (11.002 programmer - PHP)		0.00
<input type="checkbox"/> 14.02	Diligent (11.002 programmer - PHP)		0.00
<input type="checkbox"/> 14.01	Diligent (11.003 programmer - V.Basic)		0.00
<input type="checkbox"/> 17.02	Eager (11.001 programmer - C++)		0.00
<input type="checkbox"/> 17.01	Eager (15.001 analyst)		0.00

OK Cancel

- Remove the tick from the check box **Offer only used resources for selection** to view all teams from the resource pool in the list.
- You can mark the check box **Roles** and transfer all teams to the view Team usage. **Alternatively**, you can mark only selected teams.
- Click on the button **OK**.
- Select a team which you want to assign activities to in the table of the view Team usage. The tab **Activities** in the window Resource properties lists activities from the project schedule.



- Mark the check boxes of the activities.
- Among others, you can define the **team usage and effort** for an activity.
- Mark the check boxes of the activities.
- Click on the button **OK**.

Team properties during assignment

During the assignment you can refine team properties by controlling and defining the following values for each activity:

- Readiness of a team
- Availability of a team
- Capacity of a team
- Usage of a team
- Effort of a team
- Notes concerning a team.

Activity selection

During the assignment you can determine the activity list by activating /deactivating the following options:

- **Assigned activities only** lists only assigned activities.

Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Team and column Date, you will only receive the displayed activities that were defined for this particular time period.

The screenshot shows the 'TEAM USAGE' window for project '2016_2_soft'. The main view is a Gantt chart for February and March 2016. The chart shows resource usage for various tasks. A detailed 'Activities' window is open for resource '14.001 West', showing a list of tasks with their durations and dates.

Nr.	Name	Subproject	Duration	Start	Finish	O...	A...	Capac...	Utilizat...	Effort	Notes
1.1.3	software installation planning	project planning and oversight	34	08.02.16 16:00	15.02.16 09:00	100	200				
1.1.5	following and updating plans	project planning and oversight	10	15.02.16 09:00	16.02.16 11:00	100	200				
1.2.2	software test environment	establishing a software dev...	16	16.02.16 11:00	18.02.16 11:00	100	200				
1.2.1	software engineering environment	establishing a software dev...	40	16.02.16 11:00	23.02.16 11:00	100	200				
1.2.3	software development library	establishing a software dev...	21	16.02.16 11:00	18.02.16 17:00	100	200				

5.3.5 Team View Resource Properties

If you click on a row in the table at a team view, you can display detailed information about the team resource in the properties window.

The screenshot shows the 'TEAM USAGE' window for project 'Building p'. The main view is a Gantt chart for May and June 2023. The chart shows resource usage for various tasks. A red arrow points to the 'Team' tab in the 'Resource views' section of the top toolbar.

Nr.	Name	Effort
11.001	North - Team A	176
12.001	South	208
3.3	Building planning presentation	48'
3.5	Setting up the project monitoring	40'
3.7	Complete the request list	80'
5.5	Briefing at start of construction	40'
14.001	West	216

The Team information can be followed on the following tabs:

- Activities
- Team

- Team members

Activities

Properties

12.001 Name: South Code:

Activities Team Team members

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	On-call	Availability	Capacity	Utilization	Effort	Notes
<input type="checkbox"/> 1.1	Cost estimate	Phase 1	Duration	8	08.05.23 08:00	08.05.23 17:00	100	400				
<input type="checkbox"/> 3.1	Create the order plan	Phase 2	Duration	40	10.05.23 08:00	16.05.23 17:00	100	400				
<input type="checkbox"/> 1.2	Project procedure	Phase 1	Duration	80	10.05.23 08:00	23.05.23 17:00	100	400				
<input type="checkbox"/> 1.3	Completing the construction schedule	Phase 1	Duration	64	17.05.23 08:00	26.05.23 17:00	100	400				
<input type="checkbox"/> 3.2	Planning the design phase	Phase 2	Duration	32	23.05.23 08:00	26.05.23 17:00	100	400				
<input type="checkbox"/> 3.5	Setting up the project monitoring	Phase 2	Duration	40	24.05.23 08:00	30.05.23 17:00	100	400				

Only assigned activities

OK Cancel Help

Information about the activities is available here.

The option **Only assigned activities** reduces the activity list to the activities that have already been assigned.

Team

Properties

12.001 Name: South Code:

Activities Team Team members

Resource pool

Nr.	Working group	Code	Team	Calendar	Non-working days	Capacity type	Capacity	Costs	Notes
12.001	South					Medium	4	180.00	

OK Cancel Help

On the tab, you can see the properties of the team entered in the resource pool.

Team members

Properties

12.001 Name: South Code:

Activities Team Team members

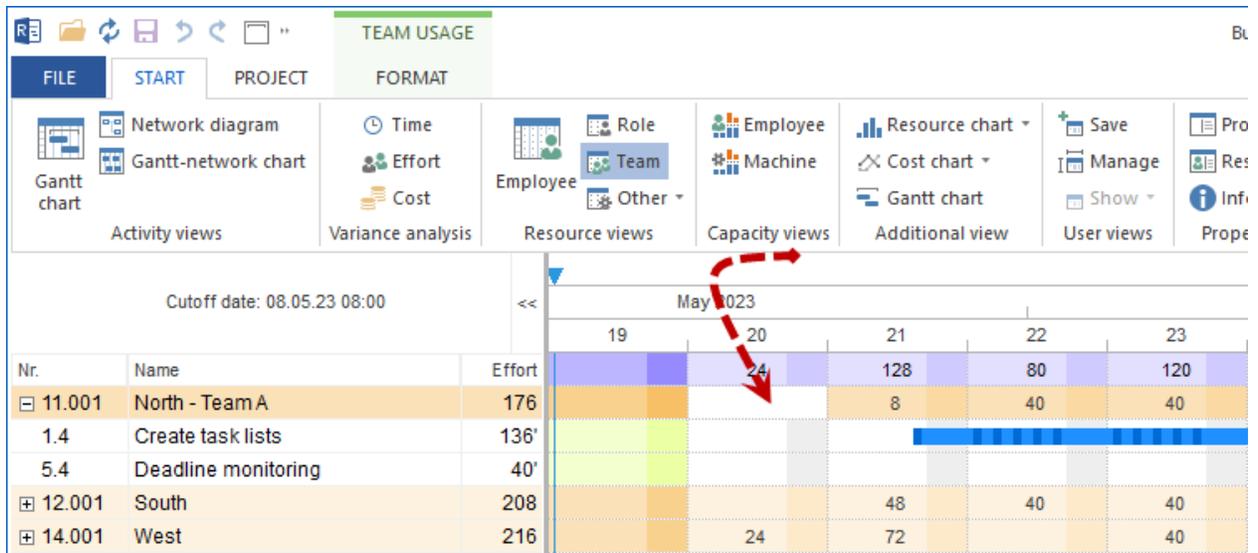
Resource pool

Nr.	Name	Code	Calendar	Non-working days	Working group - team	Role - qualification	Productivity	Costs	Notes
12.01	Supeman		2 all 45-hour work week	04.01.16-05.01.16/V/07.01.16-08.01.16;29...	12.001 South	13.001 manager	100	50.00	
15.01	Goeslike			04.01.16-05.01.16/V/09.02.16-12.02.16;29...	12.001 South	16.001 support	100	40.00	
15.02	Goeslike			04.01.16-05.01.16/V/09.02.16-12.02.16;29...	12.001 South	12.001 writer	100	40.00	
18.01	Slow			07.01.16-08.01.16;11.01.16-01.02.16-05.02...	12.001 South	11.001 programmer - C++	100	50.00	
21.01	Consider			01.12.10-02.12.10;04.01.16-05.01.16;21.01...	12.001 South	11.002 programmer - PHP	100	40.00	

OK Cancel Help

The tab lists other employees with their properties from the resource pool who belong to the same team.

Vorgänge zu bestimmtem Datum



You can filter out activities that are due on a certain date. If you click with the left mouse button on a cell which is a result of the team line and the date column, you will only get the activities that are in question for the selected period.

Properties

11.001 Name: North - Team A Code:

Activities

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	On-call	Availability	Capacity	Utilization	Effort	Notes

Only assigned activities

OK Cancel Help

5.3.6 Assign activities to an employee in the Human resource capacity planning

Important! You should already have the following completed:

- Set up employees in the resource pool and describe them with roles.
- Assign the roles to the activities.

In order to assign activities to employees, do the following:

1. Select the menu item **Start > Capacity views > Employee**.
2. Mark **unhide employees** in the **Human resource capacity planning** to display employees.
3. Select the employee who you want to assign activities to. The tab **Activities** in the window **Resource properties** lists activities from the project schedule.

Tip If you have the option **Activities with matching role only** activated, the employees will be offered only activities, which this role has been assigned.

The screenshot displays the 'HUMAN RESOURCE CAPACITY PLANNING' window for project '2016_2_soft'. The main grid shows effort and shortfall for various activities across months. A detailed view for the employee 'Superman' is open, showing a list of activities with their durations, start/finish times, roles, and workload values. Green arrows in the image point to specific UI elements: '3' points to activity checkboxes, '4' points to the 'Only activities with matching role' checkbox, and '5' points to the 'Effort' column in the detailed view.

Nr.	Name	Status	Effort	B...	Shortfall
11.001	programmer - C++		243		
11.002	programmer - PHP		76	-11 (14%)	
11.003	programmer - V.Basic		143		
13.001	manager		96		
1.1.1	software development planning		16'	-16	
1.3.1	analysis of user input		19'	-19	
1.3.2	operational concept		27'	-27	
1.11	software product evaluation		34'	-34	
12.01	Superman				
14.001	designer		227	-32 (14%)	
15.001	analyst		350	-31 (9%)	

Nr.	Name	Subproject	Duration	Start	Finish	Role	Bala..	On...	Availa...	Pr...	Util...	A...	Effort	Notes
<input type="checkbox"/>	1.1.1	software development planning	project planning and oversight	16	03.02.16 08:00	04.02.16 17:00	13.001 manager	-16	100	100				
<input type="checkbox"/>	1.3.1	analysis of user input	system requirements analysis	19	01.03.16 11:00	03.03.16 15:00	13.001 manager	-19	100	100				
<input type="checkbox"/>	1.3.2	operational concept	system requirements analysis	27	03.03.16 15:00	09.03.16 09:00	13.001 manager	-27	100	100				
<input type="checkbox"/>	1.11	software product evaluation	software development proc...	34	24.03.16 11:00	30.03.16 14:00	13.001 manager	-34	100	100				

4. Mark the check boxes of the activities.
5. Among others, you can define the **employee workload** for an activity.
6. Mark the check boxes of the corresponding activities.
7. Click on the button **OK**.

Employee properties during assignment

During the assignment you can refine role properties by controlling and defining the following values for each activity:

- Readiness of an employee
- Availability of an employee
- Productivity of an employee
- Workload of an employee
- Absence of an employee
- Effort of an employee
- Notes concerning an employee.

Activity selection

During the assignment you can determine the activity list by activating /deactivating the following options:

- **Assigned activities only** lists only assigned activities.
- **Activities with matching role only** is important for employee assignment. It lists only activities, to which a role executed by an employee, has already been assigned.

Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Resource and column Date, you will only receive the displayed activities that were defined for this particular time period.

The screenshot displays the 'HUMAN RESOURCE CAPACITY PLANNING' application window. The main view is a Gantt chart showing resource utilization from February 05 to March 12, 2016. A green arrow points to a cell in the Gantt chart for February 08, 2016, under resource 11.002. Below the Gantt chart, a dialog box titled 'Activities' is open, showing a list of activities for resource 11.002. The dialog box has a green arrow pointing to the 'Activities' tab. The list includes activities 1.2.1 and 1.2.4.

Nr.	Name	Subproject	Duration	Start	Finish	Role	Quantity	Utilizat...	Effort	Notes
1.2.1	software engineering environment	establishing a software dev...	40	16.02.16 11:00	23.02.16 11:00	11.002 programmer...	1	100	40	
1.2.4	software development files	establishing a software dev...	36	22.02.16 08:00	26.02.16 12:00	11.002 programmer...	1	100	36	

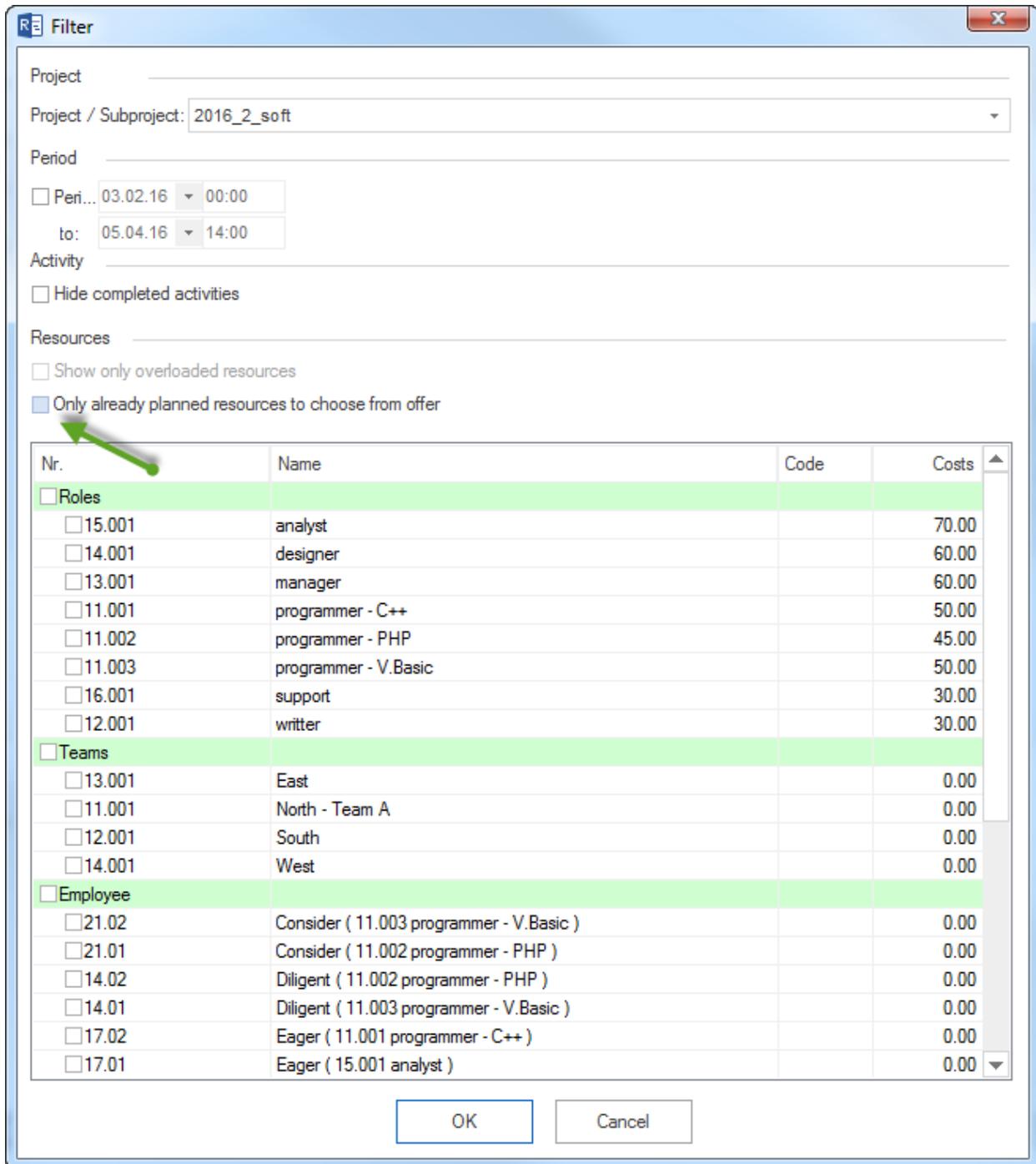
5.3.7 Assign activities to an employee in the view Employee

Important! A project schedule, which includes activities and the employees required in the resource pool should already been set up.

In order to assign activities to employees, do the following:

- Select the view **Start > Resource views > Employee**.
- Select the menu item **Start > Edit > Filter**.

The dialogue box **Filter** opens.



- Remove the tick from the check box **Offer only used resources for selection** to view all employees from the resource pool in the list.
- You can mark the check box **Employees** and transfer all employees to the view Employee workload. **Alternatively** you can mark only selected employees.
- Click on the button **OK**.
- Select the employee which you want to assign activities to in the table of the view Employee workload. The tab **Activities** in the window Resource properties lists activities from the project schedule.

Tip If an employee has several roles, the activity will be shown as many times as the number of roles the employee has. For instance, Mr Ordentlich can work as mechanic, which means all activities will be listed twice, so as to allow him to be assigned to one activity under several roles.

The screenshot shows the 'EMPLOYEE USAGE' window for '2016_2_soft'. The main area is a Gantt chart calendar for February and March 2016. The 'Sleeper' employee (Nr. 16.02) is highlighted in green, with a total effort of 180. Below the calendar, a detailed view for 'Sleeper' is shown, listing activities with their durations, start/finish dates, roles, and utilization percentages. The 'Activities' tab is selected, showing a list of activities with checkboxes for selection. The 'Only activities with matching role' checkbox is checked.

Nr.	Name	Subproject	Duration	Start	Finish	Role	Bala...	On-call	Availa...	Pr...	Util...	A...	Effort	Notes
<input type="checkbox"/>	1.1.2	system test planning	project planning and oversight	31	03.02.16 08:00	08.02.16 16:00	14.001 designer	-31	67	100				
<input type="checkbox"/>	1.1.1	software development pla...	project planning and oversight	16	03.02.16 08:00	04.02.16 17:00	14.001 designer	-16	0	100				
<input type="checkbox"/>	1.1.3	software installation plann...	project planning and oversight	34	08.02.16 16:00	15.02.16 09:00	11.001 program...	0	100	0				
<input checked="" type="checkbox"/>	1.1.4	software transition planning	project planning and oversight	17	08.02.16 16:00	10.02.16 17:00	14.001 designer	0	100	0	100		17	
<input type="checkbox"/>	1.2.1	software engineering envi...	establishing a software dev...	40	16.02.16 11:00	23.02.16 11:00	11.001 program...	0	100	0				
<input type="checkbox"/>	1.2.3	software development lib...	establishing a software dev...	21	16.02.16 11:00	18.02.16 17:00	11.001 program...	0	100	0				

- Mark the check boxes of the activities.
- Among others, you can define the **employee workload** for an activity.
- Mark the check boxes of the activities.
- Click on the button **OK**.

Employee properties during assignment

During the assignment you can refine role properties by controlling and defining the following values for each activity:

- Readiness of an employee
- Availability of an employee
- Productivity of an employee
- Workload of an employee
- Absence of an employee
- Effort of an employee
- Notes concerning an employee.

Activity selection

During the assignment you can determine the activity list by activating /deactivating the following options:

- **Assigned activities only** lists only assigned activities.
- **Activities with matching role only** is important for employee assignment. It lists only activities to which a role executed by an employee has already been assigned.

Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Employee and column Date, you will only receive the displayed activities that were defined for this particular time period.

The screenshot displays the 'EMPLOYEE USAGE' window for '2016_2_soft'. The main grid shows effort values for various employees from February 05 to March 15, 2016. A green arrow points to the cell for employee 'Eager' on 03.02.16. Below the grid, the 'Activities' window is open, showing a list of activities with columns for Nr., Name, Subproject, Duration, Start, Finish, Role, Balance, On-call, Availability, Priority, Utilization, and Effort. A green arrow points to the first activity in the list: '1.1.3 software installation planning project planning and oversight'.

5.3.8 Employee View Resource Properties

If you click on a row in the table at a employee view, you can display detailed information about the employee resource in the properties window.

The screenshot shows the 'EMPLOYEE USAGE' window for 'Building planning'. The grid displays effort values for employees from May 19 to June 24, 2023. A red arrow points from the cell for employee 'Tidy, John' on 08.05.23 to the 'Employee' tab in the 'Properties' window. The 'Properties' window is partially visible at the bottom, showing various tabs like 'Network diagram', 'Gantt chart', 'Time', 'Effort', 'Cost', 'Role', 'Team', 'Other', 'Employee', 'Machine', 'Resource chart', 'Cost chart', 'Gantt chart', 'Save', 'Manage', 'Show', 'Project', 'Resource', 'Info', and 'Schedule'.

The employee information can be followed on the following tabs:

- Activities
- Employee
- Calendar
- Team members

Activities

Properties

15.02 Name: Goeslike Code: _____

Activities Timesheets Employee Calendar Team members

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Role	Balance	On-call	Availability	Productivity	Utilization	Ad...	Abt
<input checked="" type="checkbox"/> 3.3	Building planning presentation	Phase 2	Duration	48	24.05.23 08:00	31.05.23 17:00	12.001 witter	0	100	0	100	100		
<input checked="" type="checkbox"/> 3.7	Complete the request list	Phase 2	Duration	80	05.06.23 08:00	16.06.23 17:00	12.001 witter	0	100	0	100	100		
<input checked="" type="checkbox"/> 5.5	Briefing at start of construction	Phase 3	Duration	40	14.07.23 08:00	20.07.23 17:00	12.001 witter	0	100	0	100	100		

Only assigned activities Only activities with matching role

OK Cancel Help

In the **No.** column, you can assign the activities to the selected person by marking them.

This provides you with further information about the activities.

The option **Only assigned activities** reduces the activity list to the activities already assigned.

Only activities with matching role only those activities are listed to which a role exercised by the employee is already assigned.

In addition, you can refine the personnel characteristics in the table when making the assignment, by checking the following values for each activity:

- On-call of an employee
- Availability of an employee
- Additional utilization of an employee
- Negative effort of an employee
- Substitution for which employee

or define the following values:

- Productivity of an employee
- Utilisation of an employee
- Absence of an employee
- Effort of an employee
- Notes of an employee.

Employee

Properties

15.02 Name: Goeslike Code: _____

Activities Timesheets Employee Calendar Team members

Resource pool

Nr.	Name	Code	Calendar	Non-working days	Working group - team	Role - qualification	Productivity	Costs	Notes
15.01	Goeslike			04.01.16-05.01.16/V/09.02...	12.001 South	16.001 support	100	40.00	
15.02	Goeslike			04.01.16-05.01.16/V/09.02...	12.001 South	12.001 witter	100	40.00	

OK Cancel Help

On the tab, you can see the characteristics of a human resource entered in the resource pool, including its professional qualifications.

Calendar

The 'Properties' dialog box, 'Calendar' tab, displays a table of activities and a weekly calendar grid. The activity table has columns: Nr., Calendar / Activity, Week, Shift, and Source. The calendar grid shows working hours for each day of the week.

Nr.	Calendar / Activity	Week	Shift	Source
1	Standard	40 hour	8 hour	
3.3	Building planning presentation			Project
3.7	Complete the request list			Project
5.5	Briefing at start of construction			Project

The calendar grid shows working hours for each day of the week:

Day	Working Hours
Monday	8 hour 08:00-12:00;13:00-17:00
Tuesday	8 hour 08:00-12:00;13:00-17:00
Wednesday	8 hour 08:00-12:00;13:00-17:00
Thursday	8 hour 08:00-12:00;13:00-17:00
Friday	8 hour 08:00-12:00;13:00-17:00
Saturday	0 hour
Sunday	0 hour

On the Calendar tab, you can see which calendars are used in the assigned tasks and how the working times are defined.

Team members

The 'Properties' dialog box, 'Team members' tab, displays a table of team members with their properties. The table has columns: Nr., Name, Code, Calendar, Non-working days, Working group - team, Role - qualification, Productivity, Costs, and Notes.

Nr.	Name	Code	Calendar	Non-working days	Working group - team	Role - qualification	Productivity	Costs	Notes
12.01	Supeman		2 all 45-hour work week	04.01.16-05.01.16/V;07.01.16-08.01.16;29...	12.001 South	13.001 manager	100	50.00	
15.01	Goeslike			04.01.16-05.01.16/V;09.02.16-12.02.16;29...	12.001 South	16.001 support	100	40.00	
15.02	Goeslike			04.01.16-05.01.16/V;09.02.16-12.02.16;29...	12.001 South	12.001 writer	100	40.00	
18.01	Slow			07.01.16-08.01.16;11.01.16-01.02.16-05.02...	12.001 South	11.001 programmer - C++	100	50.00	
21.01	Consider			01.12.10-02.12.10;04.01.16-05.01.16;31.01...	12.001 South	11.002 programmer - PHP	100	40.00	
21.02	Consider			01.12.10-02.12.10;04.01.16-05.01.16;31.01...	12.001 South	11.002 programmer - PHP	100	40.00	

The tab lists other team members of his team with their properties from the resource pool.

Activities on specific date

The 'EMPLOYEE USAGE' view in a software application shows a Gantt chart and a table of activities for a specific date. The Gantt chart displays activity bars for various team members over time. The table below shows the activity data for a specific date.

Nr.	Name	Effort	Overload
13.01	Tidy, John	40	
15.02	Goeslike	168	
3.3	Building planning presentation	48	
3.7	Complete the request list	80	
5.5	Briefing at start of construction	40	
16.02	Sleeper	152	
17.01	Eager	136	
20.02	Think	64	
21.02	Consider	40	

You can filter out transactions that are due in a certain period of time. If you click with the left mouse button on a cell that is a result of the employee row and the date column, you will only see the activities that come into question for the selected period.

Properties

15.02 Name: Goeslike Code:

Activities

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Role	Balance	On-call	Availability	Productivity	Utilization	Ad...	Absences	Effort
<input checked="" type="checkbox"/> 3.7	Complete the r...	Phase 2	Duration	80	05.06.23 08:00	16.06.23 17:00	12.001 writer	0	100	-100	100	100			80

Only assigned activities Only activities with matching role

OK
Cancel
Help

5.3.9 Assign activities to a material in the view Material requirements

In order to assign activities to a material, do as follows:

- Select the view **Start > Resource views > Material requirements**.
- Select the menu item **Start > Edit > Filter**.

The dialogue box **Filter** opens.

The screenshot shows the 'MATERIAL REQUIREMENTS' window for project '2016_2_soft'. The main view is a Gantt chart showing resource usage from February 05 to March 13. A table on the left lists materials:

Nr.	Name	Unit	Quan...	Notes
12.001	Metals - Steel	100...	3	
12.002	Metals - Stainless steel	100...	3	
12.003	Metals - Spring steel	50 kg	0	
13.001	Non-ferrous metals - Aluminium	1 kg	13	
13.002	Non-ferrous metals - Copper	10 kg	0	
13.003	Non-ferrous metals - Brass	10 kg	0	

The pop-up window for material '13.002 Name: Non-ferrous metals - Copper' shows the following activities:

Nr.	Name	Subproject	Duration	Start	Finish	Calculation	Amount	Notes
<input type="checkbox"/> 1.1.5	following and updating plans	project planning and oversight	10	15.02.16 09:00	16.02.16 11:00			
<input type="checkbox"/> 1.2.2	software test environment	establishing a software dev...	16	16.02.16 11:00	18.02.16 11:00			
<input type="checkbox"/> 1.2.1	software engineering environment	establishing a software dev...	40	16.02.16 11:00	23.02.16 11:00			
<input checked="" type="checkbox"/> 1.2.3	software development library	establishing a software dev...	21	16.02.16 11:00	18.02.16 17:00	Fix	3	
<input type="checkbox"/> 1.2.4	software development files	establishing a software dev...	36	22.02.16 08:00	26.02.16 12:00			
<input type="checkbox"/> 1.2.5	non-deliverable software	establishing a software dev...	15	26.02.16 13:00	01.03.16 11:00			

- Mark the check boxes of the activities.
- Among others, you can define the **material quantity** for an activity.
- Mark the check boxes of the activities.
- Click on the button **OK**.

Material properties during assignment

During assignment you can refine material properties by controlling and defining the following values for each activity:

- Calculation of a material
- Quantity of a material
- Notes concerning a material.

Activity selection

During this assignment you can determine the activity list by activating /deactivating the following options:

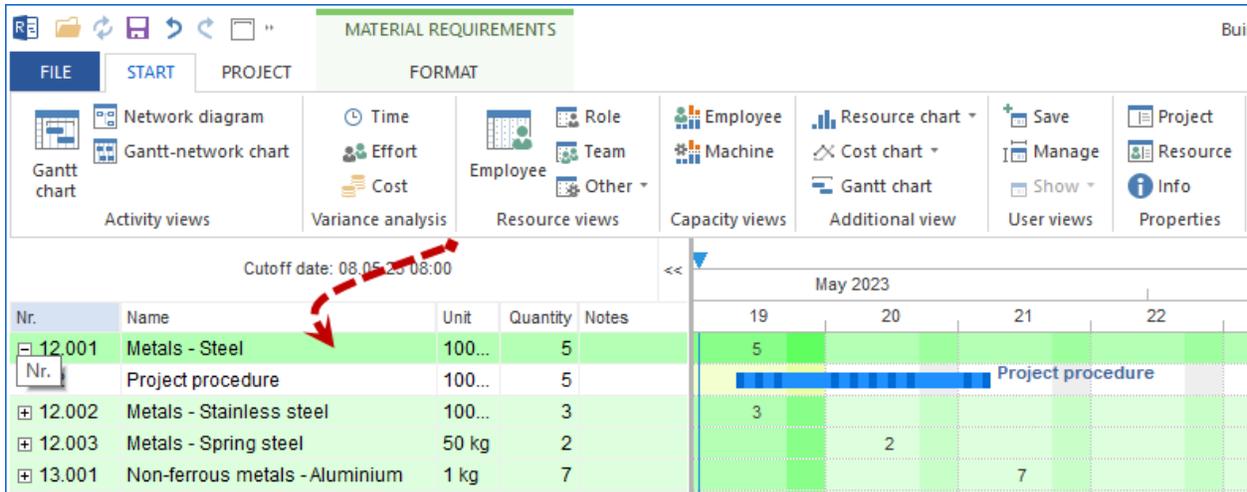
- **Assigned activities only** lists only assigned activities.

Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Material and column Date, you will only receive the displayed activities that were defined for this particular time period.

5.3.10 Material requirement Properties

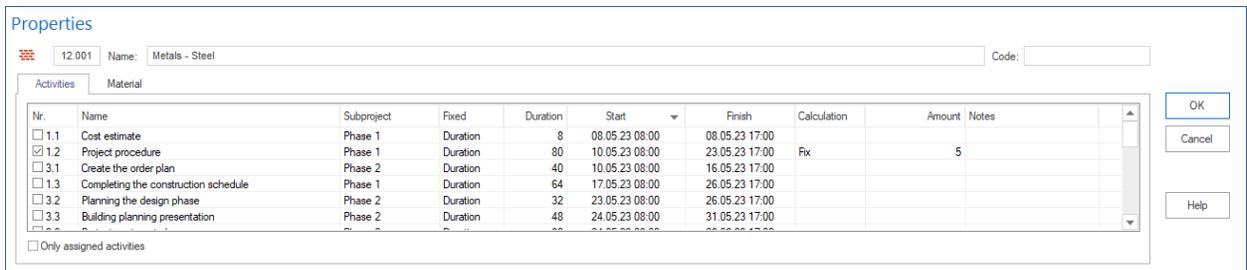
If you click on a row in the table at a Material requirement view, you can display detailed information about the material requirement in the properties window.



The machine type information can be tracked on the following tabs:

- Activities
- Material requirement

Activities

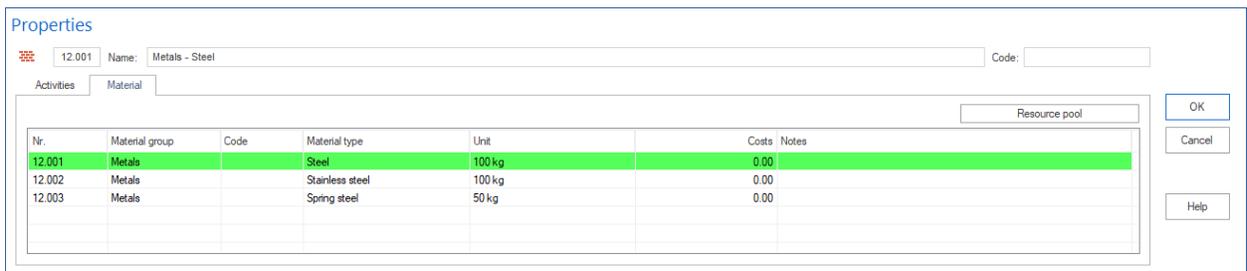


In the **No.** column you can assign the activities to the selected material by selecting it.

More information about the activities is available here.

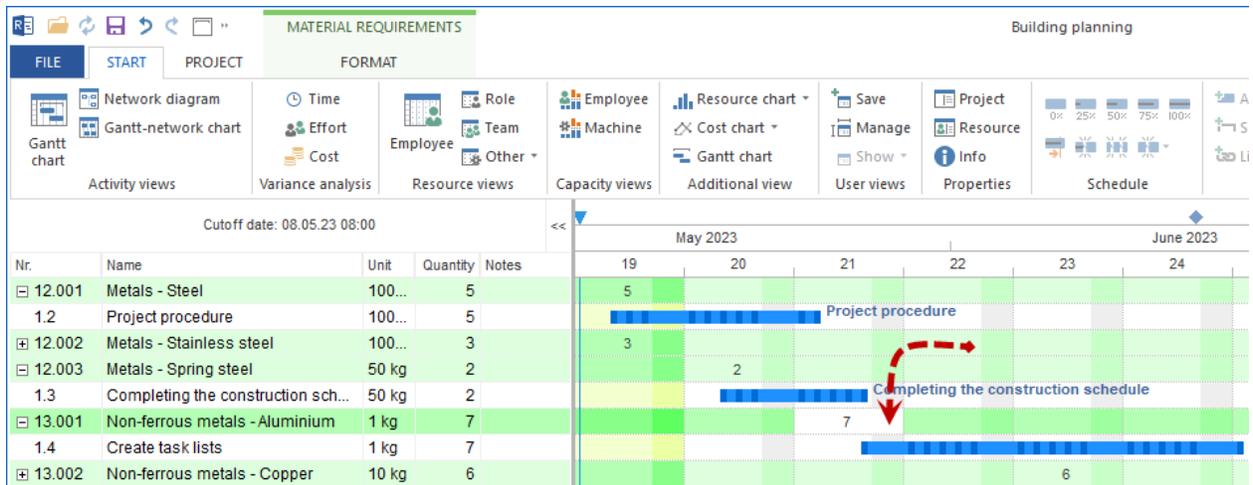
The option **Only assigned activities** reduces the activity list to the activities that have already been assigned.

Material



You can see the properties of the machine type entered in the resource pool from the tab.

Activities on specific date



You can filter out activities that are due on a certain date. If you click with the left mouse button on a cell which is a result of the material line and the date column, you will only get the activities that are in question for the selected period.

Properties

13.001 Name: Non-ferrous metals - Aluminium Code:

Activities

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Calculation	Amount	Notes
<input checked="" type="checkbox"/> 1.4	Create task lists	Phase 1	Duration	136	26.05.23 08:00	19.06.23 17:00	Fix	7	

Only assigned activities

OK Cancel Help

5.3.11 Assign activities to a machine type in Machine types

Important! A project schedule, which includes activities and the roles required in the resource pool should already been set up.

In order to assign activities to a machine type, do the following:

- Select the view **Start > Resource views > Machine types**.
- Select the menu item **Start > Edit > Filter**.

The dialogue box **Filter** opens.

The screenshot shows the 'MACHINE TYPES USAGE' window for project '2016_2_soft'. The main view is a Gantt chart showing resource usage for various activities from February 05 to March 14, 2016. Activities are color-coded by machine type. A detailed view for activity 12.001 'Rotate machine' is open at the bottom, showing a list of sub-activities with their respective durations, start/finish times, machine types, quantities, and utilization percentages.

Nr.	Name	Subproject	Duration	Start	Finish	Machine type	Quantity	Utilizat...	Notes
<input type="checkbox"/>	1.1.2	system test planning	project planning and oversight	31	03.02.16 08:00	08.02.16 16:00	12.001 Rotate mac...		
<input type="checkbox"/>	1.1.1	software development planning	project planning and oversight	16	03.02.16 08:00	04.02.16 17:00	12.001 Rotate mac...		
<input checked="" type="checkbox"/>	1.1.4	software transition planning	project planning and oversight	17	08.02.16 16:00	10.02.16 17:00	12.001 Rotate mac...	1	100
<input checked="" type="checkbox"/>	1.1.3	software installation planning	project planning and oversight	34	08.02.16 16:00	15.02.16 09:00	12.001 Rotate mac...	1	100
<input checked="" type="checkbox"/>	1.1.5	following and updating plans	project planning and oversight	10	15.02.16 09:00	16.02.16 11:00	12.001 Rotate mac...	1	100
<input type="checkbox"/>	1.2.3	software development library	establishing a software dev...	21	16.02.16 11:00	18.02.16 17:00	12.001 Rotate mac...		

- Mark the check boxes of the activities.
- Among others, you can define the **quantity, utilization and notes** of a machine type for an activity.
- Mark the check boxes of the activities.
- Click on the button **OK**.

Machine type properties during allocation

During the allocation you can refine role properties by controlling and defining the following values for each activity:

- Number of machine type
- Usage of machine type
- Notes concerning a machine type

Activity selection

During the assignment you can determine the activity list by activating /deactivating the following options:

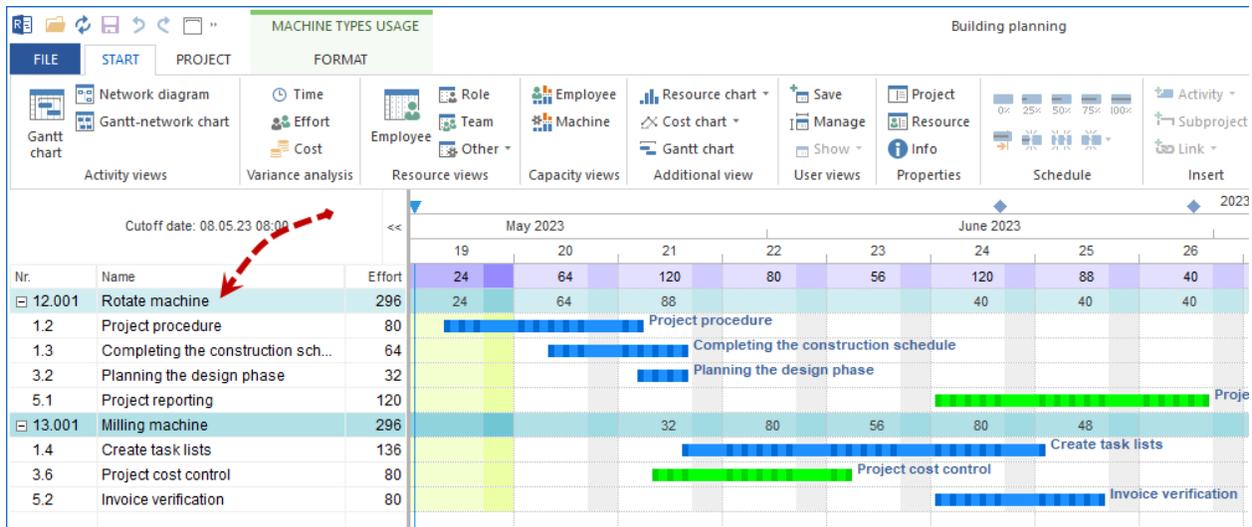
- **Assigned activities only** lists only assigned activities.

Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Machine type and column Date, you will only receive the displayed activities that were defined for this particular time period.

5.3.12 Machine types Resource properties

If you click on a row in the table at a machine type view, you can display detailed information about the machine type in the properties window.



The machine type information can be tracked on the following tabs:

- Activities
- Machine types

Activities

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Machine type	Quantity	Utilization	Notes
<input type="checkbox"/>	3.2 Planning the design phase	Phase 2	Duration	32	23.05.23 08:00	26.05.23 17:00	13.001 Milling machine			
<input type="checkbox"/>	3.5 Setting up the project monitoring	Phase 2	Duration	40	24.05.23 08:00	30.05.23 17:00	13.001 Milling machine			
<input checked="" type="checkbox"/>	3.6 Project cost control	Phase 2	Duration	80	24.05.23 08:00	06.06.23 17:00	13.001 Milling machine	1	100	
<input type="checkbox"/>	3.3 Building planning presentation	Phase 2	Duration	48	24.05.23 08:00	31.05.23 17:00	13.001 Milling machine			
<input type="checkbox"/>	3.4 Set up the document control	Phase 2	Duration	40	24.05.23 08:00	30.05.23 17:00	13.001 Milling machine			
<input checked="" type="checkbox"/>	1.4 Create task lists	Phase 1	Duration	136	26.05.23 08:00	19.06.23 17:00	13.001 Milling machine	1	100	

In the **No.** column you can assign the activities to the selected machine type by selecting it.

More information about the activities is available here.

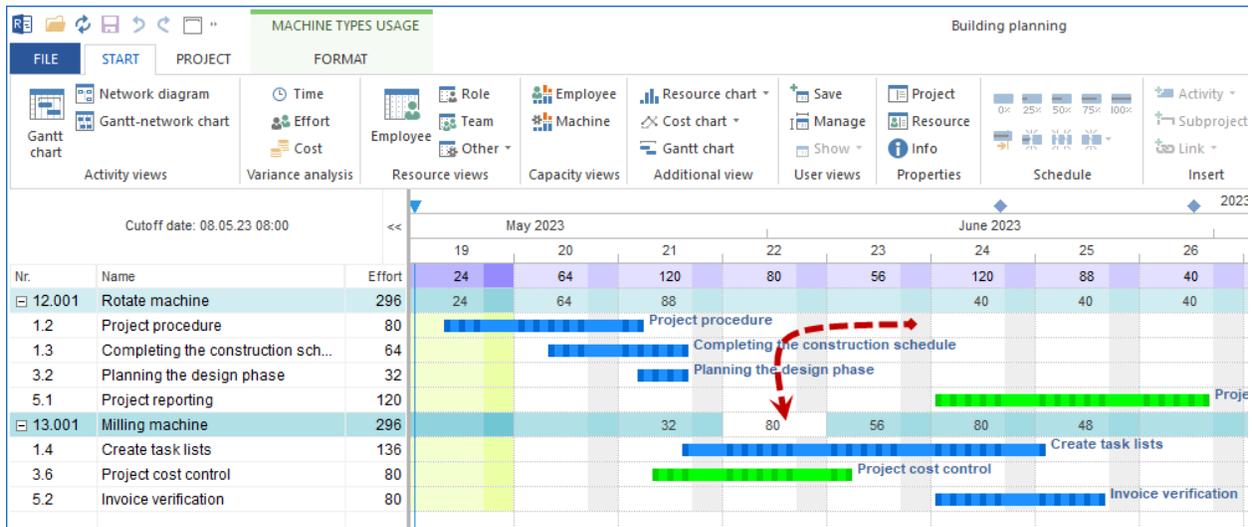
The option **Only assigned activities** reduces the activity list to the activities that have already been assigned.

Machine types

Nr.	Machine groups	Code	Machine type	Unit	Costs	Notes
13.001	Milling machine				90.00	

You can see the properties of the machine type entered in the resource pool from the tab.

Activities on specific date



You can filter out activities that are due on a certain date. If you click with the left mouse button on a cell which is a result of the machine type line and the date column, you will only get the activities that are in question for the selected period.

Properties

13.001 Name: Milling machine Code: _____

Activities

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Machine type	Quantity	Utilization	Notes
<input checked="" type="checkbox"/> 3.6	Project cost control	Phase 2	Duration	80	24.05.23 08:00	06.06.23 17:00	13.001 Milling machine	1	100	
<input checked="" type="checkbox"/> 1.4	Create task lists	Phase 1	Duration	136	26.05.23 08:00	19.06.23 17:00	13.001 Milling machine	1	100	

Only assigned activities

5.3.13 Assign activities to machines in the view Machine usage

Important! A project schedule, which includes activities and the machines required in the resource pool should already been set up.

In order to assign activities to a machine, do the following:

- Select the view **Start > Resource views > Machine**.
- Select the menu item **Start > Edit > Filter**.

The dialogue box **Filter** opens.

The screenshot shows the 'MACHINERY USAGE' window for a project named '2016_2_soft'. The main view is a Gantt chart for February 2016, showing resource usage for various activities. The activities are grouped by machinery (12.01 machine 1 and 13.01 machine 2). The detailed view for activity 1.2.4 'software development files' is shown below the chart, listing sub-activities with their durations and machine assignments.

Nr.	Name	Subproject	Duration	Start	Finish	Machine type	A...	Util...	Notes
<input type="checkbox"/>	1.1.3	software installation planning	project planning and oversight	34	08.02.16 16:00	15.02.16 09:00	12.01 machine 1	0	
<input checked="" type="checkbox"/>	1.1.5	following and updating plans	project planning and oversight	10	15.02.16 09:00	16.02.16 11:00	12.01 machine 1	0	100
<input checked="" type="checkbox"/>	1.7	unit integration and testing	software development proc...	26	11.03.16 08:00	16.03.16 10:00	12.01 machine 1	0	100
<input type="checkbox"/>	1.6.2	unit testing	software implementation an...	31	11.03.16 08:00	16.03.16 16:00	12.01 machine 1	0	
<input type="checkbox"/>	1.8	qualification testing	software development proc...	21	16.03.16 10:00	18.03.16 16:00	12.01 machine 1	100	

- Mark the check boxes of the activities.
- Among others, you can define the **machine usage** for an activity.
- Mark the check boxes of the activities.
- Click on the button **OK**.

Machine properties during assignment

During the assignment you can refine machine properties by controlling and defining the following values for each activity:

- Availability of a machine
- Usage of a machine
- Notes concerning a machine.

Activity selection

During the assignment you can determine the activity list by activating/deactivating the following options:

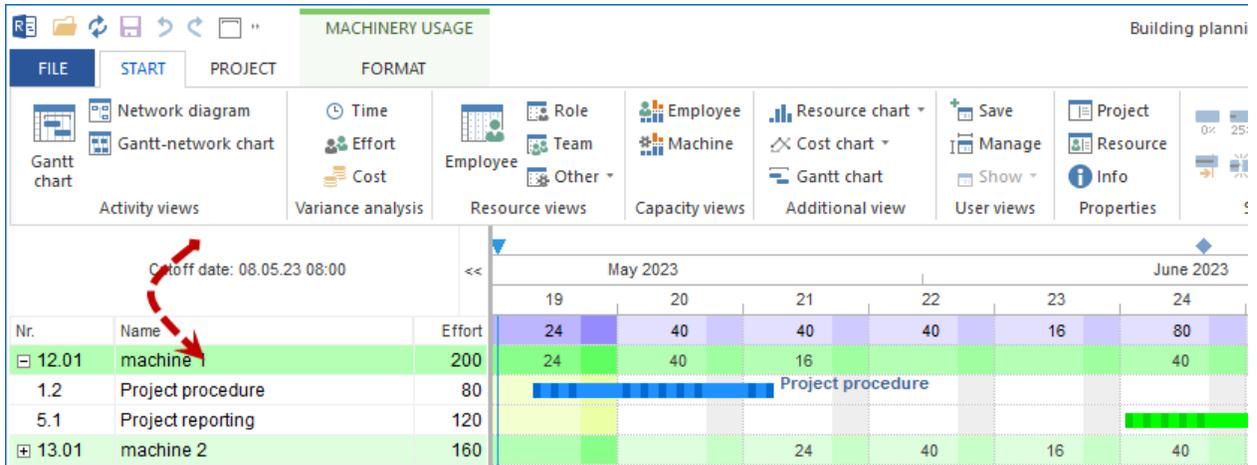
- **Assigned activities only** lists only assigned activities.

Activities at a specific date

You can filter activities that are due at a specific date. If you leftclick on a cell showing the result from the row Machine and column Date, you will only receive the displayed activities that were defined for this particular time period.

5.3.14 Machinery properties

If you click on a row in the table at a machine view, you can display detailed information about the machine in the properties window.



The machine information can be tracked on the following tabs:

- Activities
- Machine
- Team members

Activities

The 'Properties' window shows the 'Activities' tab for machine 12.01. The table lists activities with checkboxes in the 'No.' column.

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Machine type	Availability	Utilization	Notes	
<input checked="" type="checkbox"/>	1.2	Project procedure	Phase 1	Duration	80	10.05.23 08:00	23.05.23 17:00	12.01 machine 1	0	100	
<input type="checkbox"/>	1.3	Completing the construction schedule	Phase 1	Duration	64	17.05.23 08:00	26.05.23 17:00	12.01 machine 1	0		
<input type="checkbox"/>	3.2	Planning the design phase	Phase 2	Duration	32	23.05.23 08:00	26.05.23 17:00	12.01 machine 1	0		
<input checked="" type="checkbox"/>	5.1	Project reporting	Phase 3	Duration	120	12.06.23 08:00	30.06.23 17:00	12.01 machine 1	0	100	

In the **No.** column, you can assign the activities to the selected machine by marking them.

This provides you with further information about the activities.

The option **Only assigned activities** reduces the activity list to the activities already assigned.

Only activities with matching role only those activities are listed to which a role exercised by the machine is already assigned.

Machine

The 'Properties' window shows the 'Machine' tab for machine 12.01. The table lists machine details with a highlighted row for 'machine 1'.

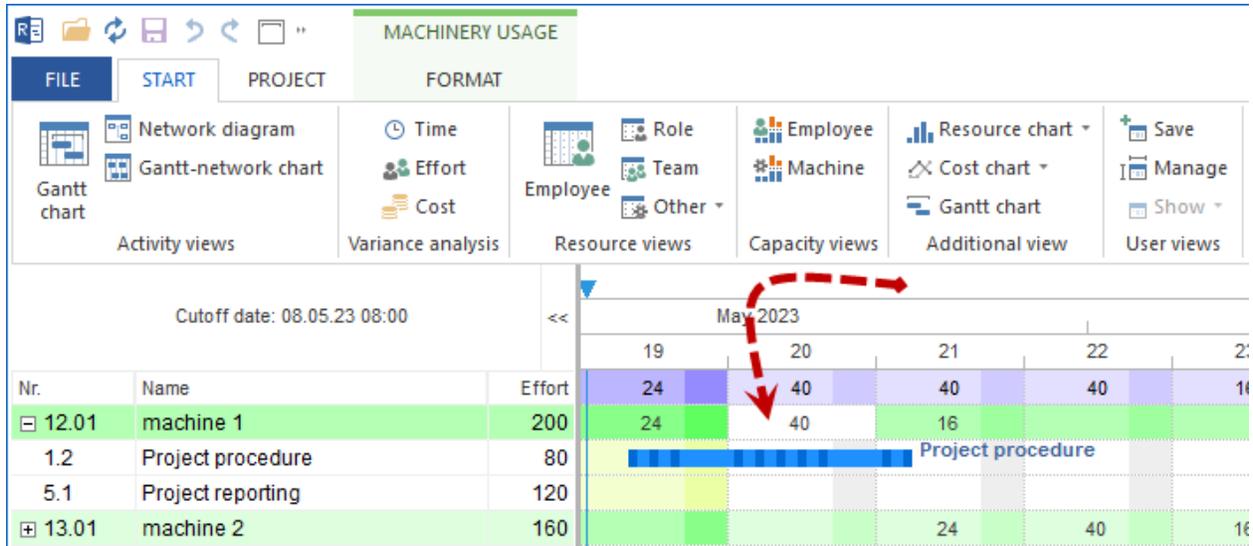
Nr.	Machine name	Code	Working group - team	Machine group - Machine type	Costs	Notes
12.01	machine 1			12.001 Rotate machine	85,00	

On the tab, you can see the characteristics of a machine entered in the resource pool, including its machine type.

Team members

The tab lists other machines with their properties from the resource pool if the machines are grouped into a team.

Activities on specific date



You can filter out transactions that are due in a certain period of time. If you click with the left mouse button on a cell that is a result of the machine row and the date column, you will only see the activities that come into question for the selected period.

Nr.	Name	Subproject	Fixed	Duration	Start	Finish	Machine type	Availability	Utilization	Notes
<input checked="" type="checkbox"/> 1.2	Project procedure	Phase 1	Duration	80	10.05.23 08:00	23.05.23 17:00	12.01 machine 1	0	100	
<input type="checkbox"/> 1.3	Completing the construction schedule	Phase 1	Duration	64	17.05.23 08:00	26.05.23 17:00	12.01 machine 1	0		

5.3.15 Resource utilization

Information about activities to which the resources have been allocated. In all views of Resource Usage, such as

- Role
- Team
- Employee
- Machine types
- Machinery
- Material

you can view the activities that cause the utilization from the opened project as well as the portfolio.

In order to view an overview of the activities, do as follows:

- Click on a cell that shows the resource allocation. The window Object properties with the subordinated activities appears in the lower part of the program window.

The screenshot shows the 'EMPLOYEE USAGE' window for a project named 'new_software development process'. The main area is a Gantt chart for February 2016, showing resource allocation for employee 'Sleeper' (16.02). The chart displays various activities with their durations and start/finish dates. A red bar indicates an overload of the employee. A Properties window is open at the bottom, showing a list of activities for 'Sleeper'.

Nr.	Name	Effort
13.02	Tidy	25
1.7	following and updating plans	15
2.2	software test environment	10
16.02	Sleeper	58
1.1	software development planning	18
2.1	software engineering environment	40
20.02	Think	38
1.2	system test planning	38

Nr.	Name	Subproject	Duration	Start	Finish	Role	B...	O...	A...	Pr...	Util...	A...	Effort	Notes
1.5	software transition planning	project planning and oversight	18	05.02.16 08:00	09.02.16 10:00	14.001 designer	-1...	100	100					
1.5	software transition planning	project planning and oversight	18	05.02.16 08:00	09.02.16 10:00	11.001 programmer...	0	100	100					
1.1.4(2016_2_soft)	software transition planning	project planning and oversight	17	08.02.16 16:00	10.02.16 17:00									
1.1.4(2016_2_soft)	software transition planning	project planning and oversight	17	08.02.16 16:00	10.02.16 17:00						100		17	
1.6	software transition planning	project planning and oversight	5	09.02.16 10:00	09.02.16 16:00	14.001 designer	-4	100	100					

- These activities are displayed not as bars in the diagram, but as list in the Properties window.
- The overload of an employee, which happens because of simultaneous assignments in other projects, is marked in red.
- It will become significant if the assigned employees or allocated machines are not only participating in the actual project, but are also the part of other projects within the company.

Tip You can select a portfolio for a project, by

- Clicking on a vacancy of the Gantt chart area

The screenshot displays the 'EMPLOYEE USAGE' window for the 'new_software development process'. The main area shows a calendar for February 2016 with resource usage bars for various employees. A list on the left shows activities like 'following and updating plans' and 'software test environment'. Below the calendar, a 'Selected portfolio' dropdown is set to '2016 portfolio'. A 'Portfolio dashboard' tab is active, showing a table of projects:

Name	Locked	Completed	Code	Category	Priority	Status	Start	Finish
software development process	Optimistic	15			100		25.11.10 00:00	26.01.11 14:00
Project1 (Project resources)	Optimistic	0			100		26.01.16 00:00	16.02.16 00:00
new_software development process	Optimistic	0			100		27.01.16 00:00	29.03.16 14:00
Project2	Optimistic	0			100		02.02.16 00:00	23.02.16 00:00
2016_2_soft	Optimistic	0			100		03.02.16 00:00	24.02.16 00:00

- click on button  in the properties window and select portfolio from the list
- all projects of the portfolio are listed in the tab **portfolio dashboard**.

5.4 Automatically assign resources

5.4.1 Assign employees to activities

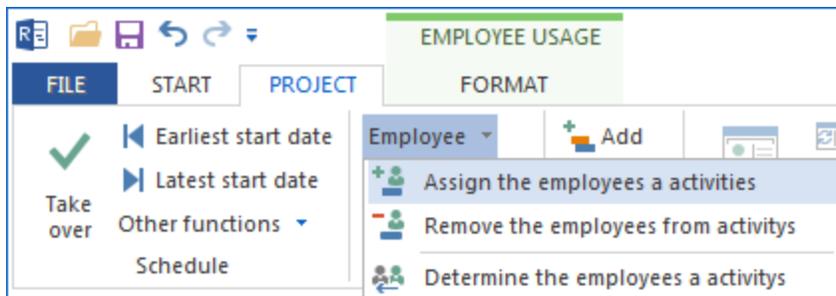
Requirements: In order to assign employees to activities, at first you need to assign personnel resources in the form of roles.

The automatic staff assignment consists of three steps:

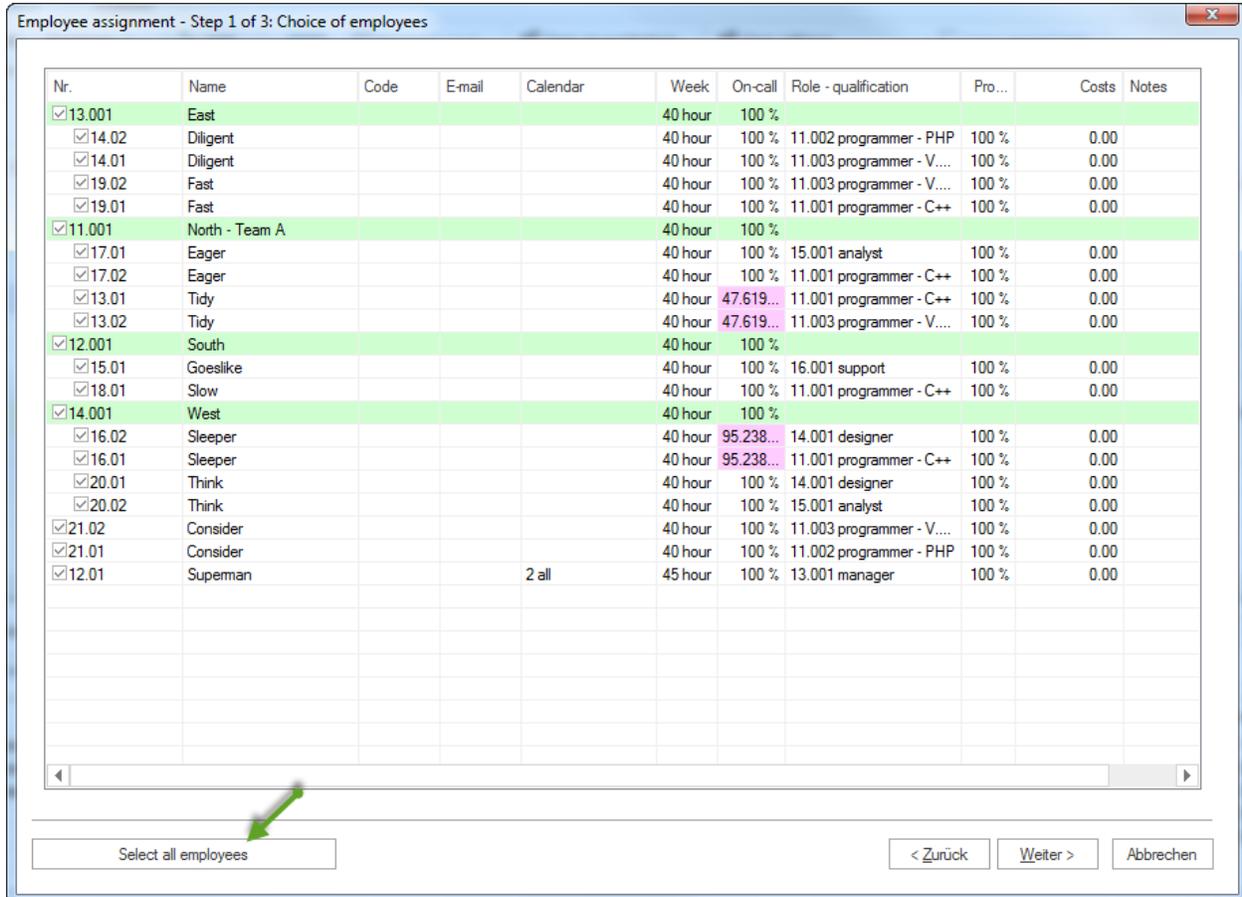
1. Select employees
2. Select activities
3. Assign employees

In order to assign employees to activities semi-automatically, please follow these steps:

- Select the menu item **Project > Employee > Assign employees to activities**.



The dialogue box **Employee assignment - Step 1 of 3: Choice of employees** opens.



The list includes all the employees you can assign to activities or reassign to other activities by selecting them in Step 1.

Employees are grouped together in teams, while employees not being part of a team are shown at the lower end of the list.

- **Calendar** - predefined calendar of the employee.
- **Week** - average working hours per week.
- **On-call** - percentage of the possible working capacity of an employee within project duration, adjusted for the reported non-working days (holidays/sickness).
- Click the check boxes of the employees you would like to assign to activities in the column **No.**. You may also click on the button **Select all**.

- Click on the button **Continue**. The dialogue box **Employee assignment - Step 2 of 3: Choice of activities** opens.

Employee assignment - Step 2 of 3: Choice of activities

Nr.	Name	Completed	Duration	Start	Finish
<input checked="" type="checkbox"/>	new_software development process			27.01.16 08:00	29.03.16 14:00
<input checked="" type="checkbox"/>	4 system design	0	42	01.03.16 15:00	08.03.16 17:00
<input checked="" type="checkbox"/>	5 software requirements analysis	0	30	01.03.16 15:00	07.03.16 12:00
<input checked="" type="checkbox"/>	7 unit integration and testing	0	26	09.03.16 08:00	14.03.16 10:00
<input checked="" type="checkbox"/>	8 qualification testing	0	21	14.03.16 10:00	16.03.16 16:00
<input checked="" type="checkbox"/>	9 system qualification testing	0	28	16.03.16 16:00	22.03.16 11:00
<input checked="" type="checkbox"/>	10 software configuration management	0	21	16.03.16 16:00	21.03.16 12:00
<input checked="" type="checkbox"/>	11 software product evaluation	0	34	22.03.16 11:00	28.03.16 14:00
<input checked="" type="checkbox"/>	12 End	0	0	29.03.16 14:00	29.03.16 14:00
<input checked="" type="checkbox"/>	1 project planning and oversight			27.01.16 08:00	15.02.16 11:00
<input checked="" type="checkbox"/>	1.1 software development planning	0	18	27.01.16 08:00	29.01.16 10:00
<input checked="" type="checkbox"/>	1.2 system test planning	0	38	27.01.16 08:00	02.02.16 15:00
<input checked="" type="checkbox"/>	1.3 software installation planning	0	9	02.02.16 15:00	03.02.16 16:00
<input checked="" type="checkbox"/>	1.5 software transition planning	0	18	05.02.16 08:00	09.02.16 10:00
<input checked="" type="checkbox"/>	1.7 following and updating plans	0	15	11.02.16 13:00	15.02.16 11:00
<input checked="" type="checkbox"/>	1.6 software transition planning	0	5	09.02.16 10:00	09.02.16 16:00
<input checked="" type="checkbox"/>	1.4 software installation planning	0	36	05.02.16 08:00	11.02.16 12:00
<input checked="" type="checkbox"/>	2 establishing a software development environment			15.02.16 11:00	26.02.16 11:00
<input checked="" type="checkbox"/>	2.1 software engineering environment	0	40	15.02.16 11:00	22.02.16 11:00
<input checked="" type="checkbox"/>	2.2 software test environment	0	10	15.02.16 11:00	16.02.16 14:00
<input checked="" type="checkbox"/>	2.3 software development library	0	21	15.02.16 11:00	17.02.16 17:00
<input checked="" type="checkbox"/>	2.4 software development files	0	36	18.02.16 08:00	24.02.16 12:00
<input checked="" type="checkbox"/>	2.5 non-deliverable software	0	15	24.02.16 13:00	26.02.16 11:00
<input checked="" type="checkbox"/>	3 system requirements analysis			26.02.16 11:00	07.03.16 09:00
<input checked="" type="checkbox"/>	3.1 analysis of user input	0	19	26.02.16 11:00	01.03.16 15:00
<input checked="" type="checkbox"/>	3.2 operational concept	0	27	01.03.16 15:00	07.03.16 09:00
<input checked="" type="checkbox"/>	3.3 system requirements	0	15	01.03.16 15:00	03.03.16 14:00
<input checked="" type="checkbox"/>	6 software implementation and unit testing			09.03.16 08:00	15.03.16 17:00
<input checked="" type="checkbox"/>	6.1 software implementation	0	40	09.03.16 08:00	15.03.16 17:00

Select all activities

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This list provides you with all the activities you can later assign employees to.

- The activities provided for selection reflect the structure of the project.
- Click on the check boxes for the activities to whom you want to assign employees. You may also click on the button **Select all**.
- Click on the button **Continue**. The dialogue box **Employee assignment - Step 3 of 3: Assigning activities to employees** opens.

Employee assignment - Step 3 of 3: Assigning activities to employees

Nr.	Name	On-call	Role/quantity-effort	Start	Finish	Pro...	Costs	Notes
<input type="checkbox"/> 2.1	software engineering environ...	100 %	0 Ph	15.02.16 11:00	22.02.16 11:00			
<input type="checkbox"/> 2.3	software development library	100 %	0 Ph	15.02.16 11:00	17.02.16 17:00			
<input type="checkbox"/> 2.5	non-deliverable software	100 %	0 Ph	24.02.16 13:00	26.02.16 11:00			
<input type="checkbox"/> 3.3	system requirements	100 %	0 Ph	01.03.16 15:00	03.03.16 14:00			
<input type="checkbox"/> 4	system design	100 %	0 Ph	01.03.16 15:00	08.03.16 17:00			
<input type="checkbox"/> 8	qualification testing	100 %	0 Ph	14.03.16 10:00	16.03.16 16:00			
<input type="checkbox"/> 10	software configuration manag...	100 %	0 Ph	16.03.16 16:00	21.03.16 12:00			
<input type="checkbox"/> 11	software product evaluation	100 %	0 Ph	22.03.16 11:00	28.03.16 14:00			
<input checked="" type="checkbox"/> 15.01	Goeslike	100 %	16.001 support			100 %	0.00	
<input checked="" type="checkbox"/> 7	unit integration and testing	100 %	26 Ph	09.03.16 08:00	14.03.16 10:00			
<input checked="" type="checkbox"/> 8	qualification testing	100 %	21 Ph	14.03.16 10:00	16.03.16 16:00			
<input checked="" type="checkbox"/> 9	system qualification testing	100 %	28 Ph	16.03.16 16:00	22.03.16 11:00			
<input checked="" type="checkbox"/> 14.02	Diligent	100 %	11.002 programmer - PHP			100 %	0.00	
<input checked="" type="checkbox"/> 2.1	software engineering environ...	100 %	40 Ph	15.02.16 11:00	22.02.16 11:00			
<input type="checkbox"/> 2.4	software development files	100 %	1 * 36 Ph	18.02.16 08:00	24.02.16 12:00			
<input type="checkbox"/> 14.01	Diligent	100 %	11.003 programmer - V.Basic			100 %	0.00	
<input type="checkbox"/> 1.7	following and updating plans	100 %	0 Ph	11.02.16 13:00	15.02.16 11:00			
<input type="checkbox"/> 2.1	software engineering environ...	100 %	0 Ph	15.02.16 11:00	22.02.16 11:00			
<input type="checkbox"/> 2.2	software test environment	100 %	0 Ph	15.02.16 11:00	16.02.16 14:00			
<input type="checkbox"/> 5	software requirements analysis	100 %	0 Ph	01.03.16 15:00	07.03.16 12:00			
<input type="checkbox"/> 7	unit integration and testing	100 %	0 Ph	09.03.16 08:00	14.03.16 10:00			
<input type="checkbox"/> 10	software configuration manag...	100 %	0 Ph	16.03.16 16:00	21.03.16 12:00			
<input type="checkbox"/> 13.02	Tidy	47.619...	11.003 programmer - V.Basic			100 %	0.00	
<input type="checkbox"/> 1.7	following and updating plans	100 %	0 Ph	11.02.16 13:00	15.02.16 11:00			
<input type="checkbox"/> 2.1	software engineering environ...	100 %	0 Ph	15.02.16 11:00	22.02.16 11:00			
<input type="checkbox"/> 2.2	software test environment	100 %	0 Ph	15.02.16 11:00	16.02.16 14:00			
<input type="checkbox"/> 5	software requirements analysis	0 %	0 Ph	01.03.16 15:00	07.03.16 12:00			
<input type="checkbox"/> 7	unit integration and testing	0 %	0 Ph	09.03.16 08:00	14.03.16 10:00			
<input type="checkbox"/> 10	software configuration manag...	0 %	0 Ph	16.03.16 16:00	21.03.16 12:00			

Automatically assign employees

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This list includes all the selected employees you can assign to the selected activities in Step 3.

Employees can be assigned to an activity if their role and qualification meet the demands of the activity.

Assignations are automatically evaluated and have an effect on succeeding activities (white: assignation possible, grey: assignation not possible as already covered by an employee, red: assignation possible, but time conflicts occur).

- **On-call** - percentage of the possible working capacity of an employee within activity duration, adjusted for the reported non-working days (holidays/sickness).
- **Role** - role of the employee.
- **Effort** - number of required employees for the activity and effort.
- **Start** - scheduled start of the activity.
- **Finish** - scheduled finish of the activity.
- Click on the check box for the activity you want to assign to an employee (for instance, because the employee can be on-call for 100% of the total activity duration). Assignation options are dynamically adjusted.

Note: During assignation we recommend you to use the following strategy to avoid resources overload: first, assign activities to employees who can cover activities at 100% (column **On-call**) and productivity at 100%.

- Repeat Step 6, if necessary. You may also click on the button **Assign employees automatically**.
- Click on the button **Finish**.

Important! Possible conflicts and overloads are indicated in red, and there is no automatic assignment.

- **On-call** - percentage of the possible working capacity of an employee within project duration, adjusted for the reported non-working days (holidays/sickness).
- Select the check boxes by the employees in the **No.** column that you want to deduct from activities. You may also click on the button **Select all**.
- Click on the button **Continue**. The dialogue box **Employee deduction - Step 1 of 2: Choice of activities** opens.

Employee deduction - Step 2 of 2: Choice of activities

Nr.	Name	Completed	Effort	Duration	Start	Finish
<input type="checkbox"/>	Building planning				08.05.23 08:00	24.07.23 12:00
<input checked="" type="checkbox"/> 2	Invoicing for phase 1	0	0	0	29.06.23 17:00	29.06.23 17:00
<input checked="" type="checkbox"/> 4	Invoicing for phase 2	0	0	0	16.06.23 17:00	16.06.23 17:00
<input checked="" type="checkbox"/> 6	Invoicing for phase 3	0	0	0	20.07.23 17:00	20.07.23 17:00
<input checked="" type="checkbox"/> 7	End of the planning	0	0	0	24.07.23 12:00	24.07.23 12:00
<input checked="" type="checkbox"/> 1	Phase 1				08.05.23 08:00	29.06.23 17:00
<input type="checkbox"/> 1.1	Cost estimate	100	16	1	08.05.23 08:00	08.05.23 17:00
<input checked="" type="checkbox"/> 1.2	Project procedure	0	80	10	10.05.23 08:00	23.05.23 17:00
<input checked="" type="checkbox"/> 1.3	Completing the construction schedule	0	128	8	17.05.23 08:00	26.05.23 17:00
<input checked="" type="checkbox"/> 1.4	Create task lists	0	136	17	26.05.23 08:00	19.06.23 17:00
<input checked="" type="checkbox"/> 1.5	Order	0	152	19	05.06.23 08:00	29.06.23 17:00
<input checked="" type="checkbox"/> 3	Phase 2				10.05.23 08:00	16.06.23 17:00
<input checked="" type="checkbox"/> 3.1	Create the order plan	20	80	5	10.05.23 08:00	16.05.23 17:00
<input checked="" type="checkbox"/> 3.2	Planning the design phase	0	32	4	23.05.23 08:00	26.05.23 17:00
<input checked="" type="checkbox"/> 3.3	Building planning presentation	0	96	6	24.05.23 08:00	31.05.23 17:00
<input checked="" type="checkbox"/> 3.4	Set up the document control	0	40	5	24.05.23 08:00	30.05.23 17:00
<input checked="" type="checkbox"/> 3.5	Setting up the project monitoring	0	40	5	24.05.23 08:00	30.05.23 17:00
<input checked="" type="checkbox"/> 3.6	Project cost control	0	80	10	24.05.23 08:00	06.06.23 17:00
<input checked="" type="checkbox"/> 3.7	Complete the request list	0	160	10	05.06.23 08:00	16.06.23 17:00
<input checked="" type="checkbox"/> 5	Phase 3				12.06.23 08:00	20.07.23 17:00
<input checked="" type="checkbox"/> 5.1	Project reporting	0	120	15	12.06.23 08:00	30.06.23 17:00

Select all < Zurück Fertig stellen Abbrechen Hilfe

This list shows you all the activities of the project or portfolio.

- The activities offered for selection reflect the structure of the project.
- Click on the check box for the activity from which you want to subtract the employees. You may also click on the button **Select all**.
- Click on the button **Finish**.

5.4.3 Assign machinery to activities

Requirements: In order to assign machines to activities, at first you need to assign personnel resources in the form of roles.

In order to assign machines to activities semi-automatically, please follow these steps:

- Select the menu item **Project > Machine > Assign machines to activities**.

Machine assignment - Step 2 of 3: Choice of activities

Nr.	Name	Completed	Effort	Duration	Start	Finish
<input type="checkbox"/>	Building planning				08.05.23 08:00	24.07.23 12:00
<input checked="" type="checkbox"/> 2	Invoicing for phase 1	0	0	0	29.06.23 17:00	29.06.23 17:00
<input checked="" type="checkbox"/> 4	Invoicing for phase 2	0	0	0	16.06.23 17:00	16.06.23 17:00
<input checked="" type="checkbox"/> 6	Invoicing for phase 3	0	0	0	20.07.23 17:00	20.07.23 17:00
<input checked="" type="checkbox"/> 7	End of the planning	0	0	0	24.07.23 12:00	24.07.23 12:00
<input checked="" type="checkbox"/> 1	Phase 1				08.05.23 08:00	29.06.23 17:00
<input type="checkbox"/> 1.1	Cost estimate	100	16	1	08.05.23 08:00	08.05.23 17:00
<input checked="" type="checkbox"/> 1.2	Project procedure	0	80	10	10.05.23 08:00	23.05.23 17:00
<input checked="" type="checkbox"/> 1.3	Completing the construction schedule	0	128	8	17.05.23 08:00	26.05.23 17:00
<input checked="" type="checkbox"/> 1.4	Create task lists	0	136	17	26.05.23 08:00	19.06.23 17:00
<input checked="" type="checkbox"/> 1.5	Order	0	152	19	05.06.23 08:00	29.06.23 17:00
<input checked="" type="checkbox"/> 3	Phase 2				10.05.23 08:00	16.06.23 17:00
<input type="checkbox"/> 3.1	Create the order plan	20	80	5	10.05.23 08:00	16.05.23 17:00
<input checked="" type="checkbox"/> 3.2	Planning the design phase	0	32	4	23.05.23 08:00	26.05.23 17:00
<input checked="" type="checkbox"/> 3.3	Building planning presentation	0	96	6	24.05.23 08:00	31.05.23 17:00
<input checked="" type="checkbox"/> 3.4	Set up the document control	0	40	5	24.05.23 08:00	30.05.23 17:00
<input checked="" type="checkbox"/> 3.5	Setting up the project monitoring	0	40	5	24.05.23 08:00	30.05.23 17:00
<input checked="" type="checkbox"/> 3.6	Project cost control	0	80	10	24.05.23 08:00	06.06.23 17:00
<input checked="" type="checkbox"/> 3.7	Complete the request list	0	160	10	05.06.23 08:00	16.06.23 17:00
<input checked="" type="checkbox"/> 5	Phase 3				12.06.23 08:00	20.07.23 17:00

Select all < Zurück Weiter > Abbrechen Hilfe

This list provides you with all the activities you can later assign machines to.

- The activities provided for selection reflect the structure of the project.
- Click on the check boxes for the activities to whom you want to assign machines. You may also click on the button **Select all**.
- Click on the button **Continue**. The dialogue box **Assigning machines - Step 3 of 3: Assigning machines to activities** opens.

Machine assignment - Step 3 of 3: Assigning activities to machinery

Nr.	Name	Machinery/quantity-effort	Start	Finish	Costs	Notes
<input checked="" type="checkbox"/> 12.01	machine 1	12.001 Rotate machine			85.00	
<input checked="" type="checkbox"/> 1.2	Project procedure	80 man-hour	10.05.23 08:00	23.05.23 17:00		
<input type="checkbox"/> 1.3	Completing the construction schedule	1 * 64 man-hour	17.05.23 08:00	26.05.23 17:00		
<input type="checkbox"/> 3.2	Planning the design phase	1 * 32 man-hour	23.05.23 08:00	26.05.23 17:00		
<input checked="" type="checkbox"/> 5.1	Project reporting	120 man-hour	12.06.23 08:00	30.06.23 17:00		
<input checked="" type="checkbox"/> 13.01	machine 2	13.001 Milling machine			90.00	
<input checked="" type="checkbox"/> 3.6	Project cost control	80 man-hour	24.05.23 08:00	06.06.23 17:00		
<input type="checkbox"/> 1.4	Create task lists	1 * 136 man-hour	26.05.23 08:00	19.06.23 17:00		
<input checked="" type="checkbox"/> 5.2	Invoice verification	80 man-hour	12.06.23 08:00	23.06.23 17:00		

Automatically assign machinery < Zurück Fertig stellen Abbrechen Hilfe

This list includes all the selected machines you can assign to the selected activities in Step 3.

Machines can be assigned to an activity if their group and type meet the demands of the activity.

Assignations are automatically evaluated and have an effect on succeeding activities (white: assignation possible, grey: assignation not possible as already covered by an machine, red: assignation possible, but time conflicts occur).

- **Machinery** - Machine type of the machine.
- **quantity-effort** - Quantity of machines required for the activity and effort.
- **Start** - Planned start of activity.
- **Finish** - Planned finish of activity.
- Click on the check box for the activity you want to assign to an machine. Assignation options are dynamically adjusted.
- Repeat Step 6, if necessary. You may also click on the button **Assign machines automatically**.
- Click on the button **Finish**.

Important! Possible conflicts and overloads are indicated in red, and there is no automatic assignation.

5.4.4 Remove machinery from activities

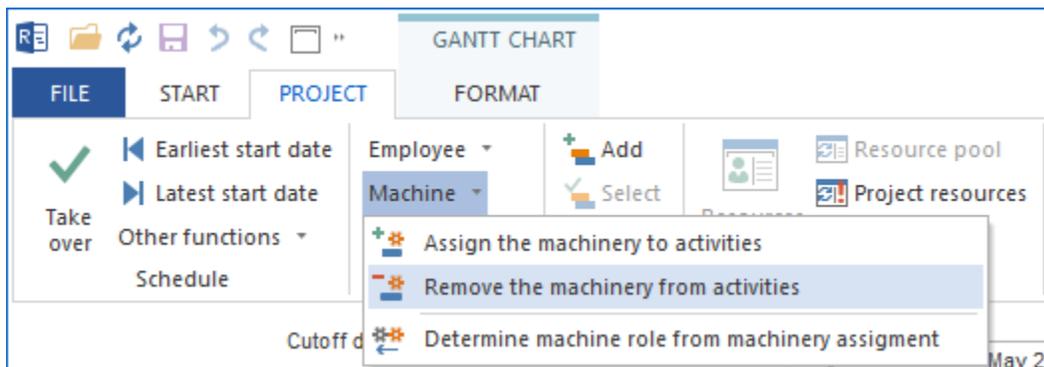
You can automatically remove the machines assigned to the activities.

Automatic removal from the machine park consists of two steps. 1:

1. select machine park resources
2. select activities

To automatically remove machinery from the activities, please follow these steps:

- Select the menu item **Project > Machine > Remove the machinery from activities**.



The dialogue box **Machine deduction - Step 1 of 2: Choice of machinery** opens.

Machine deduction - Step 2 of 2: Choice of activities

Nr.	Name	Completed	Effort	Duration	Start	Finish
<input type="checkbox"/>	Building planning				08.05.23 08:00	24.07.23 12:00
<input checked="" type="checkbox"/> 2	Invoicing for phase 1	0	0	0	29.06.23 17:00	29.06.23 17:00
<input checked="" type="checkbox"/> 4	Invoicing for phase 2	0	0	0	16.06.23 17:00	16.06.23 17:00
<input checked="" type="checkbox"/> 6	Invoicing for phase 3	0	0	0	20.07.23 17:00	20.07.23 17:00
<input checked="" type="checkbox"/> 7	End of the planning	0	0	0	24.07.23 12:00	24.07.23 12:00
<input checked="" type="checkbox"/> 1	Phase 1				08.05.23 08:00	29.06.23 17:00
<input type="checkbox"/> 1.1	Cost estimate	100	16	1	08.05.23 08:00	08.05.23 17:00
<input checked="" type="checkbox"/> 1.2	Project procedure	0	80	10	10.05.23 08:00	23.05.23 17:00
<input checked="" type="checkbox"/> 1.3	Completing the construction schedule	0	128	8	17.05.23 08:00	26.05.23 17:00
<input checked="" type="checkbox"/> 1.4	Create task lists	0	136	17	26.05.23 08:00	19.06.23 17:00
<input checked="" type="checkbox"/> 1.5	Order	0	152	19	05.06.23 08:00	29.06.23 17:00
<input checked="" type="checkbox"/> 3	Phase 2				10.05.23 08:00	16.06.23 17:00
<input checked="" type="checkbox"/> 3.1	Create the order plan	20	80	5	10.05.23 08:00	16.05.23 17:00
<input checked="" type="checkbox"/> 3.2	Planning the design phase	0	32	4	23.05.23 08:00	26.05.23 17:00
<input checked="" type="checkbox"/> 3.3	Building planning presentation	0	96	6	24.05.23 08:00	31.05.23 17:00
<input checked="" type="checkbox"/> 3.4	Set up the document control	0	40	5	24.05.23 08:00	30.05.23 17:00
<input checked="" type="checkbox"/> 3.5	Setting up the project monitoring	0	40	5	24.05.23 08:00	30.05.23 17:00
<input checked="" type="checkbox"/> 3.6	Project cost control	0	80	10	24.05.23 08:00	06.06.23 17:00
<input checked="" type="checkbox"/> 3.7	Complete the request list	0	160	10	05.06.23 08:00	16.06.23 17:00
<input checked="" type="checkbox"/> 5	Phase 3				12.06.23 08:00	20.07.23 17:00
<input checked="" type="checkbox"/> 5.1	Project reporting	0	120	15	12.06.23 08:00	30.06.23 17:00

Select all < Zurück Fertig stellen Abbrechen Hilfe

This list shows you all the activities of the project or portfolio.

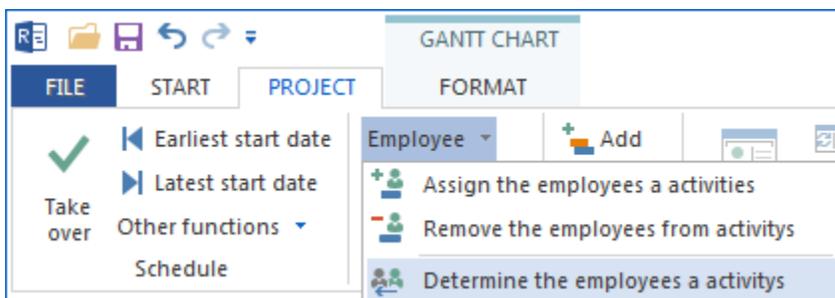
- The activities offered for selection reflect the structure of the project.
- Click on the check box for the activity from which you want to subtract the machines. You may also click on the button **Select all**.
- Click on the button **Finish**.

5.4.5 Identify roles from the employees assignment

If you have assigned employees to activities without assigning roles before this, you can identify the required roles from the employee assignment.

In order to identify roles from employee assignment, do as follows:

- Select the menu item **Project > Assistant > Employee > Identify roles from the employee assignment**.



The dialogue box **Identify roles from employee assignment - Step 1 of 1: Activities selection** opens.

Employee mapping roles determine - Step 1 of 1: Choice of Activities

Nr.	Name	Completed	Duration	Start	Finish
<input checked="" type="checkbox"/>	new_software development process			27.01.16 08:00	29.03.16 14:00
<input checked="" type="checkbox"/> 4	system design	0	42	01.03.16 15:00	08.03.16 17:00
<input checked="" type="checkbox"/> 5	software requirements analysis	0	30	01.03.16 15:00	07.03.16 12:00
<input checked="" type="checkbox"/> 7	unit integration and testing	0	26	09.03.16 08:00	14.03.16 10:00
<input checked="" type="checkbox"/> 8	qualification testing	0	21	14.03.16 10:00	16.03.16 16:00
<input checked="" type="checkbox"/> 9	system qualification testing	0	28	16.03.16 16:00	22.03.16 11:00
<input checked="" type="checkbox"/> 10	software configuration management	0	21	16.03.16 16:00	21.03.16 12:00
<input checked="" type="checkbox"/> 11	software product evaluation	0	34	22.03.16 11:00	28.03.16 14:00
<input checked="" type="checkbox"/> 12	End	0	0	29.03.16 14:00	29.03.16 14:00
<input checked="" type="checkbox"/> 1	project planning and oversight			27.01.16 08:00	15.02.16 11:00
<input checked="" type="checkbox"/> 1.1	software development planning	0	18	27.01.16 08:00	29.01.16 10:00
<input checked="" type="checkbox"/> 1.2	system test planning	0	38	27.01.16 08:00	02.02.16 15:00
<input checked="" type="checkbox"/> 1.3	software installation planning	0	9	02.02.16 15:00	03.02.16 16:00
<input checked="" type="checkbox"/> 1.5	software transition planning	0	18	05.02.16 08:00	09.02.16 10:00
<input checked="" type="checkbox"/> 1.7	following and updating plans	0	15	11.02.16 13:00	15.02.16 11:00
<input checked="" type="checkbox"/> 1.6	software transition planning	0	5	09.02.16 10:00	09.02.16 16:00
<input checked="" type="checkbox"/> 1.4	software installation planning	0	36	05.02.16 08:00	11.02.16 12:00
<input checked="" type="checkbox"/> 2	establishing a software development environment			15.02.16 11:00	26.02.16 11:00
<input checked="" type="checkbox"/> 2.1	software engineering environment	0	40	15.02.16 11:00	22.02.16 11:00
<input checked="" type="checkbox"/> 2.2	software test environment	0	10	15.02.16 11:00	16.02.16 14:00
<input checked="" type="checkbox"/> 2.3	software development library	0	21	15.02.16 11:00	17.02.16 17:00
<input checked="" type="checkbox"/> 2.4	software development files	0	36	18.02.16 08:00	24.02.16 12:00
<input checked="" type="checkbox"/> 2.5	non-deliverable software	0	15	24.02.16 13:00	26.02.16 11:00
<input checked="" type="checkbox"/> 3	system requirements analysis			26.02.16 11:00	07.03.16 09:00
<input checked="" type="checkbox"/> 3.1	analysis of user input	0	19	26.02.16 11:00	01.03.16 15:00
<input checked="" type="checkbox"/> 3.2	operational concept	0	27	01.03.16 15:00	07.03.16 09:00
<input checked="" type="checkbox"/> 3.3	system requirements	0	15	01.03.16 15:00	03.03.16 14:00
<input checked="" type="checkbox"/> 6	software implementation and unit testing			09.03.16 08:00	15.03.16 17:00
<input checked="" type="checkbox"/> 6.1	software implementation	0	40	09.03.16 08:00	15.03.16 17:00

Select all activities

Fertig stellen Abbrechen

It lists all activities you can select from.

- Mark the check boxes of the activities you want to select in the column **Number**.
- Click on the button **Finish**.

Note:

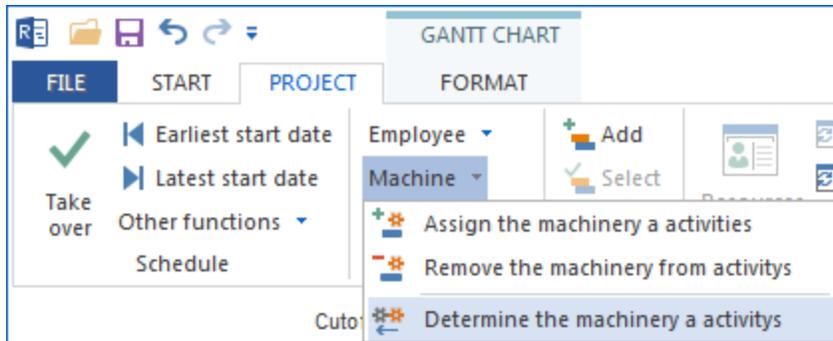
- You can click on the button **Select all activities** to mark all activities at a time.

5.4.6 Identify machine types from machine allocation

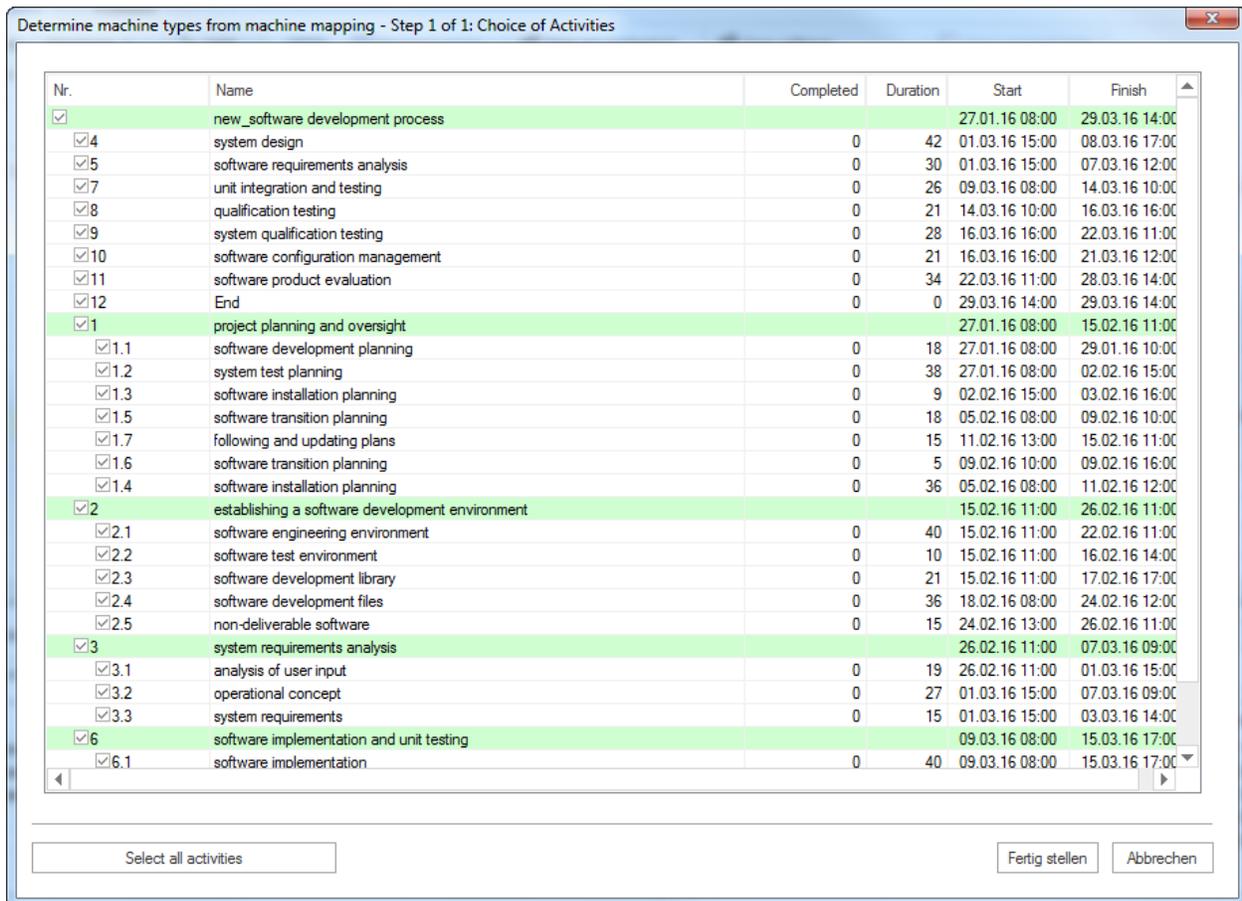
If you have allocated machines to activities without having previously allocated machine types, you can identify the required machine types from the machine allocation.

In order to identify machine types from machine allocation, do as follows:

- Select the menu item *Project > Assistant > Employee > Machine > Identify machine types from machine allocation**.



The dialogue box **Identify machine types from machine allocation - Step 1 of 1: Selection of activities** opens.



It lists all activities you can select from.

- Mark the check boxes of the activities in the column Number you want to select.
- Click on the button **Finish**.

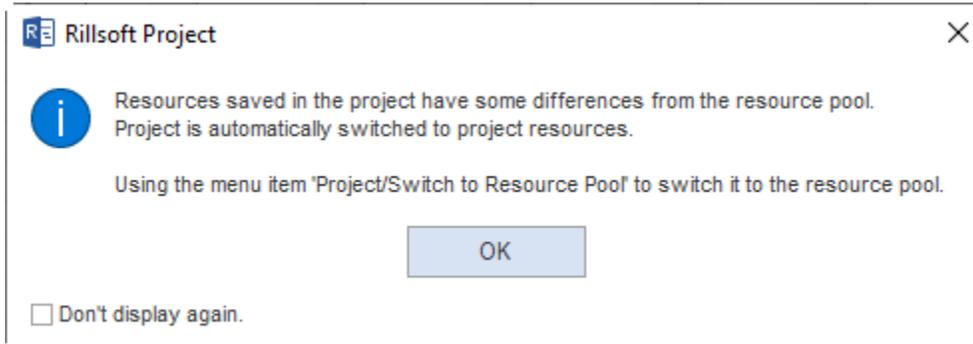
Note:

- You can click on the button **Select all activities** to mark all activities at a time.

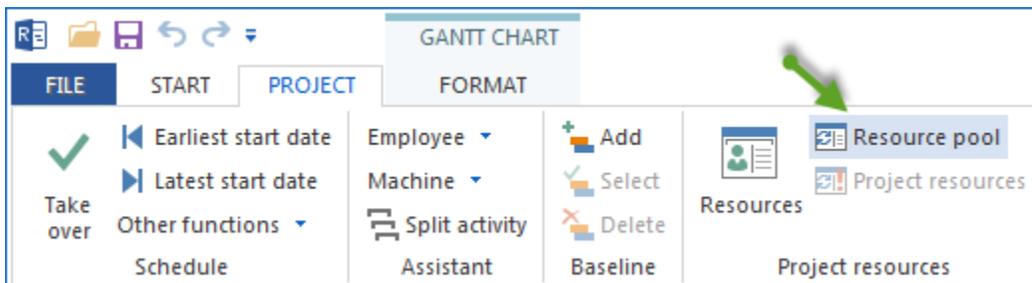
5.5 Synchronize resources

5.5.1 Shift to resource pool

It may be that the resources used in a project differ from those in the resource pool file, because project resources are saved with the project. In this case, you can shift the project resources to the resource pool.



In order to align the resources, do as follows: Select the menu item **Project > Project resource > to Resource pool**



The dialogue **Choose between project resources and resource pool** will open if there are differences in resources. The first row shows the entries from the resource pool, the second row - from the project resources.

Choice of Project Resources and Resource Pool

Use resource pool
 Replace resource pool project resources (via code)
 Manual resource selection

Calendar (2 Diff.) Roles (11 Diff.) Team (1 Diff.)

Nr.	Name	Sunday	Monday	Tuesday	Wednes...	Thursday	Friday	Saturday	Exceptions	Notes
1	Standard Standard		08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0		08.08.08' 08.08.08'	5-days- and 4h.-Week
21	Fund Rai...		08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0	08:00-12:0 08:00-12:0			

- **Take a minute to decide which of the following options you want to use for your work.**
 - Choose the option **Use resource pool** to use the resource pool.
 - Choose the option **Replace project resources with resource pool (per code)** to replace the differing project resources data with those of the resource pool.
 - Choose the option **Manual selection of resources** to select manually for each deviating item.
- Click on the button **OK**.

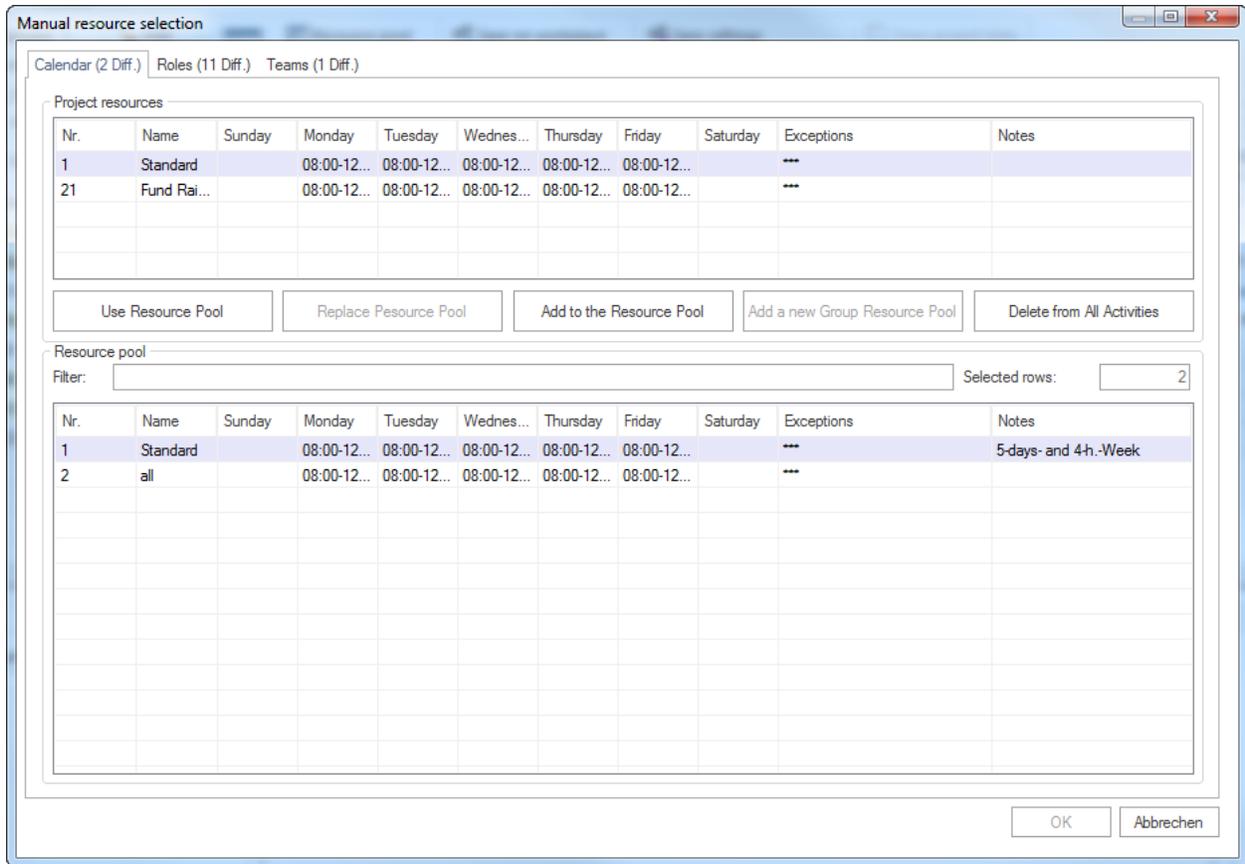
Note:

- In selecting resources manually, the dialogue **Manual selection of resources** opens in the next step. For each of the resource items you need to enter manually what you want to do with the differing resources.

5.5.2 Manual selection of calendar

In case of differing calendars in project resources and resource pool, you can use this function to define which calendars you want to use in which ways.

The list of project resources contains the calendars (with deviations) used in a project. In the list of resource pools - the calendar defined in the resource pool.



In order to align the project calendar with the resource pool, do as follows:

- In the table **Project resources** mark the calendar you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool**, if you want to use the resource pool calendar.
Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Add to resource pool** to add the project calendar to the resource pool.
 - Click on the button **Delete from all project activities** to delete the project calendar.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.3 Manual selection of roles

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).

Manual resource selection

Calendar (2 Diff.) Roles (11 Diff.) Teams (1 Diff.)

Project resources

Nr.	Role	Code	Qualification	Costs	Price adju...	Notes
11.001	Chairperson			0.00		
12.001	Board of Directors			0.00		
13.001	Auction Manager			0.00		
14.001	Wine Tasting Manager			0.00		
15.001	Publicity Manager			0.00		

Use Resource Pool Replace Resource Pool Add to the Resource Pool Add a new Group Resource Pool Delete from All Activities

Resource pool

Filter: Selected rows:

Nr.	Role	Code	Qualification	Costs	Price adju...	Notes
11.001	programmer		C++	50.00		
11.002	programmer		PHP	45.00		
11.003	programmer		V.Basic	50.00		
12.001	writer			30.00		
13.001	manager			60.00		
14.001	designer			60.00		
15.001	analyst			70.00		
16.001	support			30.00		

OK Abbrechen

In order to align manually the project roles with the roles contained in the resource pool file, do as follows:

- In the table **Project resources** mark the role you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool roles.

Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool role with the project resource role.

Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.
 - Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).

Note: this button is active only when you have selected a group in the table Resource pool.
 - Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
 - Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.4 Manual selection of teams

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).

In order to align manually the project teams with the teams contained in the resource pool file, do as follows:

- In the table **Project resources** mark the team you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool team.

Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool team with the project resource team.

Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.
 - Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).

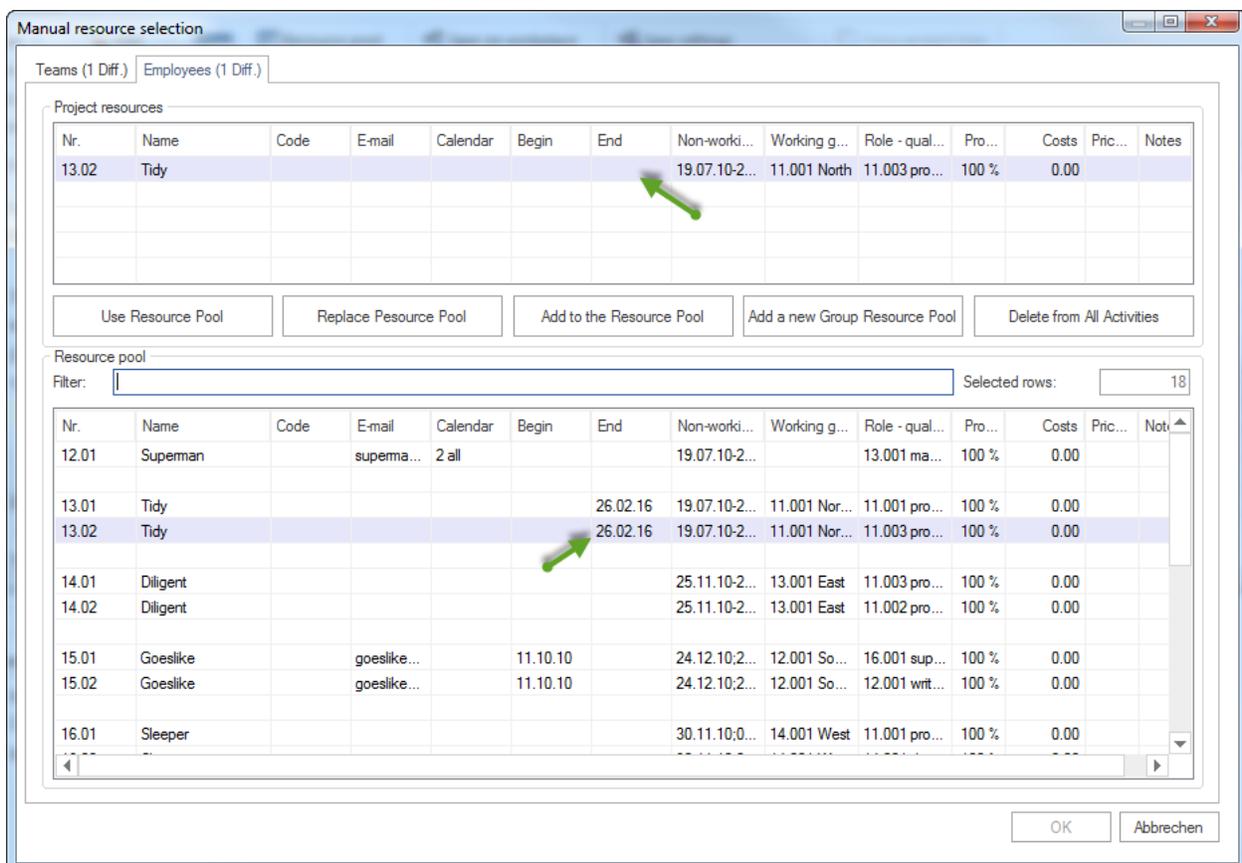
Note: this button is active only when you have selected a group in the table Resource pool.

- Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
- Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.5 Manual selection of employees

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).



In order to align manually the project employees with the employees contained in the resource pool file, do as follows:

- In the table **Project resources** mark the employee you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool employee.
Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool employee with the project resource employee.

Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.

- Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).

Note: this button is active only when you have selected a group in the table Resource pool.

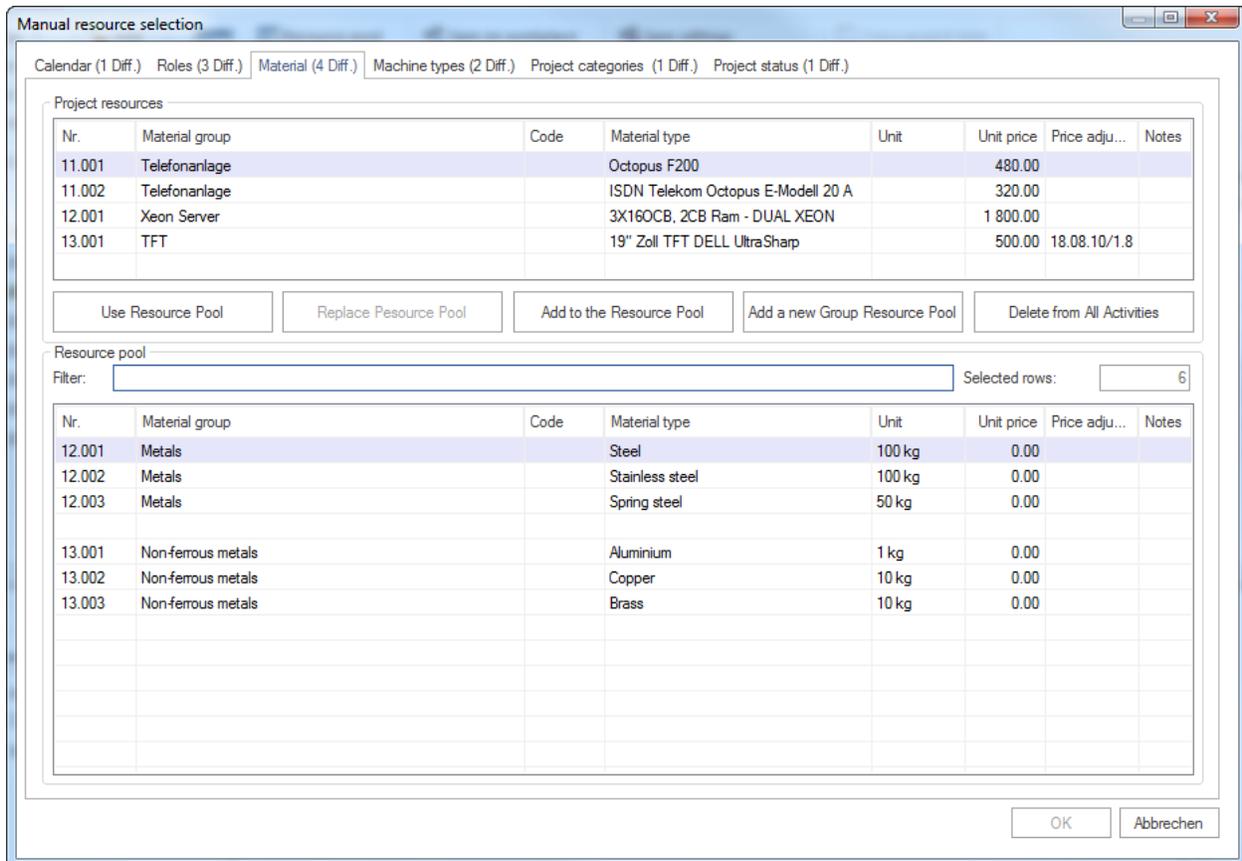
- Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
- Click on the button **Delete from all project activities** to delete the project resource.

- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.6 Manual selection of materials

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).



In order to align manually the project employees with the materials contained in the resource pool file, do as follows:

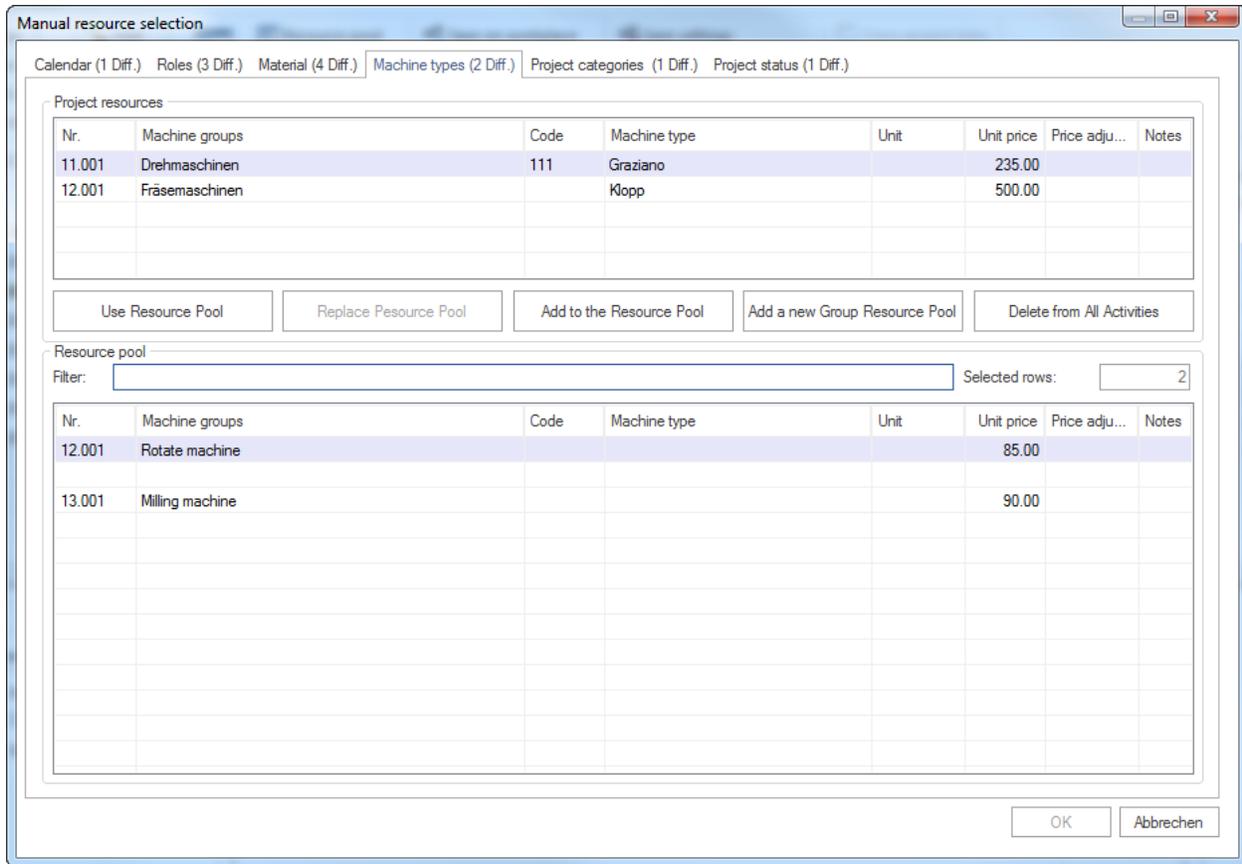
- In the table **Project resources** mark the material you want to align.

- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool material.
Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool material with the project resource material.
Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.
 - Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).
Note: this button is active only when you have selected a group in the table Resource pool.
 - Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
 - Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.7 Manual selection of machine types

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).



In order to align manually the project employees with the machines contained in the resource pool file, do as follows:

- In the table **Project resources** mark the machine types you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool machine types.
Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool machine type with the project resource machine type.
Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.
 - Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).
Note: this button is active only when you have selected a group in the table Resource pool.
 - Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
 - Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.8 Manual selection of machinery

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).

Manual resource selection

Calendar (1 Diff.) Roles (10 Diff.) Employees (2 Diff.) Machine types (10 Diff.) Machines (5 Diff.) Project categories (2 Diff.) Project status (3 Diff.)

Project resources

Nr.	Machine name	Code	Working group - ...	Machine group - ...	Costs	Price adju...	Notes
11.01	Graziano			11.001 Drehmas...	0.00		
13.01	VDF			11.002 Drehmas...	0.00		
15.01	Heidenreich			11.003 Drehmas...	0.00		
16.01	Kunzmann			12.003 Fräsemas...	0.00		
17.01	Gildemeister			11.004 Drehmas...	0.00		

Use Resource Pool Replace Resource Pool Add to the Resource Pool Add a new Group Resource Pool Delete from All Activities

Resource pool

Filter: Selected rows:

Nr.	Machine name	Code	Working group - ...	Machine group - ...	Costs	Price adju...	Notes
12.01	machine 1			12.001 Rotate m...	85.00		
13.01	machine 2			13.001 Milling ma...	90.00		

OK Abbrechen

In order to align manually the project machines with the machines contained in the resource pool file, do as follows:

- In the table **Project resources** mark the machines you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool machine.

Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool machine with the project resource machine.

Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.
 - Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).

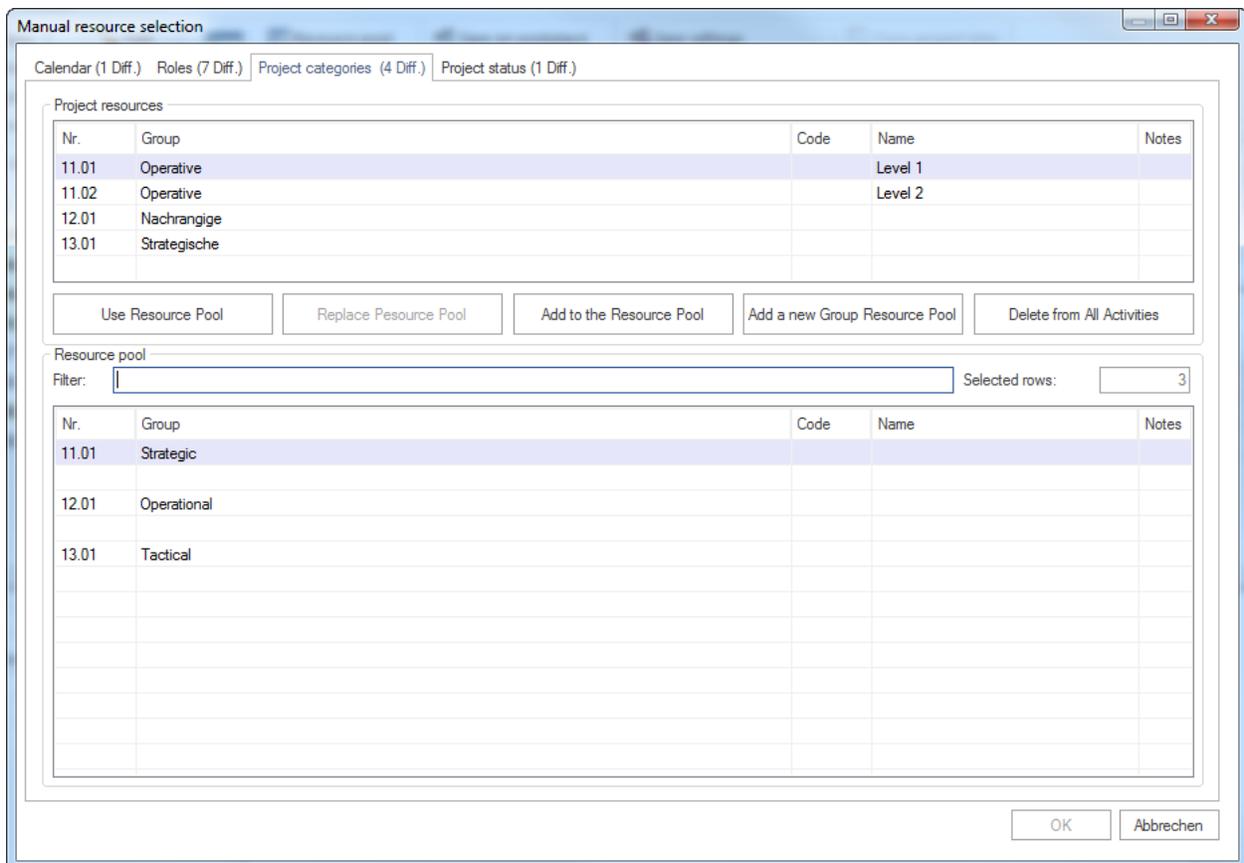
Note: this button is active only when you have selected a group in the table Resource pool.

- Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
- Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.9 Manual selection of project category

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the project categories saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).



In order to align manually the project categories with the categories contained in the resource pool file, do as follows:

- In the table **Project resources** mark the category you want to align.
- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool categories.
Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool category with the project resource category.

Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.

- Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).

Note: this button is active only when you have selected a group in the table Resource pool.

- Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
- Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.10 Manual selection of project status

In case of project resources differing from the resource pool, you can use this function to define which resource you want to use in which ways.

The list of project resources contains the resources (with deviations) used in a project. The list of the resource pool contains the resources saved in the resource pool (the program filters automatically the resources that match with the project resources and the resource pool in the field **Filter**).

Manual resource selection

Calendar (1 Diff.) Roles (7 Diff.) Project categories (4 Diff.) Project status (1 Diff.)

Project resources

Nr.	Group	Code	Name	Notes
11.01	In Planung			

Use Resource Pool Replace Resource Pool Add to the Resource Pool Add a new Group Resource Pool Delete from All Activities

Resource pool

Filter: Selected rows:

Nr.	Group	Code	Name	Notes
11.01	in work			
12.01	in planning			
13.01	completed			
14.01	rejected			

OK Abbrechen

In order to align manually the project status with the status contained in the resource pool file, do as follows:

- In the table **Project resources** mark the status you want to align.

- Click on one of the following buttons:
 - Click on the button **Use resource pool** if you want to use the resource pool status.
Note: this button is active only when you have selected an item for the resource pool.
 - Click on the button **Replace resource pool** to replace the resource pool status with the project resource status.
Note: this button is active only when the allocation of a resource pool to the project resource via the code has been successful.
 - Click on the button **Add to resource pool** to add the project resource to the resource pool (the group properties are entered in the existing group, but not in the group name of the project resource).
Note: this button is active only when you have selected a group in the table Resource pool.
 - Click on the button **Add to a new group in the resource pool** to add the project resource and the group name to the new group in the resource pool.
 - Click on the button **Delete from all project activities** to delete the project resource.
- If necessary, switch to another tab to align the resources.
- Click on the button **OK**.

5.5.11 Manual selection of project clients

..index:: Synchronise project clients, Project client difference

In case of differences between the project resources and the resource pool you can determine here which resource is to be used and how.

In the list of project resources, the resources contained in the project (with deviations) are displayed. In the list of the resource pool the resources stored in the resource pool (the programme automatically filters the resources in the project and resource pool in the resource pool in the **Filter** field).

Manual resource selection

Project customer (1 Diff.)

Project resources:

Nr.	Name	Code	Website	Street	Postcode	City	State	Country	Contact ...	E-mail	Phone	Notes
11.01	North Way Mus	152773	North-W...	13 Leek ...	27342	Buxton			Mr. Red...	Redgoo...	0173536...	

Delete from All Act

Filter: Selected rows:

Nr.	Name	Code	Website	Street	Postcode	City	State	Country	Contact ...	E-mail	Phone	Notes

To manually match the project clients with the employees contained in the resource pool file manually with the employees contained in the resource pool file, please proceed as follows:

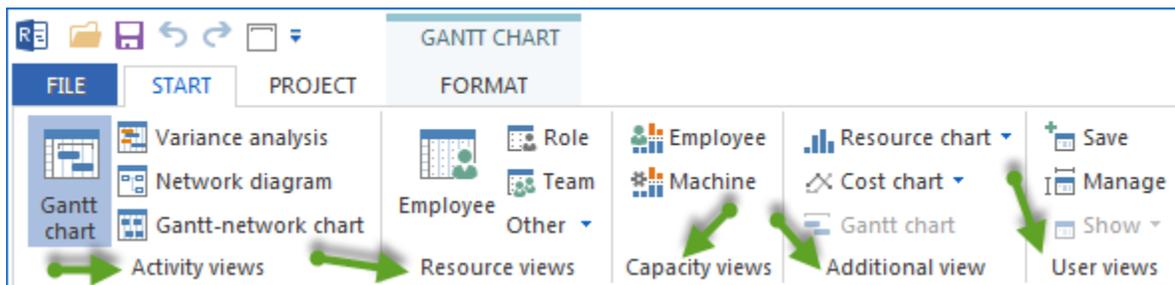
1. mark the client in the **Project Resources** table, you want to match.
2. click on one of the following buttons:
 1. click the **Use Resource Pool** button, if you want to use the resource pool project client. **Note:** This button is only enabled if you have selected a position in the resource pool.
 2. Click the **Replace Resource Pool** button to replace the resource pool project client with the resource pool project client. **Note:** this button is only enabled if an assignment of the resource pool with the project resource via the code is successful.
 3. click the **Add to Resource Pool** button, to add the project resource to the resource pool (the group properties are the group properties are added to the existing group but not the group name of the project resource). **Note:** This button is only enabled if a group is activated if a group is selected in the Resource Pool table.
 4. Click the **Add to resource pool in a new group** button to add the project resource. to add the project resource and group name to the resource pool in a new group.
 5. Click the **Delete from all project tasks** button to delete the project resource.
3. If necessary, switch to another tab to match the corresponding resources.
4. Click on the **OK** button.

PROJECT VIEWS

6.1 Project views

Rillsoft Project provides about 12 views. You can toggle between the different views doing the following:

- Select the menu item **Start** and click on the view name in the tab Views.

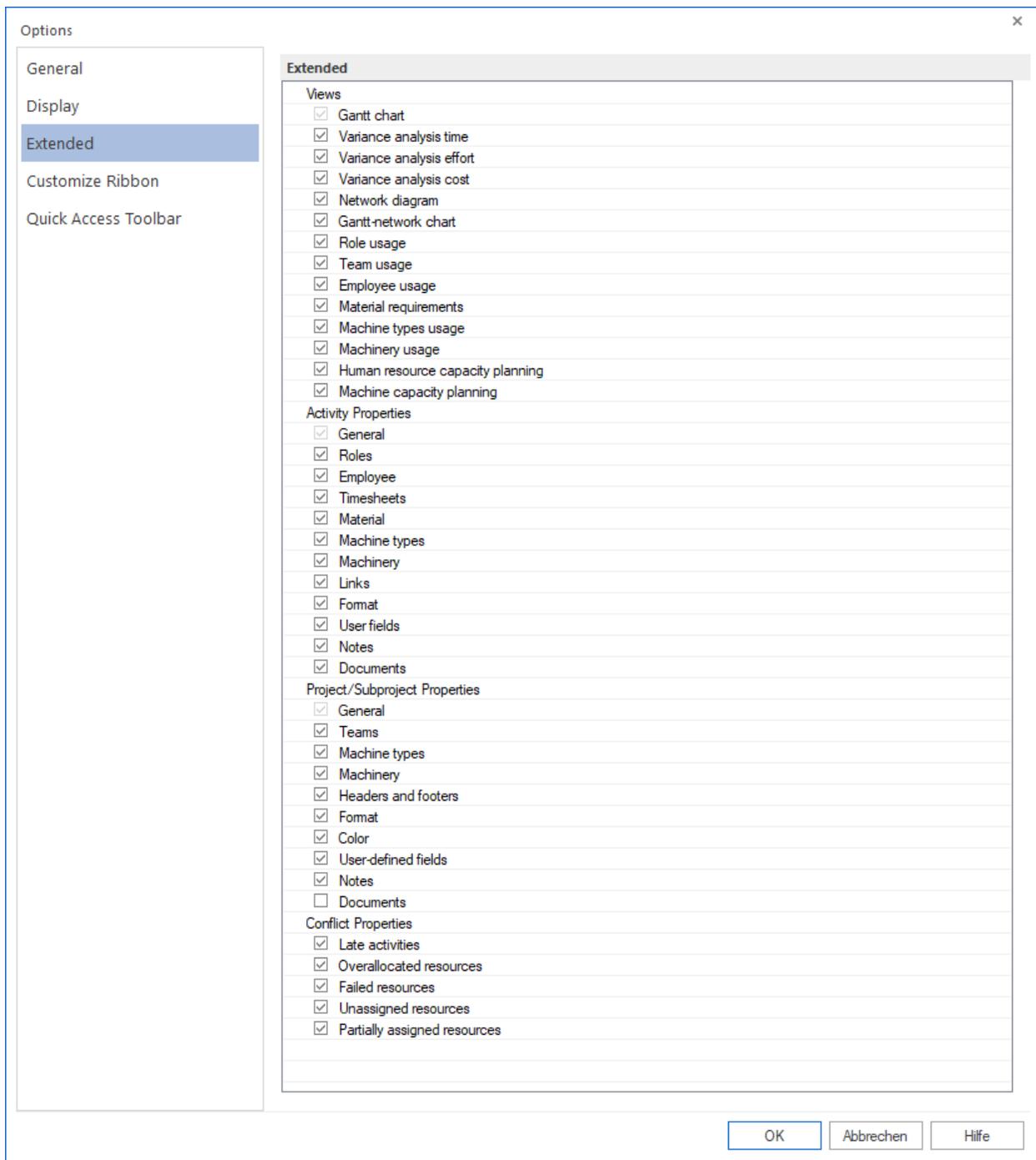


Views on / off

Which of the project views do you want to have on display in the tab

In order to define which of the project views should be shown in the tab, do as follows:

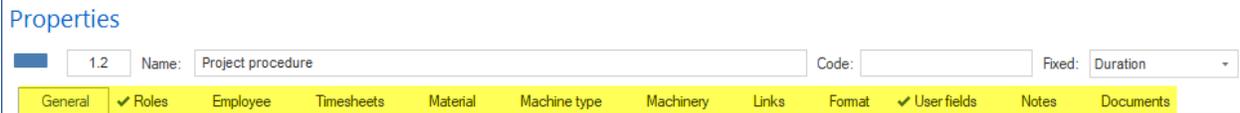
- Select the menu item **File > Options > Extended**.



- Mark the check box of the views you are interested in the block **Views**.
- Click **OK**.

Customize tabs in properties window

In the **Activity properties** area, you can specify which tabs should be visible in the process properties window.



In the **Project/sub-project properties** area, you can specify which tabs should be visible in the project/sub-project properties window.



In the **Conflict properties** area, you can specify which tabs should be visible in the conflict properties window.



6.2 Gantt chart

Nr.	Name	Effort	Durat...	Start	Finish
1.1.5	following and updati...	10	1.25	15.02.16 09:00	16.02.16 11:00
1.2	establishing a soft...	279	10	16.02.16 11:00	01.03.16 11:00
1.2.1	software engineerin...	160	5	16.02.16 11:00	23.02.16 11:00
1.2.2	software test enviro...	32	2	16.02.16 11:00	18.02.16 11:00
1.2.3	software developme...	21	2.63	16.02.16 11:00	18.02.16 17:00
1.2.4	software developme...	36	4.5	22.02.16 08:00	26.02.16 12:00
1.2.5	non-deliverable soft...	30	1.88	26.02.16 13:00	01.03.16 11:00
1.3	system requirements	95	5.75	01.03.16 11:00	09.03.16 09:00
1.3.1	analysis of user input	38	2.38	01.03.16 11:00	03.03.16 15:00
1.3.2	operational concept	27	3.38	03.03.16 15:00	09.03.16 09:00
1.3.3	system requirements	30	1.88	03.03.16 15:00	07.03.16 14:00
1.4	system design	84	5.25	03.03.16 15:00	10.03.16 17:00
1.5	software requireme...	30	3.75	03.03.16 15:00	09.03.16 12:00
1.6	software implemen...	0	5	11.03.16 08:00	17.03.16 17:00

Application of Gantt charts:

- Visualisation of the project scheduling.
- Visualisation of the project structure.
- Visualisation of the contingency reserve.

- Quick access to the properties of activities and subprojects.

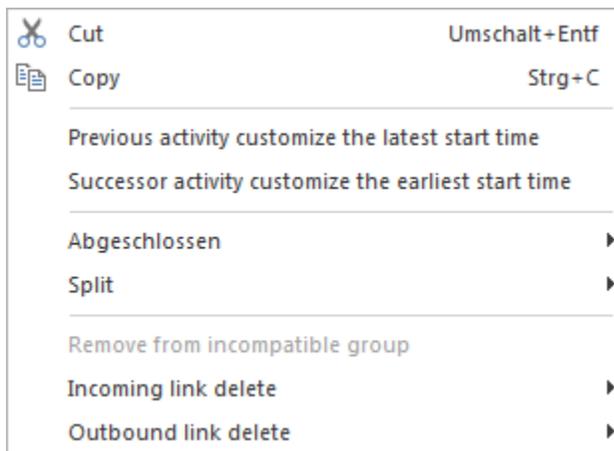
You can use the Gantt chart for to do the following:

- Create and edit activities.
- Link activities.
- Create and edit subprojects.
- Edit the project structure.
- Change the timescale.
- Check contingency reserves.
- Check resource utilization by means of filter settings.

Context menu in the Gantt chart

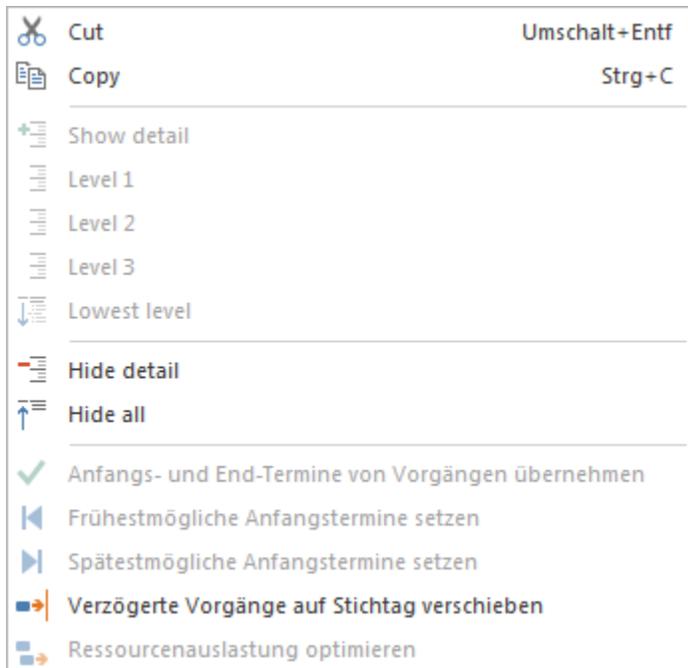
For the table of activities

Mark a row (activity or subproject) in the table of activities. Once you have marked an activity, you can do as follows:



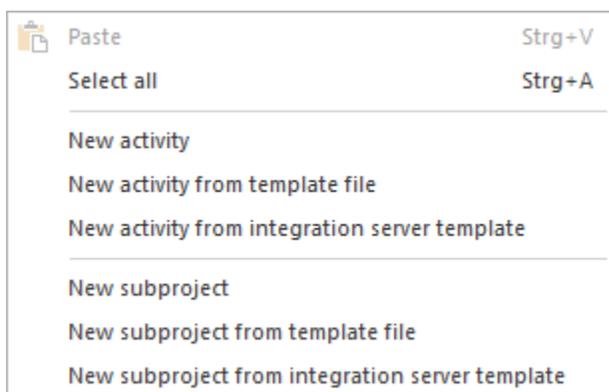
- **Cut** – cut the marked activity
- **Copy** – copy the marked activity
- **Customize previous activity the latest start time** – shift all activities that are scheduled for an earlier time than the marked activity to the latest possible start date
- **Customize successor activity the earliest start time** – shift all activities that are scheduled for a later time than the marked activity to the earliest possible start date
- **Completed** – enter the completion percentage of a marked activity
- **Split** – split the marked activity into several activities
- **Incoming/Outbound link delete** – delete the links of the marked activity

In a **marked subproject** you can do the following activities:



- **Cut** – cut the marked subproject
- **Copy** – copy the marked subproject
- **Show detail** – display up to any outline level of the marked subproject detail
- **Accept the start and finish dates of activities** – accept the start date of the first activity and the end date of the last activity for the subproject start and the end of subproject
- **Earliest start date** – this command is active only for subprojects with fixed start and finish dates and shifts all activities in the subproject to the earliest possible start dates.
- **Latest start date** – this command is active only for subprojects with fixed start and finish dates and shifts all activities in the subproject to the latest possible start dates.
- **Move delayed activities to cutoff day** – if the project controlling detects that activities are still not 100% completed, you can shift these activities to the deadline and so update the project's status.
- **Optimize resource utilization** – most effective resource allocation, so as to avoid excess and shortfall within the prescribed period

For the chart area

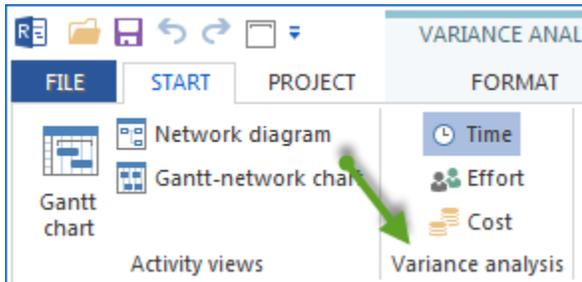


In the chart area you can mark an activity / subproject and do the following:

- **Paste** – insert marked activities / subprojects into a project
- **Select all** – mark all activities and subprojects: If activities are subordinated to a subproject, only the subproject will be marked in the chart.
- **New activity** - create a new activity at the position pointed to by the cursor
- **New activity from template file** - insert an already saved activity from template file at the position pointed to by the cursor
- **New activity from Rillsoft Integration Server template** - insert an already saved activity from Rillsoft Integration Server template at the position pointed to by the cursor. Only for the solution with interface to the Rillsoft Integration Server
- **New subproject** - create a new subproject at the position pointed to by the cursor
- **New subproject from template file** - insert an already saved subproject from template file at the position pointed to by the cursor
- **New subproject from Rillsoft Integration Server template** - insert an already saved subproject from Rillsoft Integration Server template at the position pointed to by the cursor. Only for the solution with interface to the Rillsoft Integration Server

6.3 Variance analysis

Variance analysis view shows you the difference between the current project plan and one of the baselines according to the following criteria:



- Time
- Effort
- Cost

Application of variance analysis:

- Visualisation of the difference between target and actual.
- Detailed analysis of all parameter deviations.

You can use the variance analysis to do the following:

- Edit activities and subprojects from the actual plan.
- Change the timescale.

Context menu in the Variance analysis view

Select baseline

Show progress line over start date

Show progress line over finish date

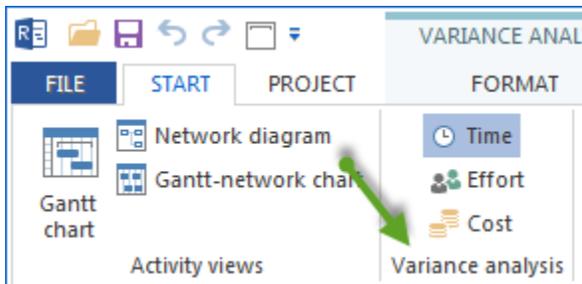
Show only difference

- **Select baseline** – select a project state saved previously as a baseline for comparison.
- **Show progress line over start date** – visualize the schedule deviations between a project state and selected baseline related to start dates.
- **Show progress line over finish date** – visualize the schedule deviations between a project state and selected baseline related to finish dates.
- **Show only difference** – show only activities/projects, where there is the time shift between target and actual.

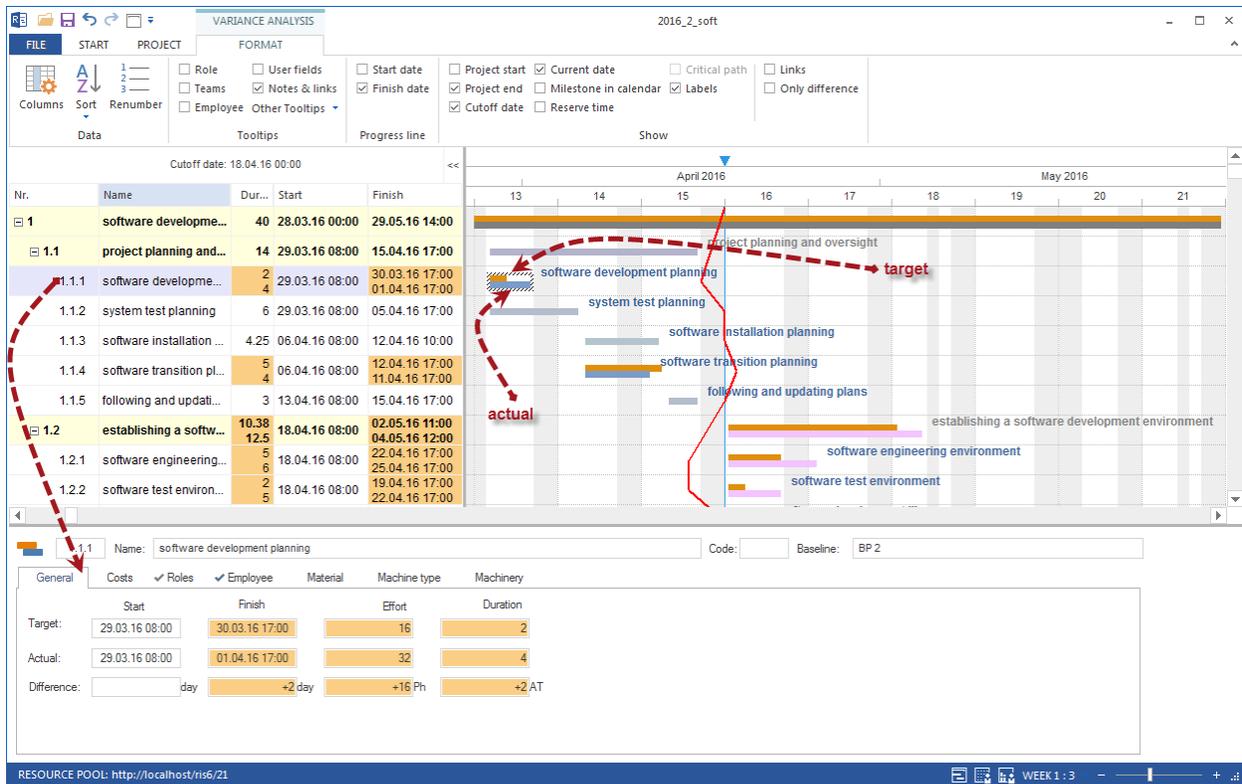
6.4 Variance analysis time

Variance analysis time shows you the temporal difference between the current project plan and one of the baselines.

Click on **Start > Variance analysis > Time**



Time difference



Application of Variance analysis time:

- Visualization of the temporal difference between target and actual.
- Graphical representation of schedule deviations.
- Rapid detection of time deviations from the plan and fact by means of a progress line.

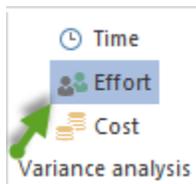
Note:

- The first row lists the properties of the scheduled activities and subprojects, while the second row lists the properties of the required activities and subprojects. Parameter deviating from the baseline are marked in yellow.

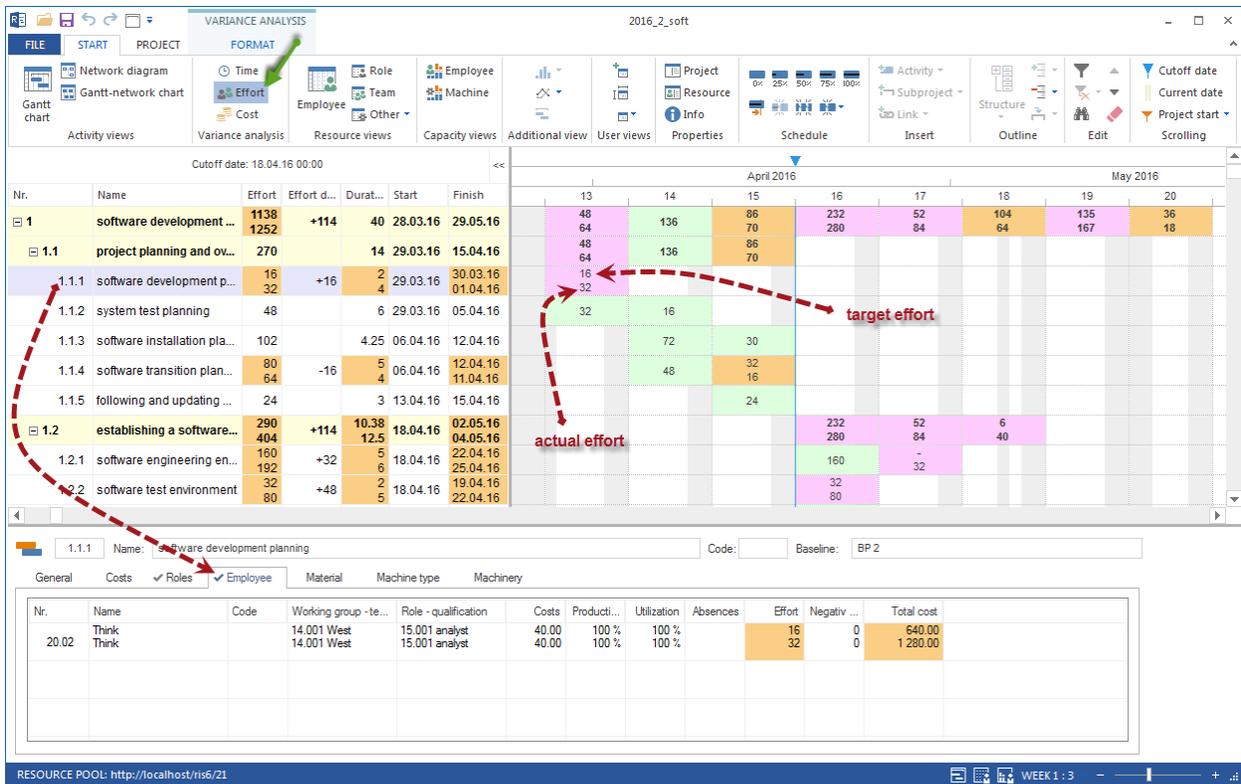
6.5 Variance analysis effort

Variance analysis effort shows you the difference between a current effort and the effort saved in a baseline.

Click on **Start > Variance analysis > Effort**



Effort difference



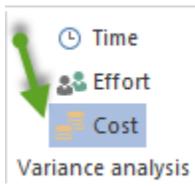
Application of Variance analysis effort:

- Visualization of the difference between target effort and actual effort in the time scale.

6.6 Variance analysis cost

Variance analysis cost shows you the difference between current costs and the costs saved in a baseline

Click on **Start > Variance analysis > Cost**



Cost difference

The screenshot shows the 'VARIANCE ANALYSIS' window in Rillsoft Project. The main table lists activities with their start/finish dates and costs. A secondary table shows a Gantt chart for April and May 2016. A red dashed arrow points from a cell in the Gantt chart to a cell in the table, labeled 'actual cost'. Another red dashed arrow points from a cell in the table to a cell in the Gantt chart, labeled 'target cost'. Below the main window, a properties window is open for activity 'software development planning', showing a 'Costs' tab with a table of fixed costs, roles, employees, materials, machine types, and machinery.

Nr.	Name	Start	Finish	Costs	Costs diff...
1	software devel...	28.03.16	29.05.16	92 570.00 99 240.00	+6 670.00
1.1	project plannin...	29.03.16	15.04.16	30 270.00 28 750.00	-1 520.00
1.1.1	software devel...	29.03.16	30.03.16 01.04.16	640.00 1 280.00	+640.00
1.1.2	system test pla...	29.03.16	05.04.16	2 400.00	
1.1.3	software install...	06.04.16	12.04.16	13 430.00	
1.1.4	software transit...	06.04.16	12.04.16 11.04.16	10 800.00 8 640.00	-2 160.00
1.1.5	following and u...	13.04.16	15.04.16	3 000.00	
1.2	establishing a ...	18.04.16	02.05.16 04.05.16	19 150.00 27 340.00	+8 190.00
1.2.1	software engin...	18.04.16	22.04.16 25.04.16	7 200.00 8 640.00	+1 440.00
1.2.2	software test e...	18.04.16	19.04.16 22.04.16	1 440.00 3 600.00	+2 160.00

		April 2016				May 2016				
		13	14	15	16	17	18	19	20	21
1	software devel...	2240 2880	16760	11270 9110	11320 13480	7020 8460	6220 6460	10660 10410	6455 2175	- 1360
1.1	project plannin...	2240 2880	16760	11270 9110	11320 13480	7020 8460	6220 6460	10660 10410	6455 2175	- 1360
1.1.1	software devel...	640 1280								
1.1.2	system test pla...	1600	800							
1.1.3	software install...		9480	3950						
1.1.4	software transit...		6480	4320 2160						
1.1.5	following and u...			3000						
1.2	establishing a ...				11320 13480	7020 8460	810 5400			
1.2.1	software engin...				7200	1440				
1.2.2	software test e...						1440 3600			

Properties window for activity 'software development planning':

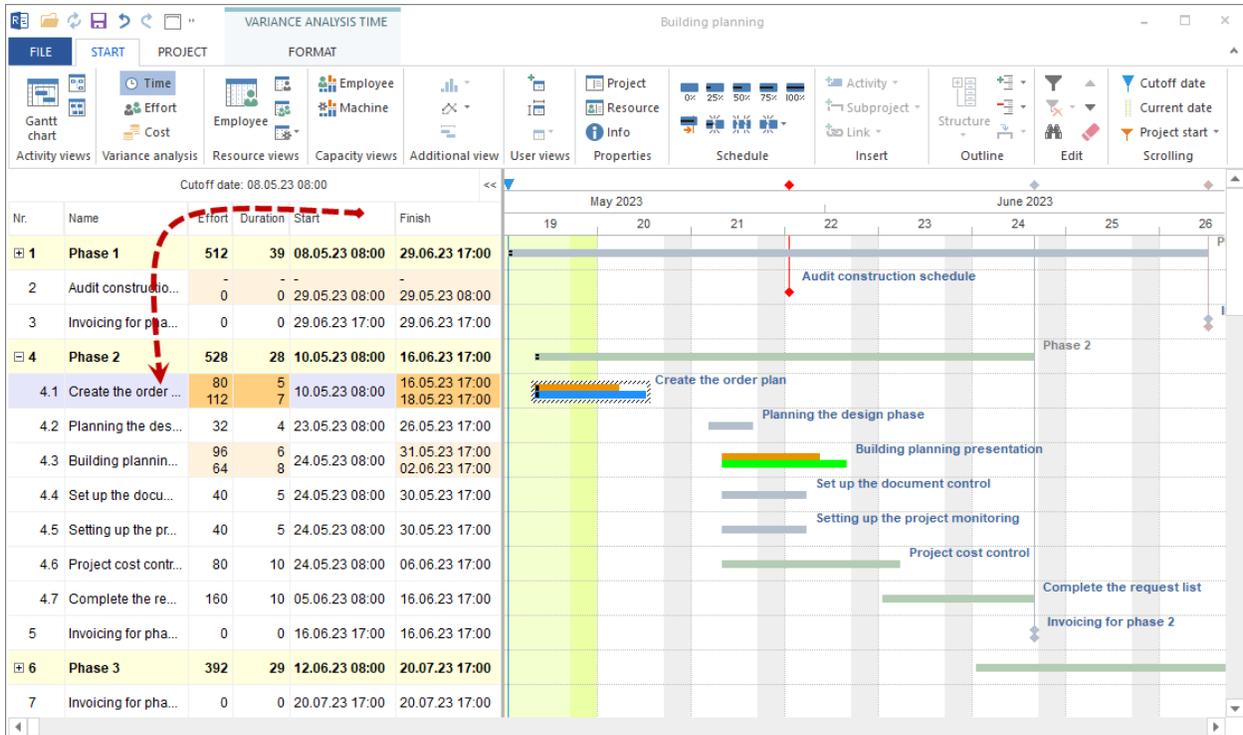
General	Costs	Roles	Employee	Material	Machine type	Machinery
Fixed	0.00	640.00				
	0.00	1 280.00				
		-640.00				

Application of Variance analysis cost:

- Visualization of the difference between target costs and actual costs in the time scale.

6.7 Variance analysis activity properties

If you click on a row in the table at a Variance analysis view, you can see the differences between the current state of the activities and a state saved in the base plan in the properties window.



These differences can be tracked on the following tabs:

- General
- Costs
- Roles
- Employee
- Material
- Machine type
- Machinery

General

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

	Start	Finish	Effort	Duration
Target:	10.05.23 08:00	16.05.23 17:00	80	5
Actual:	10.05.23 08:00	18.05.23 10:00	56	7
Difference:		+1.71 day	-24 man	+2 work-c

Help

Here are the deviations and a summed difference between planned and current values of an activities for

- start and finish dates
- the effort
- the duration

can be seen.

Costs:

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

Fixed	Roles	Employees	Materials	Machine types	Machinery	Liquidity
0.00	3 600.00	0.00	0.00	0.00	0.00	0.00
0.00	2 800.00	2 800.00	0.00	9 800.00	9 800.00	0.00
	-800.00			+9 800.00		

Help

On the **Costs** tab you can see how large the target-actual deviations are for the resource costs.

Roles

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

Nr.	Role	Code	Qualification	Costs	Quantity	Utilization	Effort	Total cost
13.001	manager			60.00	1	100 %	40	2 400.00
	manager			60.00	1	100 %	56	2 800.00
16.001	support			30.00	1	100 %	40	1 200.00
	support			30.00	1	100 %	56	0.00

Help

Here you get an exact comparison between planned and actual roll requirements in one activities.

Employee

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

Nr.	Name	Code	Working group - team	Role - qualification	Costs	Productivity	Utilization	Absences	Effort	Negativ e...	Total cost
12.01	Supeman		12.001 South	13.001 manager	50.00	100 %	100 %		56	0	2 800.00

Help

Which staff members were originally scheduled and which are currently assigned to an activities can be seen in the **Employee** tab.

Material

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

Nr.	Material group	Code	Material type	Unit	Costs	Amount	Total cost
12.002	Metals		Stainless steel	100 kg	267.00	1	267.00
13.001	Non-ferrous metals		Aluminium	1 kg	20.00	1	20.00

Help

Here you get an exact comparison between planned and actual material consumption in one activities.

Machine type

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

Nr.	Machine groups	Code	Machine type	Costs	Utilization	Quantity	Total cost
12.001	Rotate machine	-	-	85.00	100 %	1	4 760.00
13.001	Milling machine	-	-	90.00	100 %	1	5 040.00

Help

Here you get an exact comparison between planned and actual machine type requirements in one activities.

Machinery

Properties

4.1 Name: Create the order plan Code: Baseline: Building planning BP11

General Costs Roles Employee Material Machine type Machinery

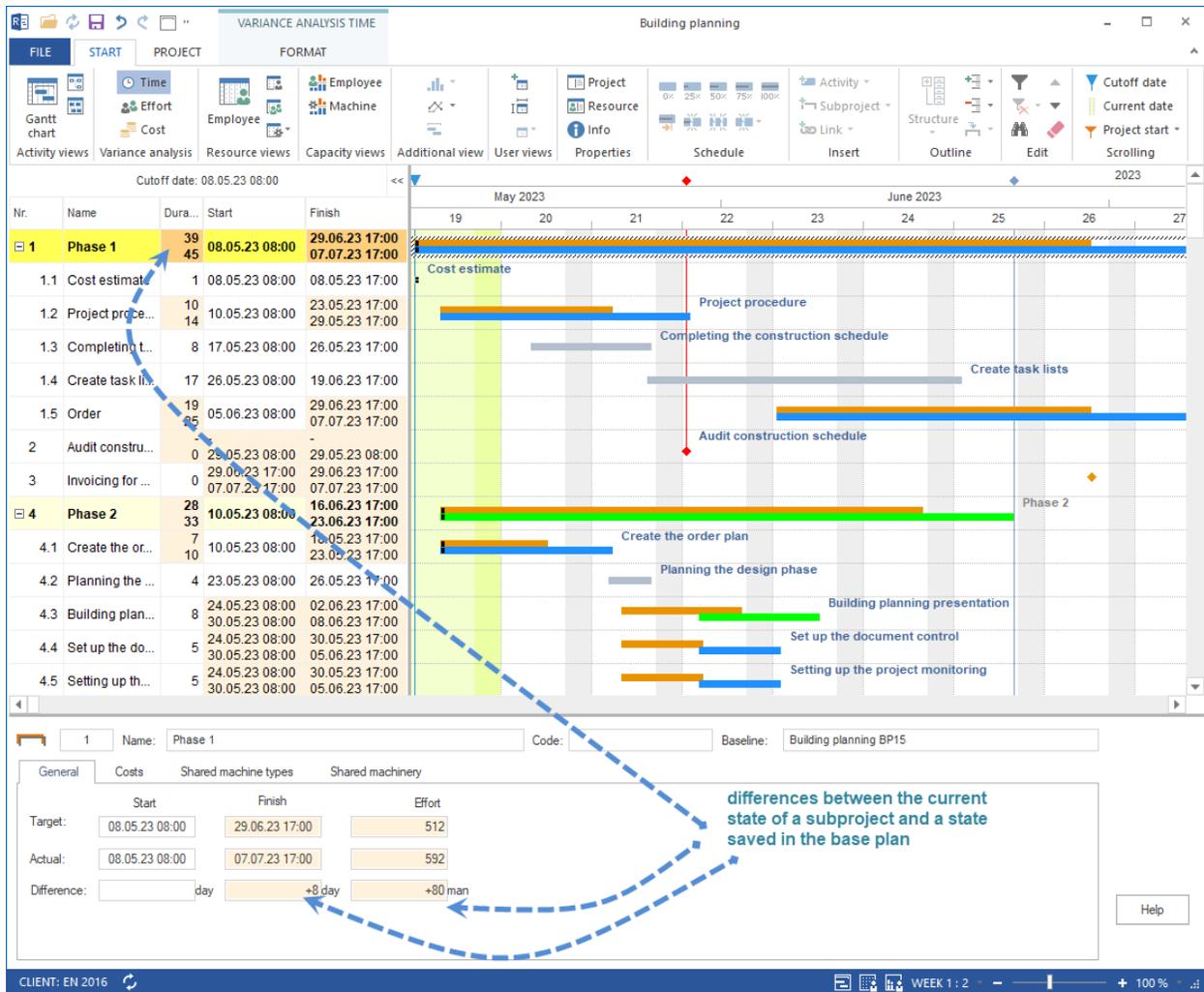
Nr.	Machine name	Code	Working group - team	Machine group - Machine type	Costs	Utilization	Total cost
12.01	machine 1	-	-	12.001 Rotate machine	85.00	100 %	4 760.00
13.01	machine 2	-	-	13.001 Milling machine	90.00	100 %	5 040.00

Help

Here you get an exact comparison between planned and actual machine requirements in one activities.

6.8 Variance analysis of subproject properties

If you click on a row in a Variance analysis view in the table, you can have the differences between the current state of a subproject and a state saved in the base plan shown in the properties window.



differences between the current state of a subproject and a state saved in the base plan

These deviations can be tracked on the following tabs:

- General
- Costs
- Shared machine types
- Shared machinery

General



Here are the deviations and a summed difference between planned and current values of a sub-project for

- start and end dates

- the effort
- the duration

can be seen.

Costs

Properties

1 Name: Phase 1 Code: Baseline: Building planning BP15

General **Costs** Shared machine types Shared machinery

Fixed	Roles	Employees	Materials	Machine types	Machinery	Liquidity
0.00	19 680.00	9 360.00	0.00	24 480.00	6 800.00	0.00
0.00	23 040.00	9 360.00	0.00	27 200.00	9 520.00	0.00
	+3 360.00			+2 720.00	+2 720.00	

Help

On the **Costs** tab you can see how large the target-actual deviations are for the resource costs.

Shared machine types

Properties

1 Name: Phase 1 Code: Baseline: Building planning BP15

General Costs **Shared machine types** Shared machinery

Nr.	Machine groups	Code	Machine type	Costs	Quantity	Utilization	Activities	Duration	Total cost
12.001	Rotate machine	-	-	85.00	1	100 %	1.2;1.3	112	9 520.00
13.001	Milling machine	-	-	90.00	1	100 %	1.1;1.3;1.5	272	24 480.00

Help

Here you get an accurate comparison between planned and actual needs for common machine types in a sub-project.

Shared machinery

Properties

1 Name: Phase 1 Code: Baseline: Building planning BP15

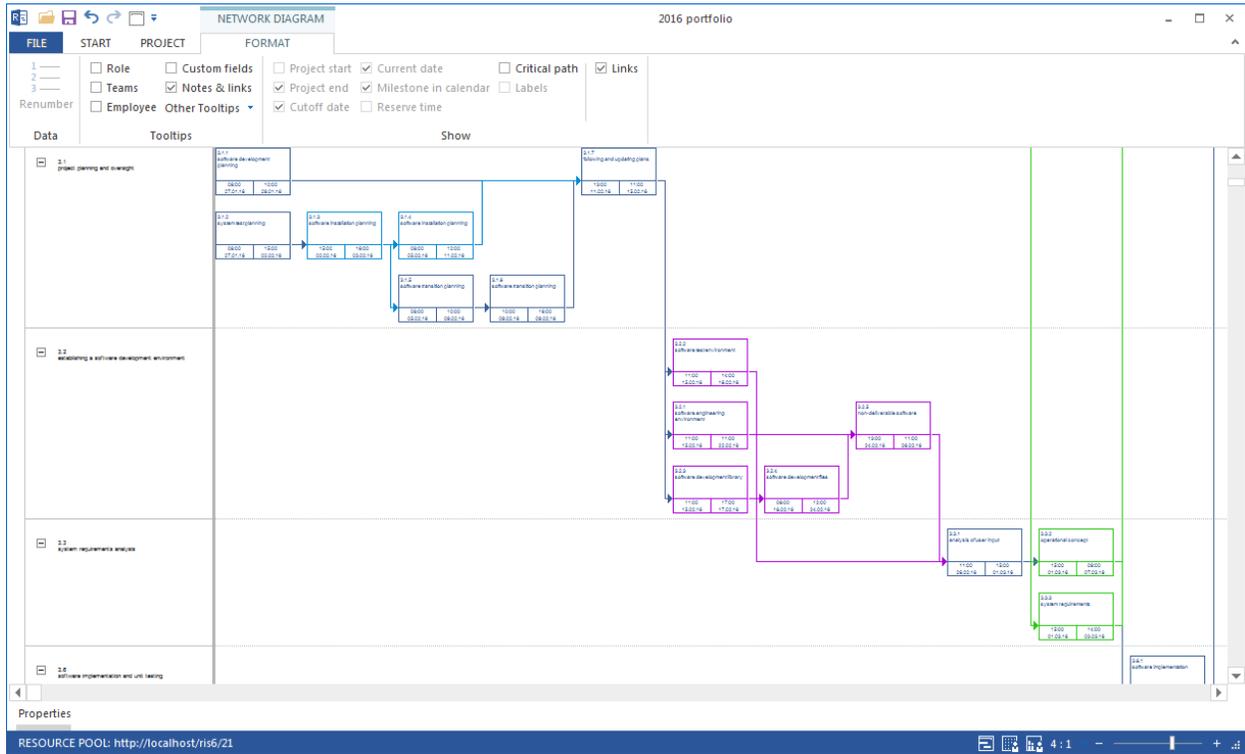
General Costs Shared machine types **Shared machinery**

Nr.	Machine name	Code	Working group - team	Machine group - Machine type	Costs	Utilization	Activities	Duration	Total cost
12.01	machine 1	-	-	12.001 Rotate machine	85.00	100 %	1.2;1.3	112	0.00
13.01	machine 2	-	-	13.001 Milling machine	90.00	100 %	1.1;1.3;1.5	272	0.00

Help

Here you get an exact comparison between planned and actual needs for common machinery in a sub-project.

6.9 Network diagram



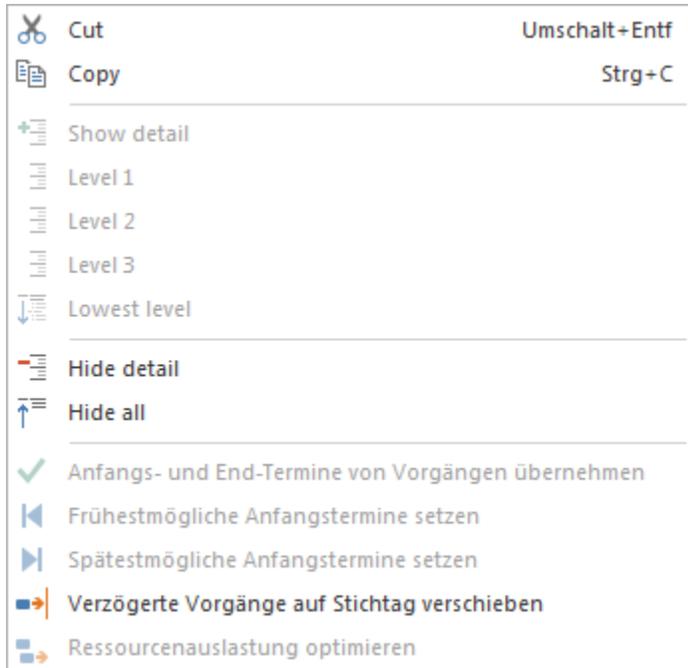
Application of the network diagram:

- Visualisation of the technological structure of the project.

You can use the network diagram to do the following:

- Create and edit activities.
- Link activities.
- Create and edit subprojects.

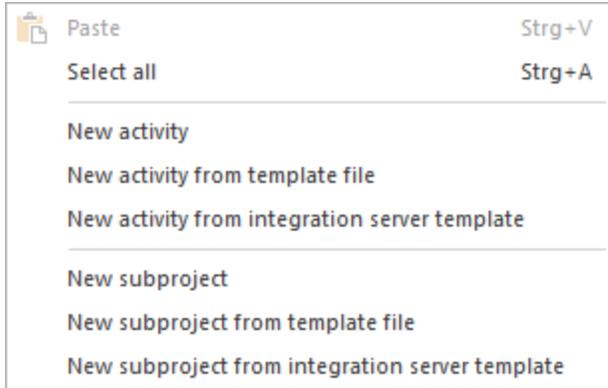
Context menu in the Network diagram view



In the **subproject area** you can do the following activities:

- **Cut** – cut the marked subproject
- **Copy** – copy the marked subproject
- **Show detail** – display up to any outline level of the marked subproject detail
- **Hide detail** – hide up to any outline level of the marked subproject detail
- **Accept the start and finish dates of activities** – accept the start date of the first activity and the end date of the last activity for the subproject start and the end of subproject
- **Earliest start date** – this command is active only for subprojects with fixed start and finish dates and shifts all activities in the subproject to the earliest possible start dates.
- **Latest start date** – this command is active only for subprojects with fixed start and finish dates and shifts all activities in the subproject to the latest possible start dates.
- **Move delayed activities to cutoff day** – if the project controlling detects that activities are still not 100% completed, you can shift these activities to the deadline and so update the project's status.
- **Optimize resource utilization** – most effective resource allocation, so as to avoid excess and shortfall within the prescribed period

For the chart area



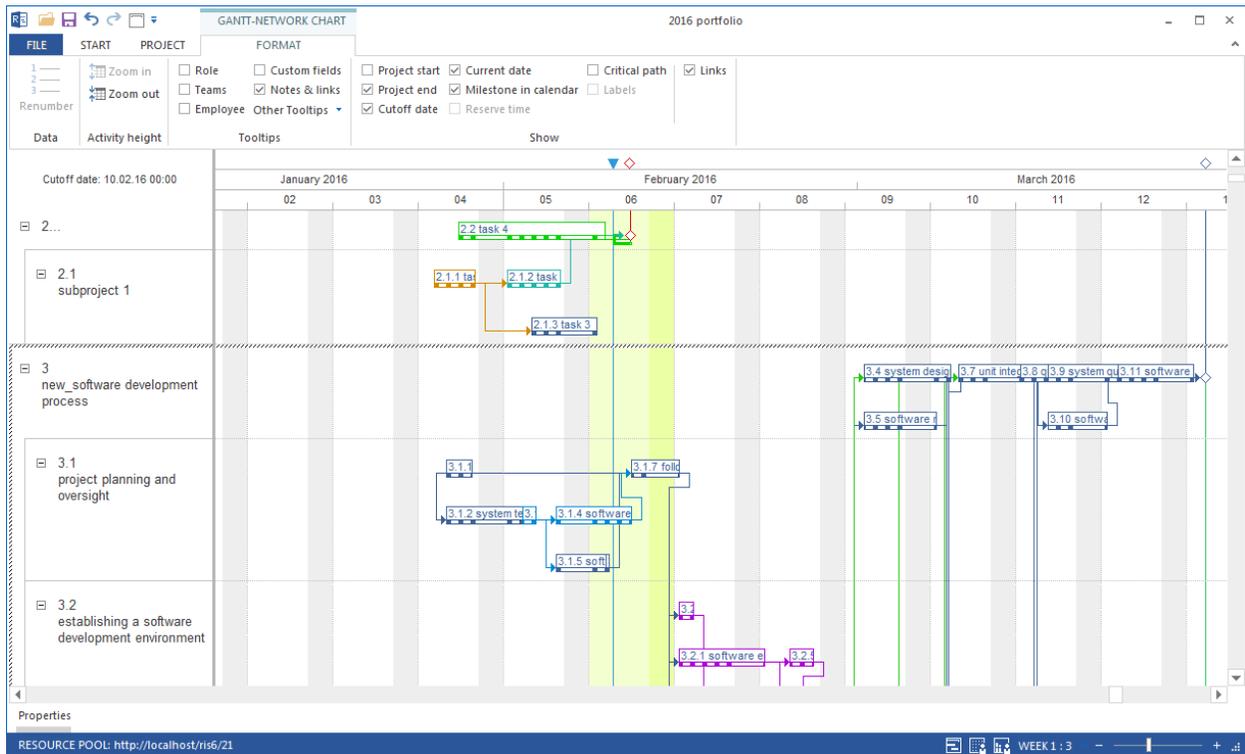
In the chart area you can mark an activity / subproject and do the following:

- **Paste** – insert marked activities / subprojects into a project
- **Select all** – mark all activities and subprojects: If activities are subordinated to a subproject, only the subproject will be marked in the chart.
- **New activity** - create a new activity at the position pointed to by the cursor
- **New activity from template file** - insert an already saved activity from template file at the position pointed to by the cursor
- **New activity from Rillsoft Integration Server template** - insert an already saved activity from Rillsoft Integration Server template at the position pointed to by the cursor. Only for the solution with interface to the Rillsoft Integration Server

In the subproject area, you can do the following:

- **New subproject** - create a new subproject at the position pointed to by the cursor
- **New subproject from template file** - insert an already saved subproject from template file at the position pointed to by the cursor
- **New subproject from Rillsoft Integration Server template** - insert an already saved subproject from Rillsoft Integration Server template at the position pointed to by the cursor. Only for the solution with interface to the Rillsoft Integration Server

6.10 Gantt-network chart



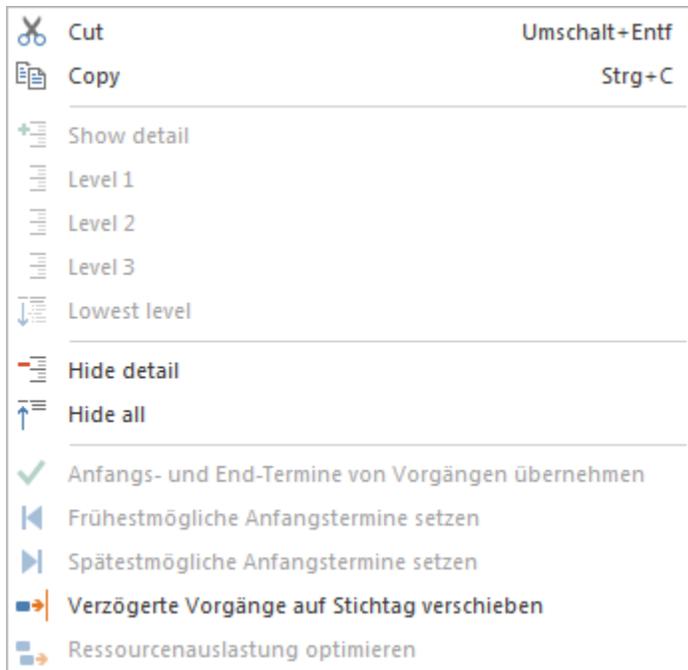
Application of the Gantt-network chart:

- Visualisation of time scheduling and the technological structure of the project.

You can use the Gantt-network chart to do the following:

- Create and edit activities.
- Link activities.
- Create and edit subprojects.
- Edit the technological structure.

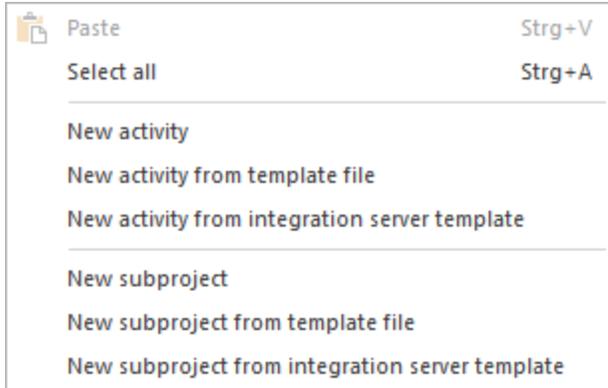
Context menu in the Gantt-network chart view



In the **subproject area** you can do the following activities:

- **Cut** – cut the marked subproject
- **Copy** – copy the marked subproject
- **Show detail** – display up to any outline level of the marked subproject detail
- **Hide detail** – hide up to any outline level of the marked subproject detail
- **Accept the start and finish dates of activities** – accept the start date of the first activity and the end date of the last activity for the subproject start and the end of subproject
- **Earliest start date** – this command is active only for subprojects with fixed start and finish dates and shifts all activities in the subproject to the earliest possible start dates.
- **Latest start date** – this command is active only for subprojects with fixed start and finish dates and shifts all activities in the subproject to the latest possible start dates.
- **Move delayed activities to cutoff day** – if the project controlling detects that activities are still not 100% completed, you can shift these activities to the deadline and so update the project’s status.
- **Optimize resource utilization** – most effective resource allocation, so as to avoid excess and shortfall within the prescribed period

For the chart area



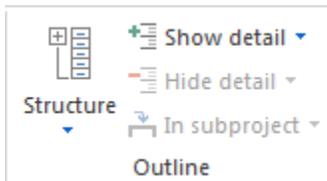
In the chart area you can mark an activity / subproject and do the following:

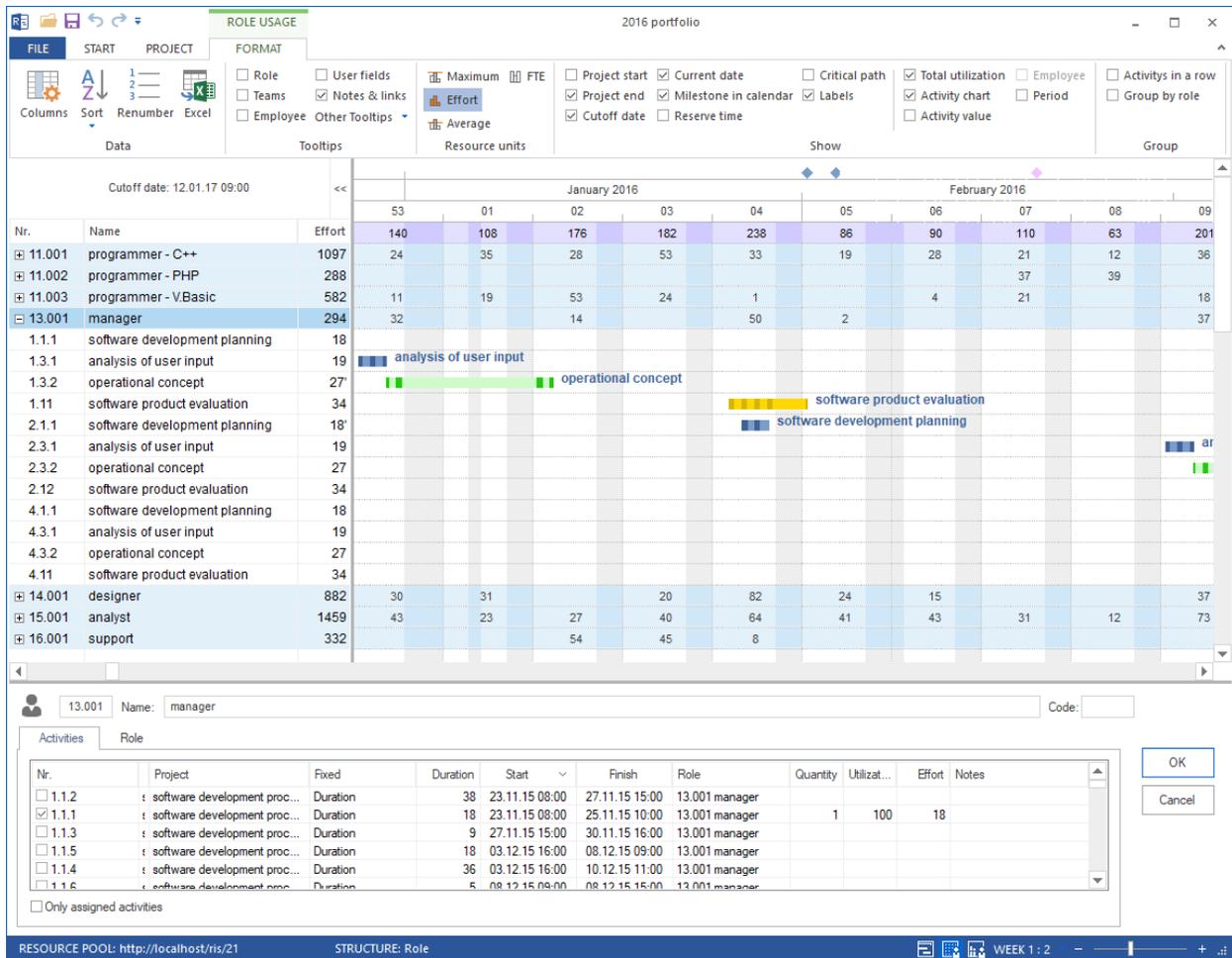
- **Paste** – insert marked activities / subprojects into a project
- **Select all** – mark all activities and subprojects: If activities are subordinated to a subproject, only the subproject will be marked in the chart
- **New activity** - create a new activity at the position pointed to by the cursor
- **New activity from template file** - insert an already saved activity from template file at the position pointed to by the cursor
- **New activity from Rillsoft Integration Server template** - insert an already saved activity from Rillsoft Integration Server template at the position pointed to by the cursor. Only for the solution with interface to the Rillsoft Integration Server
- **New subproject** - create a new subproject at the position pointed to by the cursor
- **New subproject from template file** - insert an already saved subproject from template file at the position pointed to by the cursor
- **New subproject from Rillsoft Integration Server template** - insert an already saved subproject from Rillsoft Integration Server template at the position pointed to by the cursor. Only for the solution with interface to the Rillsoft Integration Server

6.11 Role

You can structure role usage by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Role -> Project
- Project -> Role





Applications for the Role usage view:

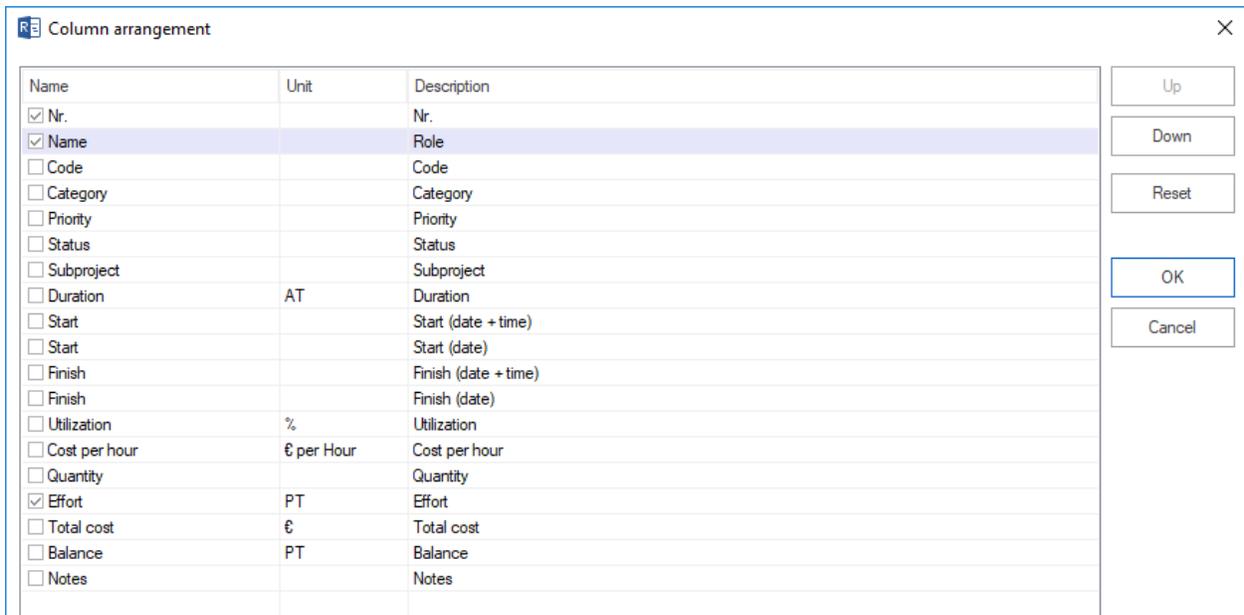
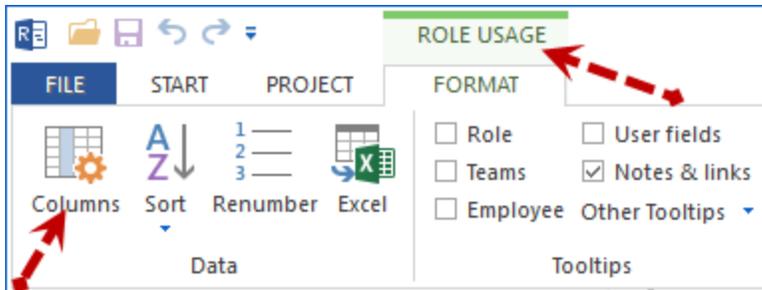
- Display of the project’s demand for roles in the project.
- Ressource allocation from the perspective of roles.
- Calculation of the usage of every single role.
- Calculation of the total efforts and total costs of every single role.
- Calculation of the FTE of every single role.
- Visualisation of the roles allocation in activities.

You can use the Role usage view for the following:

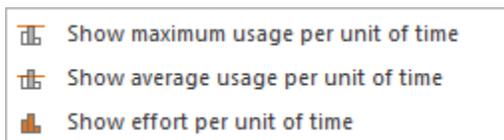
- Assign selected activities to a role.
- Analyse the role usage by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

Additional columns in the table

To switch on additional columns in the table, click the Tab format for a selected view.



Context menu in the Role usage view



- **Show maximum usage per unit of the time** – the maximum required number of personnel resources for each of the roles / qualifications per day, week, etc.
- **Show average usage per unit of the time** – the average required number of personnel resources for each of the roles / qualifications per day, week, etc.
- **Show effort per unit of the time** – planned effort in employee hours (or employee days, respectively) per day, week, etc.

6.12 Role usage with effort

Role usage with effort representation instead of task bars in time scale.

The screenshot displays the '2016 portfolio' window in Rillsoft Project. The main view is a Gantt chart showing effort distribution for various roles from December 2015 to January 2016. A red dashed arrow points from the 'operational concept' task in the Gantt chart to its detailed view below.

Nr.	Name	Effort	50	51	52	53	01	02	03	04	05	06
11.001	programmer - C++	297	3	59	15	24	35	28	53	33	19	28
11.002	programmer - PHP	36		17	19							
11.003	programmer - VBasic	137	13	12		11	19	53	24	1		4
13.001	manager	98				32		14		50	2	
1.3.1	analysis of user input	19				19						
1.3.2	operational concept	27				13		14				
1.11	software product evaluation	34								32	2	
2.1.1	software development planning	18								18		
14.001	designer	202				30	31		20	82	24	15
15.001	analyst	328	3	31	13	43	23	27	40	64	41	43
16.001	support	107						54	45	8		

The detailed view for task '1.3.2 operational concept' shows the following properties:

- Name: operational concept
- Code: [empty]
- Fixed: Duration
- Effort: 27 Ph
- Duration: 3.38 AT (8 Hrs.)
- Activity calendar: Project calendar
- Completed: 0 %
- Fixed costs: 0 €
- Invoice amount: 0 €
- Term of payment: 0 work-day
- Receipt: [empty]

6.13 Role usage and FTE

Role usage and Full Time Equivalent in the timescale.

The screenshot shows the '2016 portfolio' window in Rillsoft Project. The 'FORMAT' menu is open, highlighting the 'FTE' (Full Time Equivalent) option. The Gantt chart below shows resource usage for roles like 'programmer - C++', 'programmer - PHP', 'programmer - VBasic', 'manager', 'designer', 'analyst', and 'support' across the months of December 2015 and January 2016. The 'FTE' option is selected, indicating that the chart is displaying Full Time Equivalent values.

Below the Gantt chart, a dialog box is open for role '11.002 programmer - PHP'. It shows a list of activities with the following columns: Nr., Project, Fixed, Duration, Start, Finish, Role, Quantity, Utilizat..., Effort, and Notes. The activities listed are:

Nr.	Project	Fixed	Duration	Start	Finish	Role	Quantity	Utilizat...	Effort	Notes
<input type="checkbox"/> 1.1.4	software development proc...	Duration	36	03.12.15 16:00	10.12.15 11:00	11.002 programmer...				
<input type="checkbox"/> 1.1.7	software development proc...	Duration	15	10.12.15 11:00	14.12.15 10:00	11.002 programmer...				
<input type="checkbox"/> 1.2.3	software development proc...	Duration	21	14.12.15 10:00	16.12.15 16:00	11.002 programmer...				
<input type="checkbox"/> 1.2.2	software development proc...	Duration	10	14.12.15 10:00	15.12.15 12:00	11.002 programmer...				
<input checked="" type="checkbox"/> 1.2.1	software development proc...	Duration	40	14.12.15 10:00	21.12.15 10:00	11.002 programmer...	1	100	40	
<input checked="" type="checkbox"/> 1.2.4	software development proc...	Duration	36	16.12.15 16:00	23.12.15 11:00	11.002 programmer...	1	100	36	

To calculate the Full Time Equivalent, set the annual working time per employee in the programm environment.

File > Options > General > Annual working time per employee

Options ×

General 

Display
Extended
Customize Ribbon
Quick Access Toolbar

General

Rillsoft_Design:

Default location

Projects: ...

Portfolios: ...

Templates: ...

Reports: ...

Default parameters for new activity

Fix: Disregard team and employee calendar

Duration: h Start of activity only at first shift

Extended

Show help
 Cutoff day move to current date
 Label resource chart
 Represent weekend
 Represent nonworking days
 Calculation of reserve time
 Represent working time

Auto restore: m
Currency:
Undo depth:
Activity are critical, if buffer less than or equal: h
 Read-only projects in the portfolio of grey
 Different project resources substitute resource pool
Annual working time per employee: h/year 

Integration Server

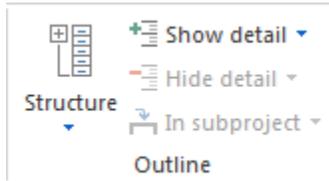
Enter commit comment for project versions Use a proxy server for your LAN

Timeout: s
Adresse:
Port number:
User name:
User name:
Password:
Password:

6.14 Project-specific role

You can structure role usage by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Role -> Project
- Project -> Role



Nr.	Name	Status	Effort	04	05	06	07	08	09	10	11	12
2	Project1		169	150	222	222	410	165	348	249	276	317
3	new_software development proc...		1257	48	104	17						
11.001	programmer - C++		254									
11.002	programmer - PHP		76									
11.003	programmer - V.Basic		142									
13.001	manager		98									
3.1.1	software development planning		18									
3.3.1	analysis of user input		19									
3.3.2	operational concept		27									
3.11	software product evaluation		34									
14.001	designer		242	42	22	15	37	8	40	16	17	40
15.001	analyst		370	42	39	43	31	20	81	29	40	40

Nr.	Name	Project	Duration	Start	Finish	Role	Quantity	Utilizat...	Effort	Notes	
<input checked="" type="checkbox"/>	3.1.1	software development planning	new_software development ...	18	27.01.16 08:00	29.01.16 10:00	13.001 manager	1	100	18	
<input checked="" type="checkbox"/>	3.3.1	analysis of user input	new_software development ...	19	26.02.16 11:00	01.03.16 15:00	13.001 manager	1	100	19	
<input checked="" type="checkbox"/>	3.3.2	operational concept	new_software development ...	27	01.03.16 15:00	07.03.16 09:00	13.001 manager	1	100	27	
<input checked="" type="checkbox"/>	3.11	software product evaluation	new_software development ...	34	22.03.16 11:00	28.03.16 14:00	13.001 manager	1	100	34	

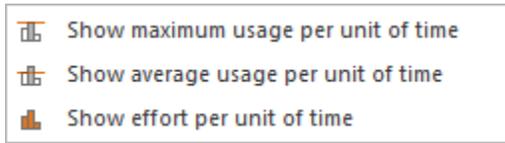
Applications for the Project-specific Role usage view:

- Display of the project's demand for resources in the form of roles for a project.
- Resource allocation from the perspective of roles.
- Project-specific calculation of the usage of every single role.
- Project-specific calculation of the total efforts and total costs of every single role.
- Visualisation of the roles assignation in activities.

You can use the Project-specific Role usage view for the following:

- Assign selected activities to a role.
- Analyse the role usage for a project by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

Context menu in the Role usage view

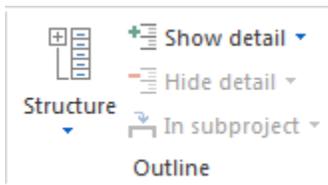


- **Show maximum usage per unit of the time** – the maximum required number of personnel resources for each of the roles / qualifications per day, week, etc.
- **Show average usage per unit of the time** – the average required number of personnel resources for each of the roles / qualifications per day, week, etc.
- **Show effort per unit of the time** – planned effort in employee hours (or employee days, respectively) per day, week, etc.

6.15 Team

You can structure team usage by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Team -> Project
- Project -> Team



The screenshot displays the '2016 portfolio' Gantt chart with columns for February and March 2016. Tasks include 'task 2', 'task 4', 'system test planning', 'software transition planning', 'software development library', 'system requirements', 'software development planning', and 'software installation planning'. A resource pool dialog is open for team '11.001 North - Team A', listing team members Tidy and Eager with their roles and qualifications.

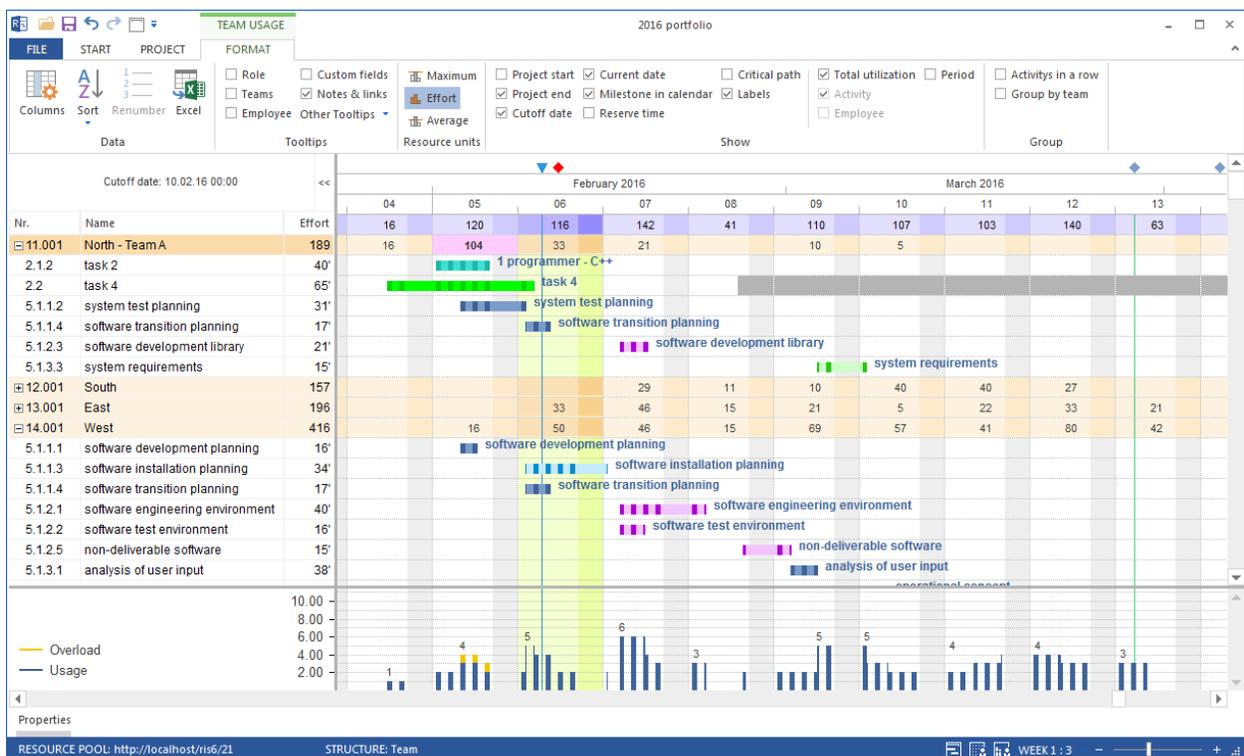
Nr.	Name	Code	Calendar	Non-working days	Working group - team	Role - qualification	Pro...	Costs	Notes
13.01	Tidy			19.07.10-23.07.1...	11.001 North - Team A	11.001 programmer - ...	100	0.00	
13.02	Tidy			19.07.10-23.07.1...	11.001 North - Team A	11.003 programmer - ...	100	0.00	
17.01	Eager				11.001 North - Team A	15.001 analyst	100	0.00	
17.02	Eager				11.001 North - Team A	11.001 programmer - ...	100	0.00	

Application of the Team usage view:

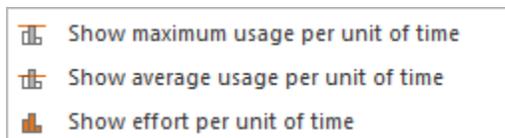
- Display of the project's demand for resources in the form of teams.
- Resource allocation from the perspective of teams.
- Calculation of the usage for every single team.
- Calculation of the total efforts and total costs of every single team.
- Visualisation of the teams assignment to activities.

You can use the Team usage view for the following:

- Assign selected activities to a team.
- Analyse the team usage by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.
- View additional resource chart or break-even chart.



Context menu in the Team usage view



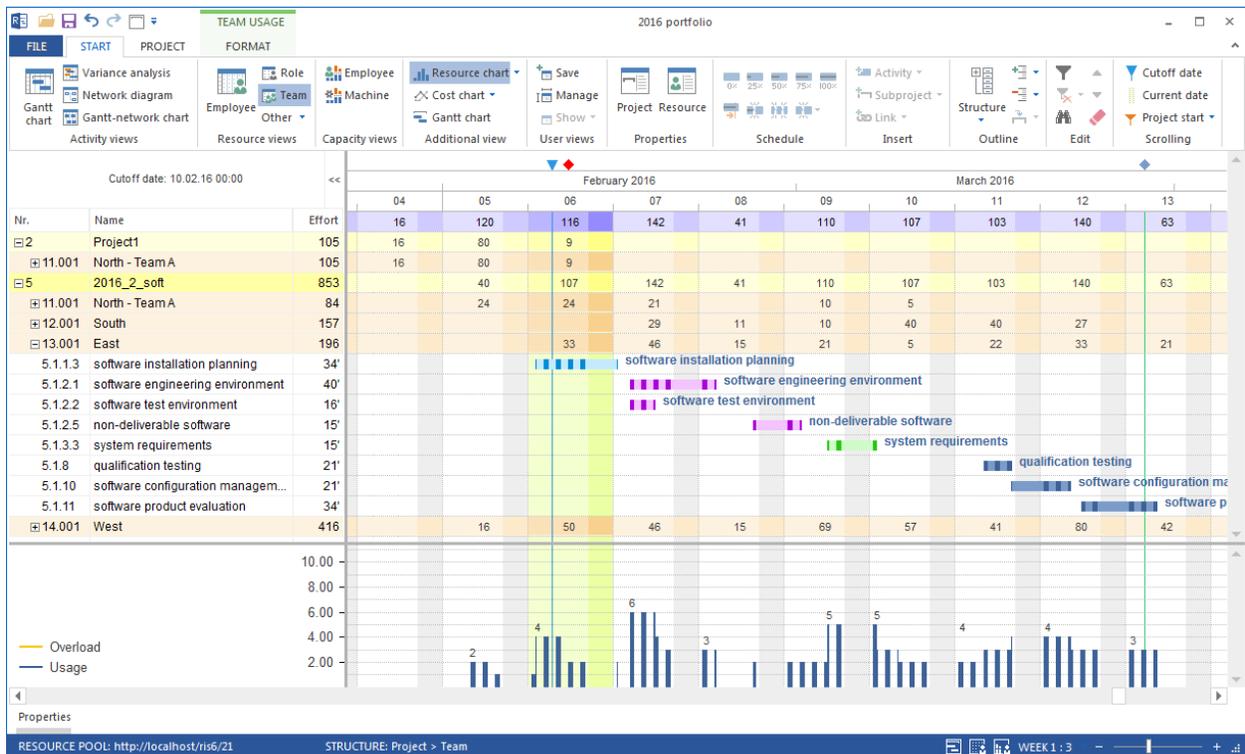
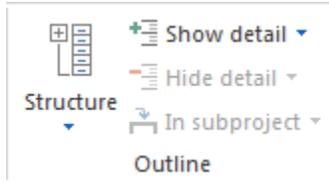
- **Show maximum usage per unit of the time** – the maximum required number of personnel resources for each of the work groups / teams per day, week, etc.
- **Show average usage per unit of the time** – the average required number of team resources / teams per day, week, etc.

- **Show effort per unit of the time** – planned effort in employee hours (or employee days, respectively) per day, week, etc.

6.16 Project-specific team

You can structure team usage by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Team -> Project
- Project -> Team



Application of the Project-specific team usage view:

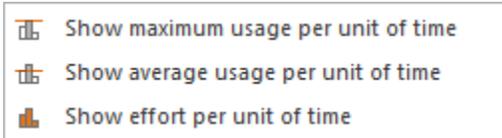
- Display of the project's demand for resources in the form of teams for a project.
- Resource allocation from the perspective of teams.
- Project-specific calculation of the usage for every single team.
- Project-specific calculation of the total efforts and total costs of every single team.
- Project-specific visualisation of the teams assignation to activities for a project.

You can use the Project-specific team usage view for the following:

- Assign selected activities to a team.

- Analyse the team usage for a project by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

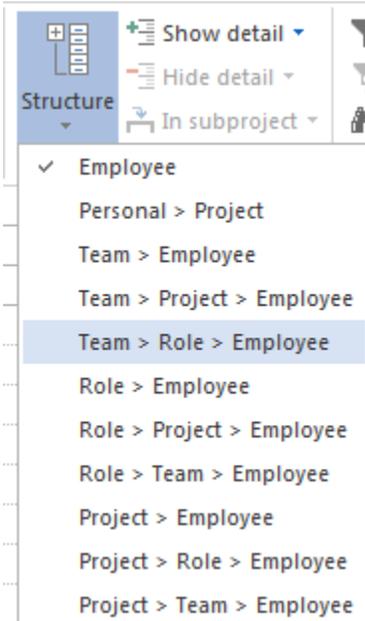
Context menu in the Project-specific team usage view

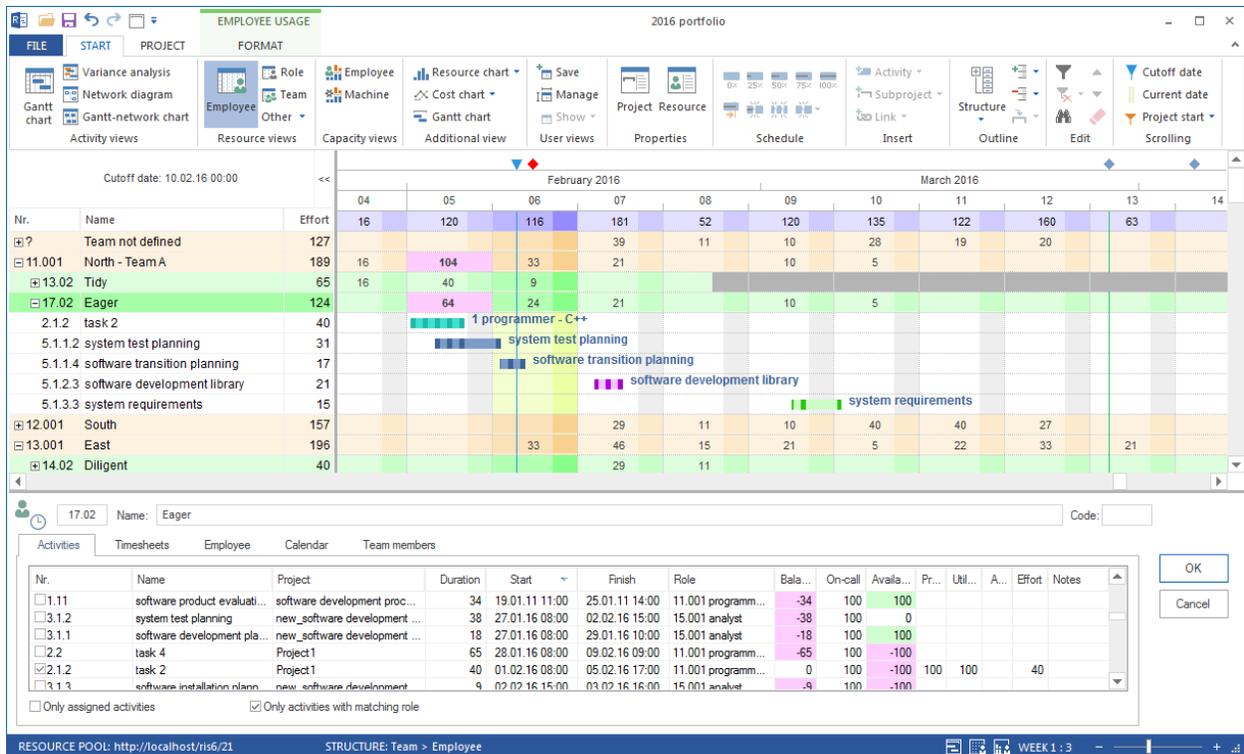


- **Show maximum usage per unit of the time** – the maximum required number of personnel resources for each of the work groups / teams per day, week, etc.
- **Show average usage per unit of the time** – the average required number of team resources / teams per day, week, etc.
- **Show effort per unit of the time** – planned effort in employee hours (or employee days, respectively) per day, week, etc.

6.17 Employee workload

You can structure employee workload by clicking the menu item **Start > Outline > Structure** using the following criteria:





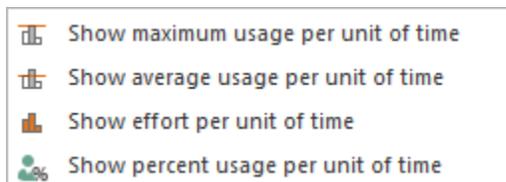
Applications for the Employee workload view:

- Display of the project’s demand for resources in the form of employees in the project.
- Resource allocation from the perspective of employees.
- Calculation of the workload of every single employee.
- Calculation of the total efforts and total costs of every single employee.
- Visualisation of the employees assignment to activities.

You can use the Employee workload view for the following:

- Assign selected activities to an employee.
- Analyse the employee workload by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.
- Check the calendar of employees.

Context menu in the Employee workload view

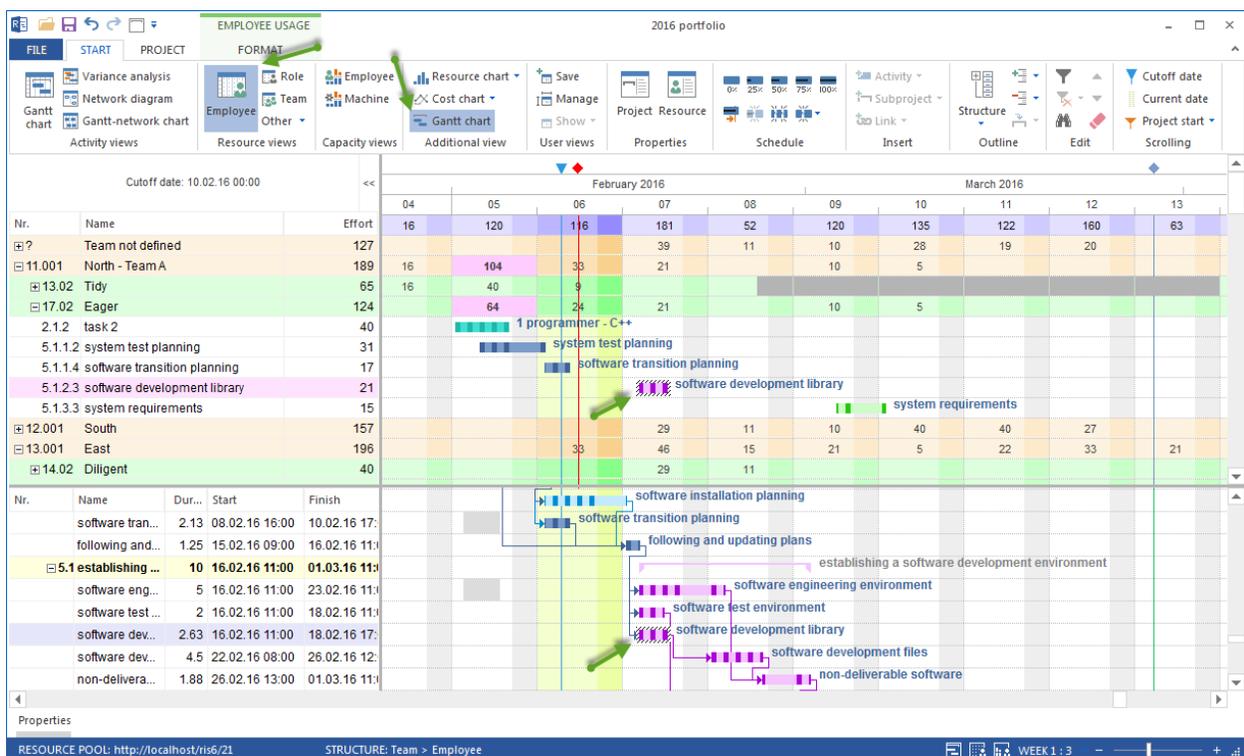
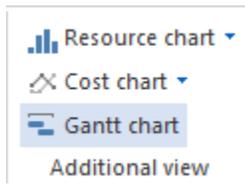


- **Show maximum workload per unit of the time** – The maximum required number of personnel resources per day, week, etc.

- **Show average workload per unit of the time** – The average required number of personnel resources per day, week, etc.
- **Show effort per unit of the time** – Planned effort in employee hours (or employee days, respectively) per day, week, etc.
- **Show percent workload per unit of the time** – Shows the weekly total workload of employees in percent instead in employee hours / employee days.

6.18 Employee workload with an additional Gantt chart

As with other resource views you can add as an additional view the Gantt Chart by clicking the menu item **Start > Additional view > Gantt chart**.

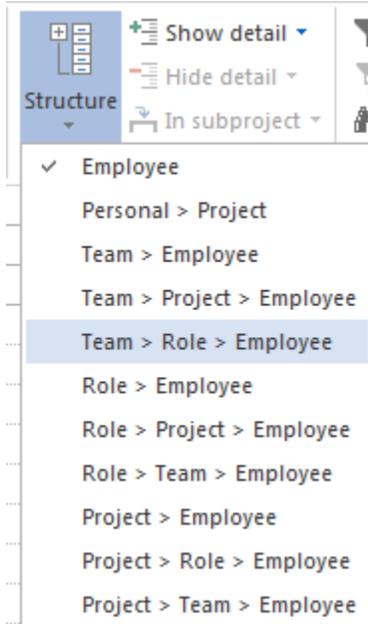


It helps not only to control resource utilization but also to keep the time project progress constantly in mind.

All activities usual for resource views are available here now.

6.19 Project-specific employee workload

You can structure employee workload by clicking the menu item **Start > Outline > Structure** using the following criteria:



Nr.	Name	Effort	February 2016							March 2016						
			04	05	06	07	08	09	10	11	12	13	14	15		
2	Project1	105	16	120	116	181	52	120	135	122	160	63				
13.02	Tidy	65	16	40	9											
17.02	Eager	40		40												
5	2016_2_soft	980		40	107	181	52	120	135	122	160	63				
14.02	Diligent	40			29	11										
15.01	Goeslike	75						8	40	27						
16.02	Sleeper	180			17	29	11	29	32	1	40	21				
17.02	Eager	84		24	24	21		10	5							
18.01	Slow	82				29	11	10	32							
19.01	Fast	156			33	17	4	21	5	22	33	21				
20.02	Think	236				17	4	40	25	40	40	21				
21.02	Consider	127				39	11	10	28	19	20					

Nr.	Name	Project	Duration	Start	Finish	Role	Bala...	On-call	Availa...	Pr...	Util...	A...	Effort	Notes
5.1.1.2	system test planning	2016_2_soft	31	03.02.16 08:00	08.02.16 16:00	15.001 analyst	0	100		100	100		31	
5.1.1.4	software transition planning	2016_2_soft	17	08.02.16 16:00	10.02.16 17:00	15.001 analyst	0	100		100	100		17	
5.1.2.3	software development library	2016_2_soft	21	16.02.16 11:00	18.02.16 17:00	11.001 programm...	0	100		100	100		21	
5.1.3.3	system requirements	2016_2_soft	15	03.03.16 15:00	07.03.16 14:00	15.001 analyst	0	100		100	100		15	

Applications for the Project-specific employee workload view:

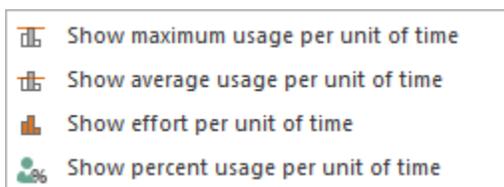
- Project-specific display of the project's demand for resources in the form of employees.
- Resource allocation from the perspective of employees.

- Project-specific calculation of the workload of every single employee.
- Project-specific calculation of the total efforts and total costs of every single employee.
- Visualisation of the employees assignment to activities.

You can use the Project-specific employee workload view for the following:

- Assign selected activities to an employee.
- Analyse the employees workload for each of the projects by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.
- Check the calendar of employees.

Context menu in the Project-specific employee workload view



- **Show maximum workload per unit of the time** – The maximum required number of personnel resources per day, week, etc.
- **Show average workload per unit of the time** – The average required number of personnel resources per day, week, etc.
- **Show effort per unit of the time** – Planned effort in employee hours (or employee days, respectively) per day, week, etc.
- **Show percent workload per unit of the time** – Shows the weekly total workload of employees in percent instead in employee hours / employee days.

6.20 Timesheets tab on the employee view

Here you can display information about the hours worked for a personnel resource.

Prerequisite You or assigned employees can only enter the confirmations in the Rillsoft Integration Server interface.

Activate the tab **Timesheets** in the activities properties window.

Activities

All activities assigned to the employee are listed here.

Name Name of the assigned activities

Target shows the effort scheduled in the activities for this employee

Actual shows how much of the planned effort the employee has already spent on the activities

Open - shows open effort in the activities for this employee

Notes Notes

Whether the effort is displayed in person-hours or person-days depends on the project settings.

Timesheets

The screenshot displays the 'EMPLOYEE USAGE' window in Rillsoft Project. The main view is a Gantt chart showing resource usage for employee 'Goeslike' (ID 15.02) across various activities from May 2023 to August 2023. A red dashed arrow points from the 'Goeslike' entry in the left-hand activity list to the 'Timesheets' tab in the 'Properties' dialog box below. The 'Properties' dialog shows a table of timesheet entries for the selected employee and activity.

Nr.	Name	Effort	Overload
12.01	Superman	56	
13.01	Tidy, John	40	
15.02	Goeslike	184	
4.3	Building planning presentation	64	
4.7	Complete the request list	80	
6.5	Briefing at start of construction	40	
16.02	Sleeper	152	
17.01	Eager	136	
20.02	Think	64	
21.02	Consider	40	

Employees:		Timesheets:				
Nr.	Name	Target	Actual	Open		
<input checked="" type="checkbox"/>	4.3 Building planning presentation	64	0	64		
<input type="checkbox"/>	4.7 Complete the request list	80	0	80		
<input type="checkbox"/>	6.5 Briefing at start of construction	40	0	40		

Calendar week	Day	Date	Target	Actual	Shift
week 21/2023	Wednesday	24.05.23	8		
week 21/2023	Thursday	25.05.23	8		
week 21/2023	Friday	26.05.23	8		
week 21/2023	Saturday	27.05.23			
week 21/2023	Sunday	28.05.23			
week 22/2023	Monday	29.05.23	8		
week 22/2023	Tuesday	30.05.23			

Here you can see for a activity selected on the left how the employee has worked through the task on a daily basis.

Calendar week in which calendar week did the employee work for the activities

Day on which day of the week the employee worked for the activities

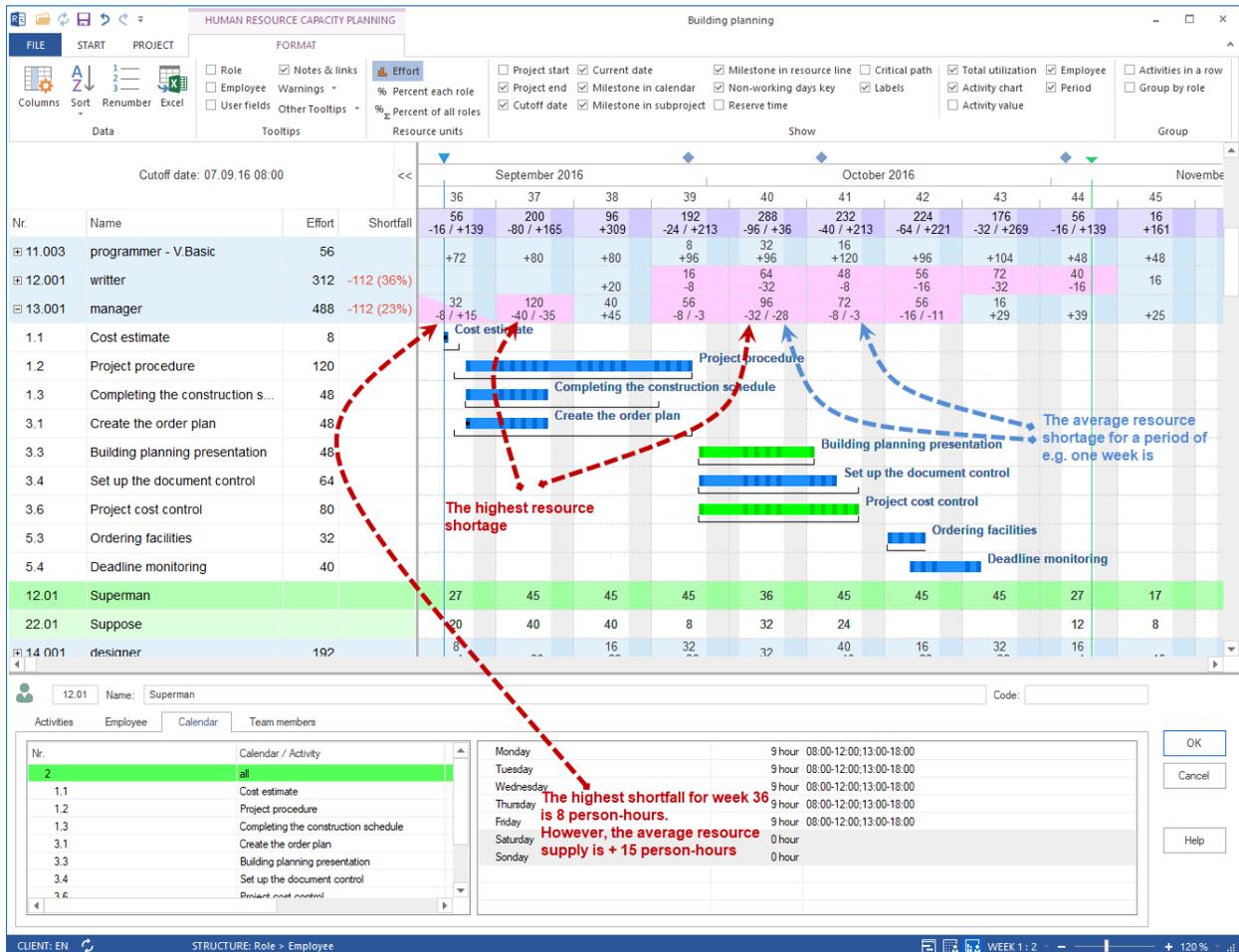
Data Date

Target shows the effort planned for this employee on the day and for the activities

Actual shows how much of the planned effort the employee has already completed during the day

Shift Time of day

6.21 Human Resource Capacity Leveling



If the scheduling of roles and machine types is completed, the Human Resource Capacity Leveling view helps you to estimate whether there is sufficient personnel capacities to execute the project or where potential bottlenecks may occur.

The **Human Resource Capacity Leveling** is determined by the number of employees, their qualifications, time of employment and workplace (project, subproject). The **Human Resource Capacity Leveling** shows not only the number of the required hours and days for employees and roles, but also indicates excess and shortfall (supply minus demand = contingency). Moreover, the **Human Resource Capacity Leveling** view helps you to detect employees that match the requirements of the demand.

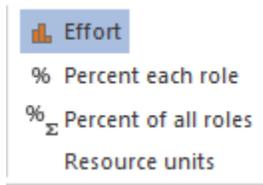
Employees whose employee hours / days are in boldface, have already been assigned to this activity. If they are displayed in both boldface and red colour, you have an assignment conflict, which means that the employee has been assigned to several activities at one time.

You can use the **Human Resource Capacity Leveling** view to do the following:

- Detect overloaded resources as well as the scale and cause of this event.
- View the working capacity for each of the resource role.
- Calculate the numbers of work hours that have been assigned to the individual employees.
- Determine the time the employee is available for additional assignments.

- Assign resources optimally.

Context menu in the Human Resource Capacity Leveling view



6.22 Relative capacity requirements percent each role

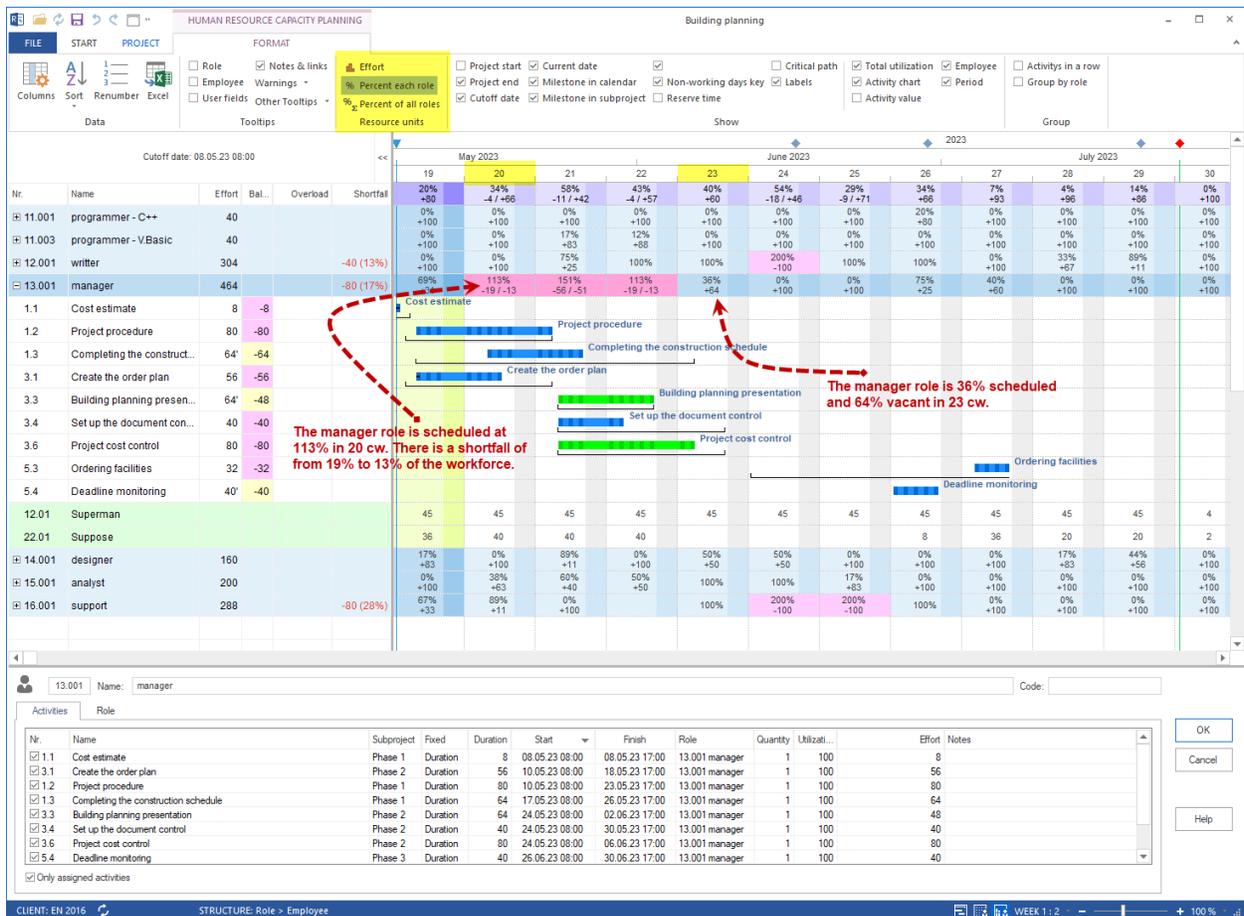
Percentage per professional role

This option calculates the percentage by which a demand for an occupational role may have been met or undermet with the available skilled labour.

The capacity utilisation per role is calculated using the formula:

$$(\text{Actual capacity used} / \text{total capacity}) \times 100$$

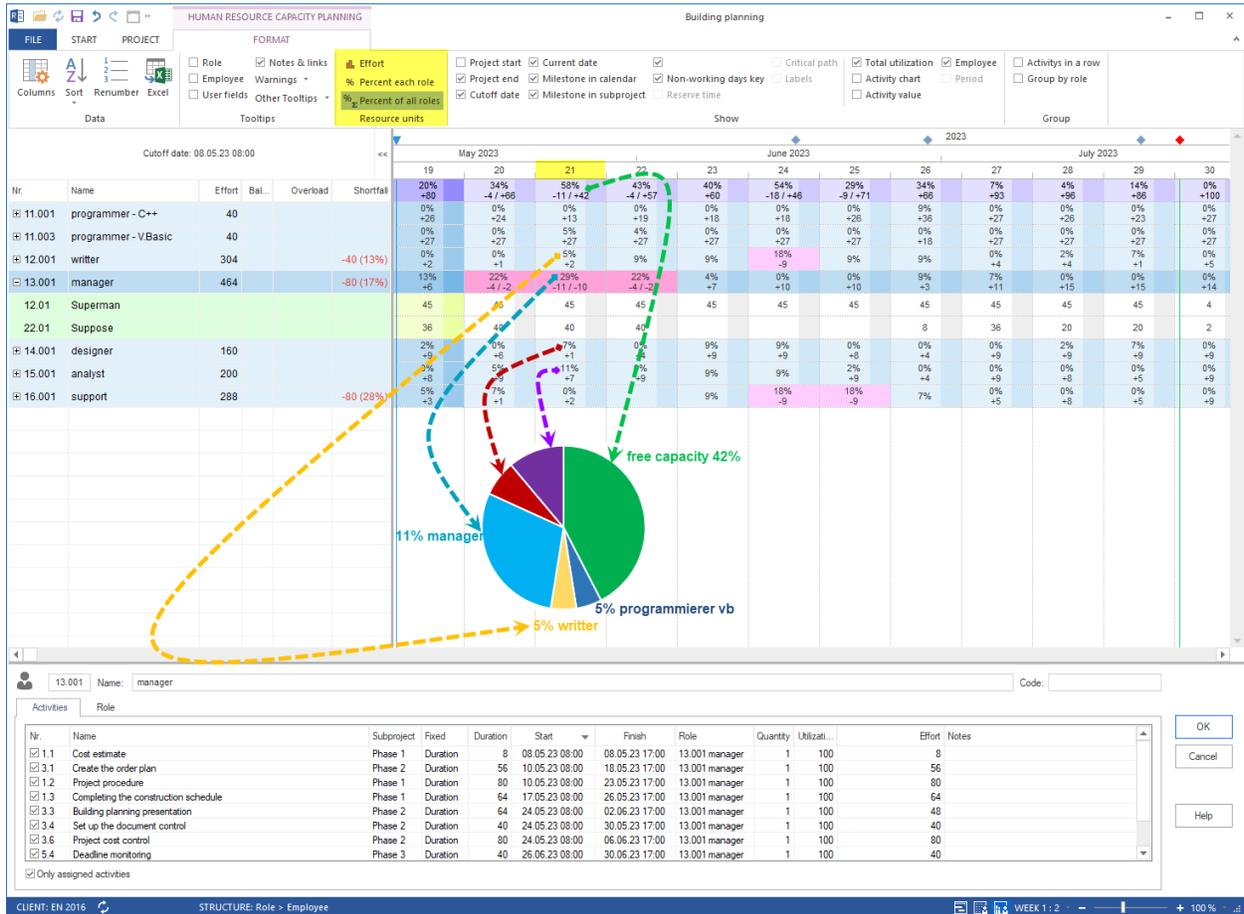
The existing resource capacity is defined as the basis, i.e. how many person-days are available per role, for example, is taken as 100%.



Percentage of all professional roles

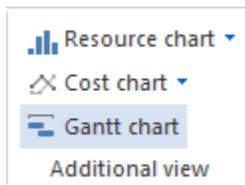
A percentage share of an occupational role is calculated in relation to a common need for all roles.

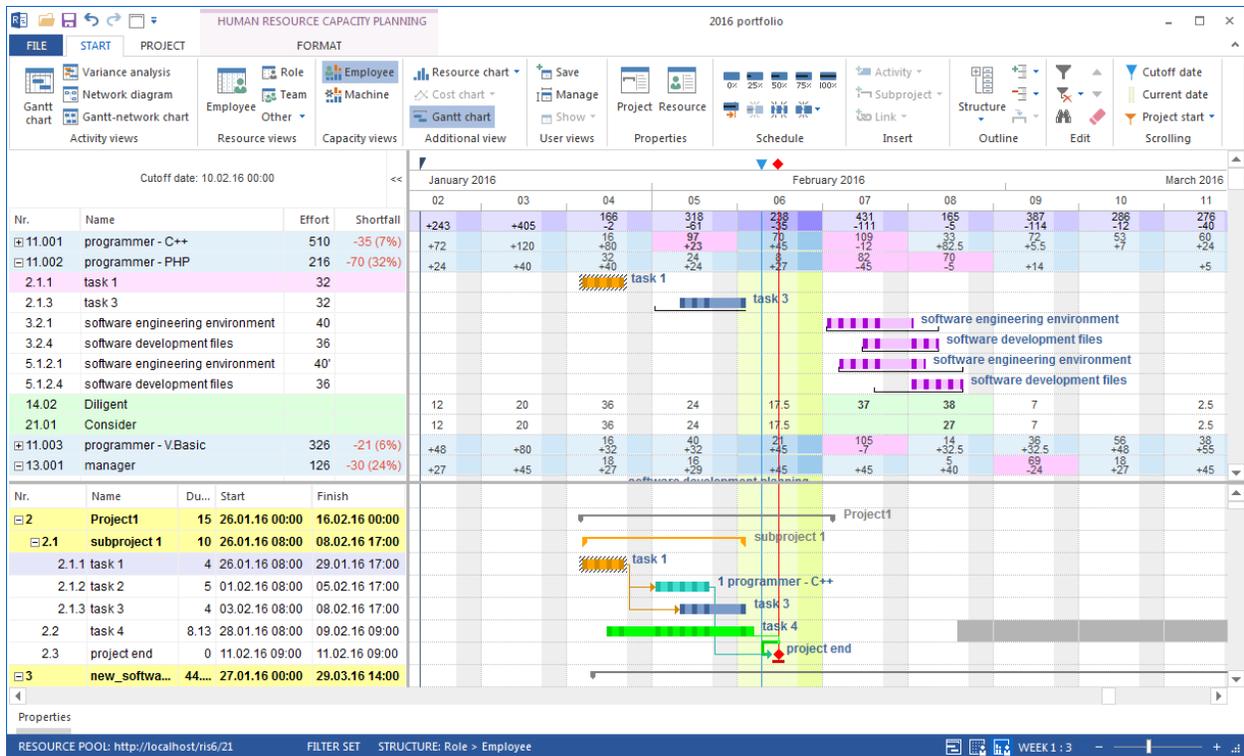
(Actual capacity used per roll/total capacity of all rolls) x 100



6.23 Human Resource Capacity Leveling with an additional Gantt chart

As with other resource views, you can add as an additional view the Gantt Chart by clicking the menu item **Start > Additional view > Gantt chart**.



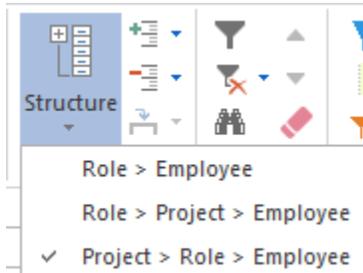


It helps not only to control a capacity alignment but also to keep the time project progress constantly in mind.

All activities usual for resource views are available here now.

6.24 Project-specific Human Resource Capacity Leveling

You can structure employee usage by menu item **Start > Outline > Structure** using the following criteria:



The screenshot shows the 'HUMAN RESOURCE CAPACITY PLANNING' window for a '2016 portfolio'. The main area is a resource chart for the project 'new_software development process'. The chart displays effort and shortfall for various roles (e.g., programmer, manager, analyst, support) across months from January to March 2016. A context menu is open over the resource chart, showing options like 'Effort', 'Percent each role', 'Percent of all roles', and 'Resource units'. The context menu also includes 'General', 'Preferred team', 'Shared machine types', 'Shared machinery', 'Format', 'Color', 'User fields', and 'Notes'.

You can use the ****Project-specific Human Resource Capacity Leveling** to do the following:**

- Detect overloaded resources as well as the scale and cause for this event.
- View the working capacity for each of the resource role per project.
- Calculate the numbers of work hours that have been assigned to the individual employees per project.
- Determine the time the employee is available for additional assignments.

Context menu in the Human Resource Capacity Leveling view

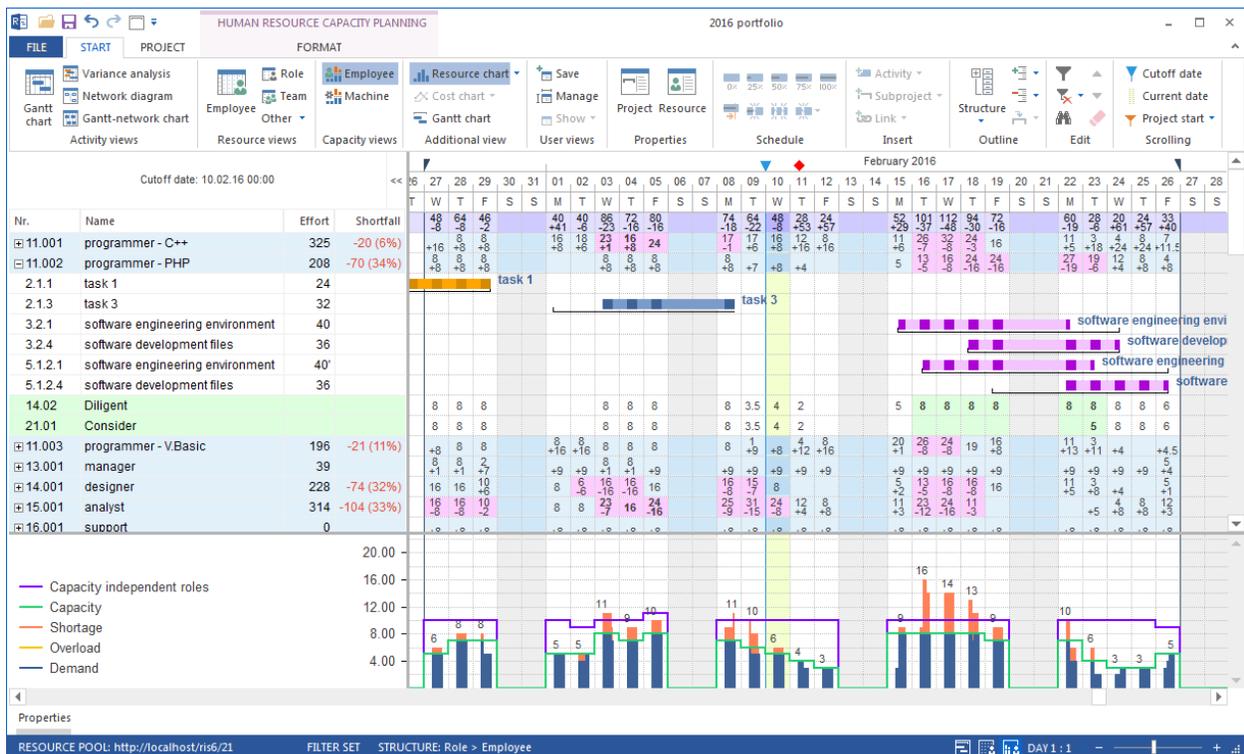
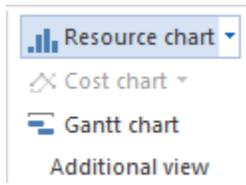
The context menu shows the following options:

- Effort
- % Percent each role
- % Σ Percent of all roles
- Resource units

- **Show maximum usage per unit of the time** – The maximum required number of personnel resources for each of the roles / qualifications per day, week, etc.
- **Show average number per unit of the time** - average required number of human resources per day, week, etc.
- **Show effort per unit of the time** – Planned effort in employee hours (or employee days, respectively) per day, week, etc.

6.25 Human Resource Capacity Leveling with additional resource chart

As with other resource views you can add as an additional view the resource chart by clicking the menu item **Start > Additional view > Resource chart**.



Additional resource chart contrasts the demand (blue and red bars) for each of the roles / qualifications to the capacity (green line).

If you click on the required roles / qualification in the table, the chart shows the required number (per unit) of resources as bars marked blue.

The green line shows the available number (per unit) of employees.

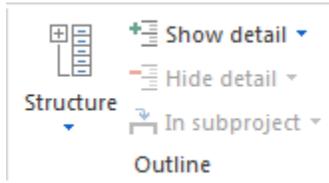
If the green line (supply of employees) is above the blue bar (demand for employees), there is an excess of employees.

However, if the green line runs across a blue bar, a red bar shows a shortfall of employees.

6.26 Material requirement

You can structure material requirement by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Material -> Project
- Project -> Material



Nr.	Name	Unit	Quan...	Notes
2	Project1		3	
12.001	Metals - Steel	100...	2	
13.001	Non-ferrous metals - Aluminium	1 kg	1	
5	2016_2_soft		9	
12.001	Metals - Steel	100...	3	
5.1.1.3	software installation planning	100...	2	
5.1.2.2	software test environment	100...	1	
12.002	Metals - Stainless steel	100...	3	
5.1.1.2	system test planning	100...	1	
5.1.1.4	software transition planning	100...	1	
5.1.1.5	following and updating plans	100...	1	
13.002	Non-ferrous metals - Copper	10 kg	3	

Material group	Material type	Costs
Metals	Steel	0.00
Metals	Stainless steel	0.00
Metals	Spring steel	0.00
Non-ferrous metals	Aluminium	0.00
Non-ferrous metals	Copper	0.00

Applications for the Material requirement view:

- Display of the project's demand for materials.
- Resource allocation from the perspective of resources.
- Calculation of the total efforts and total costs of every single material.
- Visualisation of the materials allocation to activities.

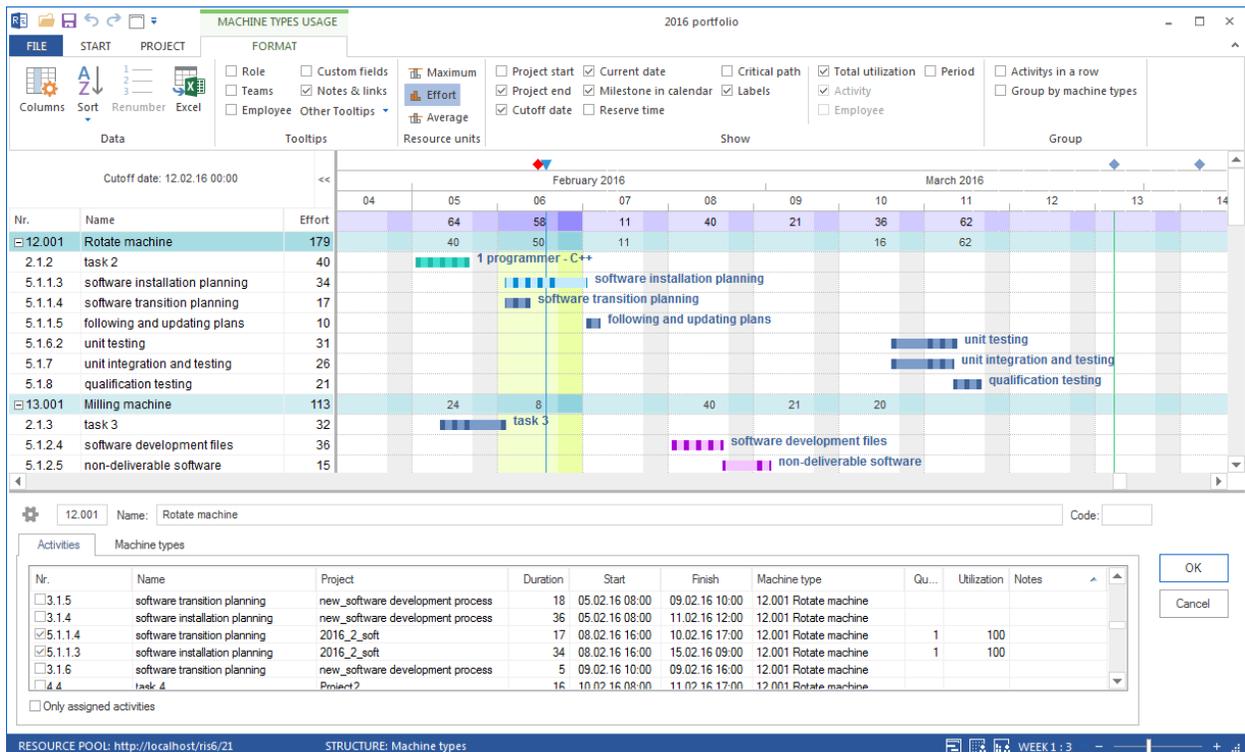
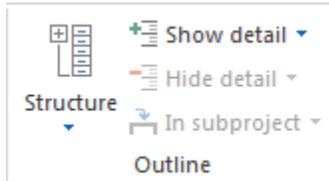
You can use the Material requirement view for the following:

- Assign selected activities to a material.
- Analyse the material requirements by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

6.27 Machine types

You can structure machine types by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Machine types -> Project
- Project -> Machine types



Applications for the Machine Types view:

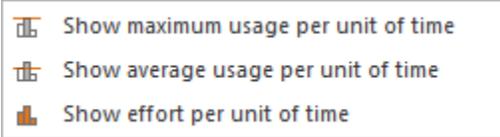
- Display of the project's demand for machine types.
- Ressource allocation from the perspective of machine types.
- Calculation of the usage for every single machine type.
- Calculation of the total efforts and total costs of every single machine type.
- Visualisation of the machine types allocation in activities.

You can use the Machine types view for the following:

- Assign selected activities to a machine type.
- Analyse the a machine type usage by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

Context menu in the Machine types view

If you open the context menu in the **Machine types row**, the following commands appear:



- **Show maximum usage per unit of the time** – The maximum required number of machine resources for each of the machine types / machine groups per day, week, etc.
- **Show average usage per unit of the time** – The average required number of machine type resources per day, week, etc.
- **Show effort per unit of the time** – Planned effort in employee hours (or days, respectively) per day, week, etc.

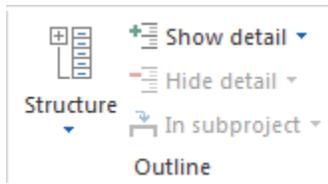
If you open the context menu in the **Activity row**, the following commands are available:

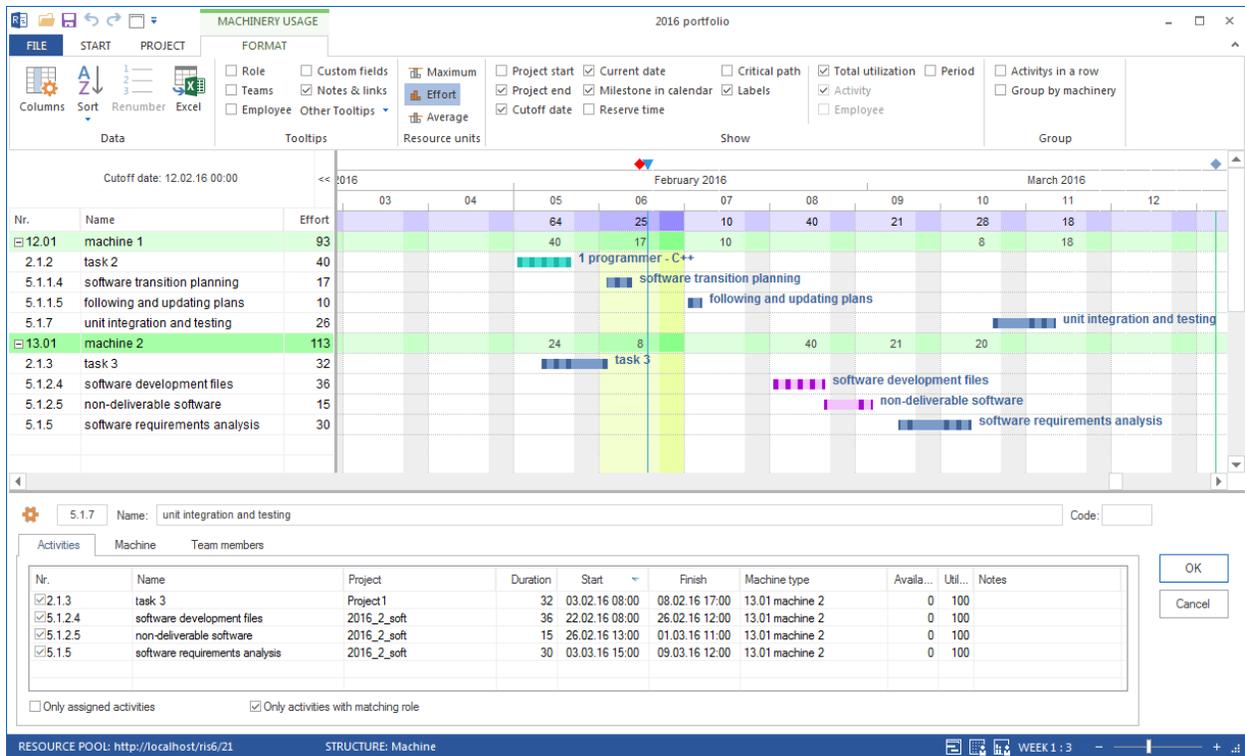
- **Share** - the selected activity shares the machine type together with other activities.
- **Use exclusively** - the selected activity uses the machine type exclusively.

6.28 Machinery usage

You can structure Machinery usage by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Machine -> Project
- Project -> Machine





Applications for the Machinery Usage view:

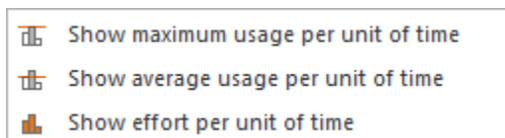
- Display of the project's demand for machines in the project.
- Ressource allocation from the perspective of machines.
- Calculation of the usage of every single machine.
- Calculation of the total efforts and total costs of every single machine.
- Visualisation of the machines allocation in activities.

You can use the Machinery Usage view for the following:

- Assign selected activities to a machine.
- Analyse the machine usage by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

Context menu in the Machinery Usage view

If you open the context menu in the **Machine** row, the following commands appear:



- **Show maximum usage per unit of the time** – the maximum required number of machine resources for each of the machine groups - machine types per day, week, etc.
- **Show average usage per unit of the time** – the average required number of machine resources per day, week, etc.

- **Show effort per unit of the time** – planned effort in machine hours (or machine days, respectively) per day, week, etc.

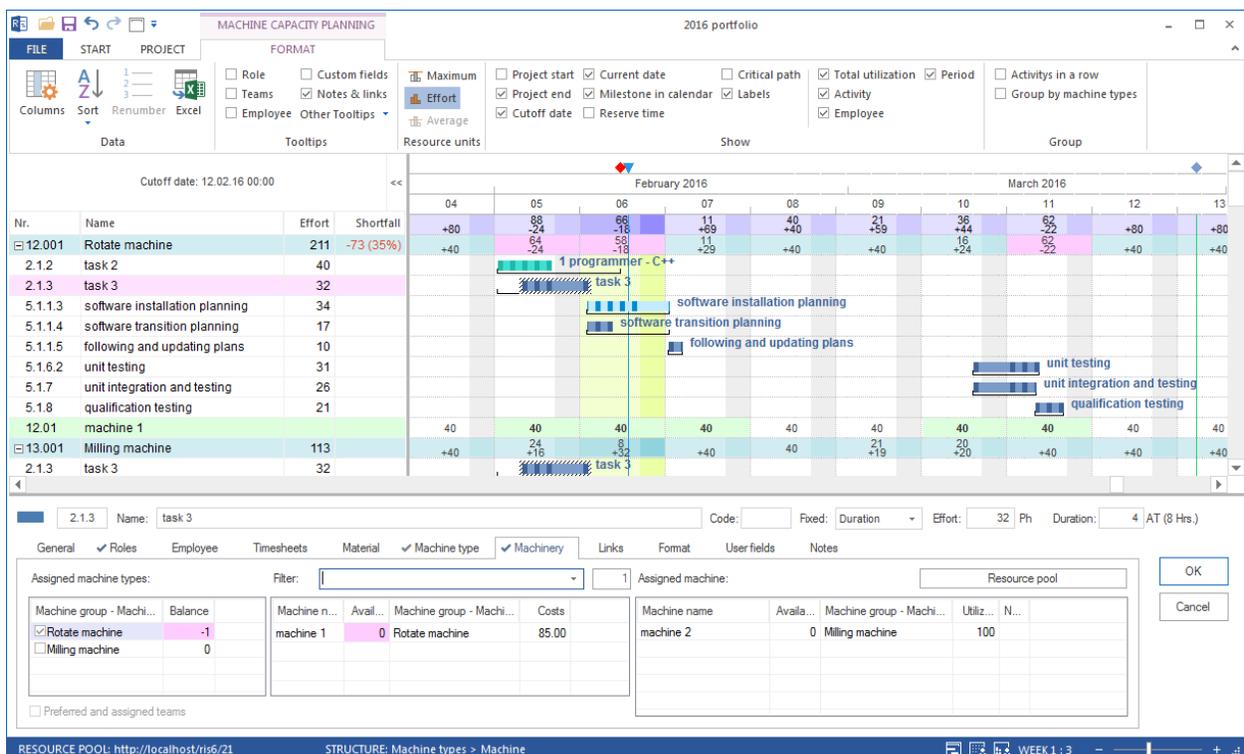
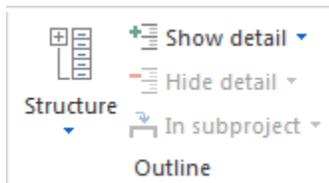
If you open the context menu in the **Activity row**, the following commands are available:

- **Share** - the selected activity shares the machine together with other activities.
- **Use exclusively** - the selected activity uses the machine exclusively.

6.29 Machine capacity planning

You can structure Machinery use by clicking the menu item **Start > Outline > Structure** using the following criteria:

- Machine types -> Machine
- Machine types -> Project -> Machine
- Project -> Machine types -> Machine



Applications for the Machine capacity planning view:

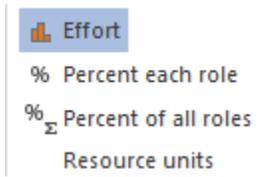
- Display of the project's demand for machines in the project.
- Calculation of the usage of every single machine.
- Calculation of the total efforts and total costs of every single machine.

- Visualisation of the machines allocation in activities.

You can use the Machine capacity planning view for the following:

- Analyse the machine usage by means of filter settings.
- Change the timescale.
- Quick access to the resource pool.

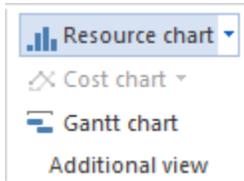
Context menu in the Machine capacity planning view

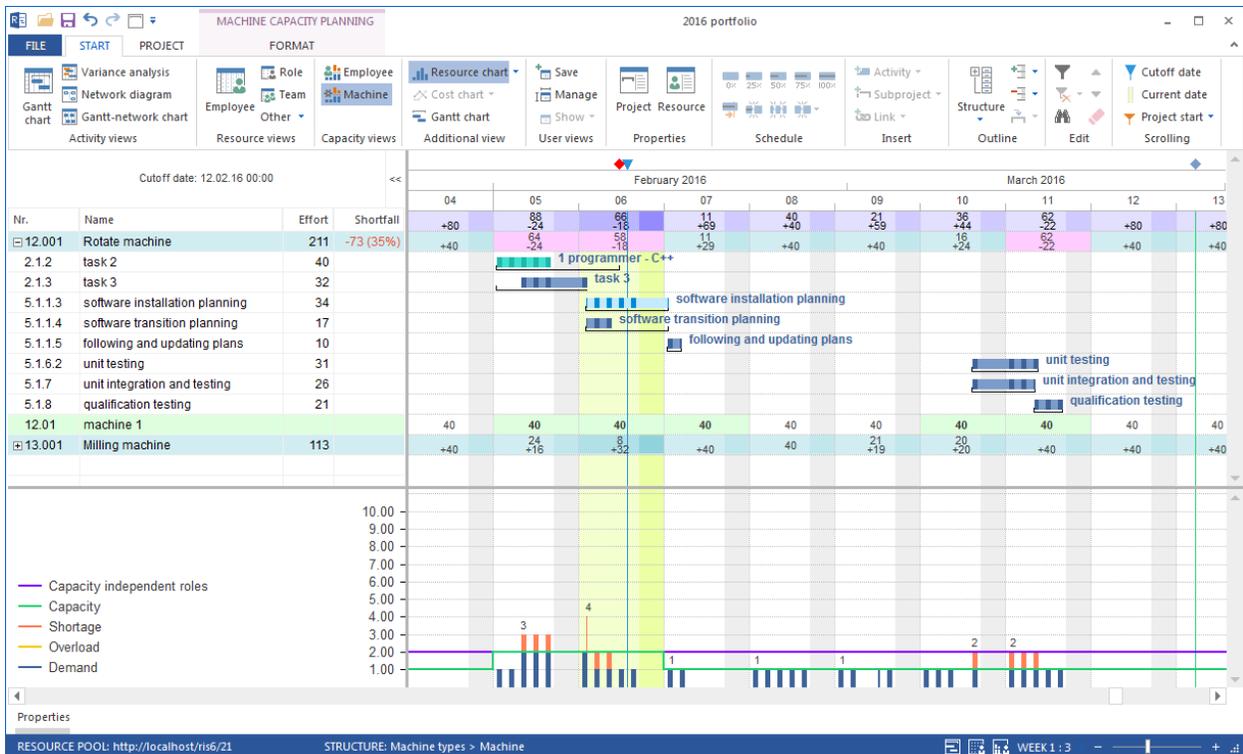


- **Show maximum usage per unit of the time** – the maximum required number of machine resources for each of the roles / qualifications per day, week, etc.
- **Show effort per unit of the time** – planned effort in machine hours (or machine days, respectively) per day, week, etc.

6.30 Machine capacity planning with additional resource chart

As with other resource views you can add as an additional view the resource chart by clicking the menu item **Start > Additional view > Resource chart**.





Additional resource chart contrasts the demand (blue and red bars) for each of the machine groups / machine types to the capacity (green line).

If you click on the required machine group / machine type in the table, the chart shows the required number (per unit) of resources as bars marked blue.

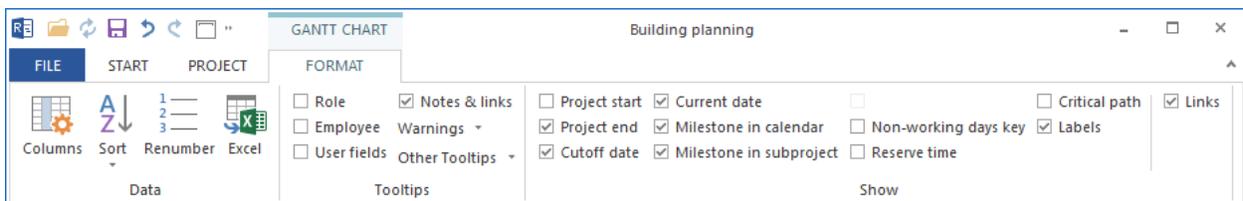
These show the sum of the machine capacity requirements (per unit, for example, a day, a week, a month, etc.). The bars are displayed in blue, while the resource requirements do not exceed the available supply.

The green line shows the available number (per unit) of machines. If the green line (supply of machines) is above the blue bar (demand for machines), there is an excess of machines.

However, if the green line runs across a blue bar, a red bar shows a shortfall of machines.

6.31 Customise format views

All views have a **Format** tab where numerous functions for view customisation are grouped together. Depending on the format view, the available options may vary.



Data

Block **Data** provides the following functionality:

- **Columns** Adjust the column order in the task table

- **Sort** Sort the sequence of tasks in the project according to various criteria such as start time, name, etc.
- **Renumber** Renumber the tasks and sub-projects after editing the plan.
- **Excel** Export the view to MS Excel, if necessary with several levels and columns displayed in the table.

Tooltips

appear as tooltips and/or warnings when you move the cursor over an operation bar.

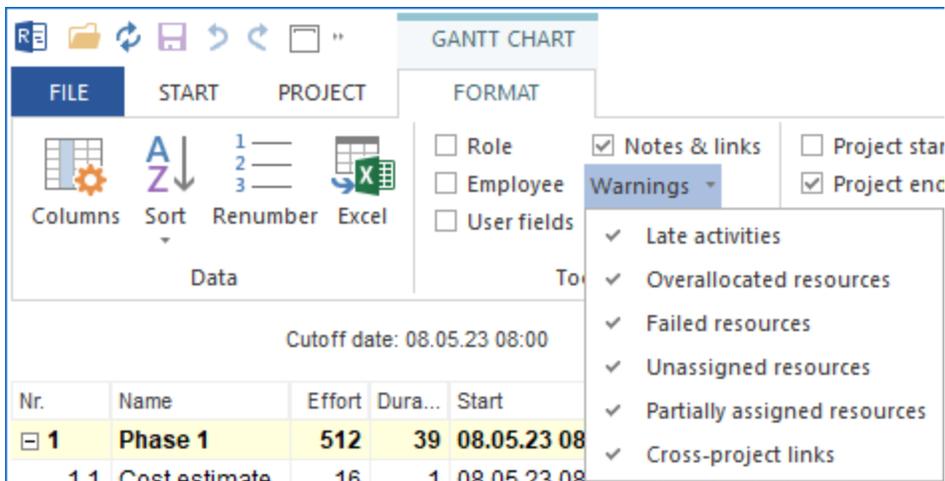
The following tooltips are possible:

- Roles
- Employees
- User defined fields
- Notes & Links
- Other tooltips

The screenshot shows the Rillsoft Project software interface. At the top, there is a 'GANTT CHART' tab. Below it, a 'FORMAT' section contains several checkboxes: 'Role', 'Employee', 'User fields', 'Notes & links', 'Warnings', 'Other Tooltips', 'Project st', 'Project e', and 'Cutoff da'. A red dashed arrow points to the 'Other Tooltips' dropdown menu, which is open and shows a list of options: Teams, Material, Machine types, Machine, Start-finish date, Start-finish when moving, Duration, Effort, and Completed. Below the 'FORMAT' section, there is a table with columns: 'Nr.', 'Name', 'Effort', 'Dura...', and 'Start'. The table contains the following data:

Nr.	Name	Effort	Dura...	Start
1	Phase 1	512	39	08.05.23 08
1.1	Cost estimate	16	1	08.05.23 08
1.2	Project proce...	80	10	10.05.23 08
1.3	Completing t...	128	8	17.05.23 08
1.4	Create task li...	136	17	26.05.23 08
1.5	Order	152	19	05.06.23 08

You can switch on the following warnings:

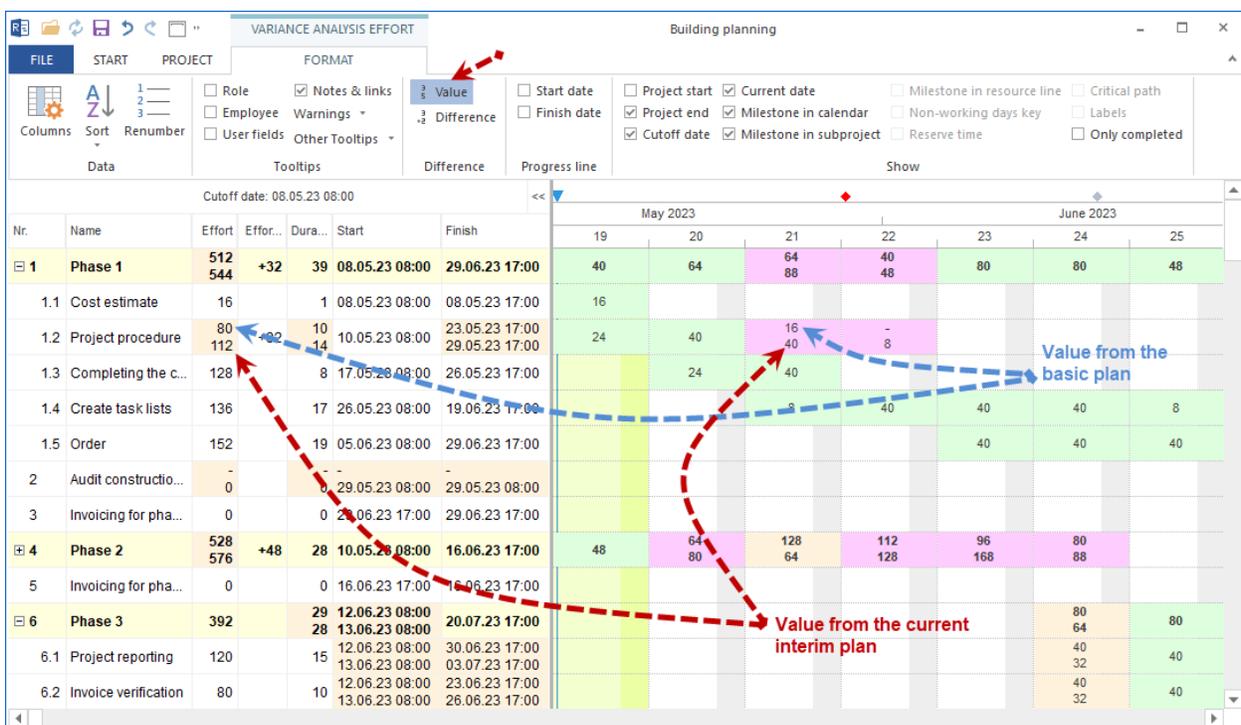


Progress line only for **Variance analysis Time**.

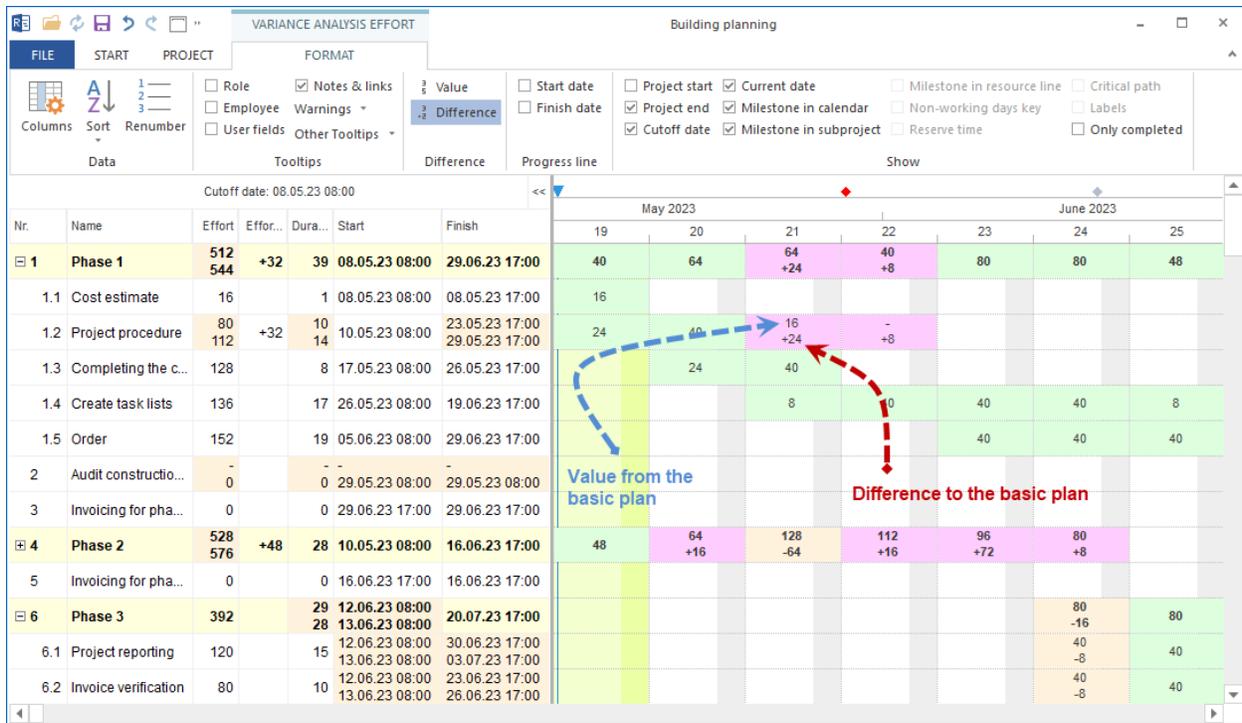
- **Start dates** a progress line is mapped in relation to the start dates of activities
- **End dates** a progress line is mapped in relation to the end dates of activities

Difference for **Variance analysis of Effort and Costs**

- **Value** the values from the baseline plan and the values from the current interim plan are shown



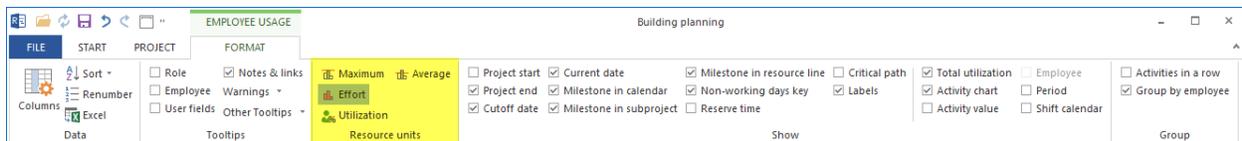
- **Difference** the values from the basic plan and a difference to the basic plan values are calculated



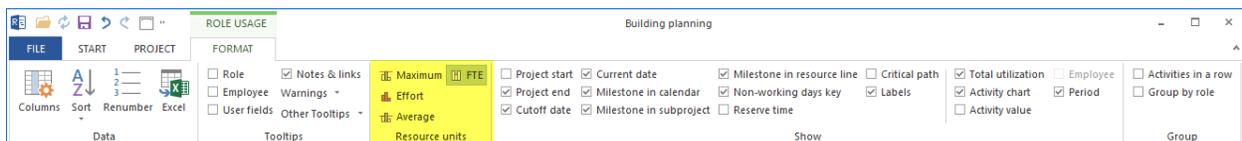
Resource units

For the **Employees Utilisation** view, you can have the resource utilisation per time unit displayed in different variants:

- **Maximum** - maximum number of human resources required per day, week, etc.
- **Average** - average number of human resources required per day, week, etc.
- **Effort** - planned effort in person-hours or person-days per day, week, etc.
- **Utilisation (Percentage)** - enables the total utilisation of human resources by day or week to be displayed as a percentage instead of person-hours/days.



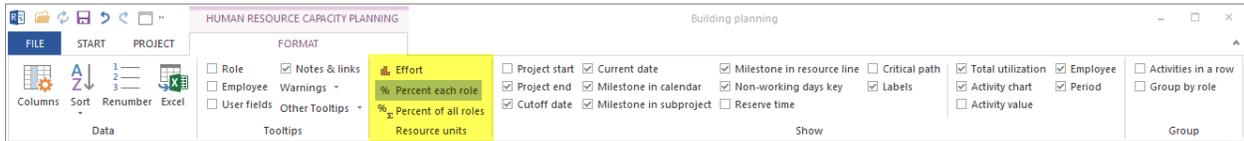
If you display the resource units at the **Role Utilisation View** in **FTE** full-time equivalent, the **FTE Full Time Equivalent (FTE)** option shows you the standard performance capability of a resource in a specific time period (e.g. 1 year) in a company.



In the view **Capacity Employee** you can calculate a resource requirement either in resource units such as person-hours/days or in percentages according to professional roles:

- **Effort** a required resource demand is compared with an available offer related to the project settings, e.g. person-hours or person-days.
- **Percentage per role** shows to what percentage a demand for an occupational role is covered or undercovered with existing personnel resources.

- **Percentage of all roles** calculates the percentage of an occupational role in relation to a demand for all qualifications.



Show

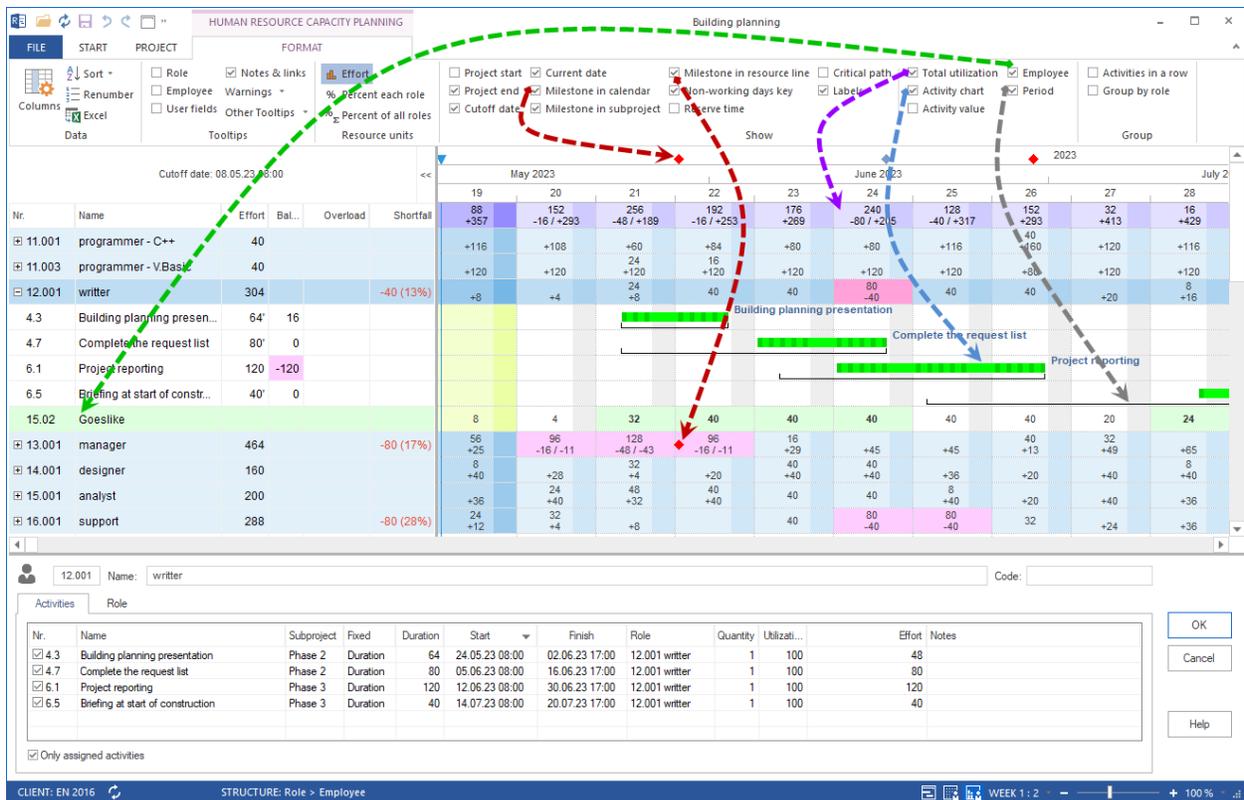
This block contains the options that allow you to refine the graphical representation of the project.

For all views except the network diagram and Gantt network chart

- **Project start** shows a project start as an additional vertical line in the Gantt chart.
- **Project end** shows a project end as an additional vertical line in the Gantt chart
- **Cutoff date** shows a cutoff date as an additional vertical line in the Gantt chart
- **Current date** shows a period in the Gantt chart with a background colour where the current date is located
- **Milestone in calendar** Milestones are shown/hidden at the top of the calendar bar.
- **Milestone in subproject/project** Milestones are shown/hidden on a collapsed subproject bar.
- **Non-working days key** Designations for non-working days, e.g. U for holiday, are shown/hidden in the Gantt chart.
- **Reserve time** shows earliest and latest possible operation items
- **Critical path** shows in red colour operations that belong to the critical path.
- **Labels** the labels are shown/hidden in the Gantt chart
- **Links** show/hide the links between operations

For all Resource views

- **Milestone in resource line** Milestones are shown/hidden on a resource line, provided that the resources are assigned to the milestones.
- **Total utilization** shows the summed resource utilisation per view in the title area of the chart
- **Activity chart** the activities bars are displayed in resource views
- **Activity value** the effort values for the activities are displayed in resource views
- **Employee** the human resources can be seen in a capacity view
- **Period** shows the free time periods within which you can move the activities.

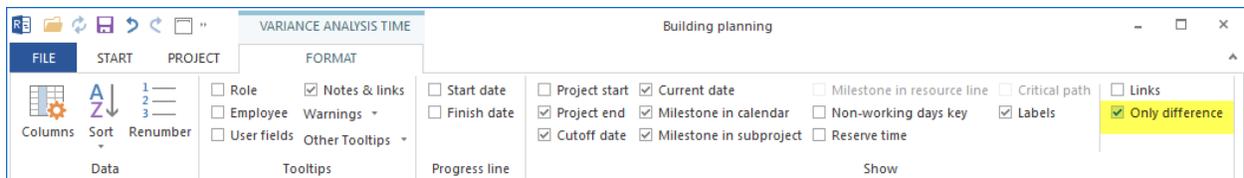


For Employee view

- **Shift calendar** The shift calendars assigned to the employees are displayed with background colour.

For Variance analysis Time view

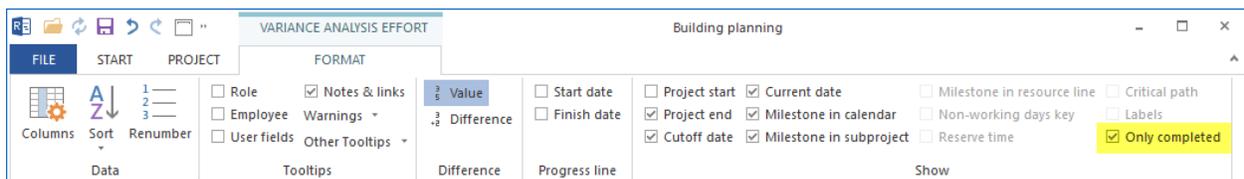
- **Only difference** only those activities and sub-projects are displayed that have a difference to the selected base plan.



For Variance analysis of Effort and Costs view

- **Only completed** only the effort or cost values are compared for the activities where the work done, e.g. the completed percentage or completed effort is higher than zero. If an activity is 100% complete, the current effort or cost is compared with the planned values for the whole activity.

However, if a task is only partially completed, e.g. 50%, then the current 50% effort is compared to the planned 50% effort of the task.



Group

The option **Activities in one row** can make the graphical representation look compact. In doing so, it might be useful to switch off the **Labels** from the **Show** block.

The option **Group by employees** is useful when a staff member may have several professional roles or belong to different work groups and you want to map all his activities together.

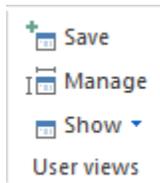
6.32 User views

You can save the actual view with the saved unit of time, the filter and combinations with additional charts as a user view, e.g. employee and gantt chart.

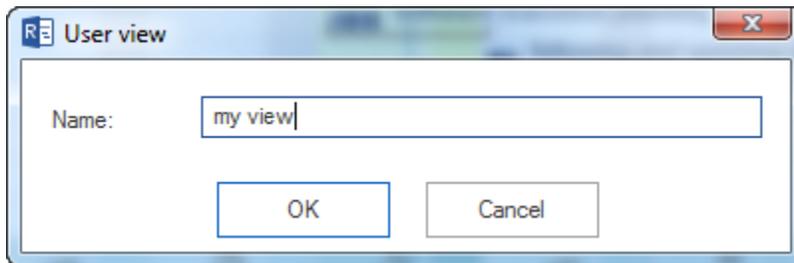
It allows you to create and edit your own views.

In order to create an user view, do as follows:

- set up a view with required settings such as time scale, filters, additional chart, etc.
- click **Start > User views > Add**.

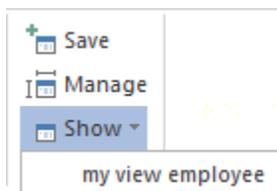


- add a name for your view.



- click OK.

In order to display the view, click **Start > User views > Show**.

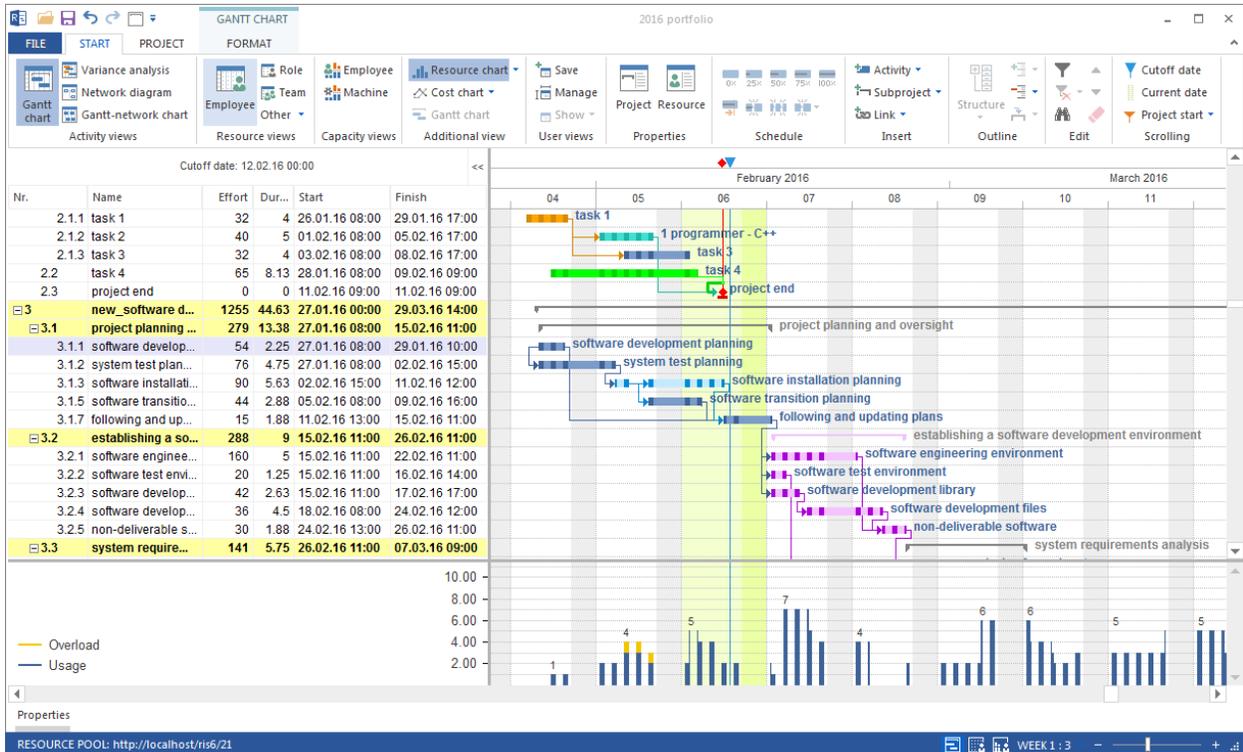
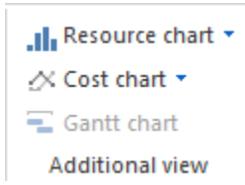


Manage the user views

You can change the names order of the saved views by clicking the menu item **Start > User views > Manage**.

6.33 Additional resource chart

You can add resource chart as an additional view by clicking the menu item **Start > Additional View > Resource chart**.

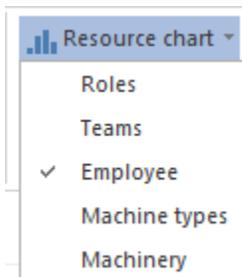


Application of the additional resource chart:

- Visualisation of the resource usage of a project.
- Analyse the resource usage by means of filter settings.

Selection by resource types

You can filter out additional resource chart using the following criteria:

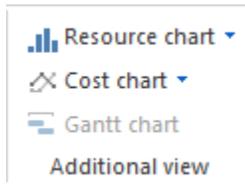


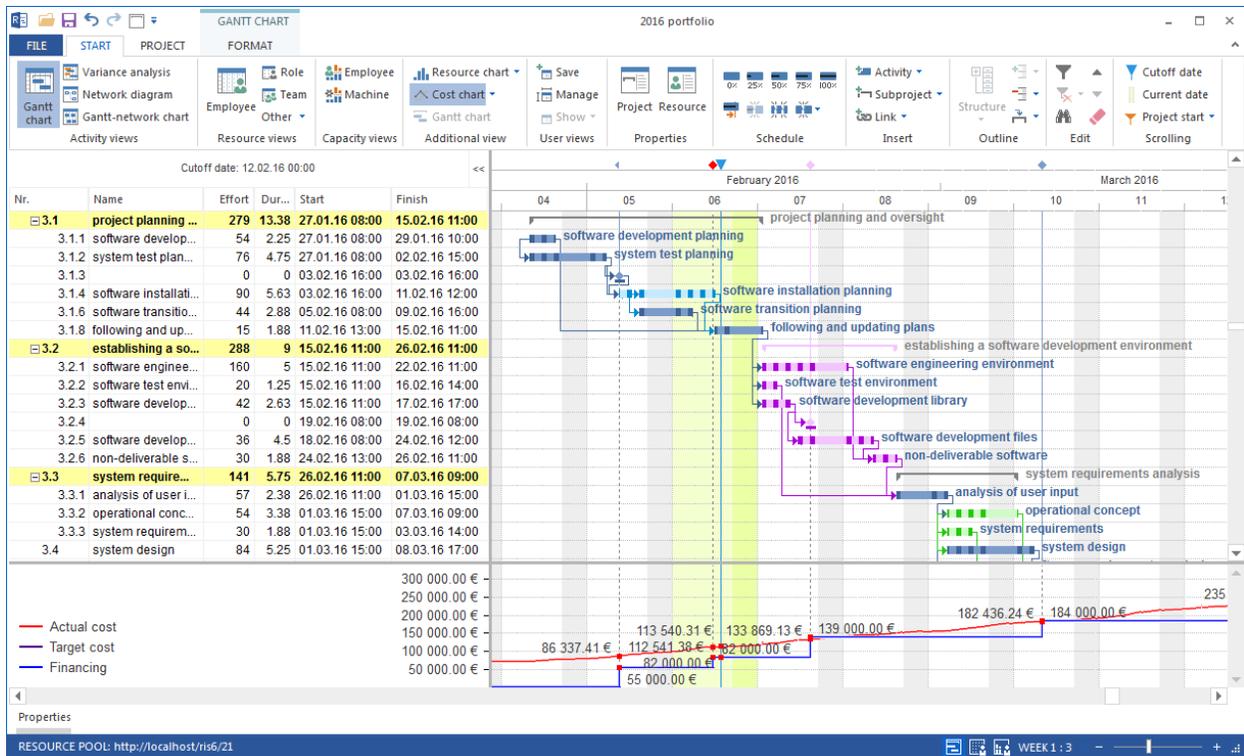
You can open an additional resource chart in the following views:

- Activity view
 - Gantt chart
 - Gantt-network chart
- Resource view
 - Role
 - Team
 - Employee
 - Machine types
 - Machine
 - Machine requirements
- Capacity view
 - Employee
 - Machine

6.34 Additional cost chart

You can add cost chart as an additional view by clicking the menu item **Start > Additional View > Cost chart**.



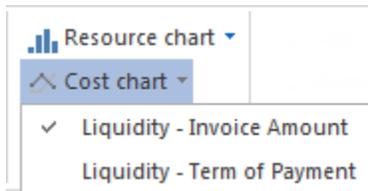


Application of the additional cost chart:

- Visualisation of the target and actual costs.
- Analysis of the target and actual costs.

Selection by type of financing

You can filter out additional cost chart using the following criteria:



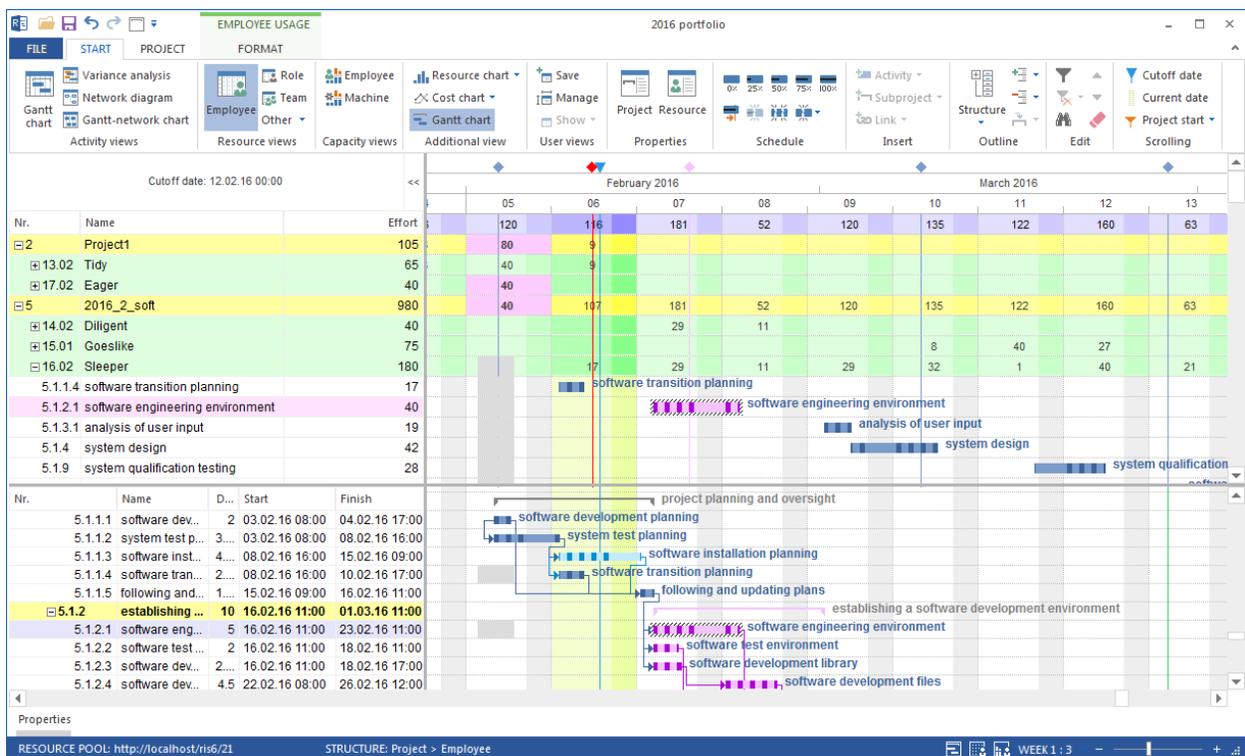
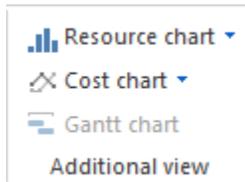
You can open an additional cost chart in the following views:

- Activity view
 - Gantt chart
 - Variance analysis
 - Gantt-network chart
- Resource view
 - Role
 - Team
 - Employee
 - Machine types

- Machine
- Material requirements

6.35 Additional gantt chart

You can add gantt chart as an additional view by clicking the menu item **Start > Additional View > Gantt chart**.



Application of the additional gantt chart:

- Visualisation of a project's progress.

You can open an additional gantt chart in the following views:

- Resource view
 - Role
 - Team
 - Employee
 - Machine types
 - Machine
 - Material requirements

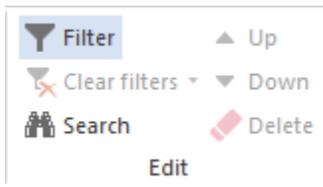
- Capacity view
 - Employee
 - Machine

6.36 Filter

You can use the filter to define the information you want to display.

Determine filters

- Click on the menu **Start > Edit > Filter**



- Mark the according check box.
- Select the required resource from the drop down menu.
- Click on the button **OK**.

 Filter
✕

Filter text:

Project / Subproject: Building planning ▾

Period of: 08.05.23 ▾ 08:00 to: 24.07.23 ▾ 12:00

Hide completed activities

Resources _____

Show only overloaded resources

Only already planned resources to choose from offer

Nr.	Name	Code	Costs
<input type="checkbox"/> Roles			
<input type="checkbox"/> 15.001	analyst		70.00
<input type="checkbox"/> 14.001	designer		60.00
<input type="checkbox"/> 13.001	manager		60.00
<input type="checkbox"/> 11.001	programmer - C++		50.00
<input type="checkbox"/> 11.003	programmer - V.Basic		50.00
<input type="checkbox"/> 16.001	support		30.00
<input type="checkbox"/> 12.001	writer		30.00
<input type="checkbox"/> Teams			
<input type="checkbox"/> 11.001	North - Team A		120.00
<input type="checkbox"/> 12.001	South		240.00
<input type="checkbox"/> 14.001	West		100.00
<input type="checkbox"/> Employee			
<input type="checkbox"/> 21.02	Consider (11.003 programmer - V.Basic)		40.00
<input type="checkbox"/> 17.01	Eager (15.001 analyst)		50.00
<input type="checkbox"/> 15.02	Goeslike (12.001 writer)		40.00
<input type="checkbox"/> 16.02	Sleeper (14.001 designer)		50.00
<input type="checkbox"/> 12.01	Superman (13.001 manager)		50.00
<input type="checkbox"/> 20.02	Think (15.001 analyst)		40.00
<input type="checkbox"/> 13.01	Tidy, John (11.001 programmer - C++)		40.00
<input type="checkbox"/> Material			
<input type="checkbox"/> 12.003	Metals - Spring steel		170.00
<input type="checkbox"/> 12.002	Metals - Stainless steel		267.00
<input type="checkbox"/> 12.001	Metals - Steel		156.00
<input type="checkbox"/> 13.001	Non-ferrous metals - Aluminium		20.00
<input type="checkbox"/> 13.002	Non-ferrous metals - Copper		150.00
<input type="checkbox"/> Machine types			
<input type="checkbox"/> 13.001	Milling machine		90.00
<input type="checkbox"/> 12.001	Rotate machine		85.00
<input type="checkbox"/> Machine			
<input type="checkbox"/> 12.01	machine 1		85.00
<input type="checkbox"/> 13.01	machine 2		90.00
<input type="checkbox"/> Category			
<input type="checkbox"/> Status			
<input type="checkbox"/> Customer			

OK
Cancel
Help

The following filters are available:

Free text

A free-text filter applies to all views except the network/bar network plan and is suitable for filtering out according to the following criteria:

- Activity/subproject names
- code
- User defined fields
- Notes

In addition, search criteria can be **combined**, such as **Activity Name and Notes**.

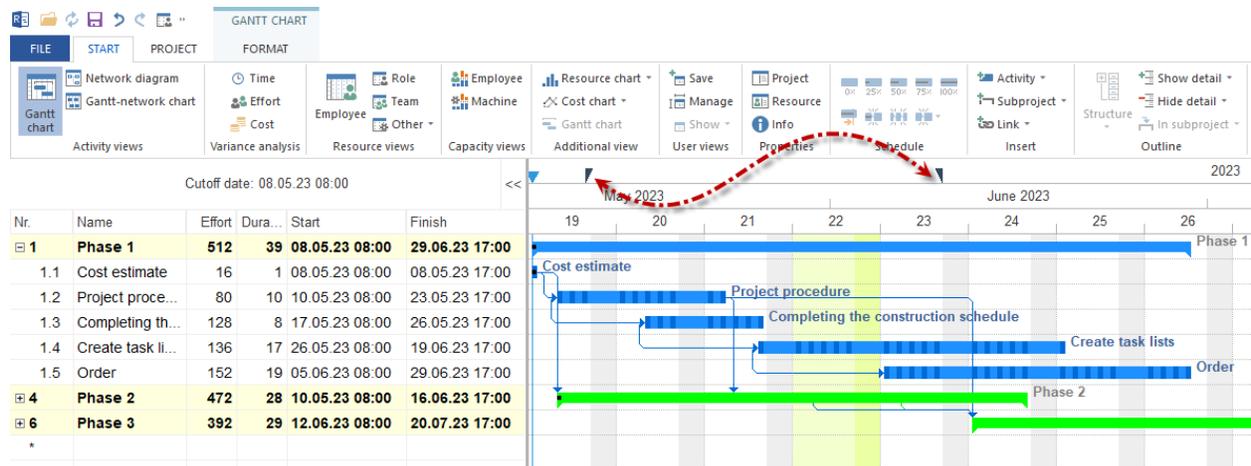
Structure filter or Project / subproject filter

Displays information about activities and resources for the selected subprojects only. You can set the Structure filter in all views.

Time filter

Displays information about activities and resources for specific periods of time only.

Alternative You can set the time filter with the **mouse** by clicking the left button and selecting a start date and a finish date.



You can set a report period filter in gantt chart, variance analysis and all resource views.

Hide completed activities

The filter hides already completed tasks and helps to exclude irrelevant information from project presentation.

It is suitable in the activities views such as the Gantt chart, resource views.

Note In **capacity views** allows this filter to take out the resources of completed activities and provide other tasks as free capacities.

Show only overloaded resources

The filter helps to detect overloaded resources. You can use it in the Employee workload and Machinery.

Offer only planned resources for selection

If this check box is not marked, all resources in the resource pool will be available for selection. The activation of this filter makes only those resources available for selection that have been already used in this subproject / project.

This filter can be set in the views Role usage, Team utisage, Employee workload, Human resource capacity planning, Material, Machine types, Machinery and Machine capacity planning.

Note In capacity views this filter refers to roles. I.e. switched on option displays only roles, which are already planned in the project/portfolio. If the option is switched off, all the roles from the resource pool are listed in the capacity view. Accordingly, the employee list below is changed.

Role filter

If resources are assigned to activities in the form of roles or employees, they can be included in the role filter.

You can set the role filter in the activities views such as the Gantt chart and Role usage.

Team filter

If resources are assigned to activities in the form of teams, they can be included in the team filter.

You can set the team filter in the activities views such as the Gantt chart and Team usage.

Employee filter

If resources are assigned to activities in the form of employees, they can be included in the employee filter.

You can set the employee filter in the activities views such as the Gantt chart, resource and capacity views and Employee workload.

Material filter

If resources are allocated to activities in the form of materials, they can be included in the material filter.

You can set the material filter in the activities views such as the Gantt chart and Material requirements.

Machine type filter

If resources are allocated to activities in the form of machine types, they can be included in the machine type filter.

You can set the machine type filter in the activities views such as the Gantt chart and Machine types.

Machinery filter

If resources are allocated to activities in the form of machines, they can be included in the machinery filter.

You can set the machinery filter in the activities views such as the Gantt chart and Machinery.

Project Categories

When project categories are assigned to projects, they can be included in the project category filter and be used in the portfolio.

You can set the project category filter on a Gantt chart, resource and capacity views.

Project Status

When project statuses are assigned to projects, they can be included in the project status filter and used in the portfolio. project status filter and be used in the portfolio.

You can set the project status filter on a Gantt chart, resource and capacity views.

Project Clients

When project clients are assigned to projects, they can be included in the project client filter and be used in the portfolio.

You can set the project client filter on a Gantt chart, resource and capacity views.

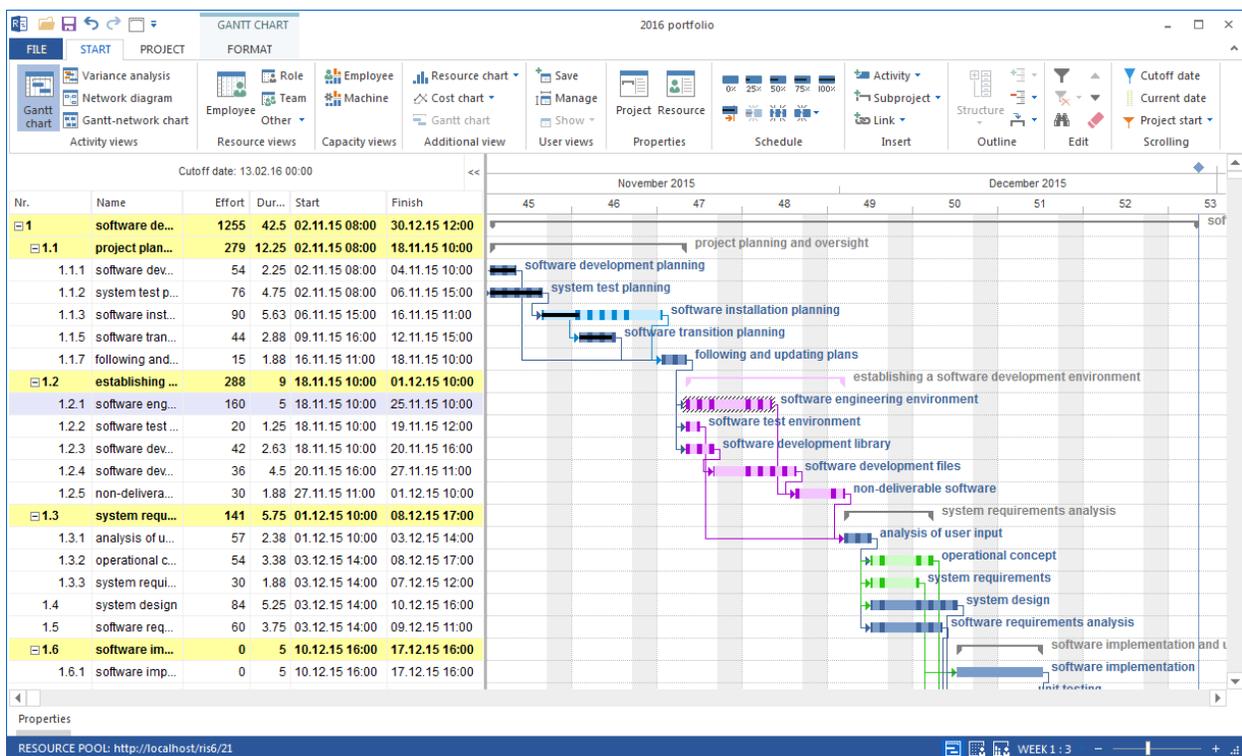
PROJECT PORTFOLIO

7.1 Project portfolio

A product portfolio includes several projects and allows:

- Cross-project capacity planning
- Optimal resource utilization between several projects
- Simulations

You can take all the current projects of the company in a portfolio together and / or add projects in several portfolios.



Requirement: Only the projects that share a common resource pool, may be included in the project portfolio.

All views from the Gantt chart to the resource chart are available for the project portfolio. In the project portfolio you can run all the activities similar to a conventional project, that is, you can create activities, allocate resources, correct processes or save outputs.

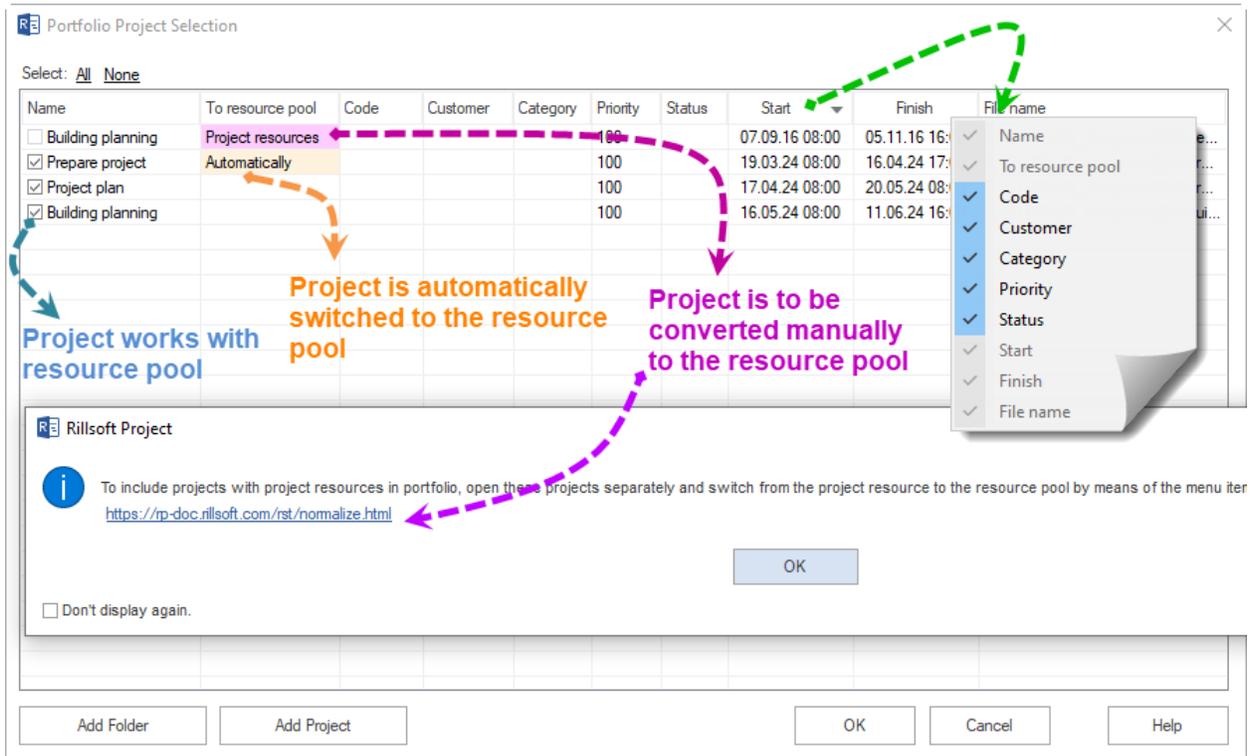
Note A **new project** can not be created in the portfolio. You should create a new project separately and then add a portfolio.

7.2 New project portfolio

In order to open a new project portfolio, do as follows:

- Select the menu item **File > Open new project portfolio**.
- The dialogue window **Portfolio Project selection** appears.
- Click on the button **Add Folder**.
- Select the folder which contains the required projects.
- Click on the button **OK**.

Note the dialogue window **Portfolio Project selection**. It provides the projects that can be selected for the project portfolio.



Note: Only projects that share a common resource pool can be included in the project portfolio.

If projects are not marked and have a red background in the **To resource pool** column, this indicates a difference between project resources and the resource pool.

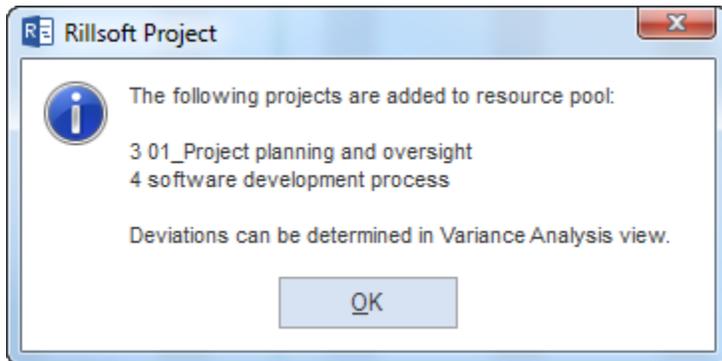
Include projects with project resources in the portfolio

Deviating projects being coloured grey can be added to the portfolio as follows:

- **Automatically** Automatic replacement of project resources

The option **Replace deviating project resources by resource pool** updates the project resources by adding the resource pool at every opening of the portfolio.

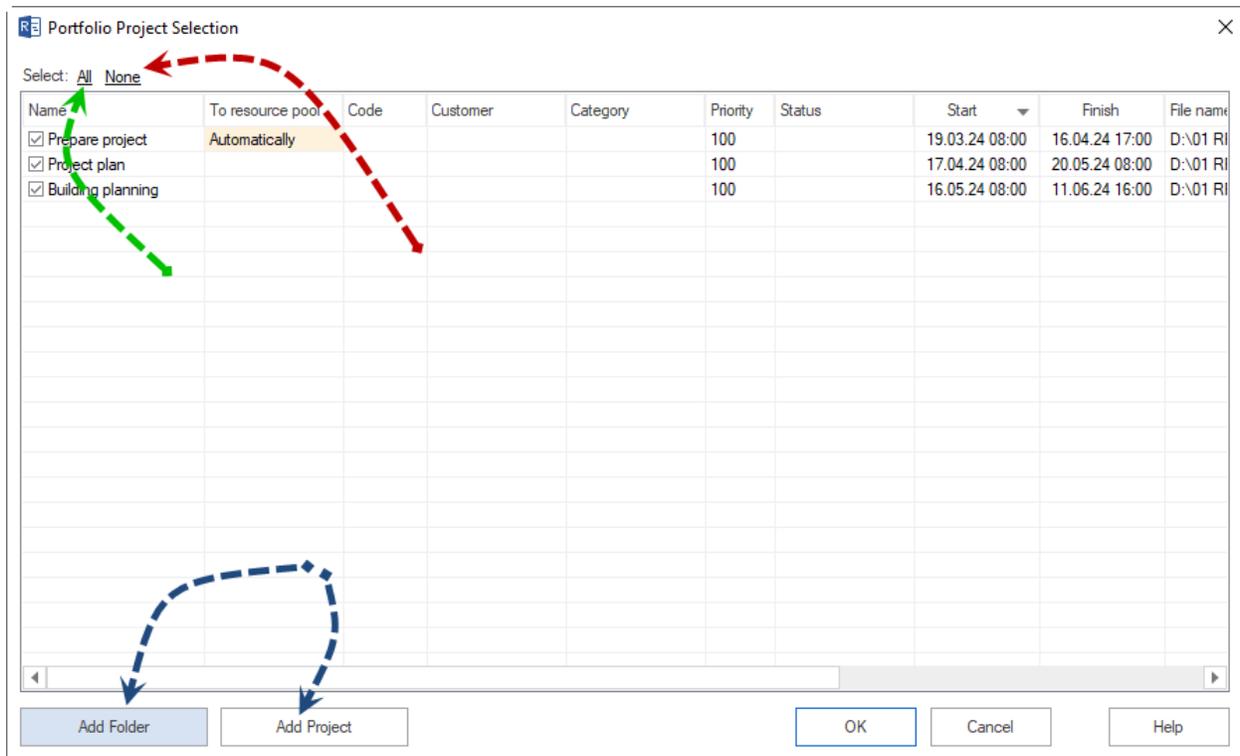
The view **Variance analysis** displays the changes in time of the projects graphically.



- **Project resources** **Manual switching of project resource to resource pool**
- In order to have the portfolio projects with significant differences in resources, they must be opened separately and you can switch from the project resource to the resource pool by means of the menu item **Project > Switch > Resource pool**.

Edit portfolio

You can use the following three buttons to do the following:



Select all – all projects from the list, that share a common resource pool, are included in the project portfolio. **Select none** - all projects from the list are taken out from the project portfolio. **Add a folder** - search a new folder for projects **Add a file** - add single projects to the list

Select the projects you want to add in the project portfolio. If you want to enter other projects in the list, click on the appropriate button to add either a folder or file.

The projects shown in the list can be **sorted** according to the following parameters:

- Project name
- Code
- Category
- Priority
- Status
- Start of project
- Finish of project
- File names

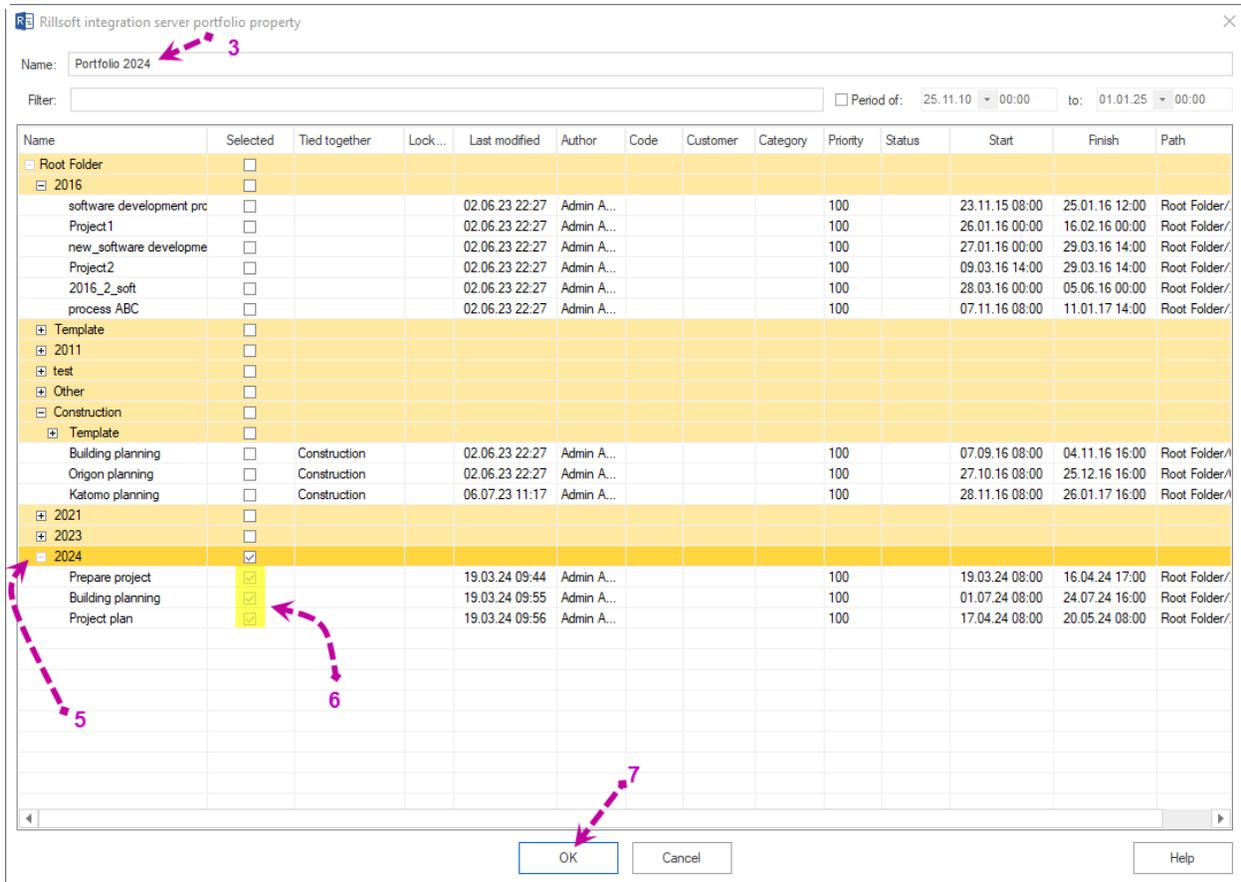
The selected order is then accepted by the project portfolio.

All views from the Gantt chart to break-even chart are available for the project portfolio. In the project portfolio you can run all the activities similar to a conventional project, that is, you can create activities, allocate resources, correct processes or store outputs.

7.3 New Project Portfolio in Rillsoft with Interface to the Rillsoft Integration Server

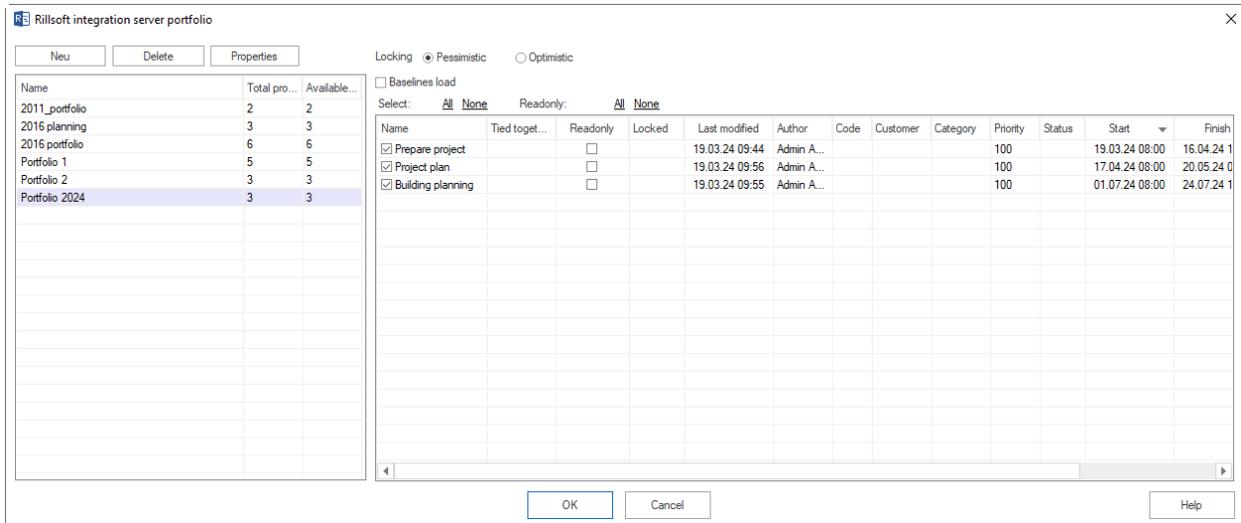
To create a project portfolio, please proceed as follows:

1. Select the menu item **File > New > New project portfolio**.
2. Right after the **Rillsoft Integration Server Portfolio** dialog, the **Rillsoft Integration Server Portfolio Properties** dialog window appears.



3. Enter a name for the new portfolio in the **Name** field.
4. **Filter** is a free text field to delineate the information displayed below.
5. Select the directory where the required projects are located.
6. Mark the individual projects that should be included in the portfolio. You can also add projects from other directories if necessary.
7. Then click the **OK** button.

The **Rillsoft Integration Server Portfolio** dialog window shows you a list of existing portfolios in the left table. The newly created portfolio is marked in the list, and in the right table, you can review the content of the portfolio.



From the **Total projects** column, you can see how many projects the portfolio contains.

The **Available projects** column indicates how many projects from the portfolio you are allowed to read.

If the **Baselines load** option is marked, the base plans of projects will also be loaded when opening the portfolio. However, this can slow down the work with the portfolio.

By default, all available projects from the portfolio are marked, but you can remove the marking from individual projects before opening the portfolio.

Moreover, you can open the selected projects **read-only** by marking them in the **Read-Only** column.

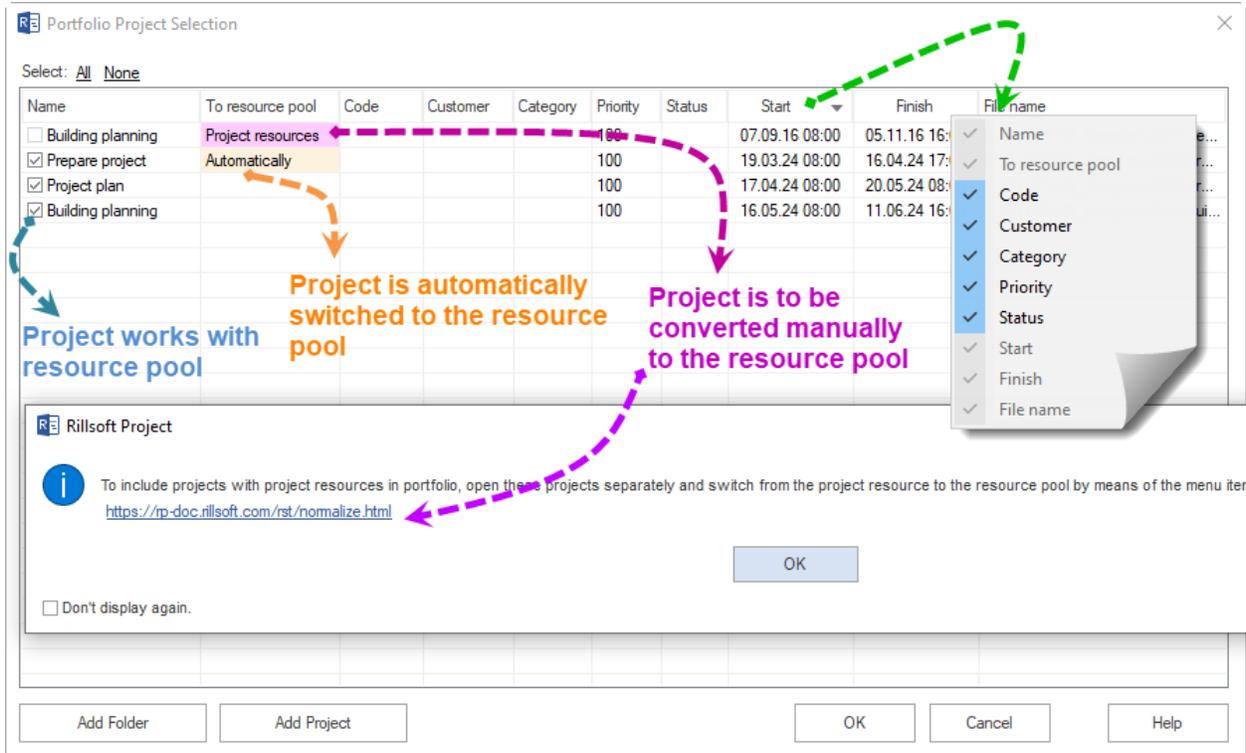
Note: Although you can add projects with resources differing from the resource pool to the portfolio, upon opening the portfolio, a note will appear advising you to switch these projects to the resource pool with **Project > Project resources > Switch to resource pool**.

7.4 Open a project portfolio

In order to open a project portfolio, do as follows:

- Select the menu item **File > File > Open project portfolio**.
- The dialogue window **Open** appears.
- Select the required file.
- Click on the button **OK**.

The dialogue window **Project selection for portfolio** appears. A list of projects for the project portfolio is shown.



Note: Only projects that share a common resource pool can be included in the project portfolio.

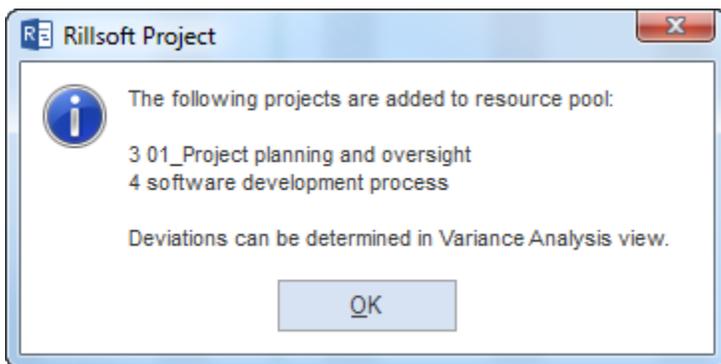
If projects are coloured grey, it indicates a difference between project resources and the resource pool.

Include projects with project resources in the portfolio

Deviating projects being coloured grey can be added to the portfolio as follows:

- **Automatic replacement of project resources.**

The option **Replace deviating project resources by resource pool** updates the project resources by adding the resource pool at every opening of the portfolio. The view **Variance analysis** displays the changes in time of the projects graphically.



- **Manual switching of project resource to resource pool.**

In order to have the portfolio projects with significant differences in resources, they must be opened separately and you can switch from the project resource to the resource pool by means of the menu item **Project > Switch > Resource pool**.

Edit portfolio

You can use the following three buttons to do the following:

Select all projects – all projects from the list, that share a common resource pool, are included in the project portfolio.
Take out all projects - all projects from the list are taken from the project portfolio out. **Add a folder** - search a new folder for projects **Add a file** - add single projects to the list

Select the projects you want to add to the project portfolio. If you want to enter other projects in the list, click on the appropriate button to add either a folder or a file.

Set the order of the project portfolio

The projects shown in the list can be sorted by the following parameters:

- Project name
- Code
- Category
- Priority
- Status
- Start of project
- Finish of project
- File names

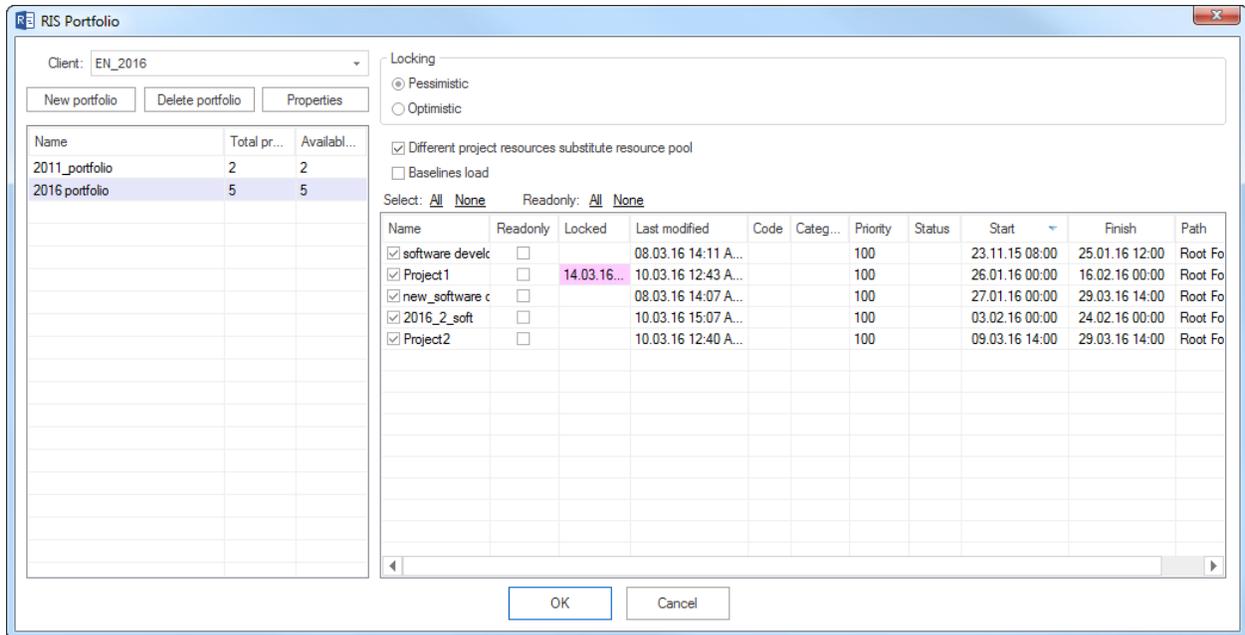
The selected order is then accepted by the project portfolio.

All views from the Gantt chart to break-even chart are available for the project portfolio. In the project portfolio you can run all the activities similar to a conventional project, that is, you can create activities, allocate resources, correct processes or store outputs.

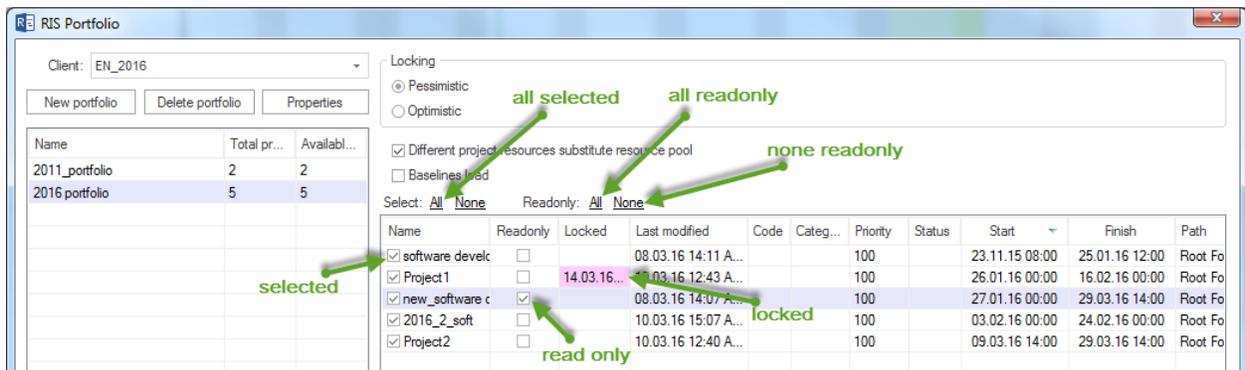
7.5 Open a project portfolio in Rillsoft with interface to Rillsoft Integration Server

In order to open a project portfolio, do as follows:

- Select the menu item **File > Open > Rillsoft Integration Server > Project portfolio**.
- The dialogue **Rillsoft Integration Server - Portfolio** appears.



- Left, all portfolios are listed with information about project number in the portfolio and number of projects that are available for you, it is related to your access rights.
- Right, you see all the projects from the selected portfolio. You can take out individual projects from the portfolio for this time by deleting the marking of appropriate projects or all projects by click **Select: All**.



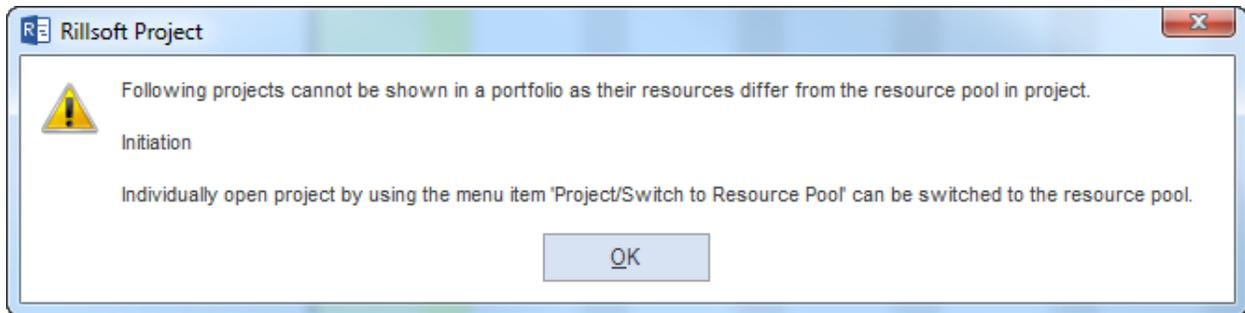
- You can apply some projects read-only i.e. only to read in the portfolio, by selecting them in **Read-Only** column or all projects by click **Readonly: All**.

You can see at once on a red background if any projects are locked as well.

- Click on the button **OK**.

Note: Only projects that share a common resource pool can be included in the project portfolio.

If project resources are different from the resource pool, the message appears.



In order to have the portfolio accepted projects with significant differences in resources, they must be opened separately and you can switch from the project resource to the resource pool by means of the menu item **Project > Switch > Resource pool**.

Locking

- Pessimistic – once a user edits something in the project, all other users can open the project only as a read-only copy.
- Optimistic - each user can always edit the project.

The lock option is available only for the user, who also have the appropriate access rights.

Baselines load

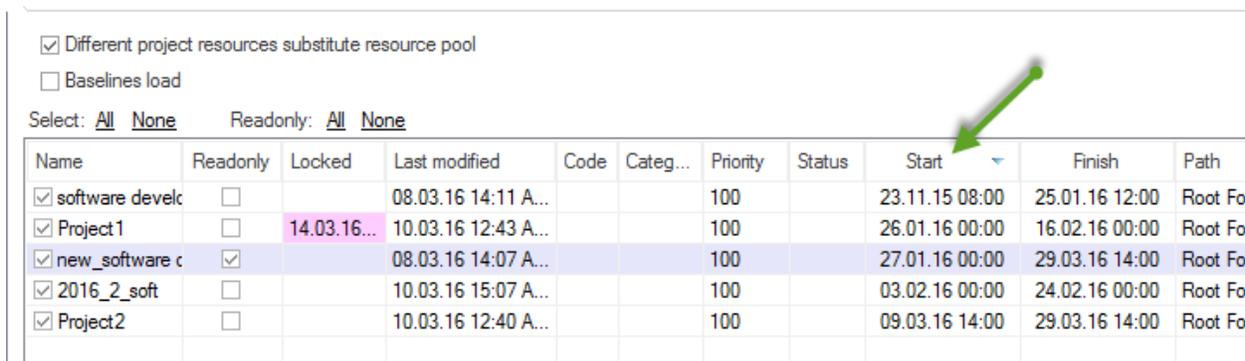
Baseline slows the work with the portfolio. If you do not need a comparison with a baseline at the moment, you can open portfolio without a baseline.

Set the order of the project in portfolio

The projects shown in the list can be sorted according to the following parameters:

- Project name
- Code
- Category
- Priority
- Status
- Start of project
- Finish of project
- File names

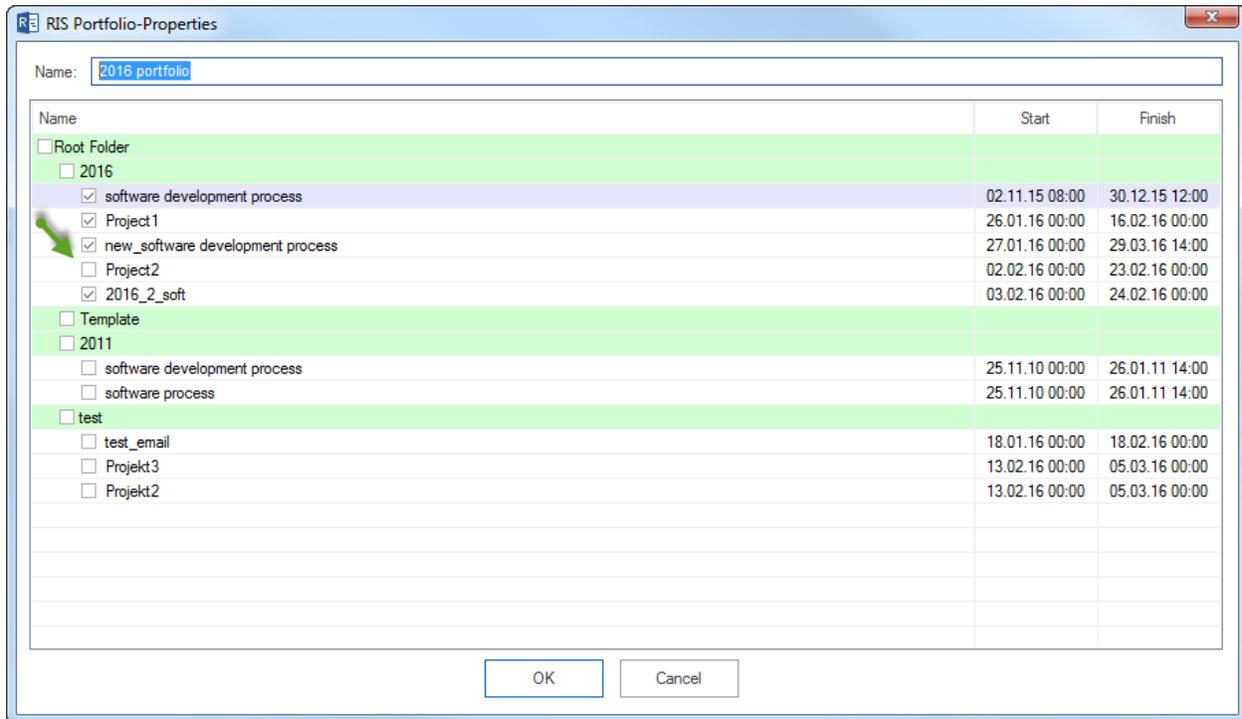
Click on the selected column in the title area, e.g. **Start**.



The selected order is then accepted by the project portfolio.

Change portfolio properties

Click on the button **Properties**

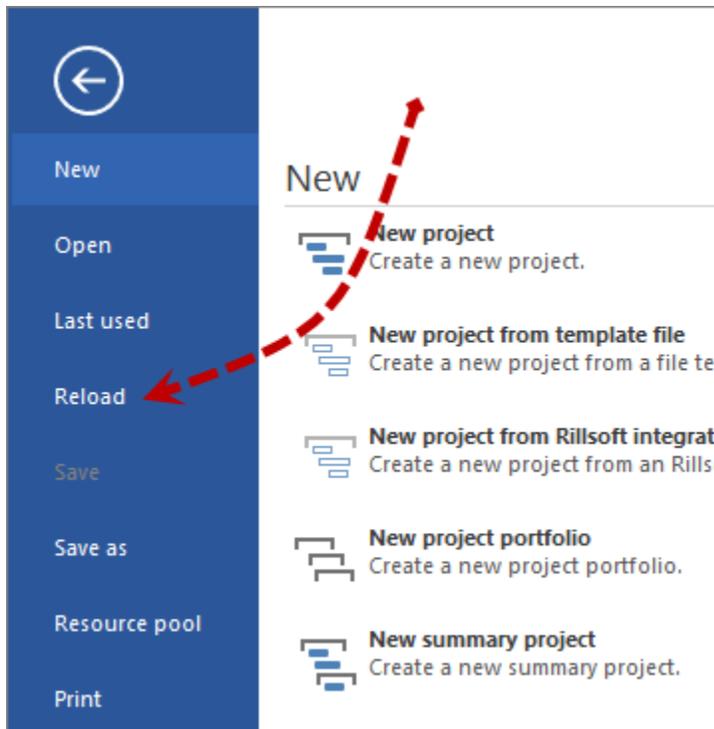


If you want to add other projects to the list, click on the appropriate button to add either a folder or file.

7.6 Reload portfolio

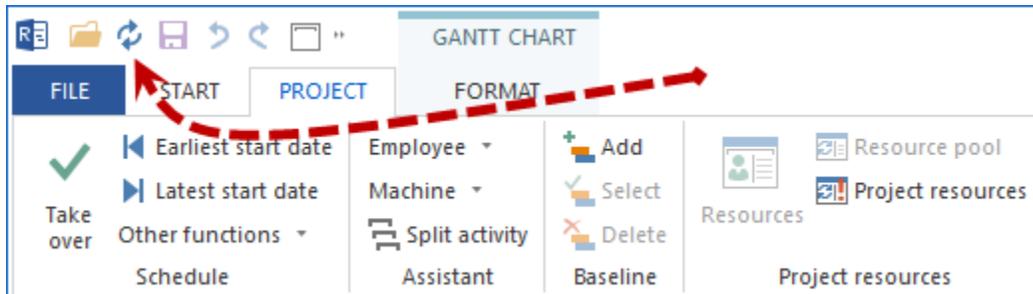
If you are working in a multi-user environment, it may often be necessary to reload a portfolio where several people are working on different projects at the same time in order to view their changes.

With the help of the menu item **File > Reload Project > Portfolio** you can reload the current portfolio.

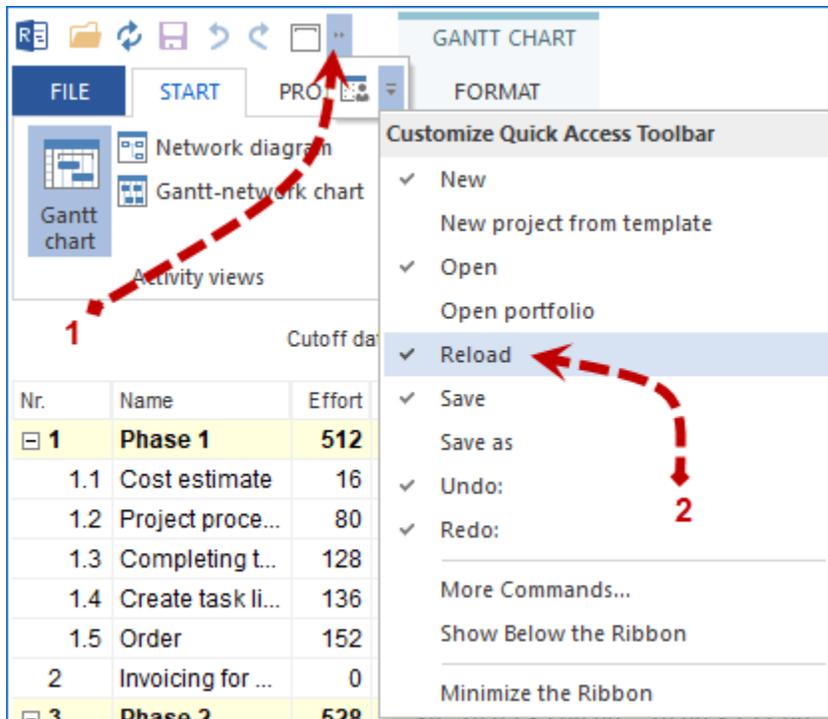


Alternatively, you can use a quick access.

Click the **Reload** icon on the **Quick Access Toolbar**.



Notes: If the **Reload** icon is not present, you can select **Reload** from the **Customise Quick Access Toolbar** menu item.



7.7 Cross-project links

In the portfolio you can link several projects with each other. **Important!** This function is only included in Rillsoft Project with **Rillsoft Integration Server** and links can only be edited in the portfolio.

In cross-project links, succeeding activities are shifted not automatically, but the program sets negative intervals instead. By means of the menu item **Project/Rillsoft Integration Server/Cross-project links**, you can check these links and obtain detailed information about them, such as occurring delays.

You can choose whether you want to accept only single or all of the changes you have made to these settings.

Move	Outbound project / Activity	Incoming project / Activity	Start	Finish	Reserve	Delay, release	Delay, calcul...
<input type="checkbox"/>	1.12 End	2.1.1 task 1	20.01.16 12:00	26.01.16 08:00	+5.83	0	0
<input type="checkbox"/>	2.3 project end	3.1.1 software development planni...	11.02.16 09:00	27.01.16 08:00	-15.04	-15.04	-15.04
<input type="checkbox"/>	4.6 task 6	5.1.1.1 software development plan...	29.03.16 14:00	03.02.16 08:00	-55.25	-16.38	-55.25
<input type="checkbox"/>	3.13 End	4.1 task 1	29.03.16 14:00	09.03.16 14:00	-20	-20	-20

The following information and options are available:

Move	The calculated delay will be compensated by the approved delay when you click on the check box.
Outgoing project / activity	Displays outgoing projects/activities.
Incoming project / activity	Displays incoming projects/activities.
Start	Shows, where a link starts.
Finish	Shows, where a link ends.
Reserve	Shows the interval between the outgoing and incoming positions in absolute time.
Delay, Release	Displays the value of the released interval.
Delay, Calculation	Displays the value of the calculated interval.

Red background colouring signals that there is a discrepancy between the released and the calculated delay.

Set to automatic

Click this button if all calculated delays should be automatically aligned with the released delays.

Types of links

The following link types are at your disposal:

Finish-Start	the “from” activity must finish before the “to” activity can start
Start-Start	the “from” activity must start before the “to” activity can start
Finish-Finish	the “from” activity must finish before the “to” activity can finish
Start-Finish	the “from” activity must start before the “to” activity can finish

The screenshot shows the 'Properties' dialog box for a 'Link'. The 'Link' tab is active. The 'Predecessor' field contains '2 task 4' and the 'Successor' field contains '3 project end'. The 'Link type' is set to 'Finish to start'. The 'Delay' is set to 'Absolute time' with a value of '2 day'. The 'Color' is set to 'Activity color' and the 'Bold highlighted' checkbox is checked. On the right side, there are three buttons: 'OK', 'Cancel', and 'Delete'.

Time intervals

Intervals can be defined in Project properties in relation to the time unit of the duration (such as hours or days). Intervals can only be defined in absolute time (estimated duration including non-working time, such as: 10 hours or 2 days).

Intervals can have

- positive (such as: + 2 hours) or
- negative (such as: - 50% = overlapping)

signs.

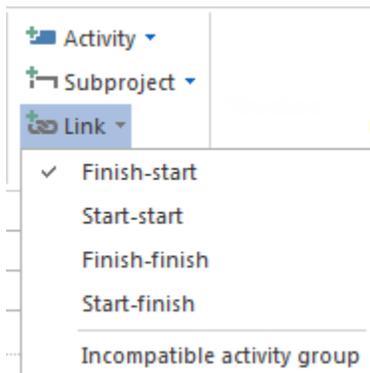
Highlight link

Links can be highlighted by means of colour or boldface.

Create cross-project link

New cross-project links can be only created by Rillsoft Project with Rillsoft Integration Server in the portfolio. In order to create a new cross-project link, do as follows:

- Choose the link type via the menu item **Start > Insert > Link**.



- **Connect two activities by drawing your mouse from one activity of a project to another activity from another project.**
- **If necessary, enter the delay (positive or negative) by which you want to delay the “to” activity depending on the selected link type.**

Note: If you do not enter any delay, the delay related to positions of outgoing and incoming activities is automatically calculated.

- Click on the button **OK**.

PROJECT CONTROLLING

8.1 Project controlling

Project controlling consists of the following:

- Entering information about the project progress
- Setting of cutoff date
- Analyse of ongoing and waiting activities

Enter information about the project progress

The updating of information about a selected activity can be accomplished by entering the activity's percentage of completion at regular intervals.

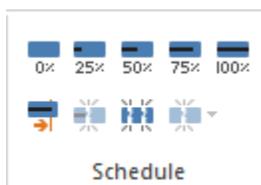
In order to enter the completed activity's percentage, do as follows:

- Mark the activity you want to enter in the diagram.
- Activate the tab **General** in the window Activity properties.
- Enter the percentage in the field **Completed**.
- Click on the button **OK**.

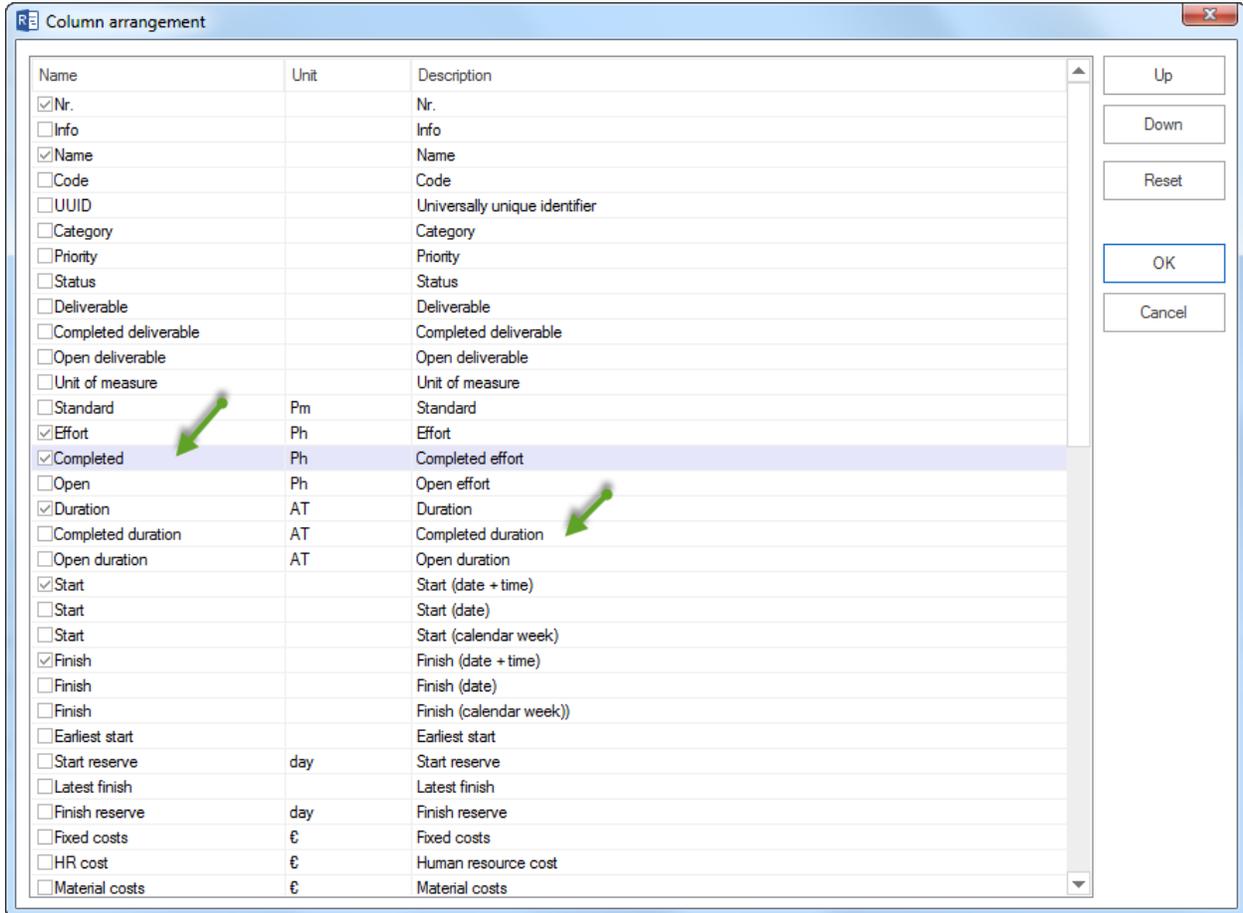
The screenshot shows the 'Properties' dialog box for an activity named 'software installation planning'. The 'General' tab is selected. The 'Completed' field is set to 100%. A green arrow points to the 'Completed' field. The 'Color' field is set to a blue color. The 'Fixed costs' field is set to 0 €. The 'Invoice amount' field is set to 0 €. The 'Term of payment' field is set to 0 wor. The 'Receipt' field is set to a dropdown menu. The 'Due date' section shows a start date of 27.11.15 at 15:00 and a finish date of 30.11.15 at 16:00. The 'Activity calendar' is set to 'Project calendar'. The 'Disregard team and employee calendar' checkbox is unchecked. The 'Start of activity only at first shift' checkbox is unchecked. The 'Mark as milestone' and 'Merge into one line' checkboxes are unchecked. The 'OK' and 'Cancel' buttons are visible on the right side of the dialog box.

Alternative 1: You can enter the completion percentage in the context menu of the activity.

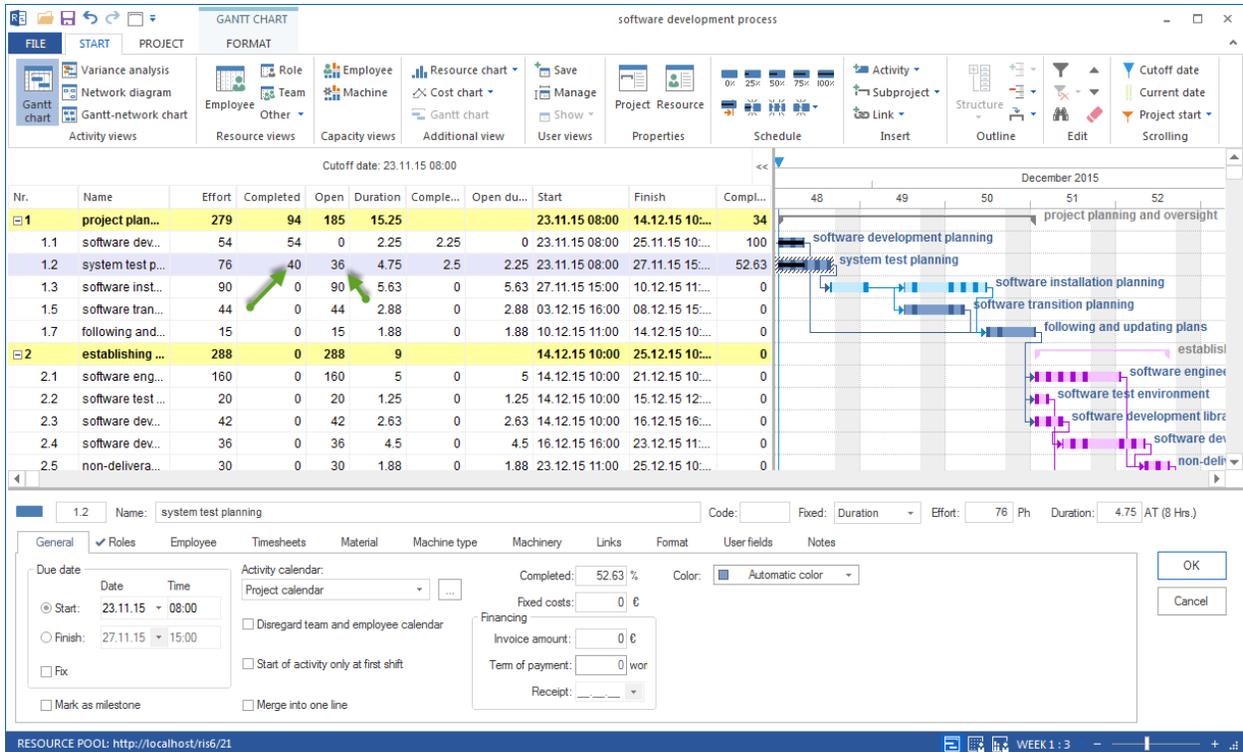
Alternative 2: Select a task and click the menu item **Start > Schedule >...**



Alternative 3: You can enter the completion percentage in the table of the Gantt chart in the columns Quantity, Effort and Duration below **Completed**. - click on **Gantt chart Format > Data > Columns** and select the required columns.
 - click on **Gantt chart Format > Data > Columns** and select the required columns.



- Enter eg., how much effort has been completed.

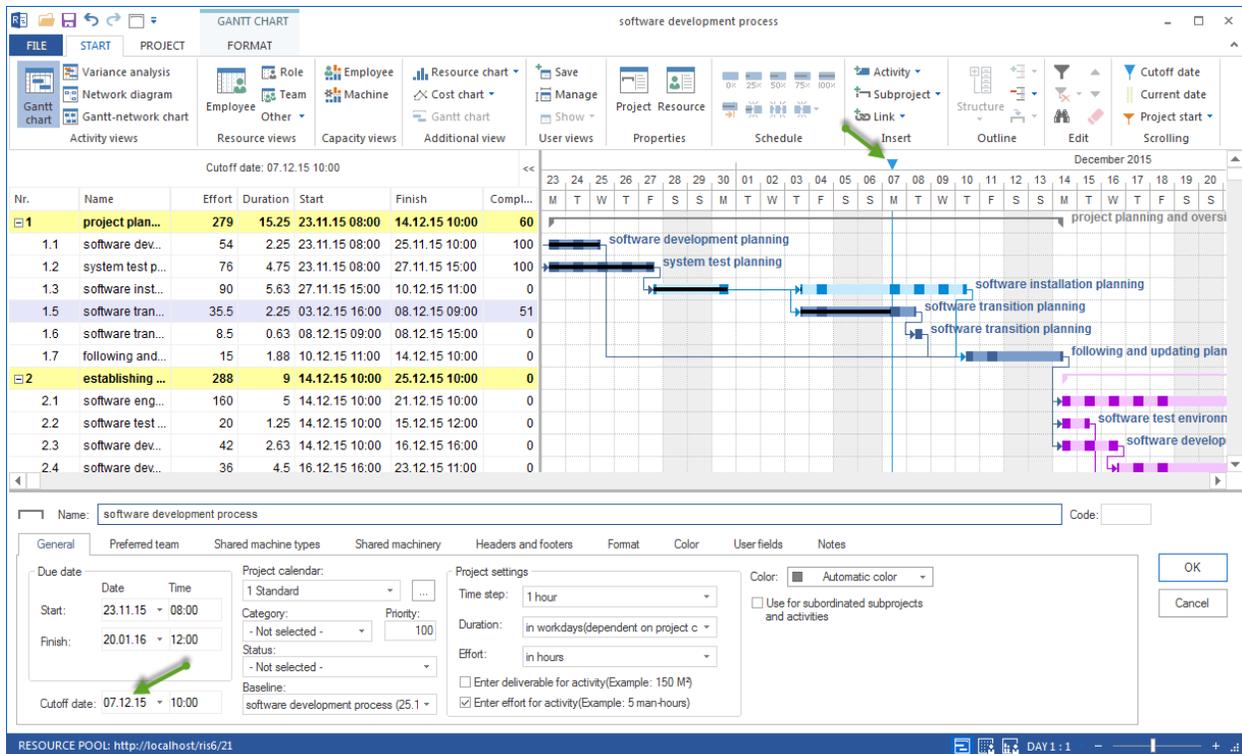


Note: If there is a number of activities linked as **Finish-Start**, and if the successor has more than 0% in the field **Completed**, its predecessor is set automatically to the value 100%.

Setting of cutoff date

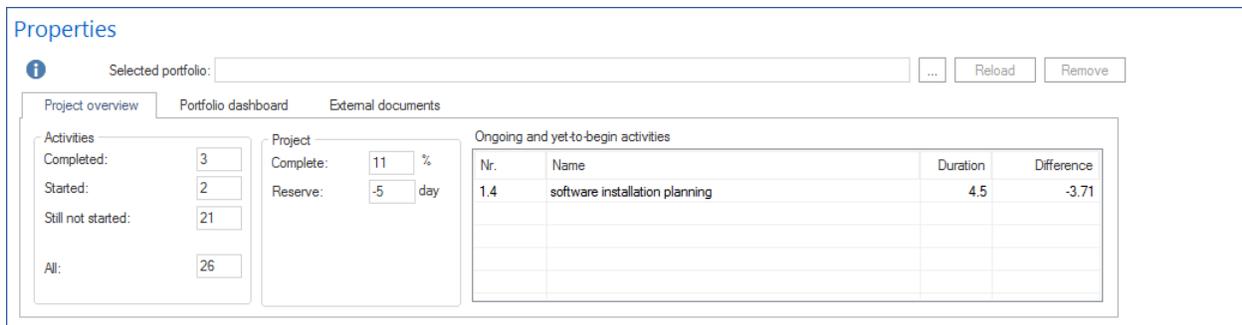
A cutoff date is the point of time at which the percentages were entered last time. A cutoff date is determined by means of a check mark (a small triangle in the upper part of the timescale).

Example: Gantt chart with determined cutoff date and percentages (black bar in activities).



Analyse of ongoing and waiting activities

You can view the project information by clicking on the blank space in the window of the main project.

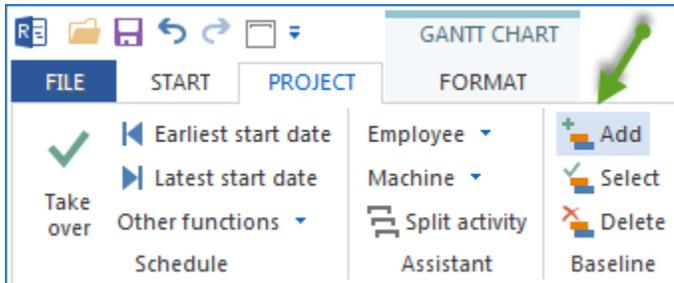


- **Completed** - Number of finished activities.
- **Started** - Number of started activities.
- **Still not started** - Number of activities that have not yet started.
- **All** - Number of all activities.
- **Reserve** - Difference in time between the finish date of the latest activity and the cutoff date of the project.
- **Completed** - Percentage of the project's progress (is calculated only by means of the activities duration).
- **Ongoing and waiting activities** - This list shows detailed information about activities that have just started or are ready to be started.

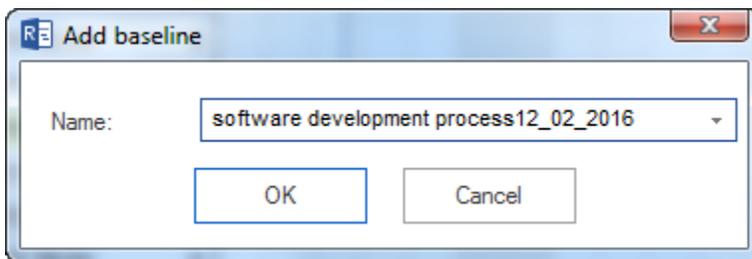
The column **Difference** shows the deviation between the actual progress of activities at the moment and at the cutoff date (negative difference: delay / backlog, positive difference: gain of time).

8.2 Add baseline

In order to add a baseline, do as follows:



- Select the menu item **Project > Baseline > Add**. The dialogue box **Add baseline** opens.

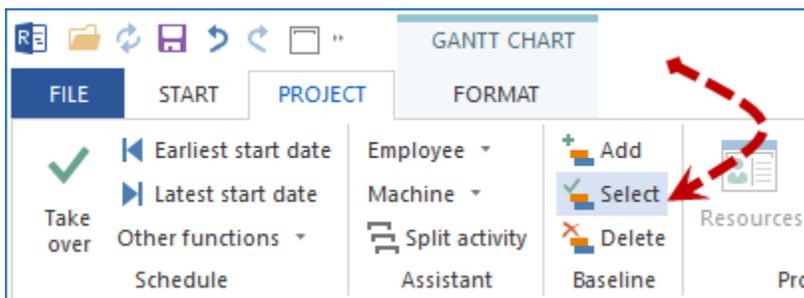


- Enter the name of the baseline in the field **Name** or accept the automatic name.
- Click on the button **OK**.

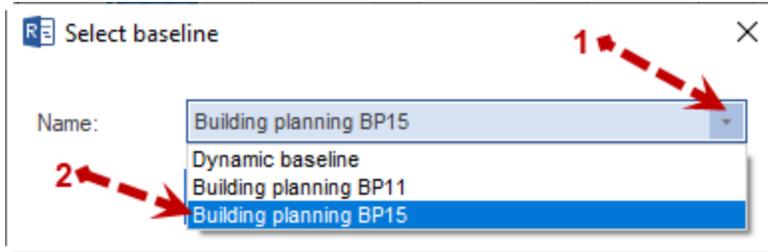
Note: You can save any number of baselines in the project. This allows you to document your changes in the project, on the one hand, and provides you with the opportunity to analyse your project after its completion and use this information for further projects.

8.3 Select baseline

To select a basic plan, please proceed as follows:



1. Click **Project > Baseline > Select**. The **Select baseline** dialogue opens.



2. Click in the **Name** field by the arrow.
3. Select the desired baseline from the list.
4. Click on the button **OK**.

8.4 Dynamic baseline

As a project is continually being developed and updated, none of the saved baseline plans, which is only a momentary recording the project status, can provide a complete overview.

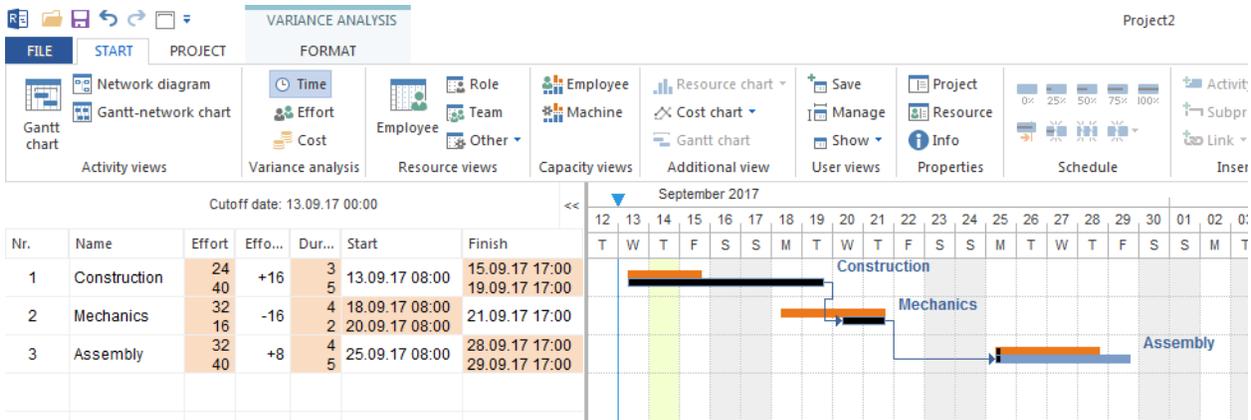
Here comes a so-called dynamic baseline plan to help, which is automatically generated from all stored baselines.

The selection of which baseline to use as a reference baseline for each activity is done automatically according to the following rules:

- If a Completed Percentage of an activity is equal to zero, the last saved baseline in time is taken as reference in a Dynamic Baseline for this activity.
- For the activities that have a Completed Percentage greater than zero, the base plan selected for each activity is the one that was saved last before the percentage was entered for each activity.

Note: Requirements for a dynamic baseline

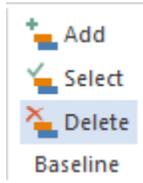
1. Save baselines
2. Maintain completed percentage or effort



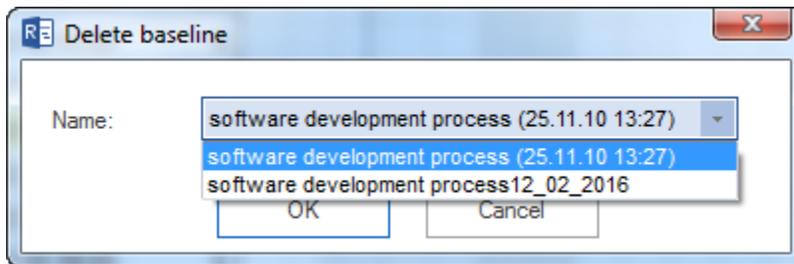
Tip The more baselines are stored in a project, the more accurate a Dynamic Baseline will be. A disadvantage of this is that the size of a project increases with each baseline.

8.5 Delete baselines

In order to delete a baseline, do as follows:



- Select the menu item **Project / Delete baseline**. The dialogue box **Delete baseline** opens.



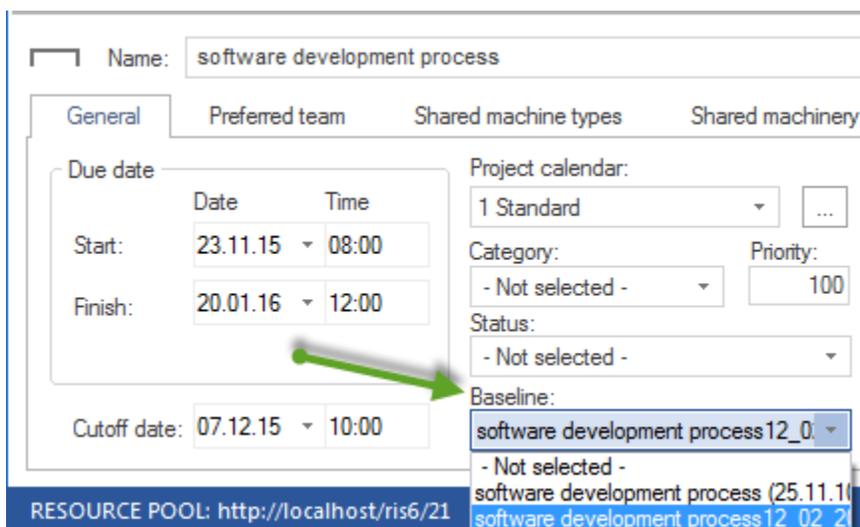
- Choose the baseline you want to delete from the drop down list **Name**.
- Click on the button **OK**.

8.6 Variance analysis

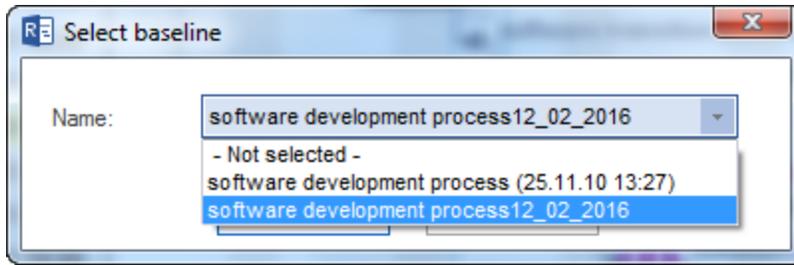
A variance analysis helps you to identify differences between actual and target. The table and the diagram show you and highlight all parameter deviations from actual and target.

In order to do a variance analysis, do as follows:

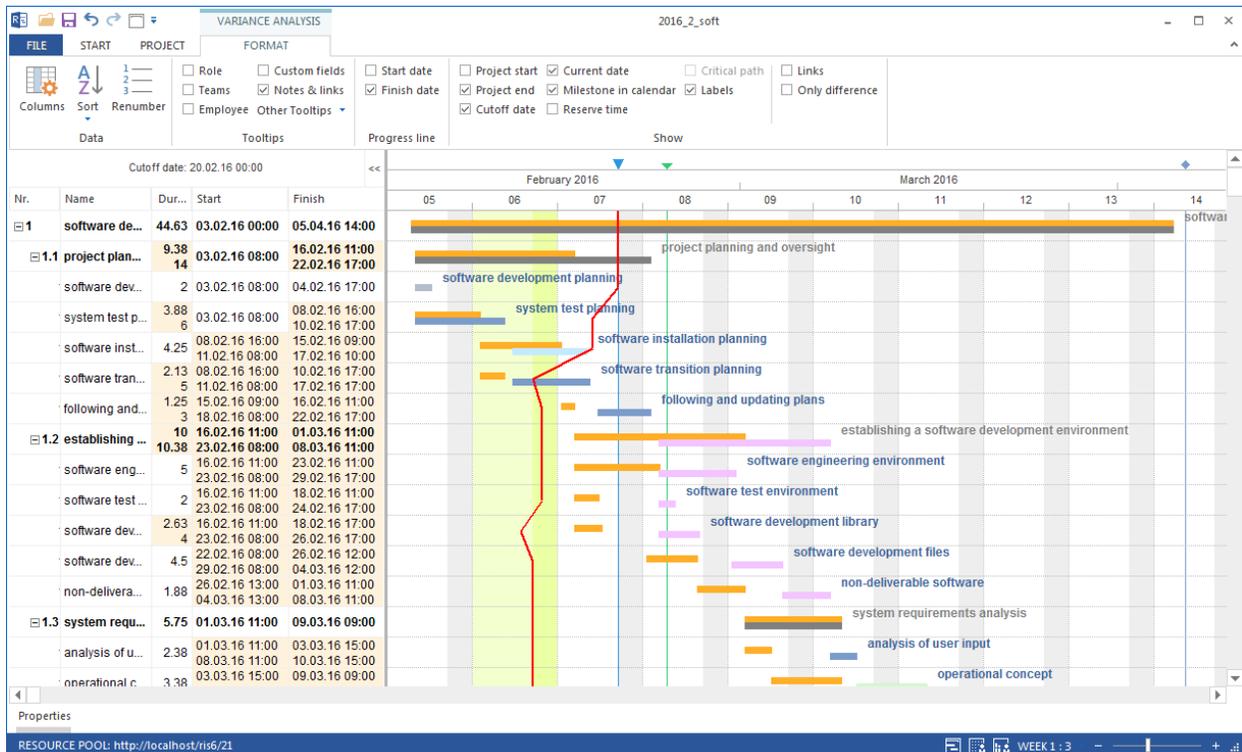
- Activate the tab **General** and choose the preferred baseline from the drop down menu **Baseline**.



- Select a previously saved baseline and select the menu item **Project > Baseline > Select**.



- Click on the button **OK**.
- Select the menu item **Start > Activity views > Variance analysis**. The **Variance analysis** opens:

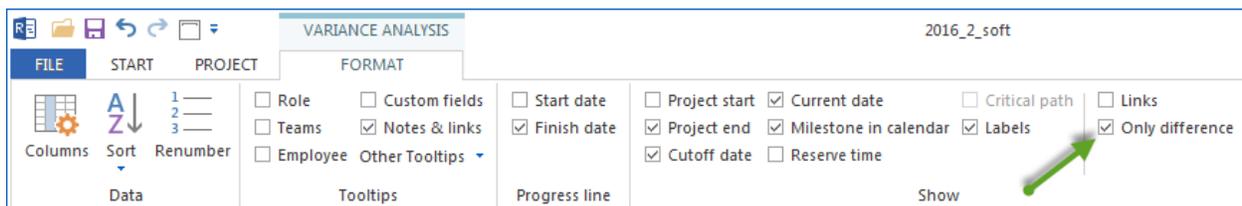


The first row in the table lists the properties of the scheduled activities and subprojects (TARGET), while the second row lists the actual properties of the activities and subprojects (ACTUAL). Parameters deviating from the baseline are marked in yellow.

Note: Detailed information about the variances can be obtained by marking the activity in the table (see green arrow) and selecting the corresponding tabs in the box Object properties.

Only difference

Select the menu item **Variance analysis Format > Show > Only difference**. This option turns off all activities, where there is no difference. So you can get only relevant information to the Variance analysis.



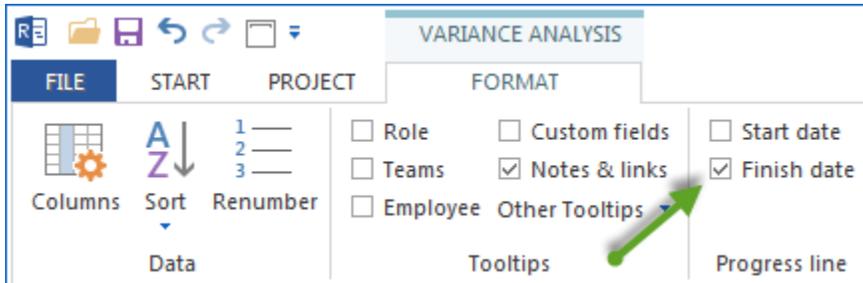
Progress line of the project

A progress line displays graphically deviations of the cutoff date that occurred between the actual project status and the selected baseline and is displayed in the **Variance analysis**.

Ideally, a progress line accords with the marked cutoff dates and runs vertically across the variance analysis. A progress line running left from the cutoff date indicates a delay in the project course.

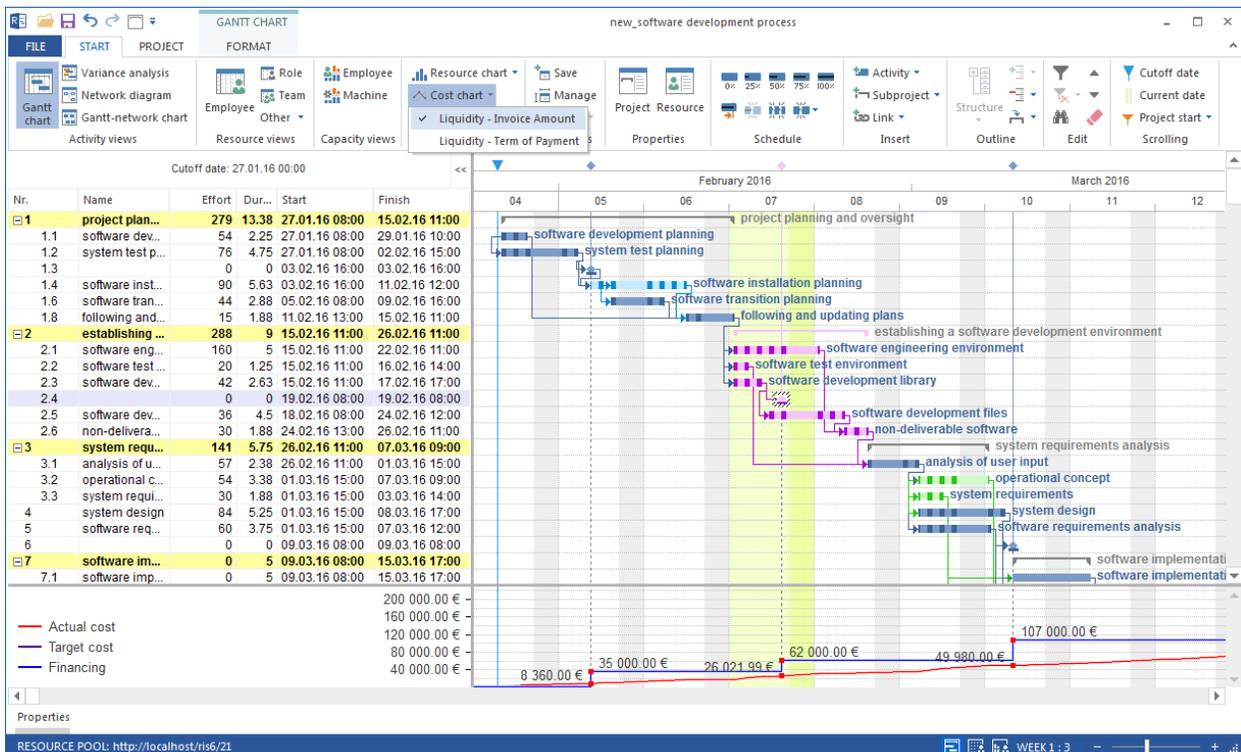
A progress line running right from the cutoff date, indicates that some activities of the project will be completed earlier than scheduled.

In order to visualise the progress line of a project, select one of the following menu items **Variance analysis > Progress line**



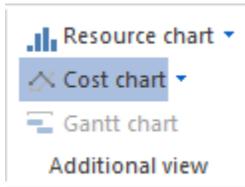
- Start date
- Finish date

8.7 Control of project financing



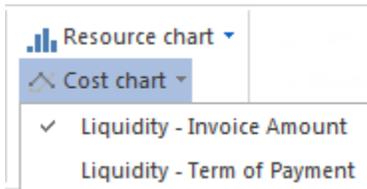
In order to evaluate the project financing, proceed as follows:

- For the gantt chart open an additional break-even chart in the menu item **Start > Additional views > break-even chart**.

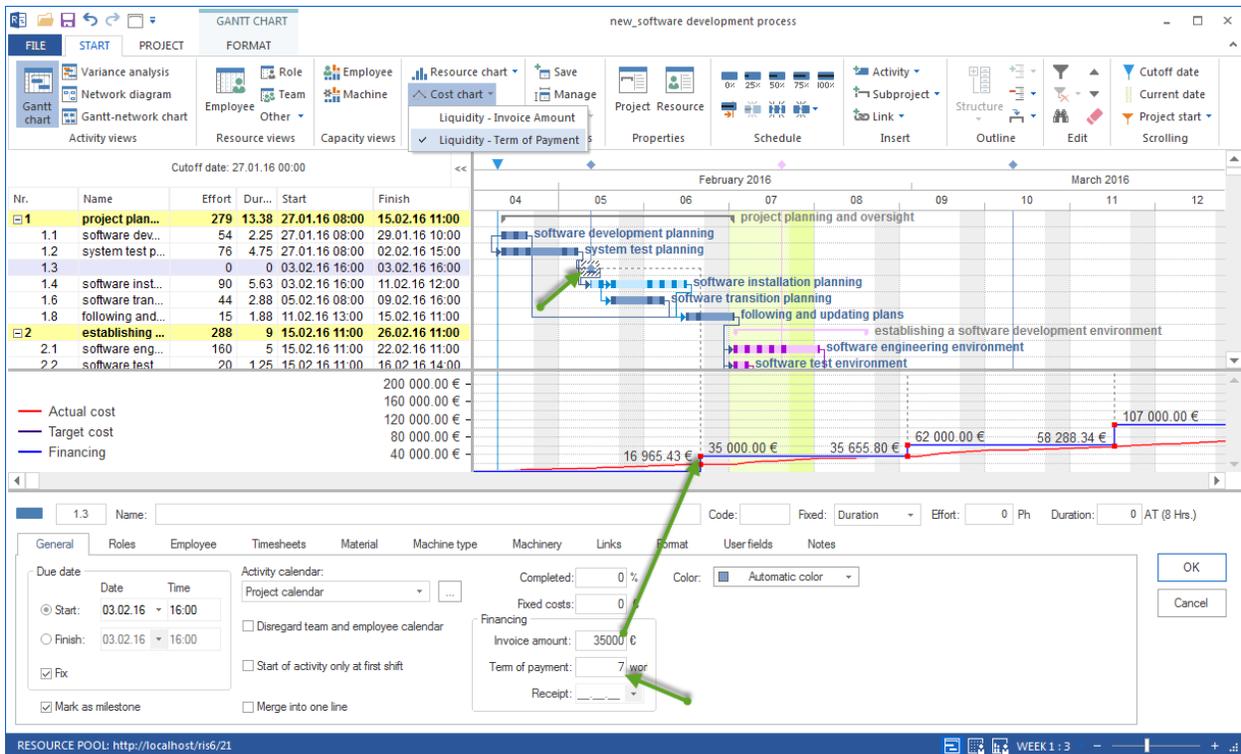


- Record all expected incoming payments by setting a separate milestone at the date of invoice.
- The break-even chart contrasts the actual costs with the financing. The the invoices dates are marked at the curve Actual costs.

Note: The financing can be displayed by either the invoices dates or the payment term.



- You can toggle between the menu items **Financing - Invoice date** and **Financing - Term of payment**.



- Similar to the date of invoice, the dates identical with the payment term are highlighted at the curve Actual cost. The financing control allows you therefore to detect investment risks (advance financing).

PROJECT MANAGEMENT

You can use Rillsoft Project 6.1 for the following tasks, so as to accomplish the successful completion of your project targets or even exceed them and prevent the schedule from getting delayed or, at least, mitigate the consequences of possible risks:

- separation of completed activities from waiting activities.
- shifting of delayed activities to the cutoff date (actual date).
- assignation or reassignation of employees to and from activities in the ongoing project.
- assignation of employees to critical activities to speed up execution.
- optimisation of resource utilization of not yet completed project activities.

A project sample before updating

Nr.	Name	Effort	Duration	Start	Finish	Compl...
1	project plan...	279	15.25	23.11.15 08:00	14.12.15 10:00	60
1.1	software dev...	54	2.25	23.11.15 08:00	25.11.15 10:00	100
1.2	system test p...	76	4.75	23.11.15 08:00	27.11.15 15:00	100
1.3	software inst...	90	5.63	27.11.15 15:00	10.12.15 11:00	0
1.5	software tran...	35.5	2.25	03.12.15 16:00	08.12.15 09:00	51
1.6	software tran...	8.5	0.63	08.12.15 09:00	08.12.15 15:00	0
1.7	following and...	15	1.88	10.12.15 11:00	14.12.15 10:00	0
2	establishing ...	288	9	14.12.15 10:00	25.12.15 10:00	0
2.1	software eng...	160	5	14.12.15 10:00	21.12.15 10:00	0
2.2	software test ...	20	1.25	14.12.15 10:00	15.12.15 12:00	0
2.3	software dev...	42	2.63	14.12.15 10:00	16.12.15 16:00	0
2.4	software dev...	36	4.5	16.12.15 16:00	23.12.15 11:00	0

Separation of completed activities from waiting activities

- Rightclick on the activity and select from the context menu the command **Split > From complete supply** .

Shifting of delayed activities to the cutoff date (actual date)

- Set the cutoff date.
- Enter the completion percentages of all activities.

Properties

1.3 Name: software installation planning Code: Fixed: Duration Effort: 18 Ph Duration: 1.13 AT (8 Hrs.)

General Roles Employee Timesheets Material Machine type Machinery Links Format User fields Notes

Due date: Start: 27.11.15 15:00 Finish: 30.11.15 16:00

Activity calendar: Project calendar

Completed: 100%

Fixed costs: 0 €

Financing: Invoice amount: 0 € Term of payment: 0 wor Receipt: _____

OK Cancel

- Select the menu item **Project > Schedule > Other functions > Move delayed activities to cutoff date**.

Assignment or reassignment of employees to and from activities in the ongoing project

Properties

2.2 Name: software test environment Code: Fixed: Duration Effort: 10 Ph Duration: 1.25 AT (8 Hrs.)

General Roles Employee Timesheets Material Machine type Machinery Links Format User fields Notes

Assigned roles: Filter: 2 Assigned employees: Resource pool

Role - qualification	Name	On-call	Avail...	Role - qualification	Pr...
<input type="checkbox"/> programmer - V.Basic	Eager	100	100	analyst	100
<input checked="" type="checkbox"/> analyst	Think	100	100	analyst	100

Name	O...	A...	Role - qualification	Pr...	Util...	A...	Effort	N
Diligent	100	100	programmer - V.B...	100	100		10	

OK Cancel

- Mark the activity.
- Activate the tab **Employees** in the window **Object properties**.
- Remove the employee from the activity.
- Click on the button **OK**.

Alternatively: You can remove an employee from several activities at a time. Select the menu item **Project > Assistant > Employee > Remove the employees from the activities**.

Assignment of employees to critical activities to speed up execution

- Mark the critical activity.
- Activate the tab **Employees** in the window **Object properties**.
- Assign more employees to the activity.
- Click on the button **OK**.

Optimisation of resource utilization of not yet completed project activities

- Set the cutoff date.
- Enter the completion percentages of all activities.
- Select the menu item **Project > Schedule > Other functions > Optimise resource utilization**.

Note: Delayed activities will be automatically shifted to the cutoff date during the optimisation of resource utilization.

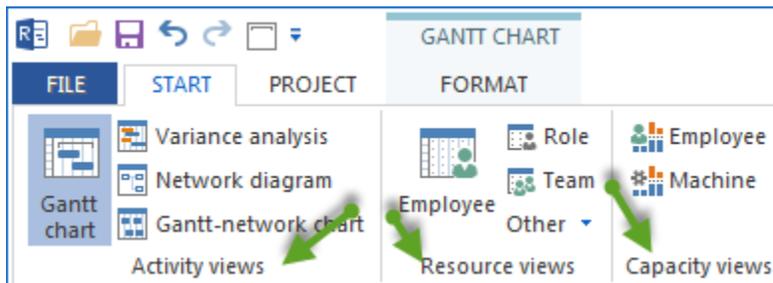
10.1 Printing

You can print all views of a project and report about the project schedule and project resources.

- Select the view according to your requirements.
- Check the content in the preview field.
- Print the document.

Select either view or report

You can select a view by clicking the menu item **Start** and one of the activities, resource or capacity views.



Print preview

In order to obtain a print preview, do as follows:

- Choose the menu item **File > Print**.
- Check the appearing dialogue **Print preview** and correct the parameters, if necessary.
- Click on the button **OK**.

Printing

There is a number of ways for how to print a document:

- Select the menu item **File > Print...**
- After checking the print preview, click on the button **Print**.

10.2 Print preview

You can print the project details as views or tables as they are shown on your screen.

After editing the project details (filter, formatting, view changing, etc.) in the preferred view, you can check the layout, that is, the positions of the project details in the print preview.

For this purpose, you can use the page view function, which shows either a single page or several pages in a small scale of depiction. Project details can not be edited in the page view modus.

You can use the menu item **File > Print** to define the print settings.

The screenshot displays the 'Print' dialog box on the left and a Gantt chart titled 'new_software_development_process' on the right. The dialog box includes a 'Print' button, a 'Copies' field set to 1, a printer selection dropdown for 'Samsung CLP-550 Series at //dlink-0904t', and a 'Settings' section with options for 'Print All Pages', page range (From: 1, To: 2), orientation (Landscape), paper size (A4), and checkboxes for 'Cutting marking', 'Header frame', and 'Footer frame'. The Gantt chart shows a project schedule with tasks such as 'project plan', 'software dev.', 'system test', 'software imp.', 'system req.', 'system design', 'software req.', 'software imp.', 'unit testing', 'test cases', and 'unit integrat...'. The chart is displayed in a multi-page view with 9 columns.

Among others, you can fit a project schedule to one or several pages by entering the preferred number of pages in **Scale** and marking the check box **Fit to page size**.

This close-up shows the 'Scale' and 'Print on all pages' sections of the print dialog. In the 'Scale' section, the 'Reduce/Enlarge' radio button is selected with a value of 100%, and the 'Customize to' radio button is selected with a value of 2 for 'vertical pages'. In the 'Print on all pages' section, the checkboxes for 'Header', 'Footer', 'Calendar line', 'Table columns', and 'Frame' are all checked. The 'Number of columns' is set to 9.

10.3 Print view

Rillsoft Project offers the following views:

- Activities views
 - Gantt chart
 - Variance analysis
 - Network chart
 - Gantt-network chart
- Resource views
 - Role usage
 - Team usage
 - Employee workload
 - Material requirements
 - Machine types
 - Machinery
- Capacity views
 - Human resource capacity planning
 - Machine capacity planning

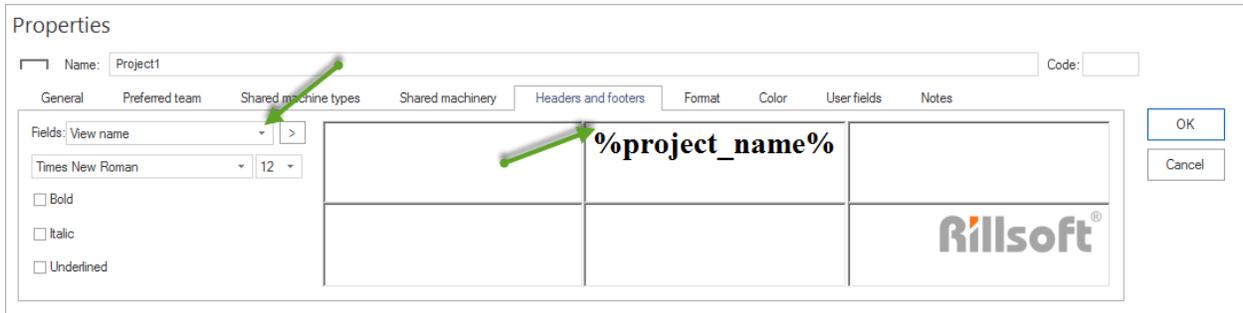
In addition, you can create your own views.

In order to print a view, do as follows:

- Select the view that contains the information you want to print.
- Edit the header / footer for the project printing.
- Select the menu item **File > Print**.
- After checking the print preview, click on the button **Print**.

Header and footer

- In the window Project properties, select the tab **Header and footer**.
- Click on one of the six text boxes to which you want to add the information and enter a text. You can also add project details from the drop down menu **Fields**.
- If necessary, repeat step 2 for all other boxes.
- Alternatively, you can add texts and graphics, (such as **Logo-Picture**) from the clipboard.
- You can also add project details from the drop down menu **Fields**.
- Click on the button **OK**.



Edit the view you want to print

Quite often the document looks differently on the screen than in the print preview. You can do the following: - define the type and size of the font in the text field - add/remove entries from headers / footers - change text and bar displays - enlarge or reduce vertically

View as PDF file

In order to print as PDF file, you need to

- install a PDF printing device (such as Adobe Installer or a free program)
- Prepare a view for printing (see above)
- Select the menu item **File > Print**.
- Define an available PDF printing device in the dialogue **Print** above the list field **Printer**.
- Click OK.

10.4 Print holiday report

You can print non-working days of the employee for a requested period as a pdf-file.

Employee_2016_non_work

Cutoff date: 01.01.16 00:00		January 2016																													
Nr.	Name	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
		F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
7	Team not defined																														
11.001	North - Team A																														
13.02	Tidy																														
17.02	Eager																														
12.001	South																														
15.01	Goeslike																														
18.01	Slow																														
13.001	East																														
14.02	Diligent																														
19.01	Fast																														
14.001	West																														
16.02	Sleeper																														
20.02	Think																														

Note: Non-working days should be registered in the Resource pool for employees.

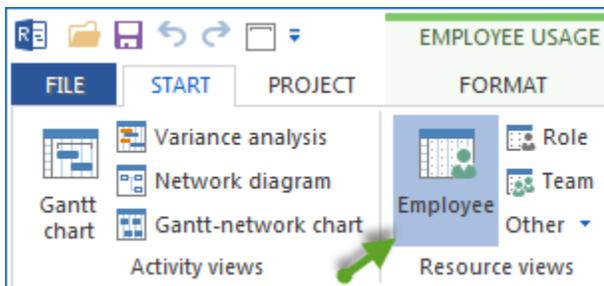
Resource pool

Calendar Roles Teams **Employee** Material Machine type Machinery Project categories Project status

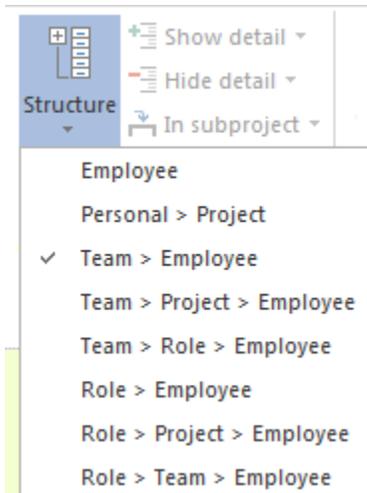
Filter: 10/18 New Group New in the Group Import Export Delete Marked Delete Group Delete All

Nr.	Firsn...	Lastname	Code	E-mail	Calendar	Begin	End	Non-working d...	Working group - team	Role - qualification	Pr...	Ct
12.01		Superman		superman@ex...	2 all			19.07.10-23.07...		13.001 manager	100	50
13.01		Tidy						19.07.10-23.07...	11.001 North - Team A	11.001 programmer - C++	100	40
13.02		Tidy						19.07.10-23.07...	11.001 North - Team A	11.003 programmer - V.Basic	100	40
14.01		Diligent						25.11.10-26.11...	13.001 East	11.003 programmer - V.Basic	100	40
14.02		Diligent						25.11.10-26.11...	13.001 East	11.002 programmer - PHP	100	40
15.01		Goeslike		goeslike@exa...		11.10.10		24.12.10;27.12...	12.001 South	16.001 support	100	40
15.02		Goeslike		goeslike@exa...		11.10.10		24.12.10;27.12...	12.001 South	12.001 writer	100	40
16.01		Sleeper						30.11.10;01.12...	14.001 West	11.001 programmer - C++	100	50
16.02		Sleeper						30.11.10;01.12...	14.001 West	14.001 designer	100	50

- Create a project with a beginning and an end, which defines a reporting period. For example, the 01.01.2016 is the beginning and 31.12.2016 is the end
- Click on **Start > Resource views > Employee**



- Select the menu item **Start > Outline > Structure** and define the employee structure. For example **Team > Employee**



- Define the time scale. For example, day 1:1



- Check which columns should be displayed, by selecting the menu item **Employee format > data > columns** and switch on/off the required columns.
- Click **Start > Edit > Filter** and delete a marker of **To choose only planned resources from offer** option

Project / Subproject: Employee_2016_non_work

Period: 01.01.16 to 31.12.16

Resources:

- Show only overloaded resources
- Only already planned resources to choose from offer

Nr.	Name	Code	Costs
Roles			
<input type="checkbox"/> 15.001	analyst		70.00
<input type="checkbox"/> 14.001	designer		60.00
<input type="checkbox"/> 13.001	manager		60.00
<input type="checkbox"/> 11.001	programmer - C++		50.00
<input type="checkbox"/> 11.002	programmer - PHP		45.00
<input type="checkbox"/> 11.003	programmer - V.Basic		50.00
<input type="checkbox"/> 16.001	support		30.00
<input type="checkbox"/> 12.001	writer		30.00
Teams			
<input type="checkbox"/> 13.001	East		90.00
<input type="checkbox"/> 11.001	North - Team A		90.00
<input type="checkbox"/> 12.001	South		90.00
<input type="checkbox"/> 14.001	West		90.00
Employee			
<input type="checkbox"/> 21.01	Consider (11.002 programmer - PHP)		40.00
<input type="checkbox"/> 21.02	Consider (11.003 programmer - V.Basic)		40.00
<input type="checkbox"/> 14.02	Diligent (11.002 programmer - PHP)		40.00
<input type="checkbox"/> 14.01	Diligent (11.003 programmer - V.Basic)		40.00
<input type="checkbox"/> 17.02	Eager (11.001 programmer - C++)		50.00
<input type="checkbox"/> 17.01	Eager (15.001 analyst)		50.00

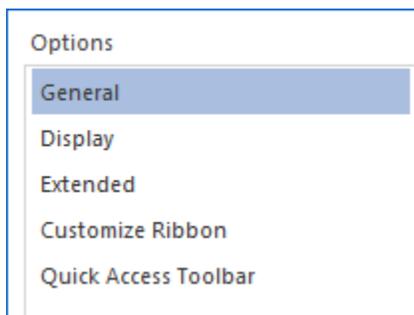
OK Cancel

- Select the menu item **File > Print** and define print settings.

CUSTOMIZE PROGRAM ENVIRONMENT

11.1 Adjustments of the program environment

You can adjust Rillsoft Project's environment parameter via the menu item **File > Options ...**. The following parameters are adjustable:



- Tab **General** Adjusting the default parameter
- Tab **Display** Adjusting the size, the font, the color etc. of the different objects
- Tab **Extended** Adjusting the settings for the appearance of the tabs in views, activity properties and project/subproject
- Tab **Customize Ribbon** Adjusting the Ribbon
- Tab **Quick Access Toolbar** Adjusting the Quick Access Toolbar

11.2 General

Options

General

Rillsoft-Design: White

Default location

Projects: C:\ProgramData\Rillsoft Project 7.0\Projects

Portfolios: C:\ProgramData\Rillsoft Project 7.0\Portfolios

Templates: C:\ProgramData\Rillsoft Project 7.0\Templates

Reports: C:\ProgramData\Rillsoft Project 7.0\Reports

Default parameters for new activity

Fix: Duration

Duration: 8 h.

Disregard team and employee calendar

Start of activity only at first shift

Extended

Show help

Cutoff day move to current date

Label resource chart

Represent weekend

Represent nonworking days

Calculation of reserve time

Represent working time

Auto restore: 5 min.

Currency: €

Undo depth: 100

Activity are critical, if buffer less than or equal: 0 h.

Read-only projects in the portfolio of grey

Different project resources substitute resource pool

Integration Server

Enter commit comment for project versions

Use a proxy server for your LAN

Timeout: 600 s

Adresse:

Port number: 8080

HTTP authentication

User name:

Password:

User name:

Password:

OK Abbrechen

General

Rillsoft-Design: Select color scheme for the program.

Default location You can create folders for reports, projects and templates.

- **Projects:** Select a folder for the projects
- **Portfolios:** Select a folder for the portfolios

- **Templates:** Select a folder for the templates
- **Reports:** Select a folder for the reports

Default parametrs for a new activity

- **Fix Duration** - If you select this option, the effort and the utilization of the resource is calculated, while the activity's duration remains possible. You should select this option if you are planning on the basis of the well-known activity duration. The resource effort is then automatically calculated.
- **Fix Effort** - If you select this option, calculates the resource utilization and activity duration while the effort remains constant. You should select this option if you are planning on the basis of the known activity effort for activity roles. The activity duration is calculated automatically.
- **Duration** - Specify the default value for new activities.
- **Disregard team and employee calendar** - Select this check box if team and employee calendars should not be included in new activities.
- **Start of activity only at first shift** - Select this check box if the start of the activity may begin only on the initial layer.

Extended

- **Show help** - Select this check box so that the help of all objects is displayed.
- **Cutoff day move to actual day** - Mark this check box to automatically set the cutoff date on the actual date.
- **Label resource chart** - Mark this check box to label the resource bars on the resource chart with the actual value.
- **Represent weekend** - Select this check box to represent weekends and holidays in the views.
- **Represent nonworking days** - Select this check box to represent nonworking days in the views.
- **Reserve time calculation** - Mark this check box to automatical calculation when project changes to the contingency reserve in activities. If this option is switched off, earliest- and latest possible start- and end of activities in the activities table are not represented.
- **Auto restore:** - Enter the time interval in which a backup of your project must be created.
- **Currency:** - Enter the currency code.
- **Undo depth:** - Enter in this field a value for undo.
- **Activities are critical, if buffer is smaller or equal:** - You define a value, when the activities should be considered critical.
- **Read-only projects in the portfolio of grey** - When a portfolio is opened, read-only projects are represented in grey colour.

Rillsoft Integration Server:

You can set the settings for working with Rillsoft ntegration Server.

- **Enter commit comment for project versions** - You can add comments for each project version.
- **Timeout** - Enter in this field a value for the time spent waiting for a response from the Rillsoft Integration Server before either has to be transmitted again or the connection with a (timeout) error is cancelled.
- **HTTP authentication** - authenticate for Webserever, where among other things, Rillsoft Integration Server is installed for more access.
 - **User name** Enter the user name to connect to the Web server. Important: It is not a user name for Rillsoft Integration Server!
 - **Password** Enter the password to connect to the Web server. Important: It is not a password for Rillsoft Integration Server!

- **Use proxy server for your LAN** You can configure Rillsoft project that there is a connection to the Rillsoft Integration Server by a proxy server.
 - **Address** Enter the address of the proxy server.
 - **Port number** Enter the port number.
 - **User name** Enter the user name to connect to the Rillsoft Integration Server.
 - **Password** Enter the password to connect to the Rillsoft Integration Server.

11.3 Display

You can adjust color and size of the different objects.

The screenshot shows the 'Options' dialog box with the 'Display' tab selected. The settings are organized into several sections:

- Activity:** Standard (Default color), Exterior (Arial(8)), Completed (Default color), Interior (Arial(9)).
- Project/Subproject:** Standard (Default color), Exterior (Arial(8)), Lines background (Yellow), Interior (Arial(9)).
- Resources:** Roles background (Default color), Waming background (Default color), Teams background (Default color), Work capacity Role independent (Default color), Employee background (Default color), Work capacity (Default color), Material background (Default color), Deficit (Default color), Machine types background (Default color), Overload (Default color), Machine background (Default color), Capacity requirements (Default color).
- Calendar:** Cutoff data (Default color), Begin/End (Default color), Filter period (Default color), Current day (Default color), Project start (Default color), Vacation (Yellow), Project finish (Default color), Total utilization (Default color), Weekend/holidays (Default color), Font (Arial(8)).
- Scheduling:** Positiven Reserve (Default color), Date exceeded (Default color), Negativen Reserve (Default color), Critical path (Default color).
- View:** Difference between actual and t (Default color), Table (Arial(9)), Target cost (Default color), Utilization (Arial(8)), Actual cost (Default color), Linear (Arial(10)).

Buttons: OK, Abbrechen

The parameters are mostly intuitively understandable.

View

Lineal Left you can define the font in the additional diagrams such as resource or Gantt chart.

Change font and font size

You can change the fonts and font size to views, such as the chart area, as well as the table.

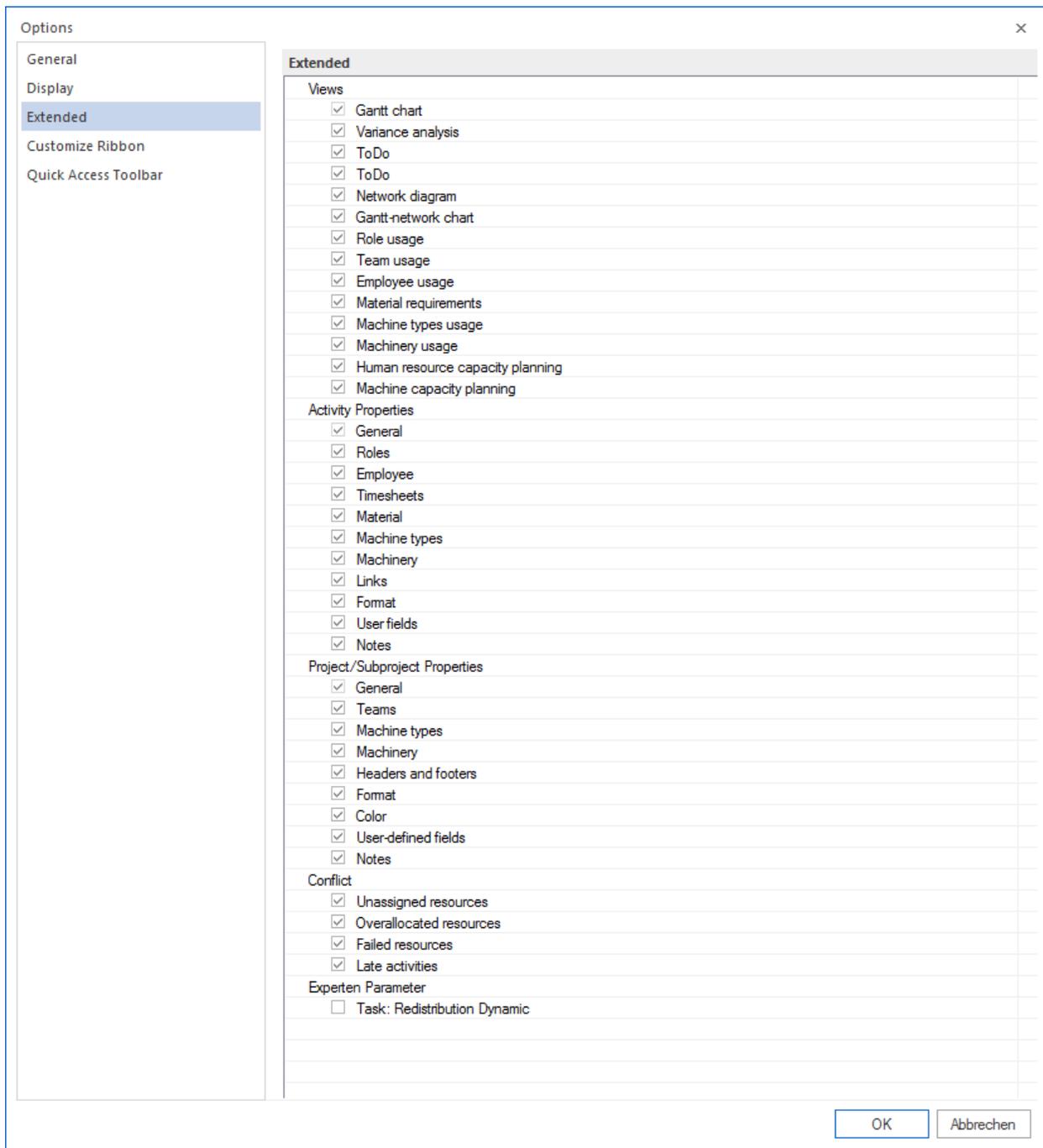
- First, click the menu item **File > Options > Display**
- Select the desired options

The screenshot displays the Rillsoft Project interface. On the left, a table lists project activities with columns for ID, Name, Duration, Start, and Finish. A Gantt chart is visible in the background. The 'Options' dialog box is open on the right, showing various settings for display, activity, project/subproject, resources, calendar, scheduling, and view. A 'Schriftart' (Font) dialog box is also open, showing font selection options.

Annotations with arrows point to specific settings:

- Change the font and size of a display in the bar chart:** Points to the 'Display' section in the Options dialog, where 'Arial(8)' is selected.
- Change the font and size of an activity in the bar chart:** Points to the 'Activity' section in the Options dialog, where 'Arial(9)' is selected.
- Change the font and size of a subproject in the bar chart:** Points to the 'Project/Subproject' section in the Options dialog, where 'Arial(9)' is selected.
- Change the font and size in the table:** Points to the 'Table' section in the Options dialog, where 'Arial(8)' is selected.
- Click on three points and select the desired font size in the dialog:** Points to the 'Schriftart' dialog box, specifically to the font size input field.

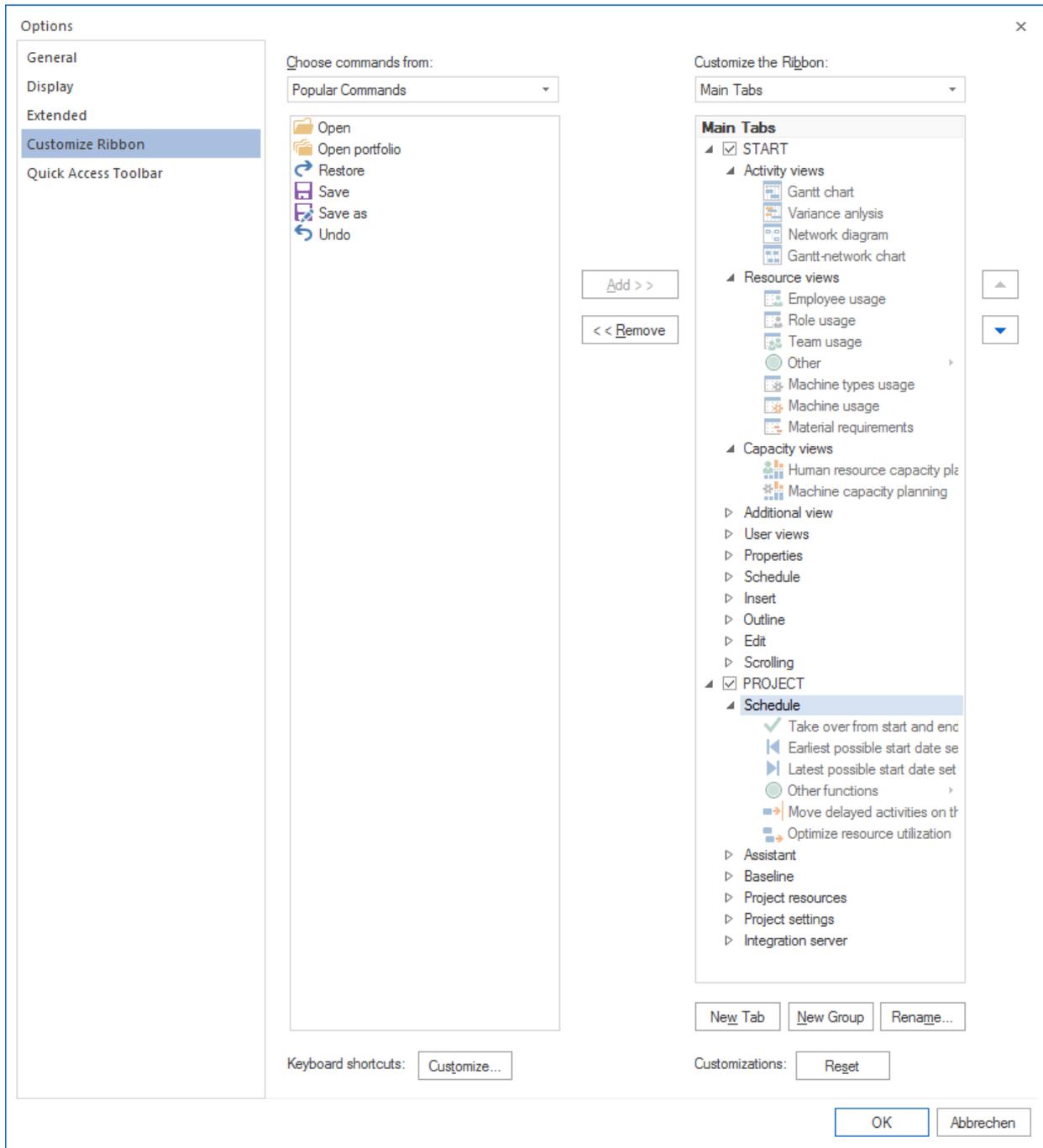
11.4 Extended



You can change the settings which tab pages in the following areas should be represented.

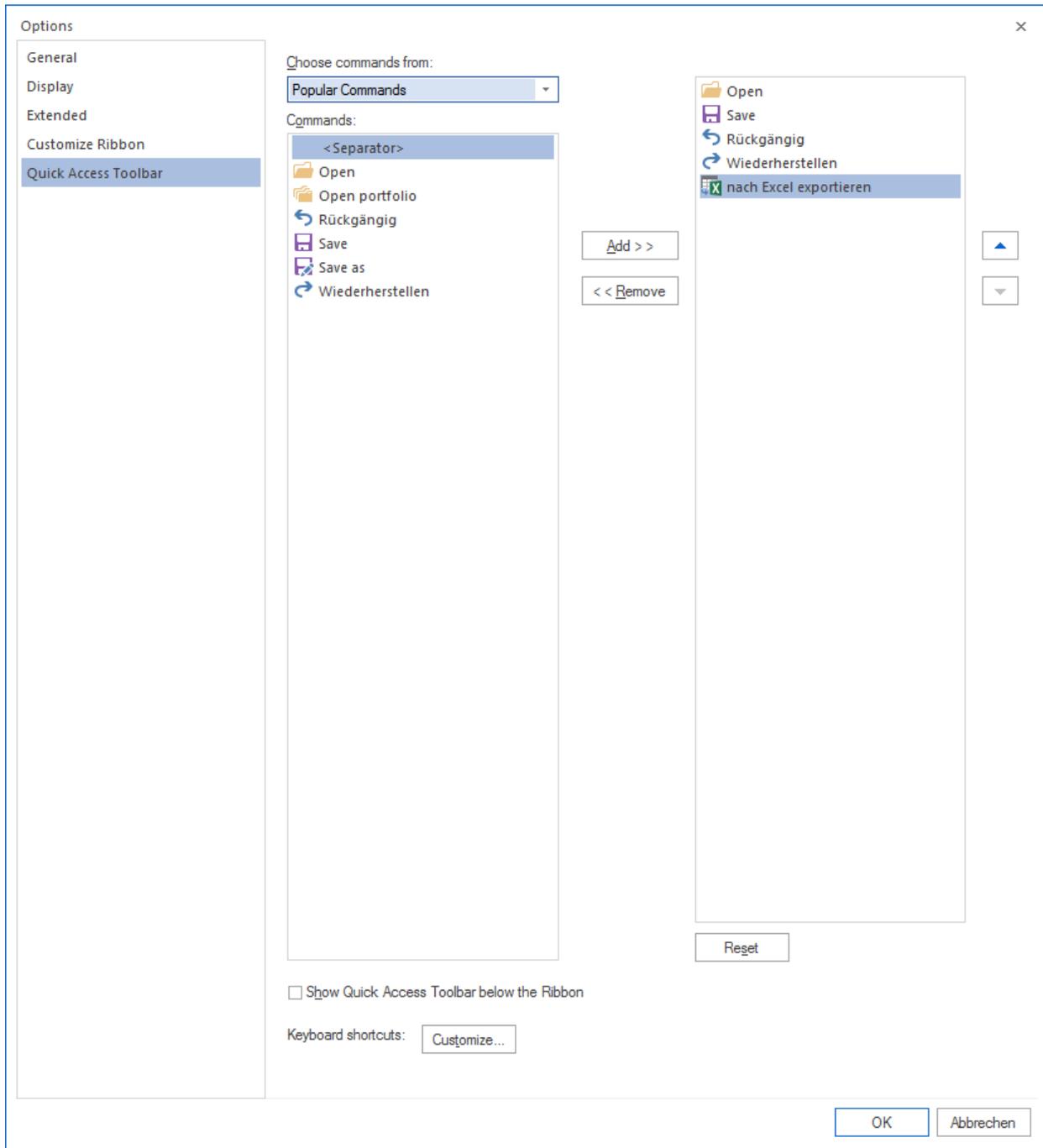
- **View** - Select the views from the list to be displayed.
- **Activity properties** - From the list select the activity properties that you want to appear as tabs at the top of the activity properties window.
- **Project/Subproject's properties** - From this list select the project/subproject properties that you want to appear as a tab in the upper pane of the project properties window.

11.5 Customize Ribbon



You can customize the Ribbon according to your requirements, e.g. create custom tabs and groups that contain commonly used commands.

11.6 Quick Access Toolbar



You can customize the Quick Access toolbar at two different positions, for example, below or above of the Ribbon place, as well as add buttons to it, that are representing the commands. Only commands can be added to the Quick Access Toolbar.

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