



ProcessForce User's Guide

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How to Guide – ProcessForce Routings

The following pages contain information for working with Routings.

Routing is a sequence of specific operations performed on specific resources characteristic for a certain item. Routing and Bill of Materials constitute a production process for item.

Related pages:

- [Routing](#)
 - [Advanced Operations Relations](#)
- [Operations](#)
- [Resources](#)

Path

Production > Routings

Routing

Routing Code: 03 Active
Routing Name: Packing

Operations Resources

#	Sequence	Operation Code	Operation Name	Operation Overlay Sequence	Operation Overlay Code
1	10	→ 02	→ Packing		
2	0				

Property Code	Property Name	Condition Type	Condition Value	Condition Value To	UoM

Remarks:

OK Cancel

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1.1 Routing

Routing consists of Operations and Resources. You can set required values for both of it.

Multiple Routings can be defined for a product, but a specific routing has to be defined as the default within the Bill of Material.

Routes may be active or non-active by checking the active checkbox within the form header.

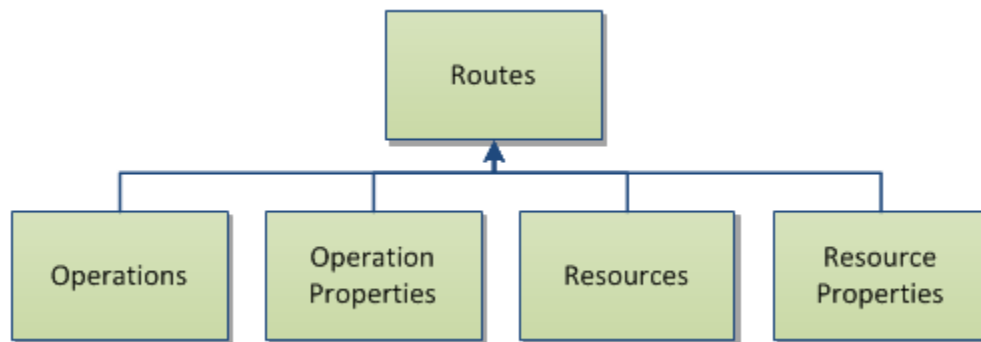
Routings are an optional function to be used in conjunction with Bills of Materials and Manufacturing Orders.

On this page

- [Adding and Changing Operation data](#)
- [Operation Properties](#)
- [Adding and Changing Resource data](#)
- [Resource Properties](#)
- [Instructions tab](#)

Path

Production > Routings > Routing



1.1.1 Adding and Changing Operation data

The top grid within this tab allows the user to select, add and remove operations

The user can also define the operation which it overlays or operates in parallel with and define the overlay percentage.

This data will be used for scheduling purposes.

Routing _ □ ×

Routing Code: Active
 Routing Name:

Operations Resources

#	Sequence	Operation Code	Operation Name	Operation Overlay Sequence	Operation Overlay Code
1	10	→ 02	→ Packing		
2	0				

Property Code	Property Name	Condition Type	Condition Value	Condition Value To	UoM

Remarks:

[↑ Top](#)

1.1.2 Operation Properties

Data is presented to the user within the grid, when the user selects the row within the top grid.

The properties of the selected operation are defaulted into this tab.

This grid allows the user to select and add additional properties for this operation/routing combination and change or remove the defaulted values.

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1.1.3 Adding and Changing Resource data

The top grid within this tab allows the user to select, add and remove resources.

Drop down box selection allows the user to choose the resource already defined on the operation.

The details of the selected resources are defaulted into this tab from the [Operations](#) definition.

This grid allows the user to select and add additional resources for this operation/routing combination and remove the defaulted resources.

The fixed and variable time elements values and unit of rates of the selected resource/operation are defaulted into this tab.

The user can change these default values if required for this specific route/operation/resource combination

Yellow arrow navigation to:

- Production → Technology → Resources → Resources

The screenshot shows a software window titled "Routing". At the top, there are input fields for "Routing Code" (03) and "Routing Name" (Packing), along with an "Active" checkbox. Below this, there are two tabs: "Operations" and "Resources". The "Resources" tab is selected, and the "Operation" dropdown is set to "(10) 02".

Resource Code	Resource Name	Is Default	MachineCode	Resource Type
→ 02	→ Pack	<input checked="" type="checkbox"/>		Machine
		<input type="checkbox"/>		Machine

Property Code	Property Name	Condition Type	UoM	Condition Value

At the bottom, there is a "Remarks" text area and two buttons: "Update" and "Cancel".

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1.1.4 Resource Properties

Data is presented to the user within the grid, when the user selects the row within the top grid.

The properties of the selected resource/operation are defaulted into this grid from the [Resources](#) definition.

This grid allows the user to select and add additional properties for this resource/operation/routing combination and change or remove the defaulted values.

1.1.5 Instructions tab

This tab contains an editable text area that can be used to hold any related text information, e.g. instructions, additional notes.

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1.1.6 Advanced Operations Relations

In previous versions it was possible to set up Operations in a consecutive sequence only. This option allows to set up more complicated Operation relations.

On this page:

- [Operations Relations](#)
 - [Advance Operation Relations Indicator](#)
- [Operation Relation Map](#)

You can reach the option by right-click on Operation in the following locations:

Path

- Production > Routings > Routings > Operations tab
- Production > Manufacturing Order > Manufacturing Order > Operations tab
- Production > Bill of Materials > Production Process > Routings tab > Routings tab

Routing

Routing Code: 03 Active
 Routing Name: Packing

Operations Resources

#	Sequence	Operation Code	Operation Name	Operation Overlay Sequence
1	10	⇒ 02	⇒ Packing	
2	20	⇒ 04	⇒ Prep	
3	30	⇒ 03	⇒ Mixing	
4			⇒ Prep	
5			⇒ Mix & Pack	
6				

Context menu for row 3:

- Copy
- Copy Table
- Maximise/Restore Grid
- What's this?
- Remove
- Add a new row
- Delete the row
- Duplicate
- Operation advanced relations

Property Name Condition Type

Remarks

Operations Relations

Operation Relations

RelationType: N Overloading
 Is Starting Operation Overload Qty:

operation Code	Sequence	Operation Name
	10	

Example Routing:

	Operation Sequence	Operation Code	Operation Name
	10	→ 01	→ Mix & Pack
	20	→ 02	→ Packing
	30	→ 03	→ Mixing
	40	→ 04	→ Prep
	50	→ 03	→ Mixing
	0		

Standard sequence:



Available options:

- **Relation Type:**

- None – option not used
- First Operation Finish – a specified operation starts when the first of chosen on Relation Operation form Operation is finished

Example:

Settings for Operation 04:

Operation Relations _ □ ×

RelationType: F Overloading

Is Starting Operation Overload Qty:

operation Code	Sequence	Operation Name
01	10	00000001
02	20	00000002
	0	

Update
Cancel

Result:

Operation 04 starts when Operation 01 is finished

- Last Operation Finish – a specified operation starts when the last of chosen on Relation Operation form Operation is finished

Operation Relations

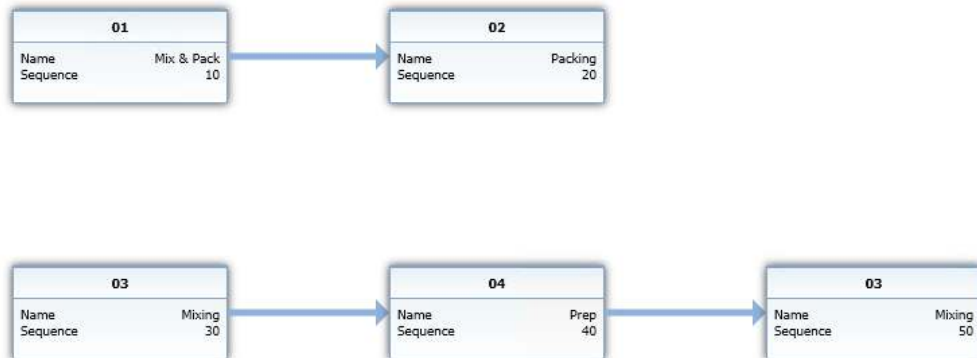
RelationType Overloading
 Is Starting Operation Overload Qty

operation Code	Sequence	Operation Name
01	10	00000001
02	20	00000002
	0	

Result:

Operation 04 starts when Operation 02 is finished.

- **Is Starting Operation** - choosing this option for a specific Operation makes it starting operation. This creates two parallel sequence
 Example: for Operation 03 **Is Starting Operation** checkbox is checked:



- **Overloading** – a specified Operation starts when the chosen on Operation Relation form Operation produce specified quantity

Advance Operation Relations Indicator

You can check if Operations has advance relations assign by checking values in the right columns:

Routing

Routing Code: 03
Routing Name: Packing

Active

Operations							Resources		
#	Sequence	Operation Code	Operation Name	Operation Overlay Sequence	Overlay Code	Overlay Value	Has Advanced Relation	Advanced Relation Type	Ignore Yield
1	10	02	Packing			0.0/0	<input checked="" type="checkbox"/>	SO	<input checked="" type="checkbox"/>
2	20	02	Packing			0.0/0	<input checked="" type="checkbox"/>	LF	<input type="checkbox"/>
3	30	03	Mixing			0.0/0	<input type="checkbox"/>	NO	<input type="checkbox"/>
4	0					0.0/0	<input type="checkbox"/>	NO	<input type="checkbox"/>

Advance Relation Types:

- SO – Is Starting Operation
- FF – First Operation Finish
- LF – Last Operation Finish

Operation Relation Map

You can check overall sequence (and all its advanced operations relations) by using visualization of Operations connections.

You can reach the option by right-click on Routing in the following locations:

Path

- Production > Manufacturing Order > Manufacturing Orders > Operations tab > Operations tab
- Production > Bill of Materials > Production Process > Routings tab > Routings tab

Production Process

Item Number: Recipe-02
 Description: Recipe-02
 Revision: default

Routings Operation Bind

#	Routing Code	Routing Name	Default	Roll-up Default	Remarks
1	02	Mixing Process	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2		Packing	<input type="checkbox"/>	<input type="checkbox"/>	
3			<input type="checkbox"/>	<input type="checkbox"/>	

Context Menu:

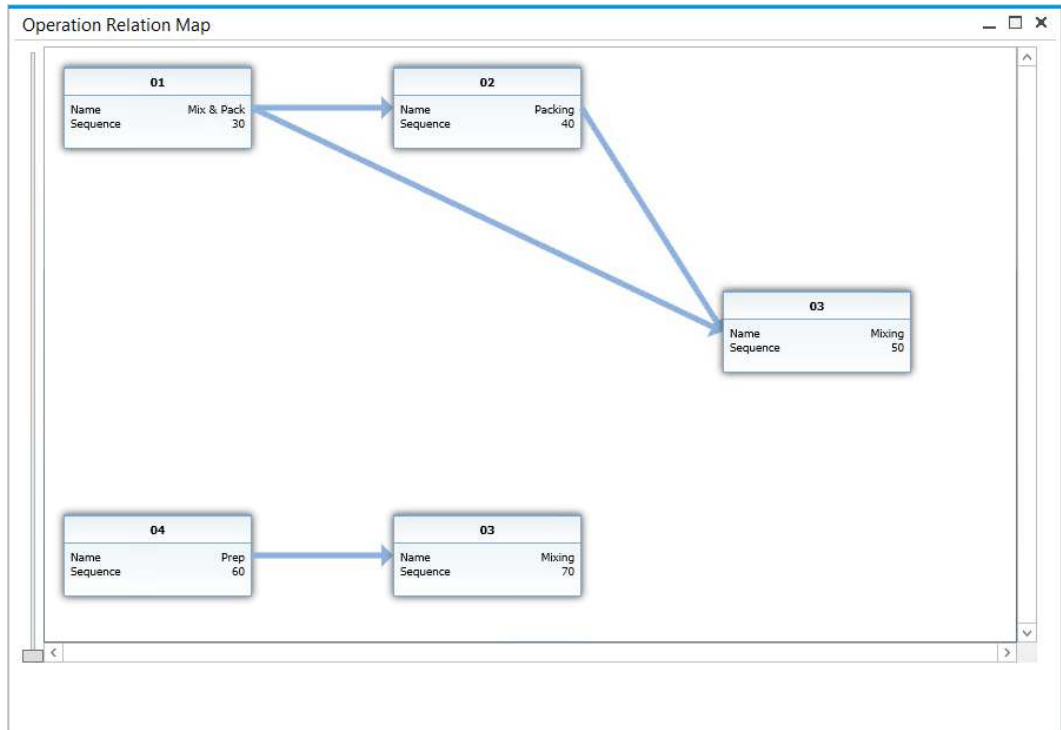
- Copy
- Copy Table
- Maximise/Restore Grid
- What's this?
- Add a new row
- Delete the row
- Operation Relation Map**
- Remove

Operation Name	Operation Overlay Sequence	Operation Overlay Code	Overlay Quantity	Has Advanced Relations
Prep			0.00	<input type="checkbox"/>
Mixing			0.00	<input type="checkbox"/>

Resource Code	Rresource Name	Default	Resource Type	Issue Type	Machine Code	Number of Resources	Has Cycles	Cycle Capacity	Queue Time	Queue ...
05	Prep	<input checked="" type="checkbox"/>	Machine	Manual		1	<input type="checkbox"/>	1.000	0.000	Fixed M
		<input type="checkbox"/>	Machine	Manual		0	<input type="checkbox"/>	1.000	0.000	Fixed M

OK Cancel

Example Operations relations chart:



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1.2 Operations

These forms allow the user to define Operations, Properties and Input/Output Properties.

On this page

- [Operations](#)
- [Properties for Operations](#)
- [I/O Properties for Operations](#)

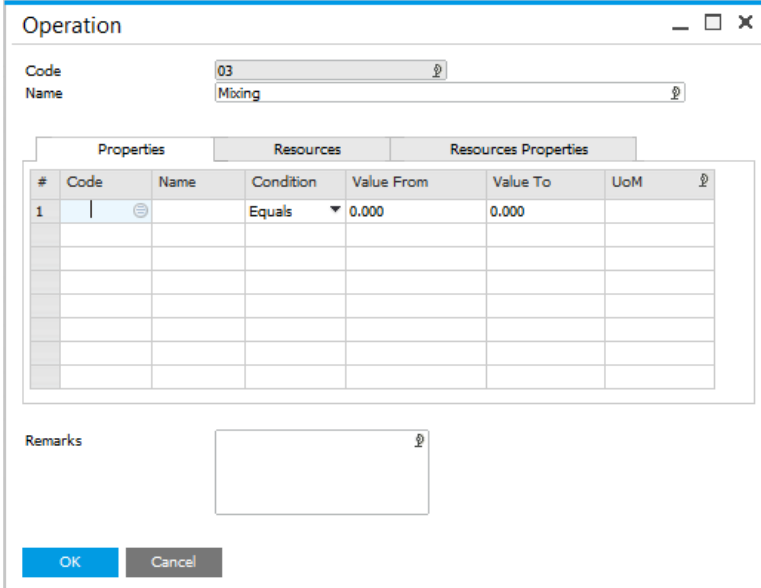
1.2.1 Operations

Path

Production > Routings > Operations

This form allows the user to define operations, which will be a part of the routing for making the product.

- Properties
 - This tab allows the user to select, add and remove a number of properties for the operation
 - The user can select from a number of expressions to record a specific value or a from/to value dependent upon the expression.



The screenshot shows the 'Operation' form with the following fields and table:

Code: 03
Name: Mixing

Properties Resources Resources Properties

#	Code	Name	Condition	Value From	Value To	UoM
1			Equals	0.000	0.000	

Remarks:

OK Cancel

- Resources

- This form allows the user to select, add and remove resources that are to be used within the operation
- Multiple resources can be added, but one of the resources has to be selected as the default
- The fixed and variable time element values and unit of rates of the selected resource are defaulted into this tab
- The user can change these default values if required for this specific operation/resource combination.

Operation

Code: 03
Name: Mixing

#	Resource Code	Resource Name	Is Default	Machine Code	Resource Type	Wait...
1	03	Mixer	<input checked="" type="checkbox"/>		Machine	0.000
2			<input type="checkbox"/>		Machine	0.000

Remarks: [Text Area]

OK Cancel

- Resource Properties

- The properties of the selected resource are defaulted into this tab
- This tab allows the user to select and add additional properties for this resource/operation combination and remove the defaulted values.

Operation

Code: 03
Name: Mixing

Resource: Mixer-1

PrpCode	PrpName	PrpConType	PrpConValue	PrpConValueTo	UoM
01	Pressure Equal	Equal	0.000	0.000	
	Equal	Equal	0.000	0.000	

Remarks: [Text Area]

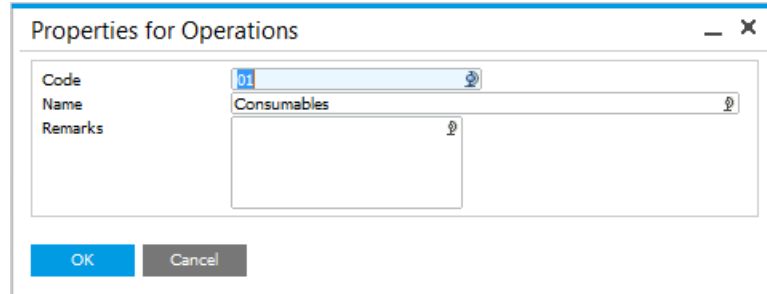
Update Cancel

1.2.2 Properties for Operations

Path

Administration > Setup > Production > Properties for Operations

This form allows the user to define properties for the operation, for example consumables.



The screenshot shows a dialog box titled "Properties for Operations". It has three input fields: "Code" with the value "01", "Name" with the value "Consumables", and "Remarks" which is empty. Each field has a small icon to its right. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

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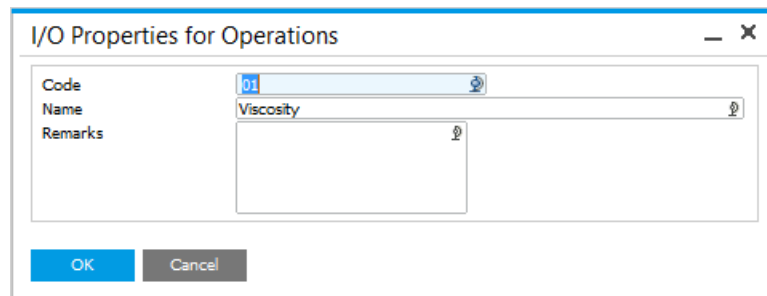
1.2.3 I/O Properties for Operations

Path

Administration > Setup > Production > I/O Properties for Operations

This form allows the user to define input and output properties of an operation.

This is additional data to describe the process of production for example input viscosity and output viscosity.



The screenshot shows a dialog box titled "I/O Properties for Operations". It has three input fields: "Code" with the value "01", "Name" with the value "Viscosity", and "Remarks" which is empty. Each field has a small icon to its right. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

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1.3 Resources

These forms allow users to define Resources, Properties and Groups, that will be used to create Operations.

On this page

- [Resources](#)
 - [Resource Types](#)
 - [Time and Rates](#)
 - [Types of Time](#)
 - [Rates](#)
 - [Resource Details Tab](#)
 - [Accounting Panel](#)
 - [Additional Details Panel](#)
 - [Info](#)
 - [Resource Calendar](#)
 - [Properties and Condition Types](#)
 - [Resource Status](#)
- [Resource Groups](#)
- [Properties for Resources](#)
- [Resources Accounting](#)
- [Resource Calendar](#)
- [Alternative Resource](#)

Path

Production > Routings > Resources

1.3.1 Resources

Resource Types

Type of Resource	Does it have impact on Scheduling?	Does it use calendar?	Will be visible on Gantt chart?	Hourly rates	Required to be connected to	Time booking	Has times (Setup, Run)?	Number of resources
Machine	✓	✓	✓	✓	-	✓	✓	Changeable
Labor	✗	✗	*	✓	-	✓	✓	Changeable
Tool	✓	✓	✓	✗	Machine	✗	✗	Always 1
Subcontracting	✓	✓	✓	✓	-	✓	✓	Changeable

* Labor may be presented on Gantt chart but Start and Finish dates (on Manufacturing Orders tab) may be empty or has default value (0001-01-01), as this type of Resource does not affect Manufacturing Order Scheduling.

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Time and Rates

• Types of Time

- Queue Time – initial time before setup. In calculations it does not have calendar and does not consume resource
- Setup Time – time for setting up machine, uses calendar and occupies resource
- Run Time – time of resource run
- Stock Time – the last time, after run. In calculations it does not have a calendar and does not consume resource

Rates

- For Queue, Setup and Stock time the following rates are available:
 - Fixed hours,
 - Fixed minutes,
 - Fixed seconds.

- For Run time the following rates are available:
 - Fixed hours
 - Fixed minutes
 - Fixed seconds
 - Hours per piece
 - Minutes per piece
 - Seconds by piece
 - Pieces per hour
 - Pieces per minute
 - Pieces per second

When using cycles, only Fixed Rates can be used for Run Time.

- Define the fixed and variable time elements of the resource
- This also includes the unit of rate for each time element
- Piece equates to the unit of measure of the item number being produced
- The valid rates for Queue, Setup and Stock time are fixed seconds, minutes and hours
- Run Time can use any of the unit rates
- Cycles can be checked to define the resource has a cycle capacity
- Cycle capacity is the number of production units that can be processed per cycle.
- Number Of Resources allows to define default number of units of resources to work on. Note that setting a Number Of Resources affects run time. E.g. if Run Time is 10 h and Number of Resources 1, Planned Run Time is 10 h. If Number of Resources changes to 2, planned time automatically changes into 5 h. Changing a Number of Resources affects production process, however during cost calculation only added up time will be considered - in accordance to the example: 10 h work is done after 5 h using 2 resources, cost is calculated as a cost of work of 2 resources for 5 h each (10 h).

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Resource Details Tab

Accounting Panel

- Allows a user to choose whether or not there should be posting for time bookings
- You can define many different Resource Accounting posting schema
- Cost Centers and Projects can be selected
- According to how many cost centers are enabled within SAP Business One General Settings one or more dimensions fields are displayed

Additional Details Panel

Issue Wks Code and Receipt Wks Code are CompuTec PDC related fields. CompuTec PDC Production Issue/Receipt options are not available, if Issue/Receipt Warehouses are not assign to a specific Resource. For Production Issue, a Bin Location is not required (just a Warehouse have to be assign) but for Production Issue it is mandatory to choose a Bin Location.

How to enable Bin Locations

Path

SAP B1 > Administration > Setup > Inventory > Warehouses > General tab

The screenshot shows the 'Warehouses - Setup' dialog box in SAP B1. The 'General' tab is active. The 'Warehouse Code' is '02' and the 'Warehouse Name' is 'CP'. The 'Bin Locations' section is expanded, showing the 'Enable Bin Locations' checkbox checked and circled in red. Other options include 'Inactive', 'Drop-Ship', and 'Nettable'. The 'Location' dropdown is set to 'Computec'. Below the 'Street/PO Box' field are fields for 'Street No.', 'Block', 'Postcode', 'City', 'Country', 'State', 'VAT Number', and 'GLN'. A 'Show Location in Web Browser' link is at the bottom right. 'OK' and 'Cancel' buttons are at the bottom left.

Info

If you updated Labels when Scheduling Board is opened, it is required to reopen it to have the changes on it.

Resource Planning Settings are set up by a Resource: you can set up different settings for each of the Resources in the system.

Clicking the button next to Info leads to Resource Planning Board Settings form:

The screenshot shows a window titled "Resource Planning Board Settings" with a close button (X) in the top right corner. The window is divided into several sections. The first section contains eight columns, each with a label (Label 1 to Label 8). Each column has a text input field for the label name, a "Query" checkbox, and a "Field" dropdown menu. The second section contains a "Label Warning" section with a "Query" checkbox and a "Field" dropdown menu. At the bottom left, there are "OK" and "Cancel" buttons.

Here you can define up to eight columns that will be displayed on Scheduling Board > [Resource Planning Board](#) on Task rows for a specific Resource.

You can define:

- Name of a column (fields Label 1, Label 2...)
- Type of retrieving method of data to be displayed in a specific column:
 - Object (Query checkbox unchecked): choose a field from three kind of Objects (Manufacturing Order, Operation, Resource) and Dynamic option (times connected to specific Operation or Resources, e.g. Operation Duration),
 - Query (Query checkbox checked): you can create a query based on which data for the column will be retrieved.

Parameter syntax:

```
@[Table Name - without fixed prefixes].[Field Name]
```

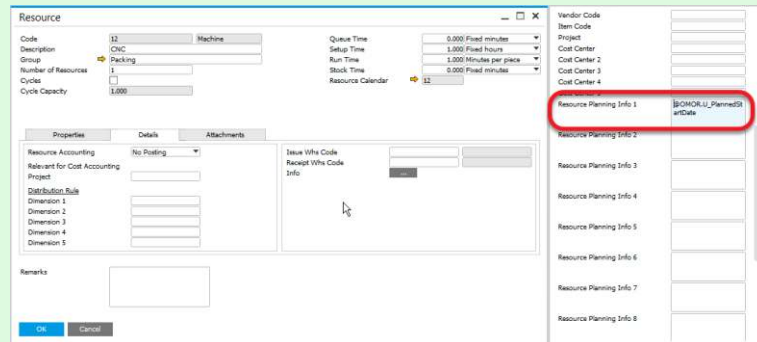
Example: @OMOR.U_PlannedStartDate

You can easily check a name of a field to be used in a query by using View > User-Defined Fields option.

Example

We want to use Planned Start Date field from Manufacturing Order.

1. Go to Resource Planning Board Settings.
2. For Label 1 uncheck Query checkbox, choose Manufacturing Order, Planned Start Date from the drop-down lists and choose Update.
3. Choose Update on Resource form.
4. Go to the upper menu > View > User-Defined Fields.
5. The field name is displayed in User-Defined Fields panel, Resource Planning Info 1 field:

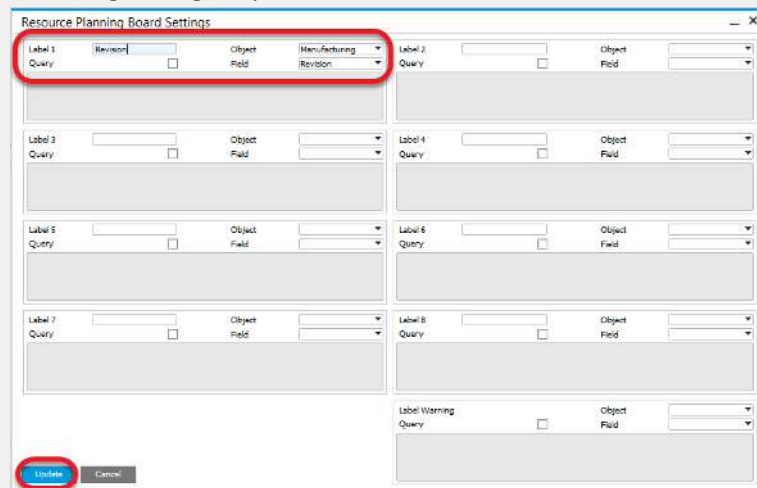


The screenshot shows the 'Resource' form with several tabs: Properties, Details, and Attachments. The 'Details' tab is active, showing various fields for resource configuration. On the right side, there is a 'User-Defined Fields' panel with eight rows labeled 'Resource Planning Info 1' through 'Resource Planning Info 8'. The first row, 'Resource Planning Info 1', is highlighted with a red circle and contains the text 'BOMORU_PlanneStartDate'.

Example of a Label added to a specific Resource

We want to have a Revision of Manufacturing Order to be displayed on Tasks of Prep Resource.

Choosing the right option:



The screenshot shows the 'Resource Planning Board Settings' form. It has a grid of settings for eight labels. The first row, 'Label 1', is highlighted with a red circle. In this row, the 'Object' dropdown is set to 'Revision' and the 'Field' dropdown is set to 'Revision'. The 'Query' checkbox is unchecked. At the bottom left of the form, the 'Update' button is highlighted with a red circle.

We have to click Update on Resource form too after this.

Result:

The screenshot shows a scheduling window with a table of resources. A red box highlights the 'Resource' column for the '05-Prep' resource, which is set to '0000'. To the right, a detailed view for '05-Prep' is shown, including fields for 'Date From', 'Date To', 'Resource', 'Availability', 'Overloaded', 'DocNumber', 'Batch Code', 'Operation Code', 'Run Effort', 'Setup Effort', 'Prev Operation Finish', and 'Next Operation Start'.

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Resource Calendar

- Resource Calendar is created automatically when Resource is added
- The yellow arrow next to Resource Calendar field leads to its definition
- Click [here](#) to find out more about Calendars.

The screenshot shows the 'Resource' definition form. The 'Resource Calendar' field is highlighted with a red circle and contains the value '07'. The form includes fields for Code, Description, Group, Number of Resources, Has Cycles, Cycle Capacity, Queue Time, Setup Time, Run Time, and Stock Time. Below the form is a table with columns for Property Code, Property Name, Condition Type, UoM, Condition Value, and Condition V... The table has one row with the value '1' in the first column.

#	Property Code	Property Name	Condition Type	UoM	Condition Value	Condition V...
1			Equal		0.000	0.000

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Properties and Condition Types

- This form allows a user to add and remove properties
- Properties can be used to define additional data relating to the resource, for example machine set-up details and consumables
- The user can select from a number of expressions to record, for example a specific value or a from/to value dependent upon the expression.

The screenshot shows a 'Resource' form with the following fields and values:

- Code: 07 (Tool)
- Description: Tool-01
- Group: Tooling
- Number of Resources: 1
- Cycles: 1
- Cycle Capacity: 1.000
- Queue Time: 0.000 Fixed minutes
- Setup Time: 0.000 Fixed minutes
- Run Time: 0.000 Fixed minutes
- Stock Time: 0.000 Fixed minutes
- Resource Calendar: 07

The 'Properties' tab is active, showing a table with the following data:

#	Property Code	Property Name	Condition Type	UoM	Condition Value	Condition V...
1	01	Pressure	Between		32.000	40.000
2	02	Temperature	Between		50.000	70.000
3			Between		0.000	0.000

A dropdown menu is open for the 'Condition Type' column, showing options: Between, Equal, Not equal, Greater than, Greater than or equal, Less than, and Less than or equal.

Remarks: [Empty text box]

Buttons: Update, Cancel

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Resource Status

It is possible to set up either Active or Inactive status for a Resource.

A Resource with Inactive status can be added neither to Manufacturing Order, nor Bill of Materials.

Example usage: the option can be used to set Inactive status to mark Resources that were used in company's production processes but currently are not (e.g. were sold or scraped).

Resource

Code: 07 (Tool) | Description: Tool-01 | Group: Tooling | Number of Resources: 1 | Cycles: 1 | Cycle Capacity: 1.000

Queue Time: 10.000 Fixed minutes | Setup Time: 20.000 Fixed minutes | Run Time: 55.000 Fixed minutes | Stock Time: 1.000 Fixed minutes | Resource Calendar: 07

Active
 InActive

#	Property Code	Property Name	Condition Type	UoM	Condition Value	Condition V...
1	01	Pressure	Equal		0.000	0.000
2	03	Machine Speed	Between		5.000	15.000
3			Equal		0.000	0.000

Remarks

OK Cancel

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1.3.2 Resource Groups

Path

Administration → Setup → Production → Resource Groups

This form allows the user to define resource groups, for example mixing vessels, blenders and ovens.

Resource Groups

Code: 06 | Name: Labour

OK Cancel

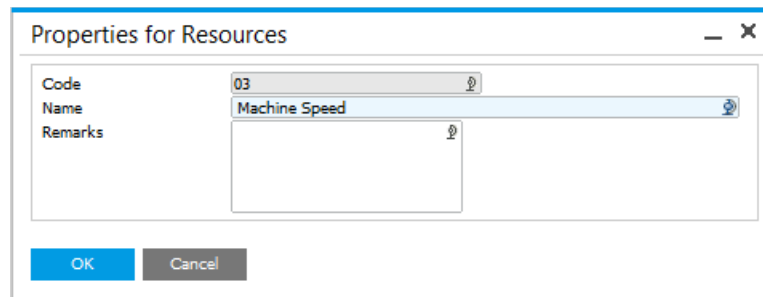
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1.3.3 Properties for Resources

Path

Administration > Setup > Production > Properties for Resources

This form allows the user to define properties for the resource, for example pressure, temperature or Machine Speed.



The screenshot shows a window titled "Properties for Resources". Inside the window, there are three input fields: "Code" containing "03", "Name" containing "Machine Speed", and "Remarks" which is empty. Each field has a small icon to its right. At the bottom of the window, there are two buttons: "OK" and "Cancel".

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1.3.4 Resources Accounting

Path

Administration > Setup > Financials > Resources Accounting

Resources Accounting allows to define multiple posting accounts for Time Bookings.

You can select accounts for posting for every resource time types:

- Queue Time
- Setup Time
- Run Time
- Stock Time

Further for every resource time type you can select accounts for type of time:

- Base
- Fixed Overhead
- Variable Overhead

- Variance
- Fixed Overhead Variance
- Variable Overhead Variance

Time Variance Accounts

Please note that all **Time Variance Accounts** although they can be configured, they are not used in current software versions.

We plan to provide functionality which will leverage them during posting of Manufacturing Order closure in future versions.

The Work In Progress Account can be added here or is based on the WIP account defined for the Document type – Production Order.

Resources Accounting

Resource Accounting Code: 01 Resource Accounting Name: Resource Accounting

Title	Account Code	Account Name
Queue Time Variable Overhead Account		
Queue Time Variance Account		
Queue Time Fixed Overhead Variance Account		
Queue Time Variable Overhead Variance Account		
Setup Time Account		
Setup Time Fixed Overhead Account		
Setup Time Variable Overhead Account		
Setup Time Variance Account		
Setup Time Fixed Overhead Variance Account		
Setup Time Variable Overhead Variance Account		
Run Time Account		
Run Time Fixed Overhead Account		
Run Time Variable Overhead Account	→	Patents and Royalties
Run Time Variance Account		
Run Time Fixed Overhead Variance Account		
Run Time Variable Overhead Variance Account		
Stock Time Account		
Stock Time Fixed Overhead Account		
Stock Time Variable Overhead Account		
Stock Time Variance Account		
Stock Time Fixed Overhead Variance Account		
Stock Time Variable Overhead Variance Account		
WIP Account	→ 131000	Work in Progress

Update Cancel

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1.3.5 Resource Calendar

Path

Production > Routings > Resource Calendar

Resource Calendar is used to define the availability of Resource for production, which is further used for production planning.

- On the first tab you can define hours for each day of a week. As you can see in the example, there is an option to define multiple periods per one day.
- On a right upper corner of this form you can check Total Working Time in week.

#	Day	From Time	To Time	T...
1	Monday	06:00	14:00	08:00
2	Monday	14:30	22:30	08:00
3	Tuesday	06:00	14:00	08:00
4	Wednesday	06:00	14:00	08:00
5	Wednesday	14:30	22:30	08:00
6				00:00

- The exceptions tab is used to overwrite availability of resource at specified date.

Resource Calendar

Code → 07 Total Working Time 40:00
 Name Tool-01

Working Hours Exceptions Holidays

#	Date	From Time	To Time	Remarks
1	19.02.15	09:00	00:00	
2				

OK Cancel Till Date You Can Also

- In Holidays tab you can define days on which resource is not available.

Resource Calendar

Code → 07 Total Working Time 40:00
 Name Tool-01

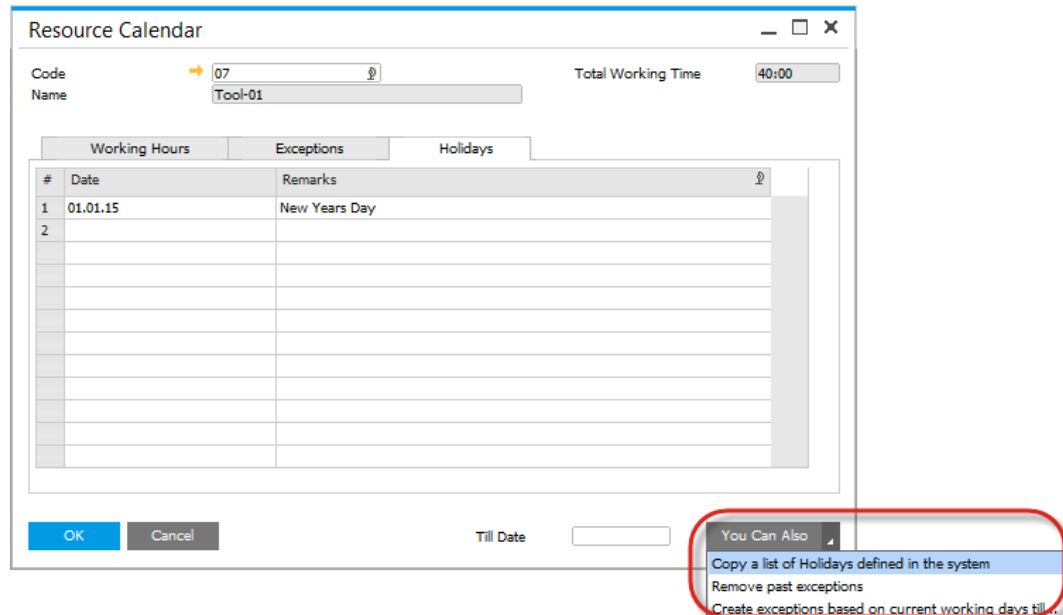
Working Hours Exceptions Holidays

#	Date	Remarks
1	01.01.15	New Years Day
2		

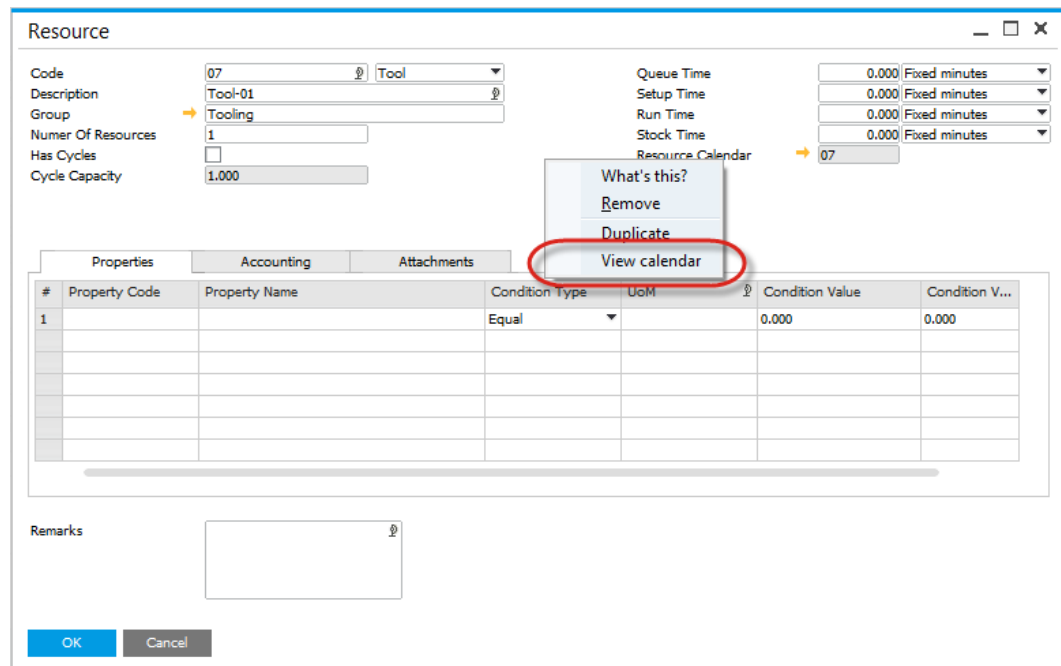
OK Cancel Till Date You Can Also

- You Can Also button let you perform following tasks automatically:
 - Copying holidays from holidays defined in SAP

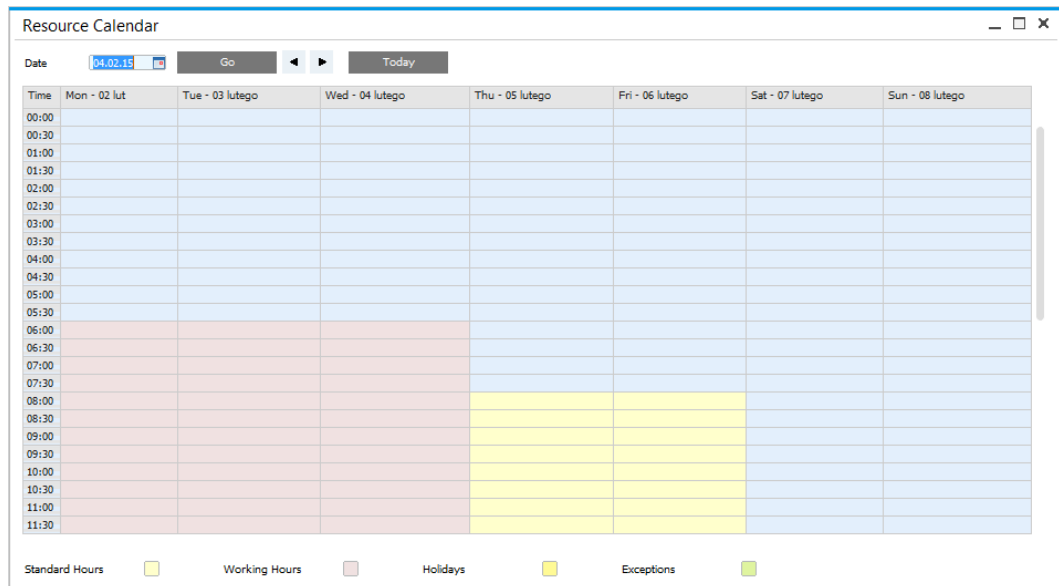
- Remove past exceptions – this will remove every exception before actual date
- Create exceptions based on current working days till date. This one add exceptions from actual date to date defined in Till Date field for hours and days defined in Working Hours tab.



- At any time you can view Resource Calendar by clicking on View calendar in a context menu of a Resource form.



- This will open graphical presentation of resource availability. On the bottom of window you will find legend for colours on calendar.



1.3.6 Alternative Resource

A Resource can have assign a number of other Resource, to which a Manufacturing Order task can be switch, e.g. in case of downtime of an original Resource. Click [here](#) to find out more.

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