



Critical
manufacturing
an ASM PT company

Schedule Scenario View

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scheduling

Schedule Scenario View

The Schedule Scenario View is the default View when landing on a Schedule Scenario. This view is only populated if the Schedule Scenario has previously been *Generated*.

Should the view be populated, it allows for different visualizations of the scenario.

Resource / Material / Employee / Durable Views

The six top left icons allows to change the visualization of the hypothetical plan in two ways.

- The first four icons allow you to alternate between four Views:
 - The **Resource** view, which shows the Schedule Scenario Job (remaining Steps to be executed for each Material) allocation for each equipment. This can be helpful in determining the load allocation in critical resources in the system.
 - The **Material** view, which shows, in each row, the sequence of Schedule Scenario Jobs for each Material. This can be helpful in visualizing the execution of a single Material in the chosen timeframe, as well as detecting if there are significant wait times between consecutive operations (as well as between components and finished good Materials, should there be dependencies in the system).
 - The **Employee** view, which displays a list of jobs assigned to each **Employee**.
 - The **Durables** view, which displays a list of jobs assigned to each **Durable**.

Info

The **Search** bar on the top right of the page applies to whatever entity is chosen for the view: in the Resource view it will look for Resources and in the Material view it will look for Materials.

Info

It is possible to set the order in which the Resources appear in the Resource view using the Resource property Display Order. If there are Resources with the same Display Order, they are ordered alphabetically.

- The second two icons allow to alternate between two different organizations:
 - Calendar view, which draws up a Gantt Chart, showing all the different Schedule Scenario Jobs graphically.
 - List view, showing the different Schedule Scenario Jobs in a tabular view.

It is possible to combine these two view types as needed: there is a Calendar and a List view for both the Resource and the Material view, similarly to what occurs in the [Schedule View for the Schedule](#)

Calendar View

The Calendar view has functionalities that help the user browse through the production plan.

- Regarding the time window that is shown, the user can configure its width with the **Time Window Width** combo box (1.). Its possible values are:
 - Year
 - Month
 - Week
 - Day
 - Hour
 - Custom

i Info

The system will automatically attempt to display only the options which make sense for the total operation span. For example, if the total planning horizon is smaller than one week, the options year, month and week will not be shown.

Alternatively, the user can use the **Planning Horizon Bar** (2.) to either move or expand/narrow the time window. Note that within this bar, two symbols are shown:

1. The vertical blue bar represents the current date/time.
2. The dark grey bar represents the presence of Schedule Scenario Jobs in different moments of the Planning Horizon, thereby showing the load across the horizon.

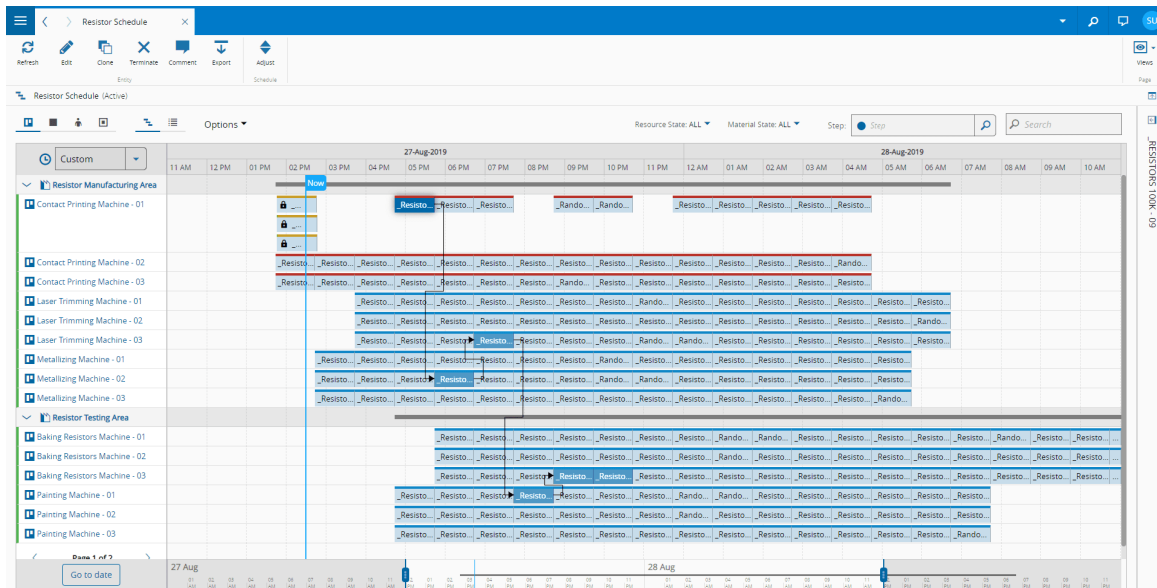
This last functionality is also used on the header of the time window (3.), with the dark grey bar showing the presence of Schedule Scenario Jobs in different moments of the current time window.

In order to restrict the scope of the current window, when using the Resource view (4.), it is possible to collapse/expand the different Areas, hiding or showing their respective Resources. Also, besides using the Search Bar previously described, it is possible to use the **Step Filter bar** (5.), which shows only the Schedule Scenario Jobs for that Step.

By hovering over a Schedule Scenario Job, a tooltip appears detailing it.

Resistors 1k - 03 (Contact Printing)	
Resource	Due date
Contact Printing Machine - 01	Wed Feb 14 2018 00:00:00 GMT...
State	Planned setup time
Scheduled	30m 0s
Step	Planned process time
Contact Printing	1h 50m 0s
Quantity	From
50	05-Mar-2018 22:53
Product	To
Resistor 1k	06-Mar-2018 01:13
Priority	
3	

By clicking on a Schedule Scenario Job on the Resource, Durable or Employee Calendar View, the other Jobs related to the same Material will be highlighted, showing the other Steps the Material has to undergo. Additionally, in the Resource View precedence arrows will show what is the planned flow for that Material in the shop floor.



By clicking on the Schedule Scenario Job, the same information becomes available on the right-hand side panel, on the **Details** tab (6.). This tab also shows information about existing relations to Tools (Durables), Employees or Dependencies that the Schedule Scenario Job may have.

In terms of visibility, there are three extra filters available. The **Options** filter (7.) besides allowing to hide/show the precedence arrows previously described, also allows to color-code the Schedule Scenario Jobs according to four different criteria:

- Name. Useful for seeing the flows of different Materials.
- Priority. Useful for seeing if the priorities are being respected.
- Product. Useful for seeing when possible setups/changeovers between Products are occurring, as well as seeing when each one is processed.
- Product Group. Useful for seeing when possible setups/changeovers between Product Groups are occurring, as well as seeing when each one is processed. Finally, the **Resource State** (8.) allow the user to filter the Resources according to the state.

Using the Options filter you can also choose to view the jobs separated by **Production Order** by selecting the appropriate option.

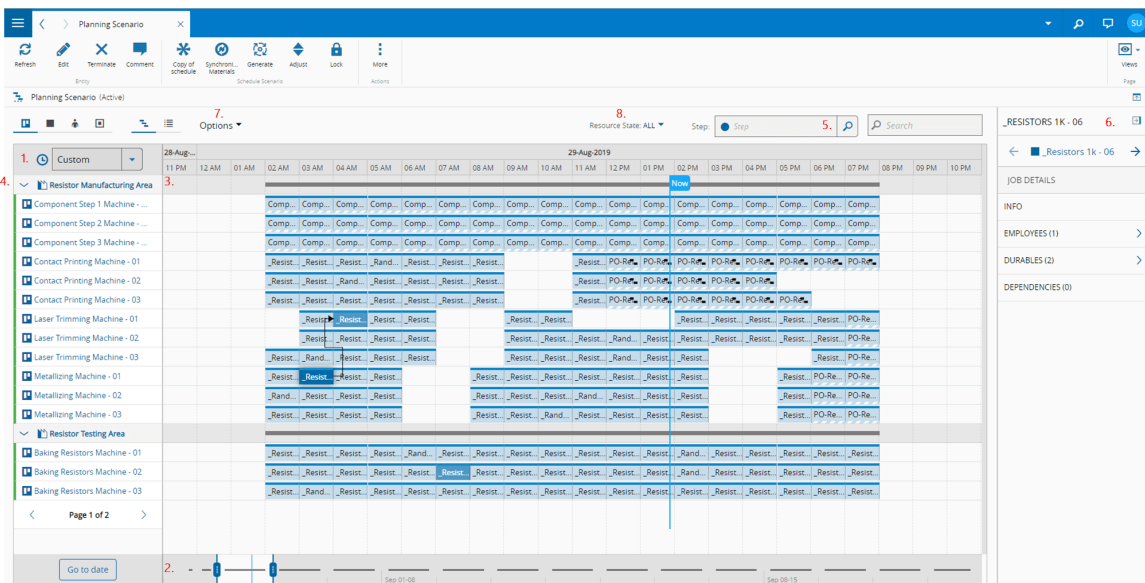
Show precedence arrows:

Use colors to differentiate jobs:

Differentiate materials by: Name
 Priority
 Product
 Product Group

View by Production Order:

Row height :



List View

The List View allows for a time filtering, using the **From** (1.) and **To** (2.) text boxes to limit the analysis window. It is also possible to expand and collapse the Schedule Scenario Jobs assigned to an entity, by clicking on the **Name** (3.) of that entity.

Planning Scenario

Refresh Edit Terminate Comment Copy of schedule Synchronize Materials Generate More

Planning Scenario (Active)

From: MM/dd/yyyy HH:mm P:1 To: MM/dd/yyyy HH:mm P:2

MATERIAL	STEP	STATE	DUE DATE	FROM	TO	PLANNED SETUP TIME	PLANNED PROCESS TIME
CONTACT PRINTING MACHINE - 01 (31 MATERIALS) / UP							
PO-Resistor - 1.0.1.1	Contact Printing	Scheduled	09/25/2019 11:00 PM	08/29/2019 12:00 PM	08/29/2019 01:00 PM	-	1 hour
PO-Resistor - 12.0.1.10	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/04/2019 02:00 PM	09/04/2019 03:00 PM	-	1 hour
PO-Resistor - 1.0.1.4	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/06/2019 11:00 AM	09/06/2019 12:00 PM	-	1 hour
PO-Resistor - 1.0.1.7	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/06/2019 12:00 PM	09/06/2019 01:00 PM	-	1 hour
PO-Resistor - 1.0.1.8	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/06/2019 01:00 PM	09/06/2019 02:00 PM	-	1 hour
PO-Resistor - 1.0.1.9	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/06/2019 02:00 PM	09/06/2019 03:00 PM	-	1 hour
PO-Resistor - 1.0.1.10	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/06/2019 03:00 PM	09/06/2019 04:00 PM	-	1 hour
PO-Resistor - 10.0.1.4	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/08/2019 03:00 AM	09/08/2019 04:00 AM	-	1 hour
PO-Resistor - 10.0.1.5	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/08/2019 04:00 AM	09/08/2019 05:00 AM	-	1 hour
PO-Resistor - 10.0.1.6	Contact Printing	Scheduled	09/25/2019 11:00 PM	09/08/2019 05:00 AM	09/08/2019 06:00 AM	-	1 hour

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Also, in the Material List View, for each Material it is possible to see if the Due Date is being fulfilled by color coding (4.):

- Green - Delivery on-time
- Red - Delayed Delivery

Planning Scenario

Refresh Edit Terminate Comment Copy of schedule Synchronize Materials Generate More

Planning Scenario (Active)

From: MM/dd/yyyy HH:mm PP To: MM/dd/yyyy HH:mm PP

Search: _red

RESOURCE	AREA	STEP	STATE	FROM	TO	PLANNED PROCESS TIME
_RESISTORS 100K - 01 Due date: 10/23/2019 11:00 PM 4.						
Metallizing Machine - 02	Resistor Manufacturing Area	Metallizing	Up	08/28/2019 03:59 PM	08/28/2019 04:59 PM	1 hour
Laser Trimming Machine - 03	Resistor Manufacturing Area	Laser Trimming	Up	08/28/2019 04:59 PM	08/28/2019 05:59 PM	1 hour
Painting Machine - 01	Resistor Testing Area	Painting	Up	08/28/2019 05:59 PM	08/28/2019 06:59 PM	1 hour
Baking Resistors Machine - 01	Resistor Testing Area	Baking Resistors	Up	08/28/2019 06:59 PM	08/28/2019 07:59 PM	1 hour
Baking Resistors Machine - 01	Resistor Testing Area	Baking Resistors	Up	08/29/2019 02:00 AM	08/29/2019 03:00 AM	1 hour
Tin Plating Machine - 01	Resistor Testing Area	Tin Plating	Up	08/29/2019 03:00 AM	08/29/2019 04:00 AM	1 hour
Test and Packing Machine - 02	Resistor Testing Area	Test and Packing	Up	08/29/2019 04:00 AM	08/29/2019 05:00 AM	1 hour
_RESISTORS 100K - 02 Due date: 10/23/2019 11:00 PM						
Metallizing Machine - 01	Resistor Manufacturing Area	Metallizing	Up	08/28/2019 03:59 PM	08/28/2019 04:59 PM	1 hour
Laser Trimming Machine - 01	Resistor Manufacturing Area	Laser Trimming	Up	08/28/2019 04:59 PM	08/28/2019 05:59 PM	1 hour
Painting Machine - 02	Resistor Testing Area	Painting	Up	08/28/2019 05:59 PM	08/28/2019 06:59 PM	1 hour

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