Capacity Planning in the Process Industry

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Capacity Planning in the Process Industry

Purpose

In production planning for process industries, capacity leveling functions are used to commit resources. The objective is to achieve optimal utilization of resources and carry out detailed sequencing.

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> In production planning for the production industry the resources are generally called work centers.

Capacity leveling for production planning in the process industries corresponds to that in discrete manufacturing in many respects. To find out how capacity leveling is executed, see Capacity Planning in Shop Floor Control [Ext.].

Constraints

These functions for considering and adjusting setup times [Ext.] are not available for capacity leveling in the process industry (PP-PI), that is, for capacity leveling of process orders and planned orders that refer to master recipes. This covers the manual adjustment of the setup time and also the functions that are based on the evaluation of a setup matrix [Ext.].

Settings in Customizing (PP-PI)

To optimize the use of capacity leveling it has to be installed in the system for process planning. The setting is usually made in system administration in Customizing.

You can find information on settings in Customizing necessary for carrying out capacity leveling in MRP and MPS in Settings and profiles for capacity leveling [Ext.].

The predefined overall profiles for process planning are shown in the following tables.

Predefined overall profiles when accessing capacity leveling in PP-PI

Menu option	Overall profile	Parameters
Resources view → *Cap. planning table*	SAPPI_G001	CYJ
Resources view → *Cap.plan. table (tab).*	SAPPI_G004	CYQ
Process order view → *Cap. planning table*	SAPPI_G002	CYV
Process order view → *Cap.plan table (tab.)*	SAPPI_G003	CYW

If you want to use your own overall profile under the menu option *Process planning*, maintain this as the value for one of the user parameters above (you get there as follows: *System* → *User profile* → *Own data*).

Executing Capacity Leveling (PP-PI)

To execute capacity leveling in production planning for process industries choose *Logistics* →
Production - Process → *Process planning* and then

- *Capacity leveling* → *Resource view* and the desired planning table if you mainly want
  to plan your bottleneck resource or if you want to process one or more resources.

- C*apacity leveling* → *Process order view* and the desired planning table if you wish to
  select the quantity of resources to be dispatched using one or more of the process
  orders.

- *Capacity leveling* → *Variable*, if you want to use your own overall profiles for special
  planning situations.

The capacity leveling functions in production planning for process industries correspond in many
respects to those for production planning in manufacturing.

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> In production planning for the production industry the resources are generally called
> work centers.

> The operations in a process order are relevant to capacity planning. The duration of
> an operation is however determined by the lead time scheduling of the phases.