

# Enable and disable a dyelot

## Overview.

Concerned: Supervisor

Check if the dyelot fill up all pre-requirements. In the negative case, print only the header of the dyelot and error messages.

We will add an operation 'Ini Data' at the top of the combined process that validate or not all requirements. Its result will be saved in parameters 'enable' and 'disable'. We will modify the formulas of the other operation so that they are only done if the dyelot is enabled.

## Write the rule.

We create the parameters 'disable' and 'enable' with the following settings:

Parameter 'disable'	Value type: value Calculate without print: No Minimum: 0 Maximum: 1
Parameter 'enable'	Value type: value Calculate without print: Yes Minimum: 0 Maximum: 1

Only one parameter is normally required but it is practical to have the choice between both.

## Operation 'ini data'.

We create the operation 'Ini data' with 3 or more lines.

First line We initialize the parameter 'disable' to 0 (dyelot not disabled).

The screenshot shows a rule editor interface. At the top, there is a text input field for the 'If' condition, followed by a checkbox labeled 'Interpolate between each step'. Below this is a table with columns for logical operators and values. The first row shows '< or =' in the operator column, 'Then' in the value column, and 'Min', 'Max', and 'Not' in separate columns. The second row is empty. Below the table is an 'Else' clause with a text input field containing the value '0'.

Middle lines

We check the requirements. When a requirement is not filled up, 'disable' is set to 1 and the note explains why the dyelot has been disabled. When all requirements are filled up, 'disable' keeps its value. Many check requirements lines can be added.

#	In Case Of	Do	Min	Max	Note
1	Quality_Param('LR min')=0	1			In the quality, add the parameter 'LR min' and give a value.
2	Quality_Param('LR max')=0	1			In the quality, add the parameter 'LR max' and give a value.

Else ValueOf('disable')

Test all statements

Last line

The last line set 'enable' to the opposite of 'disable'.

If ValueOf('disable')

Interpolate between each step

< or =	Then	Min	Max	Note
0	1			

Else 0

**Modification of the combined process.**

- We add the operation 'Ini Data' at the top of the combined process and modify the operations formulas.

#	Name	LabOperation_ID	ProdOperation_ID
1			Ini Data
2	Volume optimization		Ini LR
3			Termo
4			Table ProH 1
5	test ini REA All in		test ini REA All in
6	Scouring		Cel Scouring

- When there is no formula, we write the following formula:

If

Interpolate between each step

< or =	Then	Min	Max	Note

Else ValueOf('enable')

- When there is a formula, we modify it, using 'enable' or 'disable':

Before:

If Recipe\_Param('Scouring')

Interpolate between each step

< or =	Then	Min	Max	Note
0	0			

Else 1

after:

If Recipe\_Param('Scouring')

Interpolate between each step

< or =	Then	Min	Max	Note
0	0			

Else 1\*ValueOf('enable')

# Application.

- We generate and print a dyelot:

2001-0128	0		0	100 kg
		2001-0128		
16-48- <b>Production form</b> 2001-05-28 12:44:				
Recipe <b>16-48-00 -- 9</b>		9	Preparation	Finishing
Color type <b>V0003 LEMON</b>		Quality <b>Cotton knitted not merceris</b>	SpecialRequest	
Customer ---		Grey quality	LabRecipe ID	
		vWarpDesc		
		vWeftDesc		
		Density <b>105</b>	Width <b>165</b>	
REA All-in	REA All-in			
test	Z	Z	Volume <b>1400 l</b>	
11			Liquor ratio <b>1/14</b>	
		1	In the quality , add the parameter 'LR min' and give a value. In the quality , add the parameter 'LR max' and give a value.	

Messages inform us that we must fill 2 parameters in the quality record. The other operations are not printed.

- We add the required values for the quality, generate and print again:

2001-0128	0		0	100 kg
		2001-0128		
16-48- <b>Production form</b> 2001-05-28 12:50:				
Recipe <b>16-48-00 -- 9</b>		9	Preparation	Finishing
Color type <b>V0003 LEMON</b>		Quality <b>Cotton knitted not merceris</b>	SpecialRequest	
Customer ---		Grey quality	LabRecipe ID	
		vWarpDesc		
		vWeftDesc		
		Density <b>105</b>	Width <b>165</b>	
REA All-in	REA All-in			
test	Z	Z	Volume <b>1400 l</b>	
11			Liquor ratio <b>1/14</b>	
1. <span style="float: right;">Dyei</span>				
<b>Common Salt</b>		70 g/l	<b>Cold water</b>	98000,00 g
<b>Soda Ash</b>		0,43 g/l		595,00 g
<b>Caustic Soda</b>	<b>N.R.</b>	52,5 g/l		73500,00 g
<b>Depsolube ACA</b>		1 g/l		1400,00 g
<b>Metallic Dye Liquid</b>		0,2 g/l		280,00 g