

Define Alternative Calculation for Condition Amount in Document Condition

Sales in SAP S/4HANA Cloud 1811
November 2018

CUSTOMER

Objectives



After completing this learning module, you will know:

- The function provided with the alternative calculation for the condition amount in a document condition
- How to set up the custom logic for the alternative calculation of the condition amount
- How to set the condition formula for the alternative calculation of the condition amount
- How to assign the condition formula in a pricing procedure step
- How to set up the pricing procedure determination

The Function



The Function

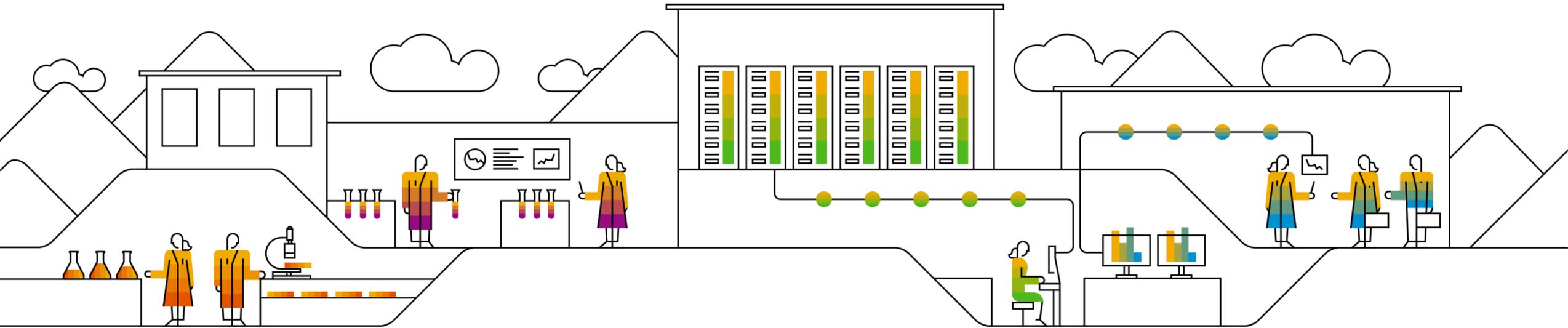


Allows you to alter the calculation of the condition amount of a group condition type in pricing with the following details:

- Supports you if the SAP delivered calculation types do not match your business requirements
- You can override the SAP standard ways to calculate the condition amount
- You can set up custom logic for alternative calculation of the condition amount
- You can reuse your custom logic for different condition types in pricing procedures

For example, you want to implement a specific rounding logic for a group condition type in a given pricing procedure.

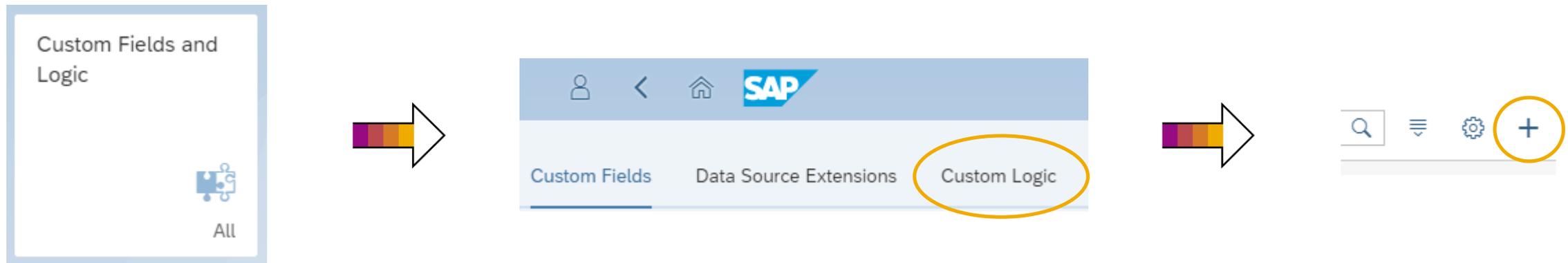
Set Up Custom Logic



Set Up Custom Logic I

Start the extensibility by opening the *Custom Fields and Logic* app:

- Navigate to the *Custom Logic* tab
- Choose the create option ('+') on the right hand side of the screen



Set Up Custom Logic II

Create a new enhancement implementation:

- Business Context
 - Pricing
- BAdI Description
 - Define Alternative Calculation for Condition Amount in Document Condition
- Implementation Description
 - <Provide an implementation description>
- Implementation ID
 - this is defaulted, but can be overwritten

New Enhancement Implementation

Business Context:
Pricing

*BAdI Description:
Define Alternative Calculation for Condition Amount in Docu...

*Implementation Description:
My Implementation Description

*Implementation ID:
YY1_ MYIMPLEMENTATION

Create Cancel

Set Up Custom Logic III

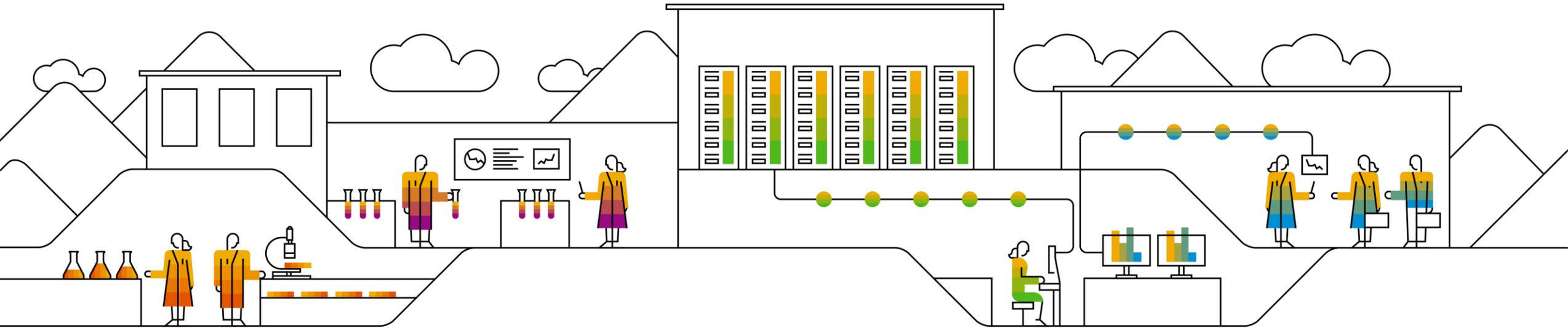
Draft, test, and publish the enhancement implementation

The screenshot displays the SAP Custom Fields and Logic configuration page. At the top, the title is "My Implementation Description" with a note "Last Changed By ADMINISTRATOR John, 7/13/2018, 6:51:39 AM". A callout box points to the "BAdI Documentation" tab, stating: "The BAdI documentation and the draft logic provide further information". Below this, the "Draft Filter" section shows the formula "formula = MYFILTERID" and a "Draft" button. The "Draft Logic" section contains a code editor with the following content:

```
1 Mandatory step for all implementations:  
2 Move the importing parameters to the changing parameters.  
3 MOVE-CORRESPONDING prcg_element_attributes TO prcg_element_result_amounts.  
4 General remark:  
5 The enhancement ID that you assign to a routine number must correspond to the BAdI filter of the current implementation.  
6 In the configuration of a pricing procedure, you assign the routine number to a condition type or to a sub-total line.  
7  
8 In the following, an example implementation of a condition amount routine for the condition header is presented.  
9 Such type of routine can be used to change the value for a pricing element.  
10  
11 The example implementation below will do the centime-rounding if the currency is Swiss francs.  
12 Additionally, a custom message will be raised.  
13 TRY.  
14 IF doc_attributes-transactioncurrency = 'CHF'.  
15 prcg_element_result_amounts-conditionamount = prcg_element_result_amounts-conditionamount * 20.  
16 prcg_element_result_amounts-conditionamount = |{ round( val = prcg_element_result_amounts-conditionamount  
17 | dec = 0 ) }|.  
18 prcg_element_result_amounts-conditionamount = prcg_element_result_amounts-conditionamount / 20.  
19 ENDIF.  
20 pricing_message = 'This is a BAdI example implementation for a group condition' ##NO_TEXT.  
21 CATCH cx_sy_conversion_error cx_sy_arithmetic_error INTO DATA(1x_conversion).  
22 prcg_element_result_amounts-conditioninactivereason = 'X'.  
23 prcg_element_result_amounts-conditionamount = 0.
```

A second callout box points to the code editor, stating: "To identify the implementation, you must assign a unique filter value". At the bottom right, there are buttons for "Save Draft", "Delete", "Test", and "Publish".

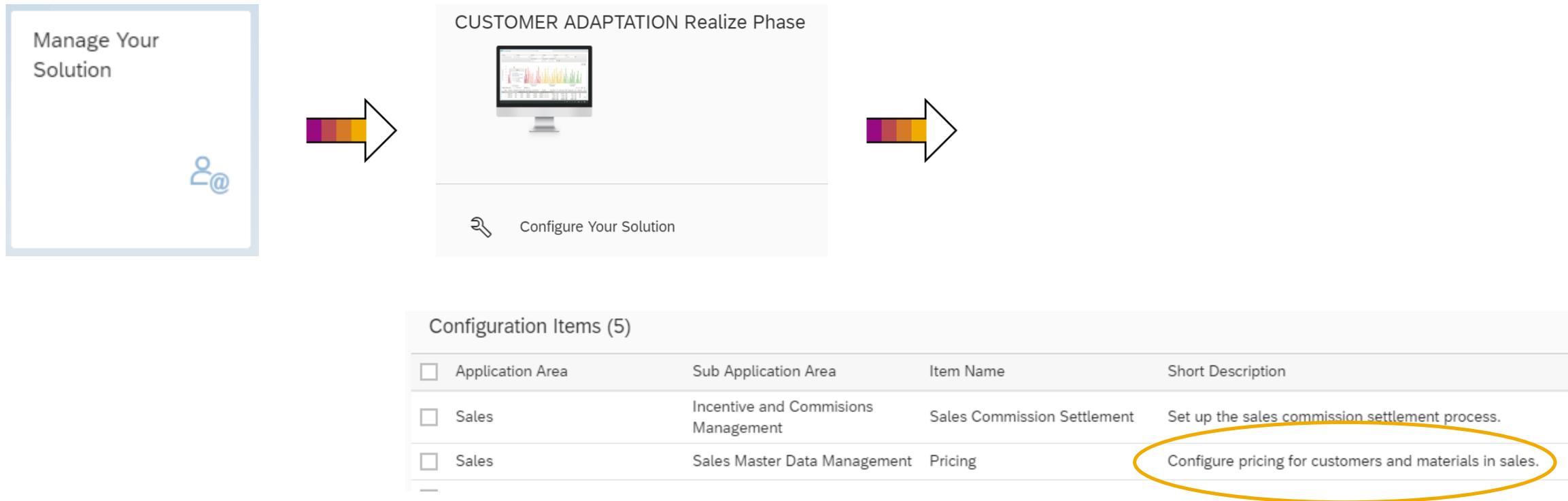
Set Condition Formula for Alternative Calculation of Condition Amount



Set Condition Formula for Alternative Calculation of Condition Amount I

Start the *Manage Your Solution* app:

- Navigate to *Configure Your Solution*
- Choose the configuration item *Configure pricing for customers and materials in sales*



Set Condition Formula for Alternative Calculation of Condition Amount II

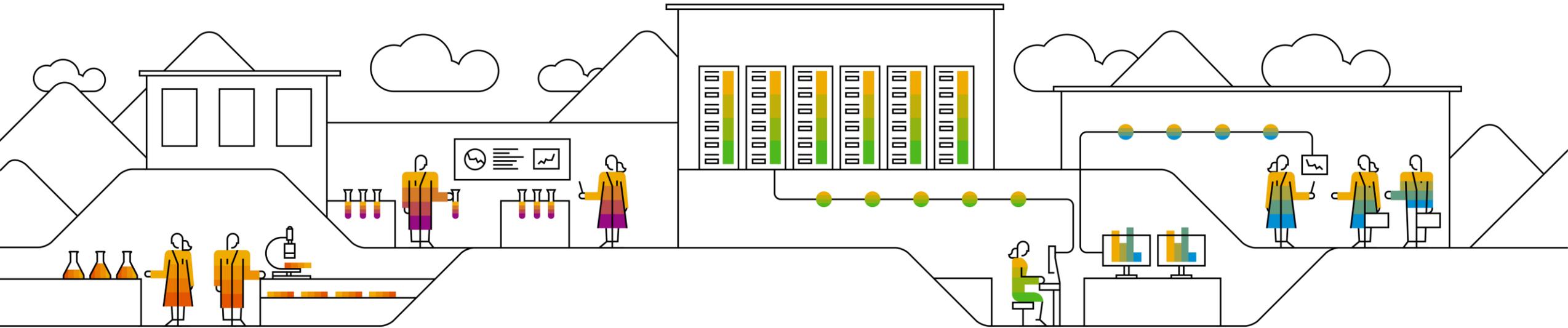
Choose configuration step *Set Condition Formula for Alternative Calculation of Condition Amount*.

- Create a new entry for *Registration of a Routine Number*
- In the *Process Enhancement Option* field, select *Condition Amount*
- Assign a routine number from 3000000 to 3009999
- Create a new entry within *Assign Enhancement IDs to a Routine Number*
 - As a *Process Enhancement Option Task* choose *DOCUMENT_CONDITION_AMOUNT*
 - You need to assign the filter value of the enhancement implementation as an identifier for your enhancement

The screenshot shows the SAP configuration interface for 'Assign Enhancement IDs to a Routine Number'. The 'Process Enh. Option' is set to 'CONDITION_AMOUNT' and the 'Routine Number' is '3000123'. A table below lists the 'Process Enhancement Option Task' and its 'Enhancement Identifier'. The identifier 'MYFILTERID' is circled in orange.

Process Enhancement Option Task	Description	Implementation Type	Enhancement Identifier
<input type="checkbox"/> DOCUMENT_CONDITION_AMOUNT		Business Add-In (BAI)	<input type="checkbox"/> MYFILTERID

Assign Condition Formula to a Pricing Procedure Step



Assign Condition Formula to a Pricing Procedure Step

In the *Manage Your Solution* app, choose *Configure Your Solution*. Within configuration item *Configure pricing for customers and materials in sales*:

- Navigate to *Set Pricing Procedures*
- Copy a SAP standard pricing procedure to your custom pricing procedure
- In pricing procedure step, assign the formula to the *Alt. Calculation Type* field

Procedure: ZMY001 My Pricing Procedure

Procedures - Control Data

Reference Step Overview

Step	Cou...	Con...	Description	From ...	To Step	Man...	Re...	Stati...	Rele...	Print Type	Subtotal	Require...	Alt. Calcul...	Alt. Cond...	Account ...	Accruals
10	0	PC01	Actual Costs			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8	2			ERL	
20	0	PPR0	Price			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2			ERL	
60	0	PMP0	Manual Price			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2			ERL	
100	0		Gross Amount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a	1		2			
120	0	DPG1	Cust. Grp / Material			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
130	0	DCM1	Customer/Material			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
140	0	DC01	Division / Customer			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
150	0	DM01	Material			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
160	0	DPG2	Customer Price Group			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
170	0	DPG3	Material Price Group			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
180	0	DPG4	Customer/Mat.Pr.Grp			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
190	0	DPG5	Cust. Grp/Mat.Pr.Grp			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
200	0	DRG1	% Gross Amount 1	100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
210	0	DRN1	% Net Amount 1			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
220	0	DRQ1	+/- as to Quantity 1			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
230	0	DRV1	Fixed Amount 1			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
240	0	DRW1	+/- as to Gross Weight			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a		2			ERS	
250	0	ZMYG	My Group Discount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				3000123			
300	0		Sum Surcharges/Discounts	101	299	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
310	0	PNP0	Net Price			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2	6	3	ERL	
700	0		Net Amount 1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a	2		2			
850	0	TTX1	Output Tax			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A		10		16	MWS	
899	0	DRD1	Rounding Off 1			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			13	16	4	ERS	

Set Pricing Procedure Determination



Set Pricing Procedure Determination

In the *Manage Your Solution* app, choose *Configure Your Solution*. Within configuration item *Configure pricing for customers and materials in sales*:

- Navigate to *Set Pricing Procedure Determination*
- Create a new entry for the determination of your pricing procedure

<input type="checkbox"/>	Sales Organi...	Distrib...	Division	Doc...	Cus...	Pricing Proce...	Pricing Procedure
<input checked="" type="checkbox"/>	1010	10	00	A	02	ZMY001	My Procedure
<input type="checkbox"/>	1010	10	00	A	02	ZMY001	My Procedure

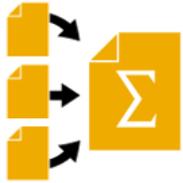
Tasks and Roles



Overview of Tasks and Required Roles

Task	Tile(s)	Business Role
Create Custom Logic	Custom Fields and Logic	SAP_BR_ADMINISTRATOR
Set Condition Formula for Alternative Calculation of Condition Amount	Manage Your Solution / Sub-section Configure Your Solution	SAP_BR_BPC_EXPERT
Set Pricing Procedures	Manage Your Solution / Sub-section Configure Your Solution	SAP_BR_BPC_EXPERT
Set Pricing Procedure Determination	Manage Your Solution / Sub-section Configure Your Solution	SAP_BR_BPC_EXPERT

Summary



You should now know:

- The function provided by the alternative calculation for condition amount in document condition
- How to setup the custom logic for alternative calculation of condition amount
- How to leverage the alternative calculation in the business process

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