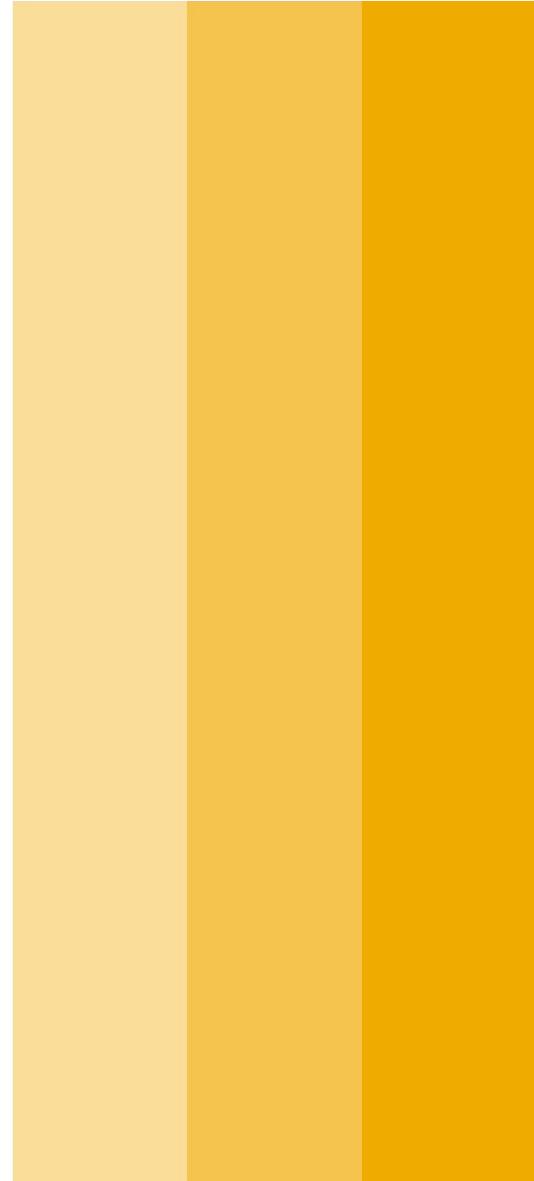


Set Alternative Calculation of Condition Base Value

SAP S/4HANA Cloud
Sales 1902 Update
February 2019

CUSTOMER



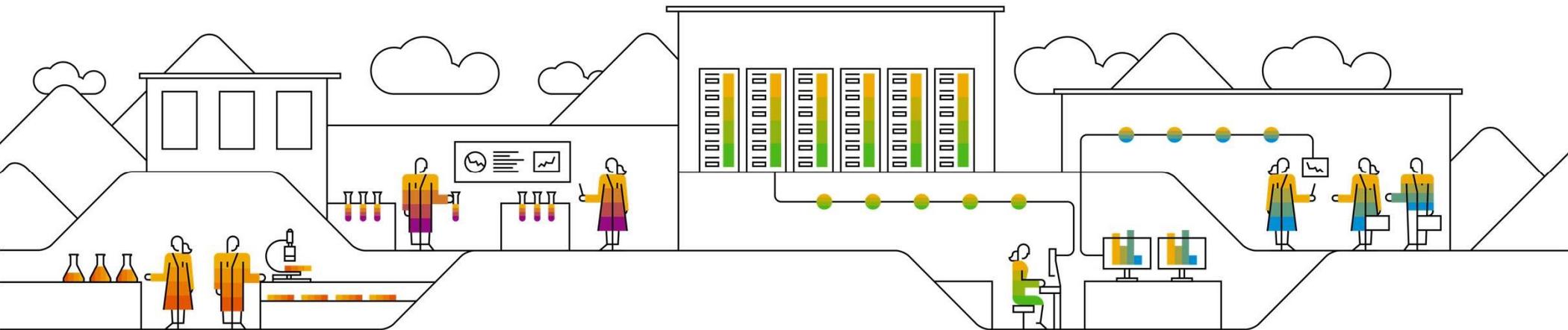
Objectives



After completing this learning module, you will know:

- The function provided with the alternative calculation of the condition base value
- How to set up the custom logic for the alternative calculation of the condition base value in a document item
- How to set the alternative calculation of the condition base value
- How to assign the routine number in a pricing procedure step
- How to set up the pricing procedure determination

The Function



The Function

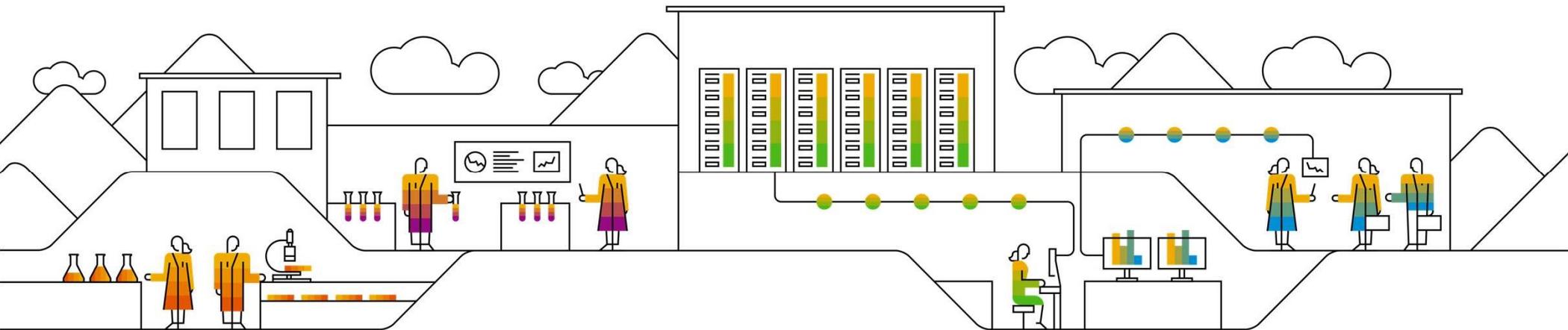


Allows you to alter the calculation of the condition base value of a condition type in pricing with the following details:

- Supports you if the SAP-delivered calculation of the condition base value does not match your business requirements
- You can override the SAP standard methods of calculating the condition base value
- You can set up custom logic for alternative calculation of the condition base value
- You can reuse your custom logic for different condition types in pricing procedures

For example, you want to implement a specific quantity conversion logic for a 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 Base Value of Document Item
- 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 Base Value of Do...

*Implementation Description:
My Implementation Description

*Implementation ID:
YY1_ MYIMPLEMENTATIONDESCRIPTIO

Create Cancel

Set Up Custom Logic III

Draft, test, and publish the enhancement implementation

The screenshot shows the SAP Custom Fields and Logic configuration interface. The page title is "My Implementation Description" and it indicates it was last changed by Administrator John on 11/23/2018 at 12:13:26 PM. The status is "Published".

Annotations include:

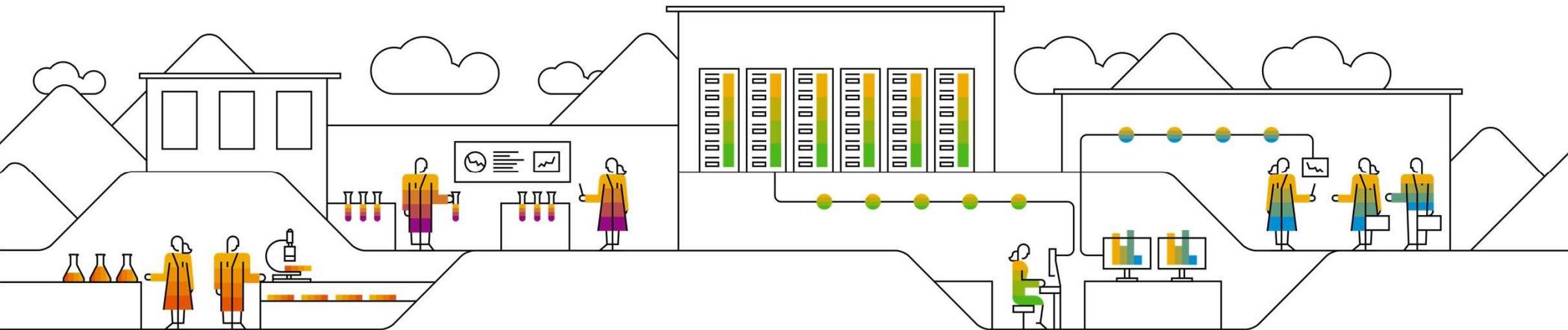
- A yellow box highlights the text: "The BAdI documentation and the draft logic provide further information".
- A yellow box highlights the text: "To identify the implementation, you must assign a unique filter value".

The "Published Filter" section shows the formula: `formula = MY_FILTER_ID`.

The "Published Logic" section contains the following code:

```
1 * Mandatory step for all implementations:
2 * Move the importing parameters to the changing parameters.
3
4 MOVE-CORRESPONDING prcg_element_attributes TO prcg_element_result_amounts.
5
6 * General remark:
7 * The enhancement ID that you assign to a routine number must correspond to the BAdI ID of the current implementation.
8 * In the configuration of a pricing procedure, you assign the routine number to a condition base value or to a subtotal.
9
10 * In the following, an example implementation of a condition base value routine is presented.
11 * You can use such type of routine to change the base value of a pricing element.
12 * The example implementation below checks if the minimum quantity has been ordered. If not, the condition base value is adjusted accordingly.
13 * Additionally, a custom message is raised, if the condition base value has been changed.
14 *
15
16 IF item_quantities-orderquantityunit = 'ST' AND item_quantities-orderquantity < 10.
17   prcg_element_result_amounts-conditionbasevalue = 10.
18   pricing_message = 'The condition base value has been adjusted.'.
19 ENDIF.
20
21
```

Set Alternative Calculation of Condition Base Value



Set Alternative Calculation of Condition Base Value I

Start the *Manage Your Solution* app:

- Navigate to *Configure Your Solution*
- Choose the configuration item *Pricing*

The diagram illustrates the navigation process. It starts with the 'Manage Your Solution' app icon, which leads to the 'CUSTOMER ADAPTATION Realize Phase' section. In this section, the 'Configure Your Solution' option is highlighted. This leads to a screenshot of the configuration items table, where the 'Pricing' item is selected and circled in yellow.

Application Area	Sub Application Area	Item Name	Short Description
<input type="checkbox"/>	Sales	Price Management	Configure pricing for customers and materials in sales.

Set Alternative Calculation of Condition Base Value II

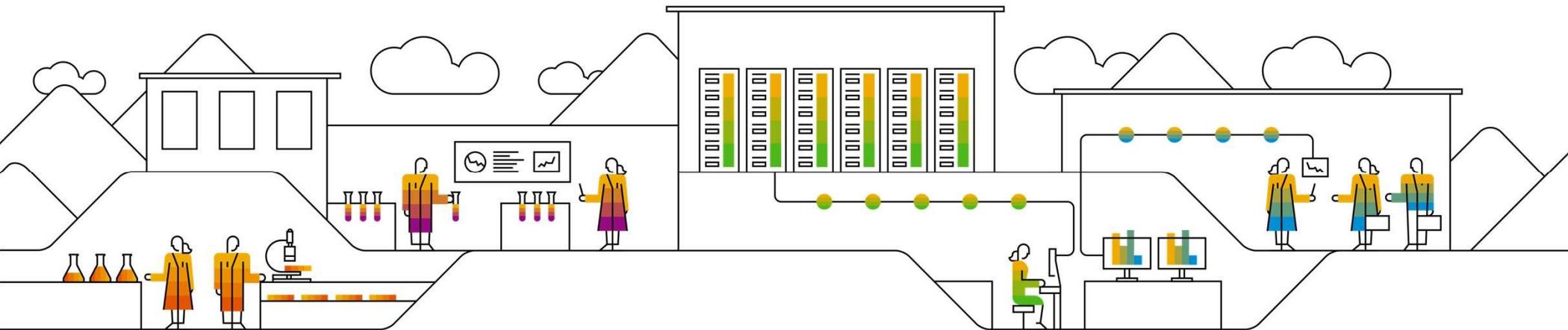
Choose configuration step *Set Alternative Calculation of Condition Base Value*:

- Create a new entry for *Registration of a Routine Number*
 - Assign a routine number from 3000000 to 3009999 and enter a routine description
- Create a new entry within *Assign Enhancement IDs to a Routine Number*
 - As a *Process Enhancement Option Task* choose *CNDN_BASE_VAL_FOR_DOC_ITEM*
 - You need to assign the filter value of the enhancement implementation as an identifier for your enhancement

The screenshot shows the SAP configuration dialog for 'Assign Enhancement IDs to a Routine Number'. The 'Process Enh. Option' is set to 'CONDITION_BASE_VALUE' and the 'Routine Number' is '3000123'. The dialog is divided into two sections: 'Process Enhancement Option Task' and 'Enhancement Identifier'. The 'Enhancement Identifier' section is circled in yellow.

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

Assign Routine to a Pricing Procedure Step



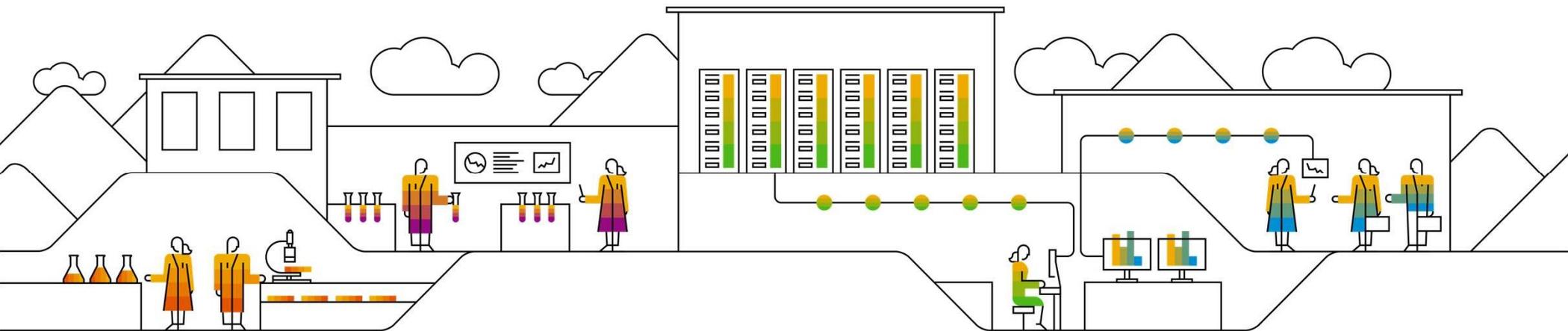
Assign Routine to a Pricing Procedure Step

In the *Manage Your Solution* app, choose *Configure Your Solution*. In the configuration item *Pricing (Sales: Price Management)*, do the following:

- Navigate to *Set Pricing Procedures*
- Copy an SAP standard pricing procedure to your custom pricing procedure
- In a step of the pricing procedure, assign the routine number to the *Alt. Cndn Base Value* field

Dialog Structure		Procedure: ZMY123 My Pricing Procedure														
Procedures		Procedures - Control Data														
Procedures - Control Data		Reference Step Overview														
Step	Cou...	Con...	Description	From...	To St...	Ma...	Re...	Stat...	Rel...	Print Ty...	Subtotal	Require...	Alt. Cal...	Alt. Cn...	Accoun...	Accruals
<input type="checkbox"/>	10	0	PCO1 Actual Costs			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		B	2			ERL	
<input type="checkbox"/>	20	0	PSP0 Service Price			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2			ERL	
<input type="checkbox"/>	25	0	DCN2 Customer/Material 2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2		2	ERS	
<input type="checkbox"/>	30	0	PCP0 Project Price			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		E	2				
<input type="checkbox"/>	70	0	DPD0 Price Difference			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2	22		ERS	
<input type="checkbox"/>	80	0	PMP0 Manual Price			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2			ERL	
<input type="checkbox"/>	100	0	Gross Amount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1		2			
<input type="checkbox"/>	310	0	ZMYD My Discount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			2		3000123		
<input type="checkbox"/>	350	0	PNG1 Item Value			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2				ERL	
<input type="checkbox"/>	700	0	Net Amount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	a			2			
<input type="checkbox"/>	840	0	YZWR Down Pay./Settlement			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B		2	48		ERL	
<input type="checkbox"/>	850	0	TTX1 Output Tax			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A		10		16	MWS	
<input type="checkbox"/>	899	0	DRD1 Rounding Off			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C		13	16	4	ERS	
<input type="checkbox"/>	900	0	Total Amount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				4			
<input type="checkbox"/>	910	0	DCD1 Cash Discount Gross			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			9		11		
<input type="checkbox"/>	961	0	PSAS Standalone (Service)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			99				

Set Pricing Procedure Determination



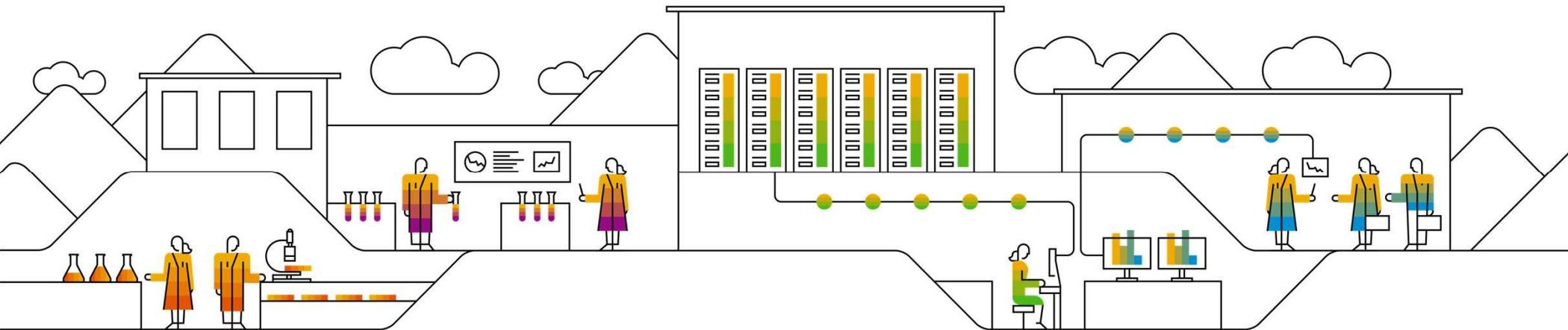
Set Pricing Procedure Determination

In the *Manage Your Solution* app, choose *Configure Your Solution*. Within configuration item *Pricing (Sales: Price Management)*:

- 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 type="checkbox"/>	1010	10	00	A	02	ZMY123	My Pricing Procedure

Tasks and Roles



Overview of Tasks and Required Roles

Task	App(s)	Business Role
Create Custom Logic	Custom Fields and Logic	SAP_BR_ADMINISTRATOR
Set Alternative Calculation of Condition Base Value	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 with the alternative calculation of the condition base value
- How to set up the custom logic for the alternative calculation of the condition base value in a document item
- How to set the alternative calculation of the condition base value
- How to assign the routine number in a pricing procedure step
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