

Define Requirements in Pricing

Sales in SAP S/4HANA Cloud 1811
November 2018

CUSTOMER

Objectives



After completing this learning module, you will be able to:

- The function provided by requirements in pricing
- How to set up the custom logic for the requirements in pricing
- How to set the routine number for the requirements in pricing
- How to assign the routine number to an access in an access sequence
- How to assign the access sequence to a condition type
- How to assign the routine number to a step in a pricing procedure
- How to set up the pricing procedure determination

The Function



The Function I



Allows you to specify whether a condition type or an access is considered during price calculation or not.

- Supports you if the requirements delivered by SAP do not match your business needs.
- You can set up custom logic for the requirements.
- You can reuse your custom logic for different condition types in pricing procedures or accesses in access sequences.
- By using the requirement for document (pre-step), you can improve the runtime performance of the pricing logic.

The Function II



Every requirement can consist of up to two types:

1. Requirement for Document (Pre-Step)

The pre-step is executed using attributes from the business document header only. It is used to decide whether the condition type or the access is taken into account at all. Only if the pre-step succeeds, a condition type or access is applicable for any of the business document items.

The implementation of this pre-step is not mandatory. The main aim of the pre-step is to improve the runtime performance of the pricing logic. Or you can use the requirement for document as a stand-alone check that checks only the header attributes.

If the pre-step fails, the condition type or access is not considered for any document item not in further calculations.

If you create a subsequent document, the pre-step is in general again checked for the target business document. Exception: For the creation of a billing document the pre-step is suppressed.

The Function III



2. Requirement for Document Item

The requirement is checked for each item individually. It represents the final decision on whether condition type or access are to be considered or not. Header and item fields are available and can be used for the requirement.

If the requirement on the item is not fulfilled, the condition cannot be added manually to this item.

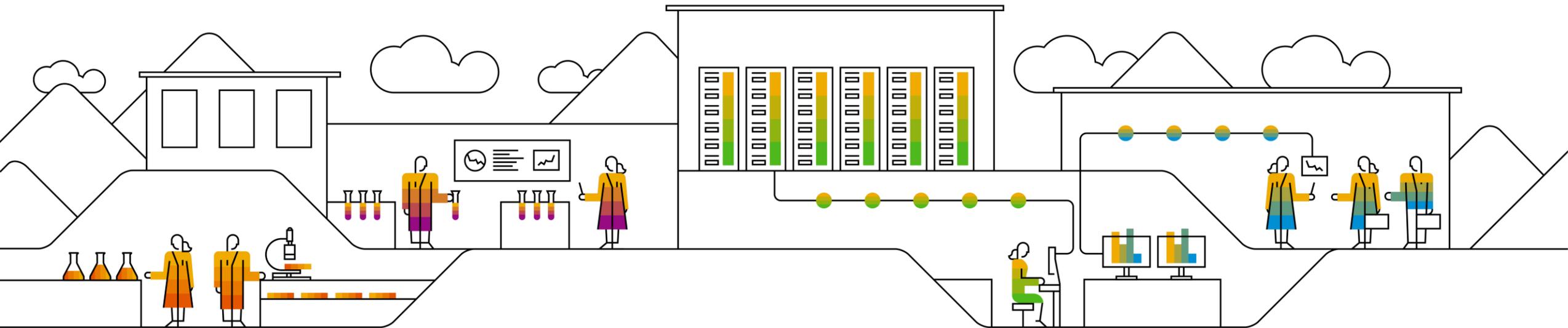
Note: The requirement on the document item is not checked for conditions that are copied from one business document to another one.

The Function IV



Note: It is not mandatory to implement both types. It is also possible to implement the pre-step only, or the requirement for item only. In these cases, the requirement for item or the pre-step for the not-implemented requirement is interpreted as true.

Tasks and Roles



Overview of Tasks and Required Roles

Task	Tile(s)	Business Role
Create Custom Logic	Custom Fields and Logic	SAP_BR_ADMINISTRATOR
Define Requirements in Pricing	Manage Your Solution / Subsection Configure Your Solution	SAP_BR_BPC_EXPERT
Change Access Sequence	Pricing Configuration for Sales - SAP Fiori launchpad group	SAP_BR_BPC_EXPERT
Set Condition Types for Pricing	Manage Your Solution / Subsection Configure Your Solution	SAP_BR_BPC_EXPERT
Set Pricing Procedures	Manage Your Solution / Subsection Configure Your Solution	SAP_BR_BPC_EXPERT
Set Pricing Procedure Determination	Manage Your Solution / Subsection Configure Your Solution	SAP_BR_BPC_EXPERT

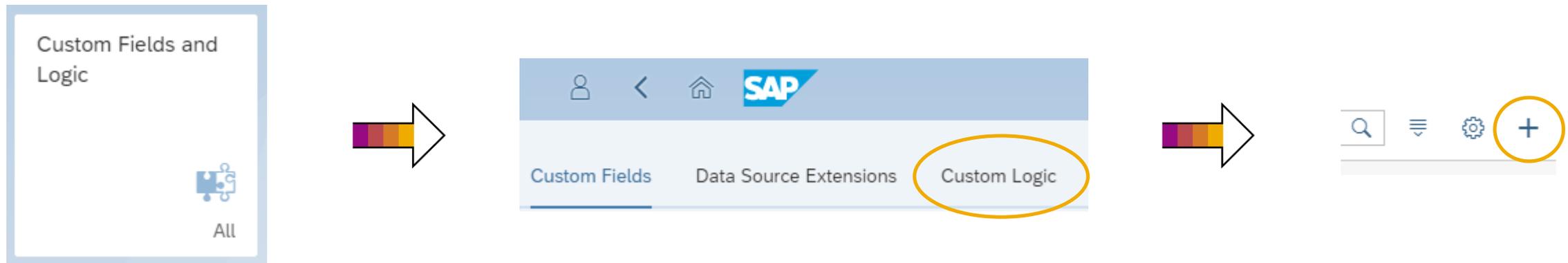
Set up Custom Logic



Set up Custom Logic I

To start using extensibility, open 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 Requirement in Pricing for Document (for the pre-step)
 - Define Requirement in Pricing for Document Item
- Implementation Description
 - <Provide an implementation description>
- Implementation ID
 - Contains a default value that can be overwritten

New Enhancement Implementation

Business Context:
Pricing

*BAdI Description:
Define Requirement in Pricing for Document Item

*Implementation Description:
My Pricing Requirement

*Implementation ID:
ZZ1_ MY_PRICING_REQUIREMENT

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 for a requirement named 'My Pricing Requirement'. The interface includes a header with the SAP logo and navigation icons, a breadcrumb trail 'Custom Fields and Logic', and a search icon. The main content area is divided into several sections:

- Header:** 'My Pricing Requirement' with a sub-header 'Last Changed By ADMINISTRATOR John, 21.08.2018 12:16:40'. On the right, there are status indicators: 'Not Published' and 'Draft Available'.
- Navigation:** A tabbed interface with 'Available Fields', 'Filter', and 'BAdI Documentation'. The 'Filter' tab is active.
- Draft Filter:** A section with a filter value 'requirement = MyFirstRequirement' and buttons for 'Draft', 'Published', and '+'. A yellow callout box points to this section with the text: 'The BAdI documentation and the draft logic provide further information'.
- Draft Logic:** A section with buttons for 'Draft', 'Published', and 'Example'. Below this is a code editor showing the following logic implementation:

```
1 This example implementation checks that the corresponding item is relevant for Pricing
2
3 IF item_attributes-PricingRelevanceCode ca 'BX'.
4   pricingrequirementisfulfilled = 'X'.
5 ELSEIF item_attributes-PricingRelevanceCode na 'XAB'.
6   Remark: Possible exception handling
7   TRY
8     RAISE EXCEPTION TYPE cx_pricing_formula EXPORTING error_message = 'Invalid PricingRelevanceCode' ##NO_TEXT .
9   CATCH cx_pricing_formula INTO DATA(lx_pricing_formula).
10    RAISE EXCEPTION TYPE cx_ble_runtime_error
11    EXPORTING
12      previous = lx_pricing_formula.
13  ENDTRY.
14 ENDIF.
```
- Test Results:** A section titled 'Test Results: Draft Logic' is partially visible at the bottom.

A yellow callout box at the bottom right of the screenshot contains the text: 'To identify the implementation, you must assign a unique filter value'.

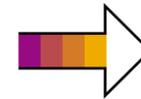
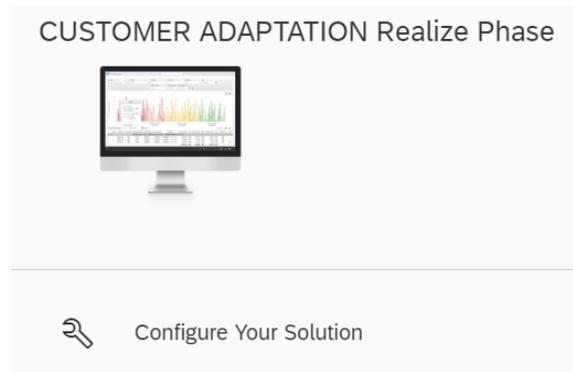
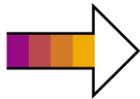
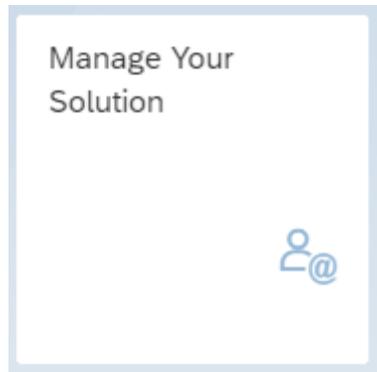
Define Requirement in Pricing



Define Requirement in Pricing I

Start the *Manage Your Solution* app:

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



Configuration Items (5)				
<input type="checkbox"/>	Application Area	Sub Application Area	Item Name	Short Description
<input type="checkbox"/>	Sales	Incentive and Commissions Management	Sales Commission Settlement	Set up the sales commission settlement process.
<input type="checkbox"/>	Sales	Sales Master Data Management	Pricing	Configure pricing for customers and materials in sales.

Define Requirement in Pricing II

Choose configuration step *Define Requirement in Pricing*:

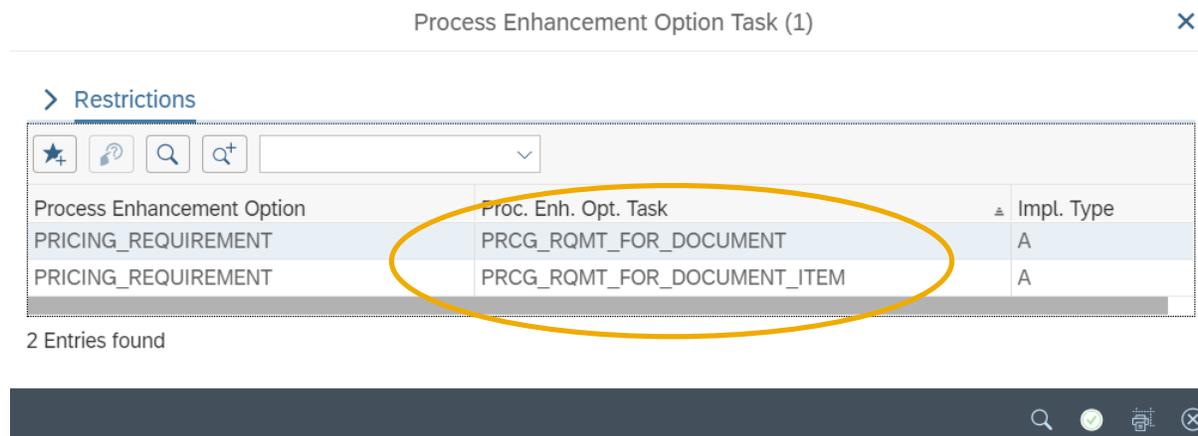
- Create a new entry for *Registration of a Routine Number*
- In the *Process Enhancement Option* field, select *PRICING_REQUIREMENT*
- Assign a routine number from 3000000 to 3009999
- Create a new entry within *Assign Enhancement IDs to a Routine Number*
 - You need to assign the filter value of the enhancement implementation as an identifier for your enhancement
 - Based on the process enhancement option task, you can determine whether the requirement for document or for document item is to be assigned to the corresponding routine number. It is also possible to assign both of them.

Process Enhancement Option Task (1) ✕

> Restrictions

Process Enhancement Option	Proc. Enh. Opt. Task	Impl. Type
PRICING_REQUIREMENT	PRCG_RQMT_FOR_DOCUMENT	A
PRICING_REQUIREMENT	PRCG_RQMT_FOR_DOCUMENT_ITEM	A

2 Entries found



Define Requirement in Pricing III

Step 1: Registration of a routine number

The screenshot shows the SAP configuration interface for 'Registration of a Routine Number'. The 'Dialog Structure' on the left includes 'Registration of a Routine Number' and 'Assign Enhancement IDs to a Routine Number'. The main table lists the following entries:

Process Enhancement Option Description	Routine Number	Routine Description
<input type="checkbox"/> Process Enhancement Option Description	3000000	My first pricing requirement
<input type="checkbox"/> Requirement used in Pricing		

Step 2: Assign enhancement ID(s) to a routine number

The screenshot shows the SAP configuration interface for 'Assign Enhancement IDs to a Routine Number'. The 'Dialog Structure' on the left includes 'Assign Enhancement IDs to a Routine Number'. The main form shows 'Process Enh. Option: PRICING_REQUIREMENT' and 'Routine Number: 3000000'. Below is a table for assigning enhancement IDs:

Process Enhancement Option Task	Description	Implementation Type	Enhancement Identifier
<input type="checkbox"/> PRCG_RQMT_FOR_DOCUMENT		Business Add-In (BAI)	MyFirstPrestep
<input type="checkbox"/> PRCG_RQMT_FOR_DOCUMENT_ITEM		Business Add-In (BAI)	MyFirstRequirement

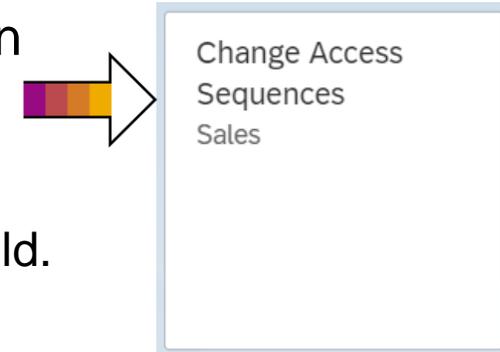
Assign a Requirement to an Access in **an** **Access Sequence**



Assign Requirement to an Access in an Access Sequence

In the SAP Fiori launchpad group *Pricing Configuration for Sales*, open tile *Change Access Sequences Sales*:

- Copy an SAP-delivered access sequence to your custom access sequence.
- Navigate to *Accesses* and assign the routine number to the *Requirement* field.



Change View "Accesses": Overview

Undo Change Select All Deselect All More ▾

Dialog Structure

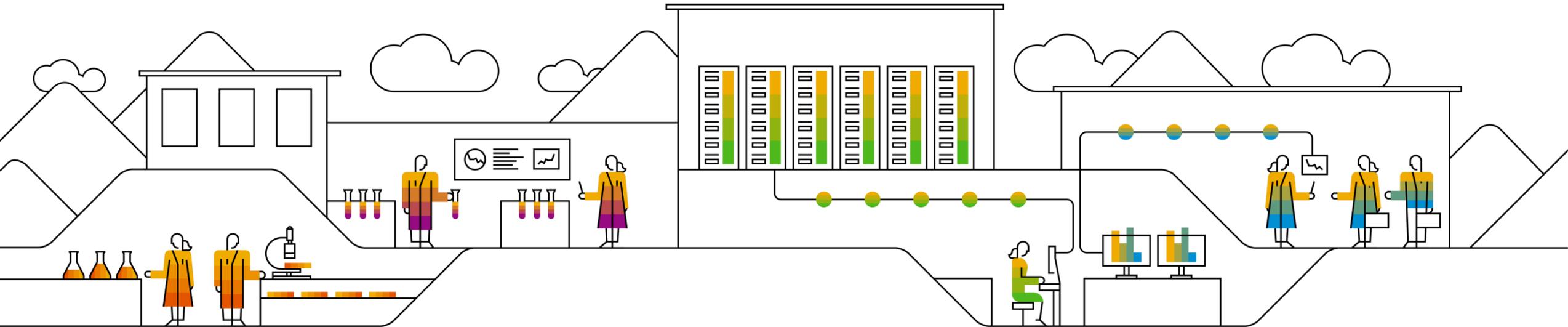
- Access sequences
- Accesses**
- Fields

Access sequence: Customer Access Sequence

Overview Accesses

<input type="checkbox"/>	No.	Ta...	Description	Requirement	Exclusive
<input type="checkbox"/>	10	307	Customer with Release Status	3000000	<input type="checkbox"/>

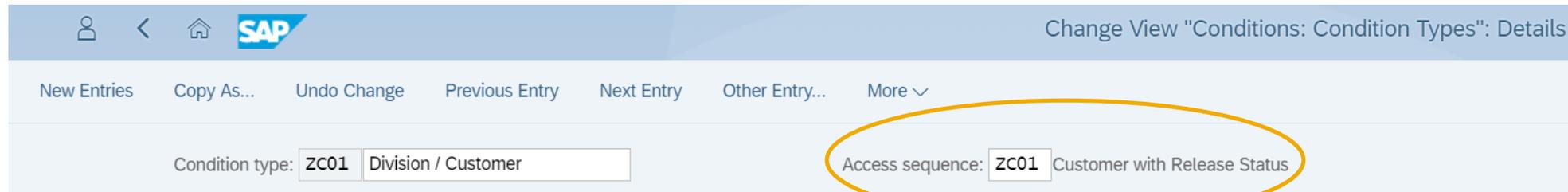
Assign the Previously Created Access Sequence to a Condition Type



Assign Access Sequence to a Condition Type

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

- Navigate to *Set Condition Types for Pricing*
- Choose an existing condition type or copy an SAP-delivered condition type to your custom condition type
- Go to the condition details and enter your previously created access sequence in the corresponding field



The screenshot shows the SAP Manage Your Solution app interface. At the top, there is a navigation bar with a user icon, a back arrow, a home icon, the SAP logo, and the text "Change View 'Conditions: Condition Types': Details". Below the navigation bar is a menu bar with options: "New Entries", "Copy As...", "Undo Change", "Previous Entry", "Next Entry", "Other Entry...", and "More". The main content area displays the configuration for a condition type. On the left, it shows "Condition type: ZC01" followed by a dropdown menu labeled "Division / Customer". On the right, it shows "Access sequence: ZC01" followed by a dropdown menu labeled "Customer with Release Status". The "Access sequence" field and its dropdown menu are circled in yellow.

Caution:

Please consider the consequences before changing the access sequence in a SAP-delivered condition type. For more information, see the longtext of the warning message that is displayed.

Assign Requirement to a Step in a Pricing Procedure



Assign Requirement to a Step in a Pricing Procedure

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 an SAP-delivered pricing procedure to your custom pricing procedure
- In a step of a pricing procedure, assign the routine number to the *Requirement* field

Change View "Procedures - Control Data": Overview

New Entries Copy As... Delete Undo Change Select All Deselect All Configuration Help More ▾

Dialog Structure

- Procedures
 - Procedures - Control Data

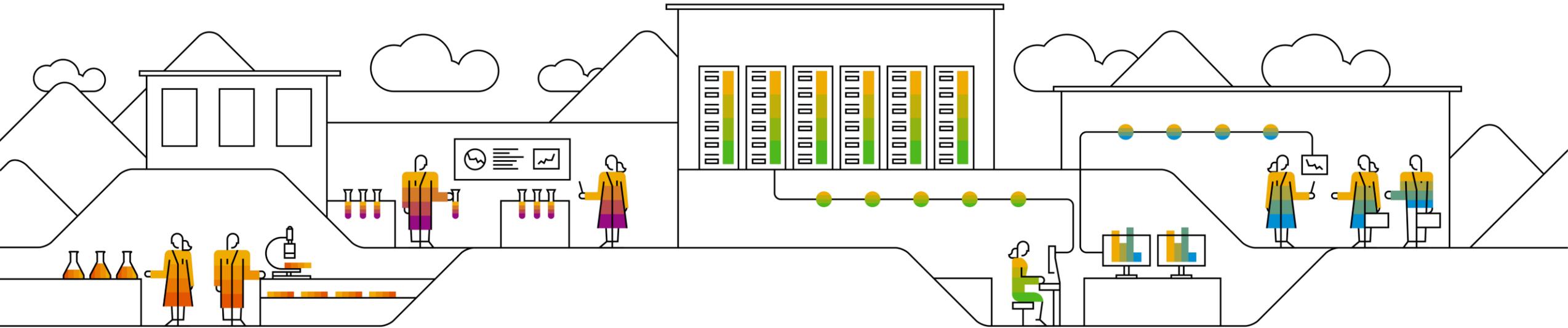
Procedure: ZPRC01 My new Procedure

Procedures - Control Data

Reference Step Overview

<input type="checkbox"/>	Step	Cou...	Con...	Description	From...	To St...	Ma...	Re...	Stat...	Rel...	Print Ty...	Subtotal	Require...	Alt.Calc...	Alt.Con...	Accoun...	Accruals
<input type="checkbox"/>	10	0	PC01	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	DCM2	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"/>			3000000			ERL	
<input type="checkbox"/>	100	0		Gross Amount			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1		2			

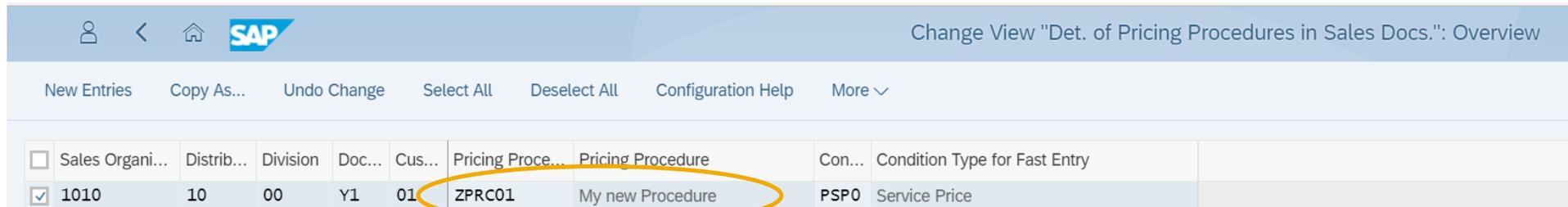
Set Pricing Procedure Determination



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 or change an existing one accordingly



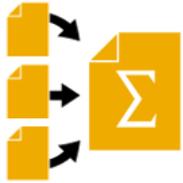
Change View "Det. of Pricing Procedures in Sales Docs.": Overview

New Entries Copy As... Undo Change Select All Deselect All Configuration Help More ▾

<input type="checkbox"/>	Sales Organi...	Distrib...	Division	Doc...	Cus...	Pricing Proce...	Pricing Procedure	Con...	Condition Type for Fast Entry
<input checked="" type="checkbox"/>	1010	10	00	Y1	01	ZPRC01	My new Procedure	PSP0	Service Price

→ Pay attention to warnings that may occur if you change an existing entry.

Summary



You should now be able to

- The function provided by requirements in pricing
- How to set up the custom logic for the requirements in pricing
- How to set the routine number for the requirements in pricing
- How to assign the routine number to an access in an access sequence
- How to assign the access sequence to a condition type
- How to assign the routine number to a step in a pricing procedure
- How to set up the pricing procedure determination

© 2018 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

See <http://global.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.