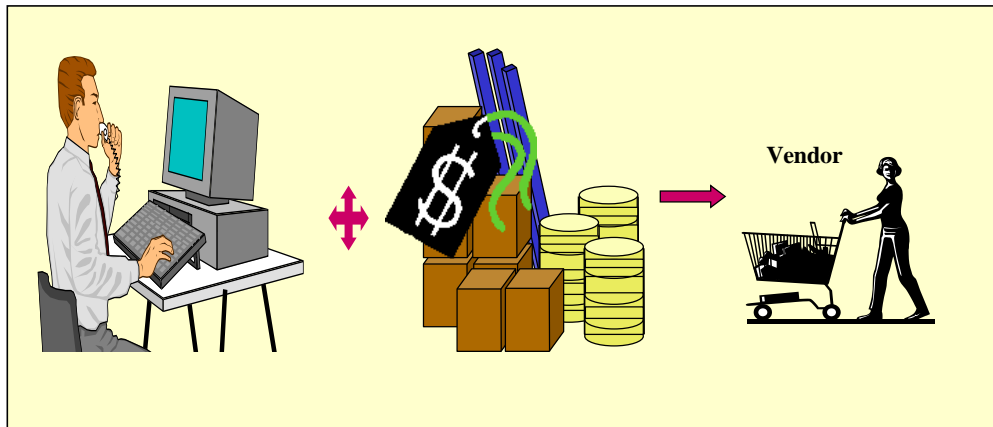


MM1007 - MM Calculation Schema – Ver 1.0



MM1007 - MM Calculation Schema – Ver 1.0



Presentation Title | Author | Date

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2

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.



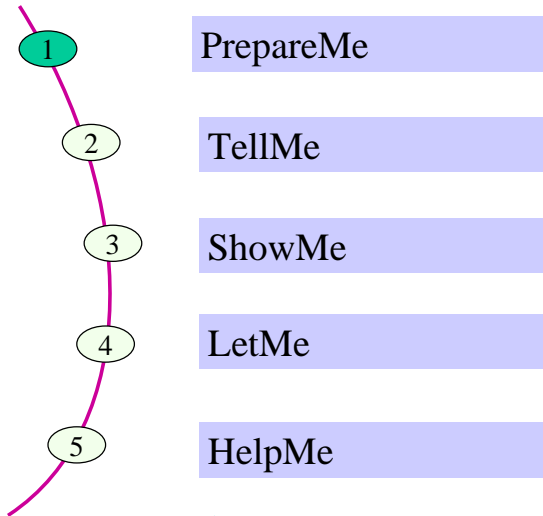
Definition

A calculation schema is a framework of steps used to calculate or determine something – it is used among other things to calculate costs, prices, period-end rebates, and taxes.

Calculation schema groups together all the condition types that are relevant to calculate price. It sets out the order in which the condition types are taken into account in the calculation.

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Calculation Schema



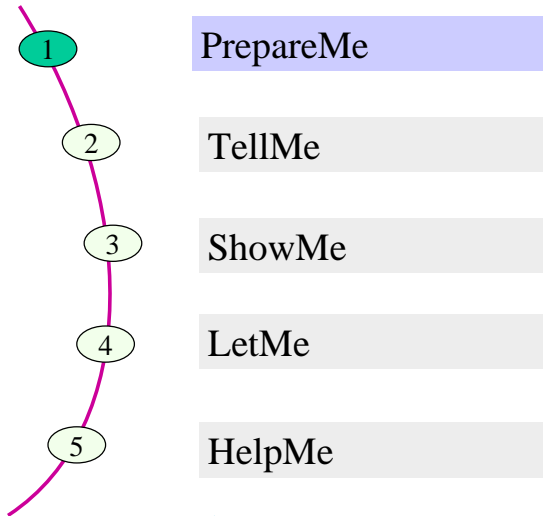
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4

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Calculation Schema



Presentation Title | Author | Date

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5

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Need



The condition types that play a role in the price determination are grouped together in a calculation schema. The calculation schema provides a framework for price determination. It determines the sequence in which the condition types are taken into account. The calculation schema determines the following:

- . The subtotals
- . The extent to which manual processing of the price determination is possible
- . The basis on which (reference level) the system calculates surcharges and discounts in percentages
- . The prerequisites that have to be filled so that a particular condition type is taken into consideration

You can define different calculation schemes, for example, for the individual purchasing organizations and vendors.

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Purpose



The business is facing with many alternatives to base the price of a product depending upon the specific conditions prevailing at the time of the Purchase.

The purpose is to arrive the total purchase value depending upon the specific conditions at the time of Purchase.

The effective price is the price the company purchase its requirements after considering discounts, rebates, frieght and other surcharges.

The business needs to take into account many factors based on its products, Vendors, volume of purchase, validity, competition, etc while deciding the pricing elements which altogether makes the task most crucial and complex.

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Use



Calculation Schema helps in

- Determining pricing in the Purchasing Documents
- Auto determining various Discounts and Tax value
- Avoiding User Intervention in entering manual pricing
- Fixing prices dynamically for any changes in the quantities and time

- Fixar a posicao do titulo – sempre do lado esquerdo.
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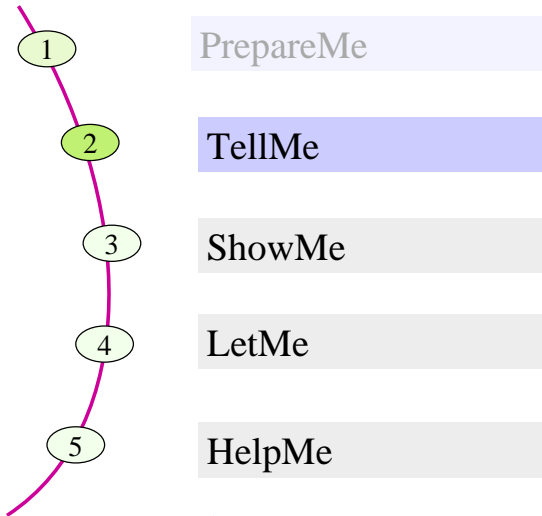
Challenges



- On what sequence the condition types are placed?
- How to calculate discount/freight?
- Which condition type is manual / Mandatory / Statistical?
- Determination of corresponding accounts
- Is price calculation is required any ABAP Coding?
- Which condition type value is to be stored as subtotal for further calculation?
- Which condition type can be print?

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Calculation Schema



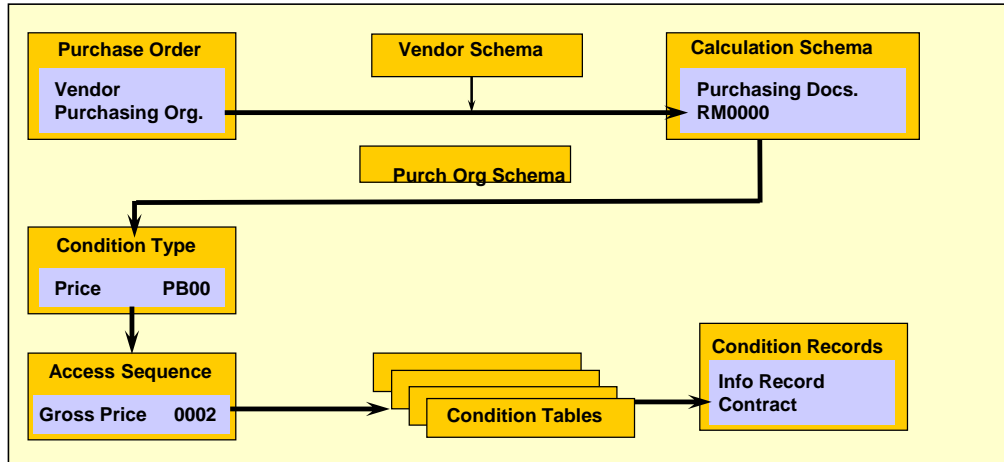
Presentation Title | Author | Date

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10

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Condition Techniques - Procedure



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Price Determination

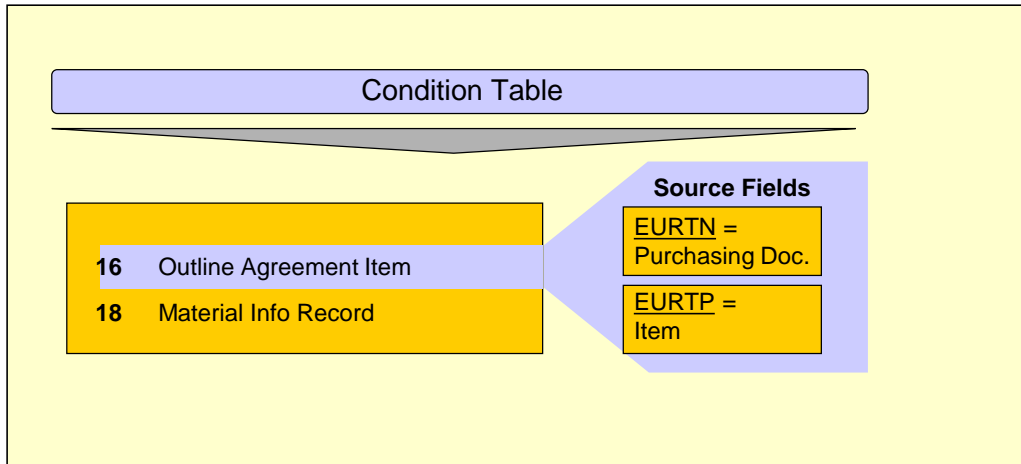


The most important elements in price determination are as follows:

- Condition Table
- Access Sequence
- Condition Type
- Calculation Schema
- Info Records

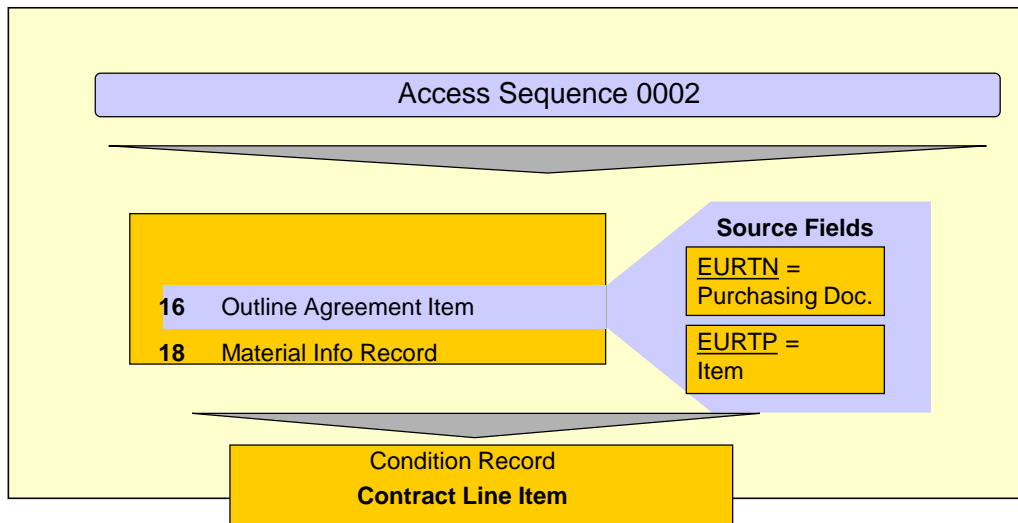
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Condition Table



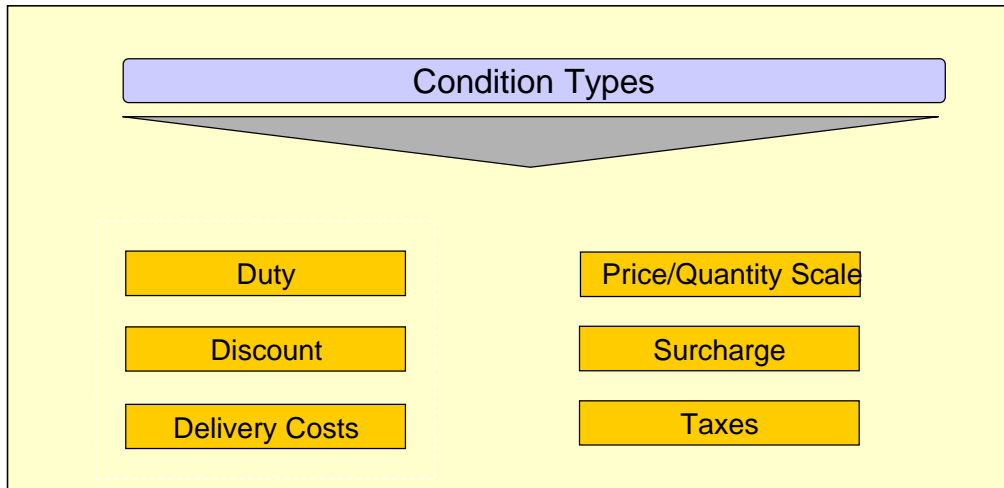
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Access Sequence



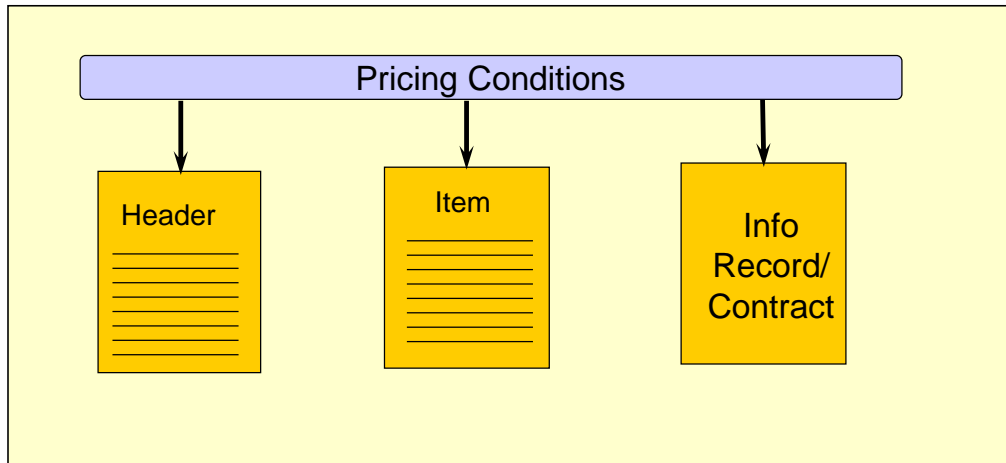
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
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Condition Type



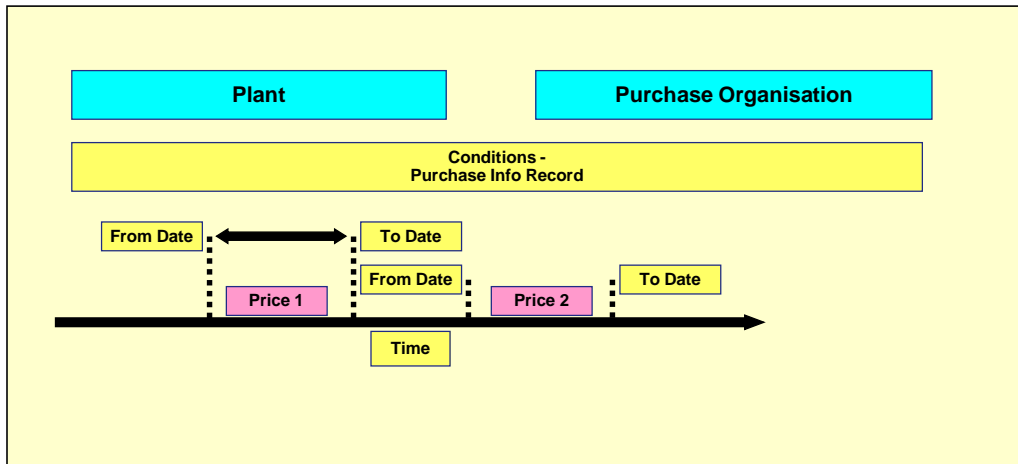
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
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Pricing Conditions



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Time-Dependent Conditions



- Fixar a posicao do titulo – sempre do lado esquerdo.
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Time-Independent Conditions

In time-independent conditions there is no validity periods and scales. Conditions in the purchase orders are always time independent conditions. It is always maintained directly within the relevant document.

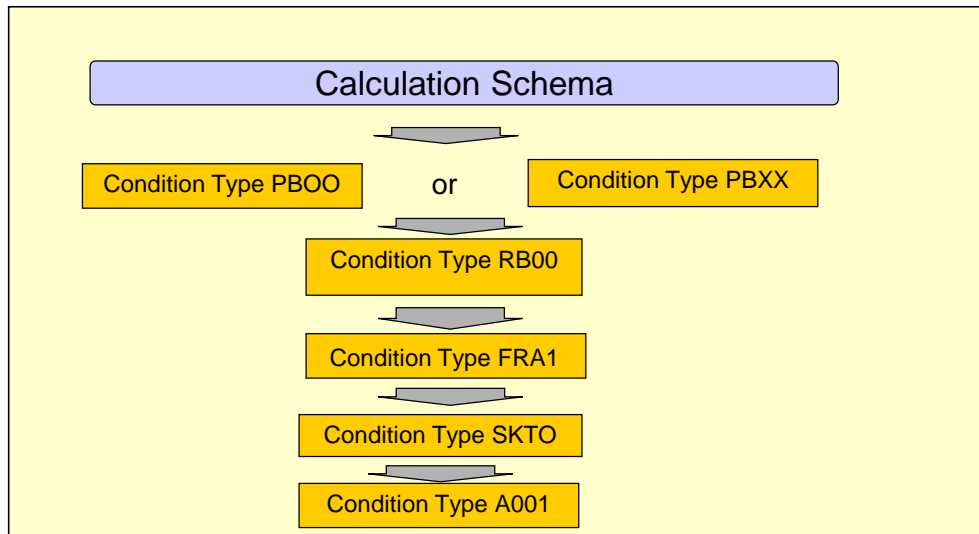
Subtotals (net price, effective price) are created in case of time-independent conditions.

The following table shows which conditions can be maintained for which documents:

Conditions →	Time-Dependent	Time-Independent
Info records	Yes	No
Quotations	Depends on Doc type	Depends on Doc type
Scheduling Agreement	Depends on Doc type	Depends on Doc type
Contract	Yes	No
Purchase Order	No	Yes

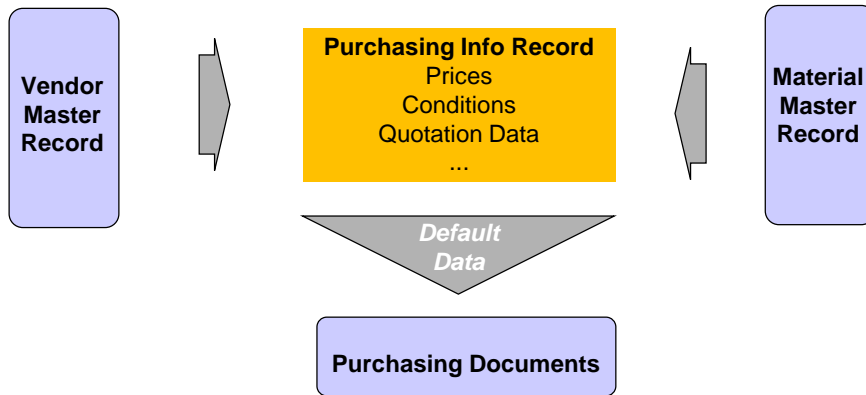
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Calculation Schema



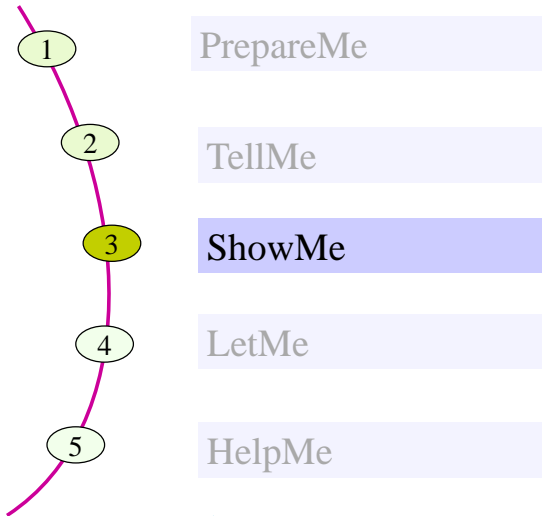
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
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Purchasing Info Record



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Calculation Schema



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21

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Calculation Schema



Agenda

Configuration

Master Data

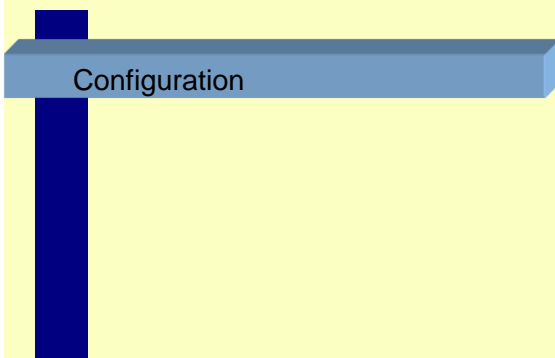
Example

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Calculation Schema

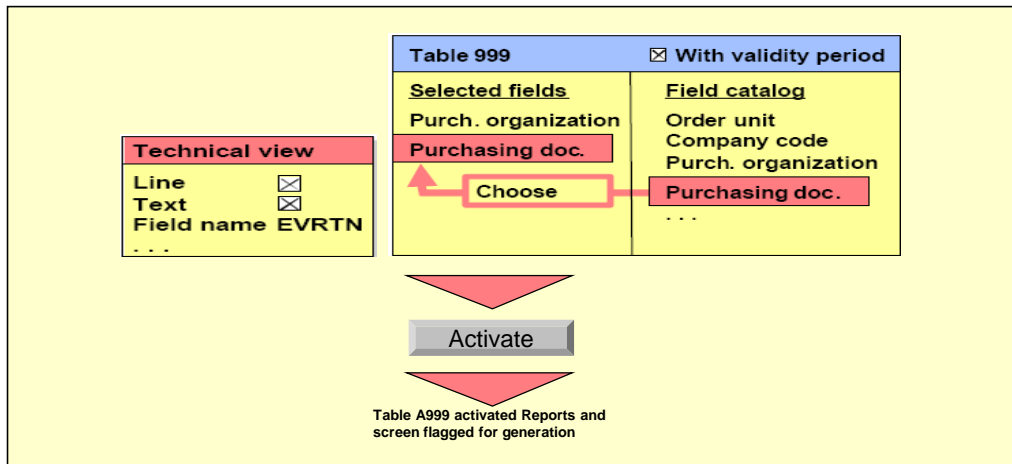


Agenda



- Fixar a posicao do titulo – sempre do lado esquerdo.
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Condition Table



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Condition Table



SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Maintain Condition Table → Create condition table

Tcode: M/03

Create Condition Table (Pricing Purchasing): Field C

Generate (Shift+F4)

Table: Purch.Org./Purch.Doc.

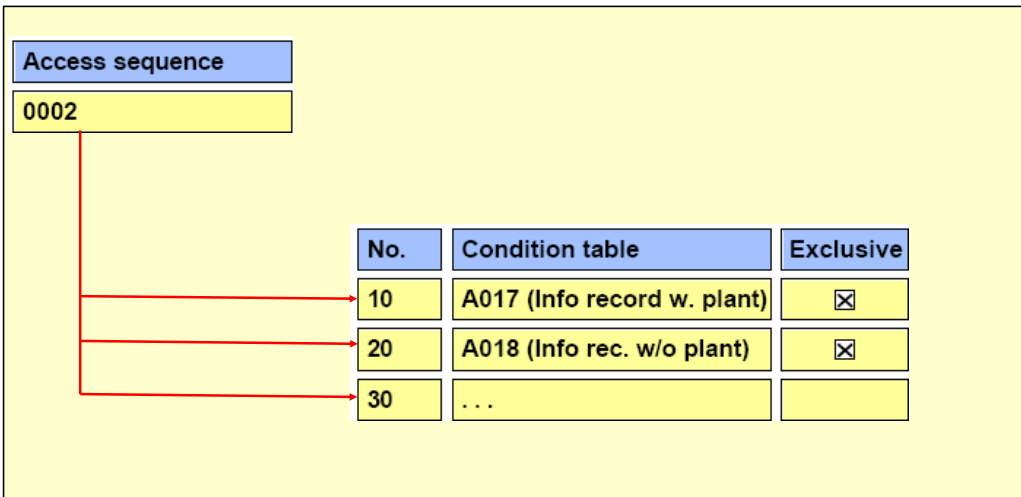
☒ With validity period

☒ with release status

Selected fields	FieldCatlg
Long Key Word	Long Key Word
Purch. Organization	Incoterms
Purchasing Document	Incoterms (part 2)
	Info record category
	Invoicing party

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Access Sequence



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Access Sequence



SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Define Access Sequences

Tcode: M/07

New Entries: Overview of Added Entries

Access sequence A002 Gross Price Cal Access Sequenc

Seq.	Tab	Description	Requiremnt	Exclusive
10	17	Material Info Record (Plant-Specific)		<input checked="" type="checkbox"/>
20	18	Material Info Record		<input checked="" type="checkbox"/>
30	999	Purch.Org./Purch.Doc.		<input type="checkbox"/>

the sequence in which the system searches the condition tables for the required data.

Activation of exclusive indicator limits the access to the first match.

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- Fixar a posicao do titulo – sempre do lado esquerdo.
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Condition Type

SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Define Condition Types → Define Condition Type

Tcode: M/06

Change View "Conditions: Condition Types": Details

New Entries

Condit. type: PB00 Gross Price Access seq.: 0002 Gross Price

Records for access

Control data 1

Cond. class	B	Prices	Plus/minus	<input type="checkbox"/> positive a
Calculat.type	C	Quantity		
Cond.category	H	Basic price		
Rounding rule		Commercial		
StrucCond.				

Group condition

☐ Group cond. ☐ RoundDiffComp

GrpCond.routine

Access sequence is assigned here

Determines how the system rounds off condition values

Determines if the scale value is derived from several line items in the order

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Condition Type



<u>Key</u>	<u>Description</u>	<u>Control</u>
PB00	Gross price	Condition class: Prices Calculation type: Quantity-dependent Condition cat.: Base price Access sequence: Gross price
FRB1	Freight, absolute	Condition class: Discount/surcharge Calculation type: Fixed amount Condition cat.: Delivery costs
SKTO	Cash discount	Condition class: Discount/surcharge Calculation type: Percentage Condition cat.: Cash discount

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Condition Type



The screenshot shows the SAP 'Condition Type' configuration screen. It is divided into two main sections: 'Manual entries' and 'Master data'.

Manual entries section:

- Header: 'Changes which' (partially visible) and 'No limitations'.
- Left column:
 - ☐ Header condit.
 - ☒ Item condition
 - ☐ Delete
- Right column:
 - ☒ Amount/percent
 - ☐ Value
 - ☒ Qty relation
 - ☐ Calculat.type

Master data section:

- valid from: Today's date
- Valid to: 31.12.9999
- RefConType: (empty field)
- RefApplicatio: (empty field)
- PricingProc: RM0002
- delete fr. DB: Do not delete (set the deletio...)
- ☐ Condition index

Annotations (Callouts):

- Top left: 'Determines if the condition type is relevant for header or item pricing' (points to 'Header condit.').
- Top right: 'Controls the changes permitted for the Condition Type value' (points to 'Qty relation').
- Bottom right: 'Specifies the validity period of the condition Type' (points to 'Valid to').

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Condition Type

The screenshot shows the SAP Condition Type configuration screen. It is divided into several sections: Scales, Control data 2, Sales pricing, and Text determination. Two callouts provide additional context:

- Scales section:** A callout points to the **Scale basis** field, which is set to **C Gross**. The text says: "Determines if the scales are to be treated as value or quantity based".
- Control data 2 section:** A callout points to the **Int-comb. Cond.** checkbox. The text says: "Allows to post the condition value to Financial Accounting as accruals".

The form fields and their values are as follows:

Section	Field	Value
Scales	Scale basis	C Gross
	Check value	None
	Scale type	can be maintained in con
Control data 2	Currency conv.	<input type="checkbox"/>
	Accruals	<input type="checkbox"/>
	Inv. test cond.	<input type="checkbox"/>
	Int-comb. Cond.	<input type="checkbox"/>
	Promotion cond.	<input type="checkbox"/>
Sales pricing	Rel. to pricing	<input checked="" type="checkbox"/>
	Pricing on/off	<input type="checkbox"/>
	Text determination	
Text determination	TextDetPrc	
	Text ID	

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Calculation Schema



Step	Counter	Cond. ty.	Description	Fr.	Manu.	Stat	...
1	1	PB00	Gross price				
10	1	RB00	Absolute discount		X		
...					
10	9	ZA01	% Surcharge on gross	1	X		
...					
20	0		Net value incl. discount				
...					
31	1	FRA1	Freight %	20	X	X	
...					
35	1	SKTO	Cash discount	20		X	
40	0		Effective price				

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Calculation Schema



SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Define Calculation Schema

Tcode: M/08

Sub-total: Indicates fields in which the cumulative value of conds. are stored

Procedure: RM0000 Purchasing Document (Big)

Control data

Step	Cntr	CType	Description	Fro	To	Man	Mdt	Sta	P Sub...	Reqt	AltCTy	AltCBV	Actky	Accrls
1	1	PB00	Gross Price						X	0				
1	2	PBXX	Gross Price						X	0				
2	0	VA00	Variants/Quantity						X					
3	0	VA01	Variants %						X					
4	0	GAU1	Originl Price d						X					
5	0	GAU2	Actual Price d						X					
10	1	RB00	Discount (Value)						X					
10	2	RC00	Discount/Quantity						X					
10	3	RA00	Discount % on Net						X					
10	4	RA01	Discount % on Gross	1					X					
10	5	HB00	Header Surch. (Value)						X					
10	6	ZB00	Surcharge (Value)						X					
10	7	ZC00	Surcharge/Quantity						X					
10	8	ZA00	Surcharge % on Net						X					
10	9	ZA01	Surcharge % on Gross	1					X					

Requirement: Excludes a condition type from being accessed

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Schema Groups



Schema groups are required to determine the calculation schema.

Schema groups are defined

- for Vendor
- for Purchase organization

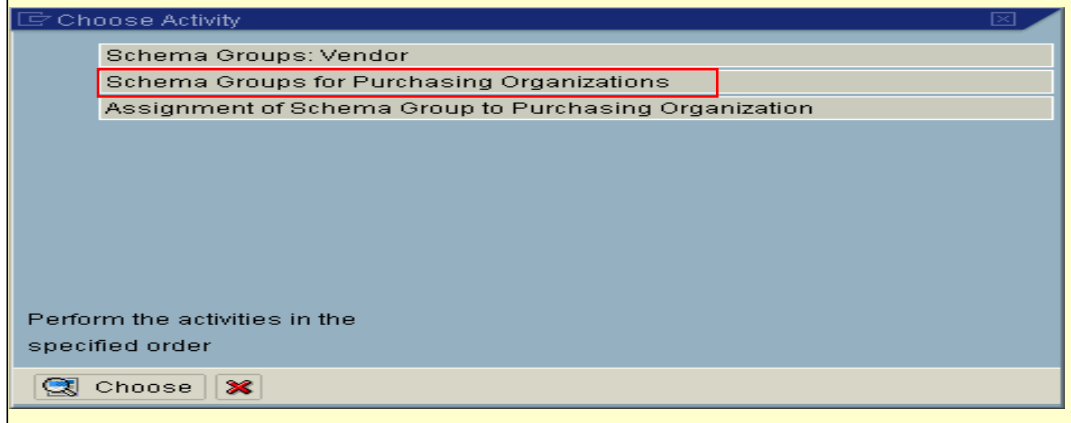
And assigned these schema groups to Vendor and Purchase Organization respectively.

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Schema Groups - Vendor



SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Define Schema Groups



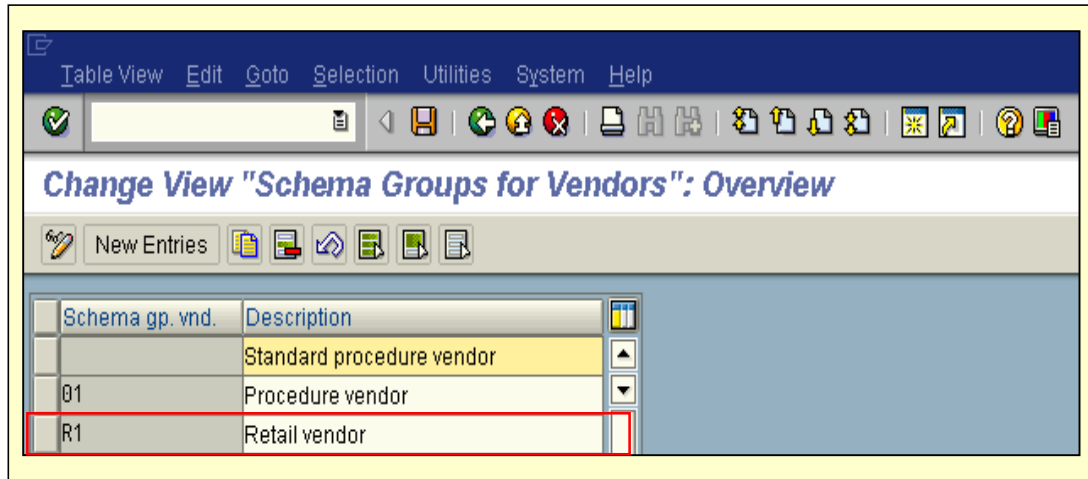
Presentation Title | Author | Date

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- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Schema Groups - Vendor



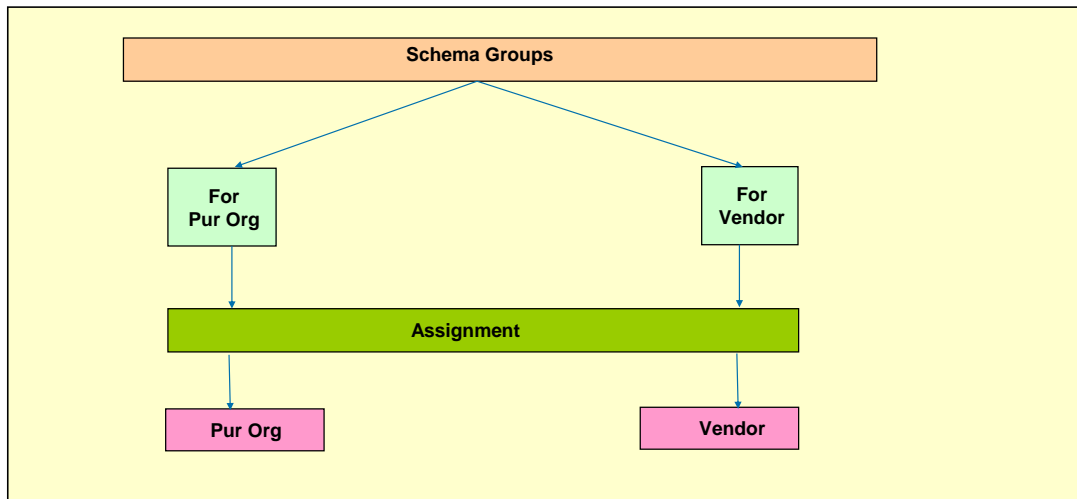
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- Fixar a posicao do titulo – sempre do lado esquerdo.
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Schema Groups – Assignment



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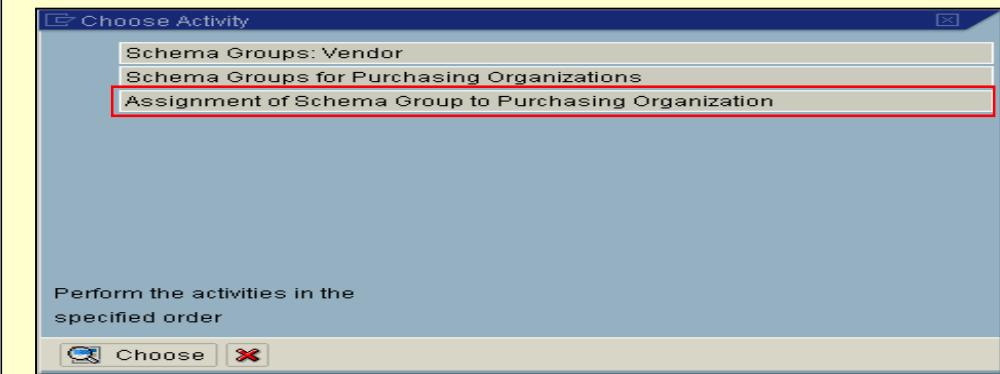
37

- Fixar a posicao do titulo – sempre do lado esquerdo.
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- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Assignment – Pur Org



SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Define Schema Groups




- Fixar a posicao do titulo – sempre do lado esquerdo.
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- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Assignment – Pur Org



Change View "Assignment of Schema Gro

POrg	Purch. org. descr.	Schema group, p.org.
4510	Eastern Purch Org	
4520	Central Purch Org	
4530	Western Purch Org	
5000	IDES Japan	
6000	IDES Mexico	
7000	IDES Brasil	
7500	Org Cpras Argentina	
C100	Zentraleinkauf	
CPF1	Purch. Org. US	
R100	Retail Deutschland	R001
R300	Retail USA	R001
S300	Service Provider	
SIND	Sony Pur Org	

 System will take default Calculation Schema, If Schema Group – Purchase Organization is blank.

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Assignment – Vendor



SAP Menu → Logistics → Materials Management → Purchasing → Master Data → Vendor → Central → Change

Tcode: XK02

Change Vendor: Initial Screen

Vendor 1000
Company Code 1000
Purch. Organization 1000

General data

☐ Address
☐ Control
☐ Payment transactions

Company code data

☐ Accounting info
☐ Payment transactions
☐ Correspondence
☐ Withholding tax

Purchasing organization data

☒ Purchasing data
☐ Partner functions

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Assignment – Vendor



Change Vendor: Purchasing data

Alternative data Sub-ranges

Vendor	1000	C.E.B. BERLIN	Berlin
Purchasing Org.	1000	IDES Deutschland	

Conditions

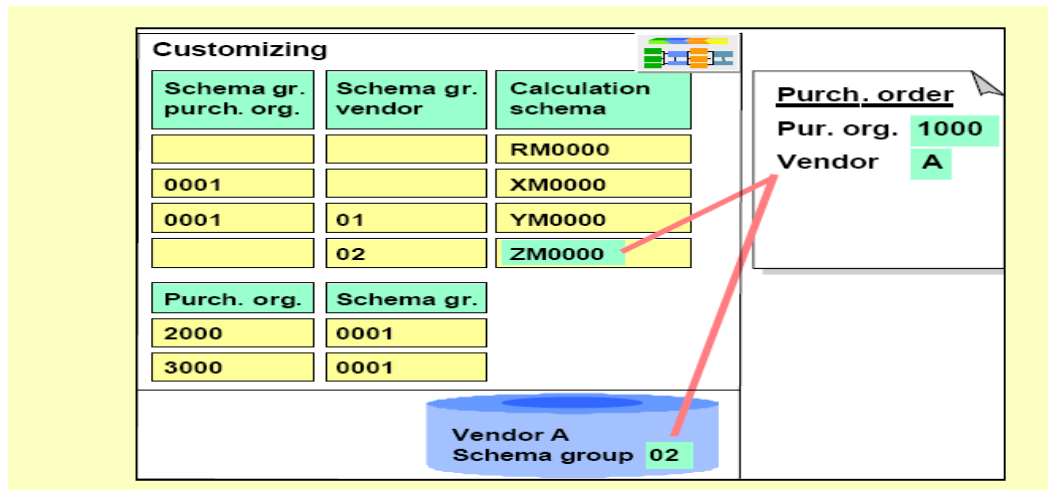
Order currency	EUR	Euro (EMU currency as of 01/01/1999)
Terms of paymnt	ZB01	
Incoterms	EXW	
Minimum order value		
Schema group, vendor	01	Standard procedure vendor
Pricing date cat.		No control
Order optim.rest.		



System will take default Calculation Schema, If Schema Group – Vendor is blank.

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Schema Determination

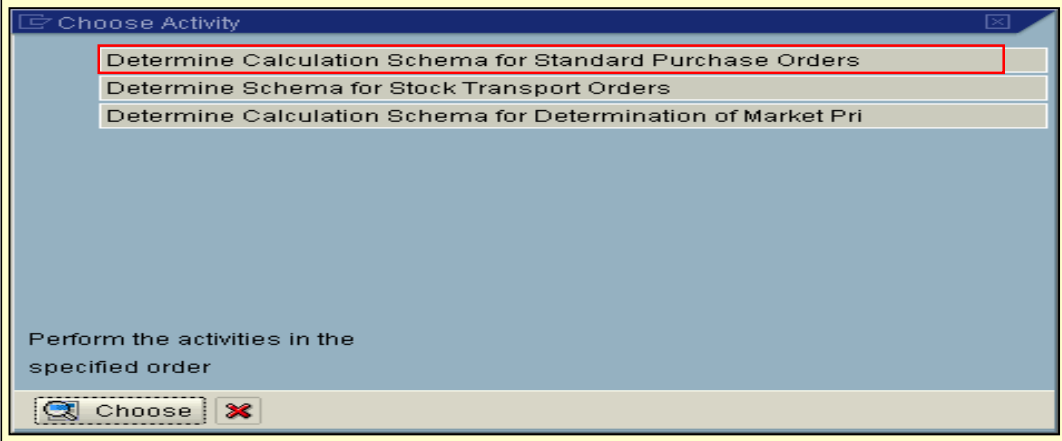


- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Schema Determination



SPRO → Materials Management → Purchasing → Conditions → Define Price Determination Process → Define Schema Determination



Presentation Title | Author | Date

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- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Schema Determination



Change View "Determination of Calculation Schema in P

New Entries

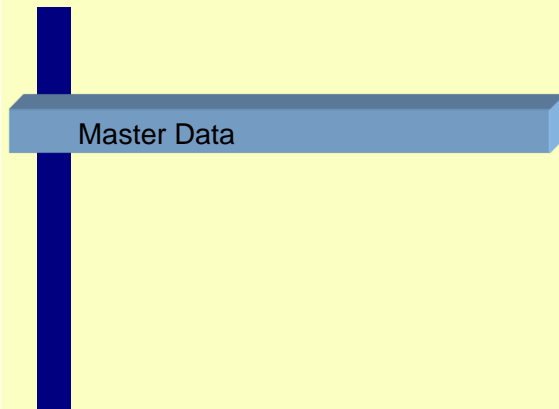
	Schema gp. POrg	Schema gp. vnd.	Proc.	Description
			RM0000	Purchasing Document (Big)
		01	RM1000	Document
	0001		RM1000	Document
	0001	01	RM1000	Document
	R001		RMISR0	Purchasing Document (Big)
	R001	R1	RMISR1	Purchasing Doc. ISR Internal

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Calculation Schema

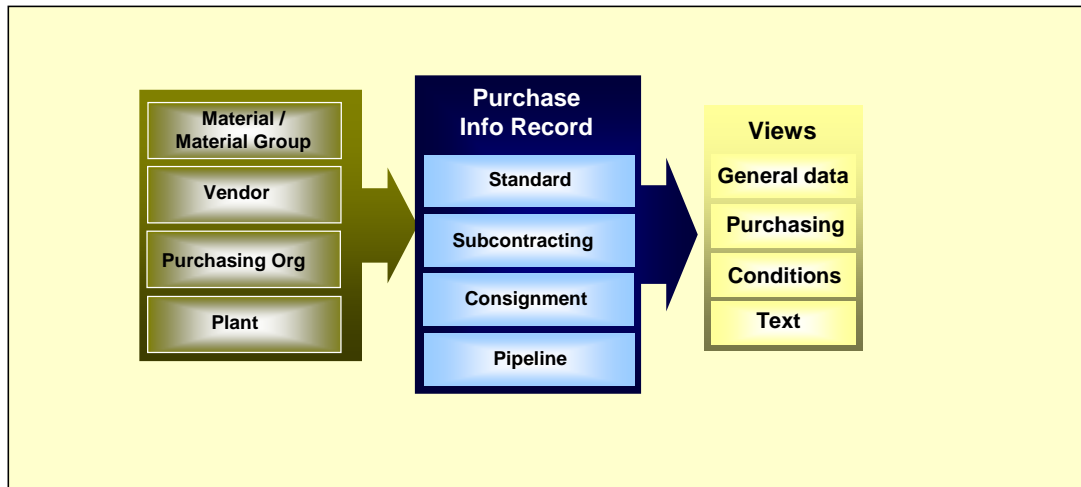


Agenda



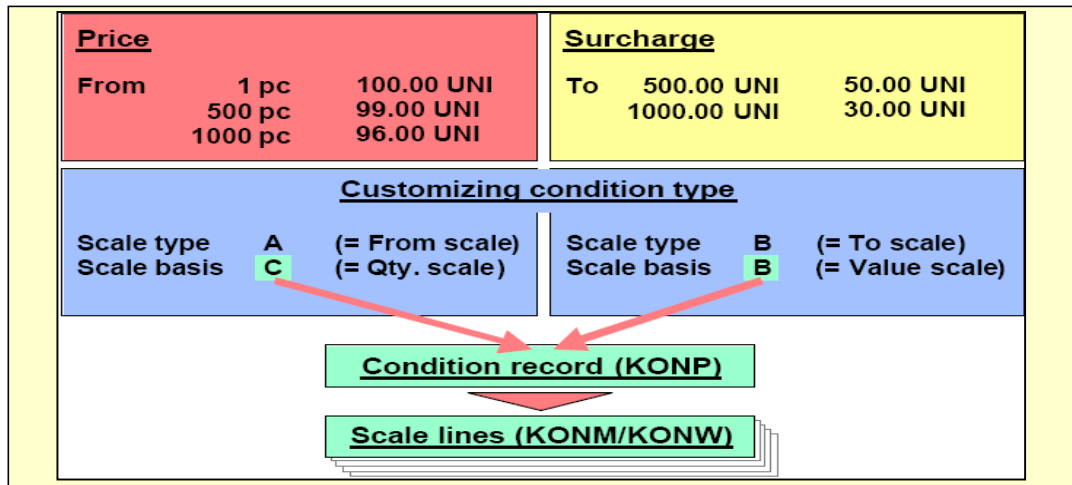
- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Purchasing Info Record



- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Purchasing Info Record - Scales



- Fixar a posicao do titulo – sempre do lado esquerdo.
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- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Purchasing Info Record



SAP Menu → Logistics → Materials Management → Purchasing → Master Data → Info Record → Create

Tcode: ME11

The screenshot shows the SAP 'Create Info Record: Initial Screen' (Tcode: ME11). The screen has a title bar with the text 'Create Info Record: Initial Screen'. Below the title bar, there are several input fields and a radio button group. The fields are: Vendor (17920), Material (RESISTOR 1), Purchasing org. (0632), Plant (0632), and Info record. The 'Info category' section has four radio buttons: Standard (selected), Subcontracting, Pipeline, and Consignment. There are three callout boxes with arrows pointing to the fields: 1. Points to Vendor, Material, Purchasing org., and Plant. Text: 'Enter the vendor code, material number, purchasing organization, plant.' 2. Points to the Info record field. Text: 'Do not enter anything here. System creates a number for info record.' 3. Points to the Subcontracting radio button. Text: 'In case the vendor does some assembly / processing on the components being provided by you, select the subcontracting category.'

Presentation Title | Author | Date

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- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Purchasing Info Record



Create Info Record: General Data

Purch. org. data 1 | Texts

Info record:

Vendor: 1000 C.E.B. BERLIN

Material: 698-000 Flat gasket

Material Group: 001 Metal processing

Vendor data		Origin data	
Reminder 1	10 days	Certif. categ.	
Reminder 2	20 days	Certificate	
Reminder 3	30 days	Valid to	
Vendor Mat. No.		Ctry of origin	DE
Sub-range		Region	01
VSR sort no.		Number	
Vend. mat.group		Manufacturer	
Points	/ 1 PC		
Salesperson	Hr. Schneider	Supply option	
Telephone	010/32323	Available from	
Return Agreement		Available to	
Prior vendor		<input type="checkbox"/> Regular vendor	

Order unit (Purchasing)

Order unit: PC

Equal To: 1 PC <-> 1 PC

Var. order unit: Not active

Create Info Record: Purch. Organization Data 1

General data | Conditions | Texts

Info record:

Vendor: 1000 C.E.B. BERLIN

Material: 698-000 Flat gasket

Material Group: 001 Metal processing

Purchasing Org.: 1000 Plant

Control

Plnd del. time: 10 Days

Purch. group: 001

Standard qty: 1 PC

Minimum qty: PC

Rem. shelf life: d

Shipping instr.: PC

Maximum qty: PC

Underdel. tol.: %

Overdeliv. tol.: %

☐ No mat.tst

☐ Ackn. reqd

☐ ConfContik

Tax code:

Expimp proced.:

RoundingProfile:

Unit group:

Conditions

Net price: 0,00 EUR / 1 PC

Effective price: 0,00 EUR / 1 PC

Qty. conversion: 1 PC <-> 1 PC

Pr. date cat.: No control

Valid to: 31.12.9999

☐ No cash disc.

Condition group:

Enter the delivery tolerances.

Enter the price in ordering unit of measure.

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Purchasing Info Record - Scales



Create Gross Price Condition (PB00) : Condition Supplements

Variable key: To create Scales

Vendor	Material	POrg	Plant	C	Description
100447	100-120	1000	1000	0	Standard

Validity

Valid From: 14.08.2018 Valid to: 31.12.9999

Condition supplements

Zo...	CnTy	Name	Amount	Unit	per	U...	Deletio...	Scales	Text
	PB00	Gross Price	100.00	EUR		1 PC		<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

1 Check the validity period and modify the dates appropriately.

2 The price entered in purchasing organization data1 screen will be defaulted with condition type PB00.

3 Enter additional conditions, as applicable. Enter condition type and rate.

- Fixar a posicao do titulo – sempre do lado esquerdo.
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- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Purchasing Info Record - Scales



Create Gross Price Condition (PB00) : Scales

Variable key

Vendor	Material	POrg	Plant	C	Description
100447	100-120	1000	1000	0	Standard

Validity

Valid From: 14.08.2015
Valid to: 31.12.9999

Control

ScaleBasis: ☒ Quantity scale
Check: ☐ None

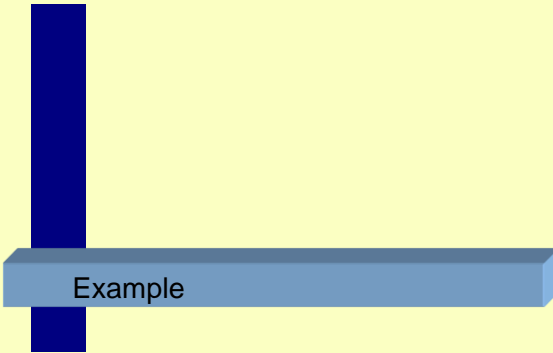
Scales

Scale Type	Scale quantity	U...	Amount	Unit	per	UoM	PricActive
From	1	PC	100.00	EUR		1 PC	<input type="radio"/>
	50		90.00				<input type="radio"/>
	100		80.00				<input type="radio"/>
							<input type="radio"/>
							<input type="radio"/>
							<input type="radio"/>

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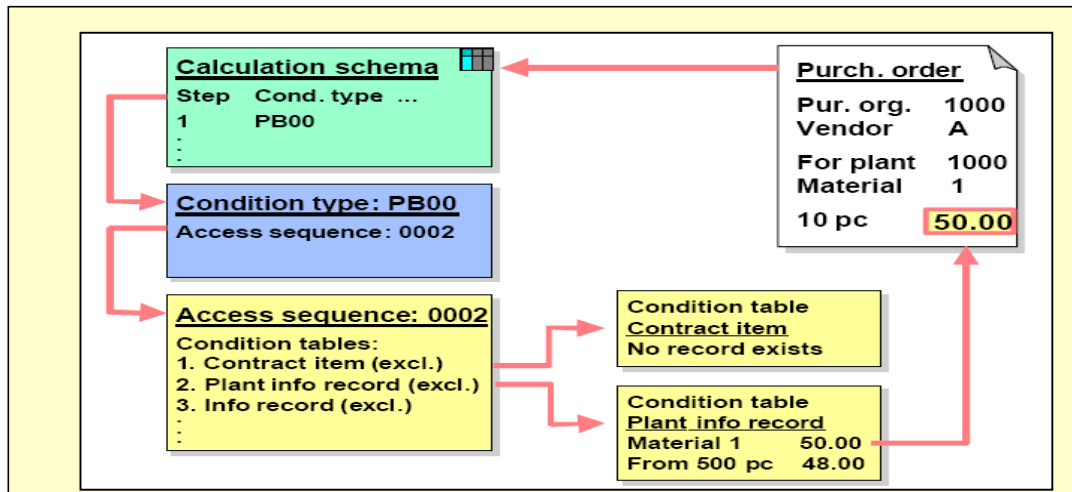


Agenda



- Fixar a posicao do titulo – sempre do lado esquerdo.
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Calculation Schema - Overview



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Calculation Schema - Example

Purchase Info Record

Display Gross Price Condition (PB00) : Condition Supplements

Variable key

Vendor	Material	P Org	Plant	C	Description
100447	100-120	1000	1000	0	Standard

Validity

Valid From: 14.08.2015 Valid to: 31.12.9999

Condition supplements

Zo...	Cn Ty	Name	Amount	Unit	per	U...	Deletio...	Scales	Text
	PB00	Gross Price	100.00	EUR		1 PC		<input checked="" type="checkbox"/>	

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
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Calculation Schema - Example

Purchase Order – main screen

The screenshot displays the SAP 'Create Purchase Order' main screen. The interface includes a top menu bar with options like 'Document Overview On', 'Hold', 'Print Preview', 'Messages', 'Personal Setting', 'Save As Template', and 'Load from Template'. Below this, there are tabs for 'Delivery/Invoice', 'Conditions', 'Texts', 'Address', 'Communication', 'Partners', 'Additional Data', 'Org. Data', 'Status', and 'Payment Processing'. The main area contains fields for 'Vendor' (100447 Test Vendor for MRP), 'Purch. Org.' (7500), 'Purch. Group' (1001), and 'Company Code' (7500). A line item is visible for 'Flat gasket' with a quantity of 100 PC and a price of 10,000.00 EUR. The bottom section shows a detailed pricing breakdown for the selected item, including 'Net Price', 'Cash Discount', 'Actual Price', and 'Border crossing'.

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Calculation Schema - Example



Purchase Order – analysis

Procedure Description

- RM0000 Purchasing Document...
- PB00 Gross Price
 - 05(0002) "Empties" Prices (M...
 - 10(0002) Outline A...
 - 13(0002) Contract...
 - 15(0002) Contract...
 - 20(0002) Plant Info Record p...
 - 25(0002) Material Info Record...
 - 30(0002) Info record per ord...
 - 35(0002) Material Info Record
 - 40(0002) Info Record for Non...
 - 45(0002) Info Record for Non...
 - 60(0002) ...
 - 65(0002) ...
 - 70(0002) ...
 - 75(0002) Material Info Record
- PBXX Gross Price
- VA00 Variants/Quantity

Access details 25 (PB00)

Access	Message	Description
25	109	Condition record is missing

Access (complete)

Field in condition table	Field in document	Value in doc.
Vendor	Vendor	0000100447
Material	Material	100-120
Purch. Organization	Purch. Organization	7500
Plant	Plant	1000
Info record category	Info record category	0
Pricing date		14.08.2015

Condition Type

Pricing Procedure

Access Sequence

Condition Table in Access sequence

Info Record

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Pricing related changes in SAP S 4 HANA relevant for sourcing & procurement

SAP Note 2267308 - S4TWL - Data Model Changes in Pricing – Overview



Resolution: Description

- Business documents within the SAP Business Suite, such as the sales order and the purchase order, are used to store the pricing result in database table KONV. In SAP S/4HANA, table KONV has been replaced in its data persistency role by the new table **PRCD_ELEMENTS**. However, KONV is and can still be used for data declaration purposes. It still defines the structure of the pricing result within the application code. The content of KONV is transferred to PRCD_ELEMENTS by the automatic data migration when moving to SAP S/4HANA.
- Several data elements have been extended, especially the key field ZAEHK in table KONV with the data element DZAEHK.
- The maximum number of possible accesses in an access sequence (DTEL KOLNR) has been increased from 99 to 999. Therefore, the solution described in SAP Pilot Note 1812828 (only relevant for customers for which this note was released) is no longer necessary nor valid. Any content from this solution will automatically be transferred to the standard tables during the conversion process to SAP S/4HANA
- The following elements in KONV have been changed

Element	Description	Type of Change
KOLNR3	Access Sequence - Access Number	Field is obsolete. Possible field content will be merged with content of KOLNR and moved to PRCD_ELEMENTS
STUFE	Level (in multi-level BOM explosions)	Field is obsolete and will not be transferred to PRCD_ELEMENTS
WEGXX	Path (for multi-level BOM explosions)	Field is obsolete and will not be transferred to PRCD_ELEMENTS

SAP Note 2267308 - S4TWL - Data Model Changes in Pricing – Overview



Resolution: Description

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WEGXX	Path (for multi-level BOM explosions)	Field is obsolete and will not be transferred to PRCD_ELEMENTS



General Table Display

Online Background Number of Entries Select All Select Key Fields for Out... Deselect All Delete Row All Entries More Exit

Table: Pricing Elements

Text table: ☐ No texts

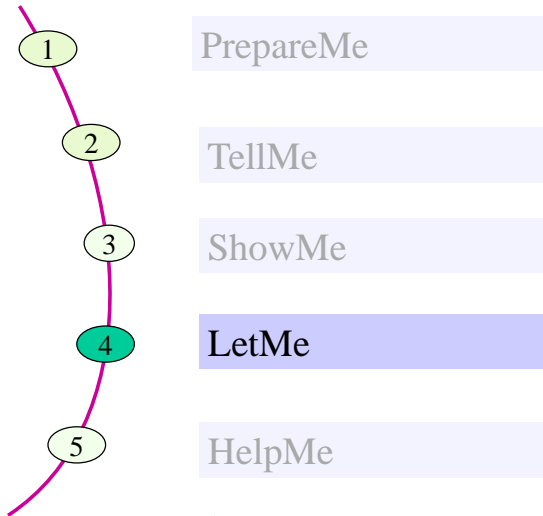
Layout:

Maximum no. of hits: ☐ Maintain entries

Selection Criteria

Fid name	...	Fr.Value	To value	More	Output	Technical name
Item	⌵			⌵	✓	KPOSN
Step Number	⌵			⌵	✓	STUNR
Counter	⌵			⌵	✓	ZAEHK

Calculation Schema



Presentation Title | Author | Date

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- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “narrowed”, se nao fica dificil de ler. Colocar paragrafos no texto.
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Exercise



The most important elements in price determination are as follows:

1. Choose *Logistics* → *Materials Management* → *Purchasing* → *Purchase Order* → *Create* → *Vendor/Supplying Plant Known (ME21N)* .
2. Enter the following data:
 - Vendor 1000
 - Document date <Current date>
 - Confirm your entries with *Enter*.

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Exercise



- Enter the following data on the *Org.data tab*.
 - Purchasing organization 1000
 - Purchasing group T00
 - Company code 1000
4. Enter the item data in the *Item overview*:
- Material M-02 (Sunny Xa1)
 - Quantity 10
 - Plant 1000
5. Open the item details and choose the *Conditions tab*.

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Exercise



6 Enter the following conditions:

- Note: The condition type PBXX is already displayed in the list. To insert the other condition, use the F4 help for the *Condition type* field. You can show the participants that the condition types vary Considerably.
 - Condition type Amount
 - PBXX (Gross Price) 400
 - FRB1 (Freight (Value)) 100
 - MM00 (Minimum Quantity(Amount)) 20
- 7 Explain that the conditions are listed according to the calculation schema in the list of conditions.

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- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

Exercise



8. Ask the participants whether the conditions are time-dependent and explain the answer. (Conditions in the purchase order are time-independent.)
9. Choose Save.

- Fixar a posicao do titulo – sempre do lado esquerdo.
- Sempre que tiver muito texto o coluna deve sempre ser “ narrowed” , se nao fica dificil de ler. Colocar paragrafos no texto.
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Question



1. How system determines price in the purchase order
2. Difference between time-dependent and time-independent conditions

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Answer



1. Through schema determination, schema group vendor & purchasing organization schema group.

2. Condition in purchasing document which have validity are time dependent like contract. While which doesn't have validity period like purchase order are time independent.

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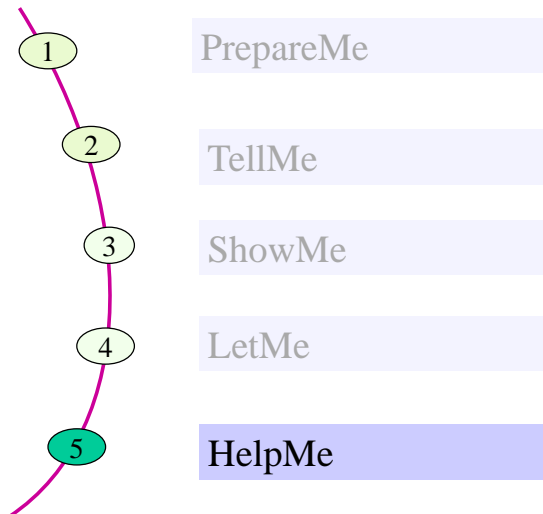
Calculation Schema - Tcodes



Tcode	Description
M/03	Create condition table
M/07	Define Access Sequence
M/06	Define Condition Type
M/08	Define Calculation Schema
XK02	Vendor – Central: Change
ME11	Purchase Info Record - Create
MEK1	Create Condition Records
MEK4	Create Condition Records with Reference
MEKA	Conditions: General Overview

- Fixar a posicao do titulo – sempre do lado esquerdo.
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Calculation Schema



Presentation Title | Author | Date

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MM Tables Need help to update these tables

Table	Description	Table	Description
EINA	Purchasing Info Record- General Data	A501	Plant/Material
EINE	Purchasing Info Record- Pur Org Data	EBAN	Purchase Requisition
MAKT	Material Descriptions	EBKN	Purchase Requisition Account Assignment
MARA	General Material Data	EKAB	Release Documentation
MARC	Plant Data for Material	EKBE	History per Purchasing Document
MARD	Storage Location Data for Material	EKET	Scheduling Agreement Schedule Lines
MAST	Material to BOM Link	EKKN	Account Assignment in Purchasing Document
MBEW	Material Valuation	EKKO	Purchasing Document Header
MKPF	Header- Material Document	EKPO	Purchasing Document Item
MSEG	Document Segment- Material	IKPF	Header- Physical Inventory Document
MVER	Material Consumption	ISEG	Physical Inventory Document Items
MVKE	Sales Data for materials	LFA1	Vendor Master (General section)
RKPF	Document Header- Reservation	LFB1	Vendor Master (Company Code)
T023	Mat. groups	NRIV	Number range intervals
T024	Purchasing Groups	RESB	Reservation/dependent requirements
T156	Movement Type	T161	T Texts for Purchasing Document Types

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- Linha vertical deve ser mais fina e as pontas NUNCA devem ser arredondadas.

SAP Related sites....



SAP Best Practices:

<http://help.sap.com/content/bestpractices/overview>

SAP Community Forms:

SAP Fans (<http://sapfans.com>)

The Spot for SAP (www.thespot4sap.com)

SAP Friends (www.sapfriends.com)

SearchSAP (<http://searchsap.techtarget.com>)

SAPGenie (www.sapgenie.com)

SAP Insider (www.sapinsider.com)

SAP Professional Journal (<http://sappro.com>)

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With more than 190,000 people, Capgemini is present in over 40 countries and celebrates its 50th Anniversary year in 2017. A global leader in consulting, technology and outsourcing services, the Group reported 2016 global revenues of EUR 12.5 billion. Together with its clients, Capgemini creates and delivers business, technology and digital solutions that fit their needs, enabling them to achieve innovation and competitiveness. A deeply multicultural organization, Capgemini has developed its own way of working, *the Collaborative Business Experience™*, and draws on *Rightshore®*, its worldwide delivery model.

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