

## Material determination

Pre-requisite –

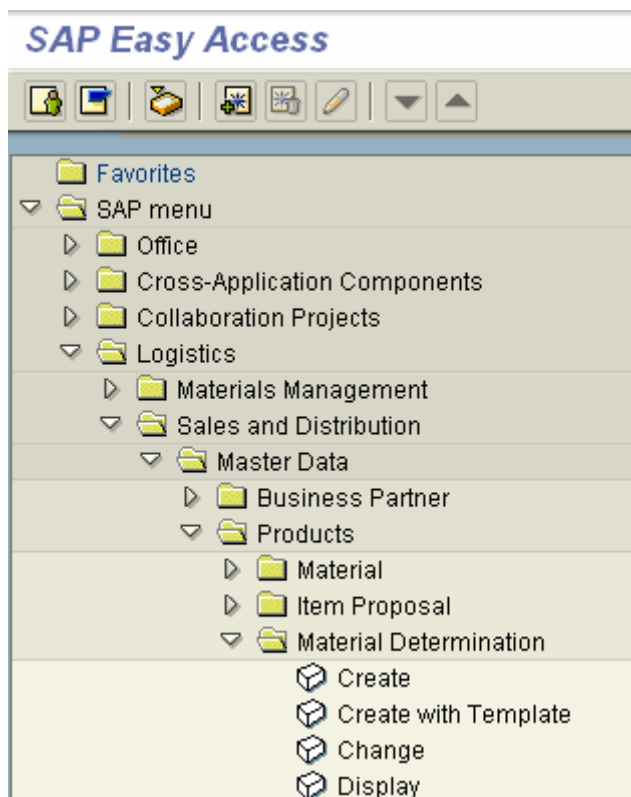
Master data of Material condition record


Material is HT-1037

Substitute material is HT-1137

**Scenario 1** – Substitution reason 0001, Advertising campaign

Menu path is as below. Transaction code is VB11



Click on  Create

## Create Material Determination: Initial Screen

Material determ.type  Material Entered

Click on

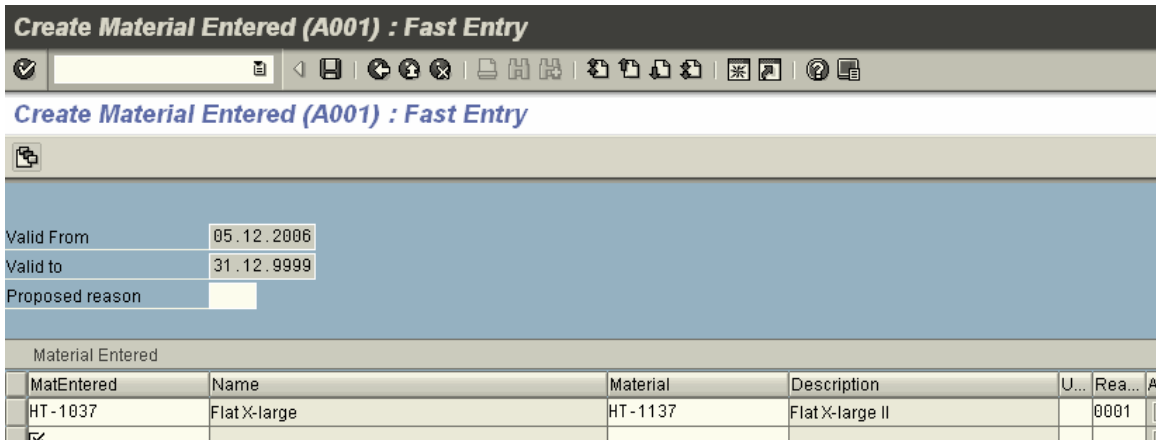
Material determ.type  Material Entered


Key Combination

Material Entered

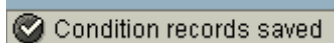
Click on

Enter Substituted material as HT-1037 and Substitute material as HT-1137. Put substitution reason as 0001.

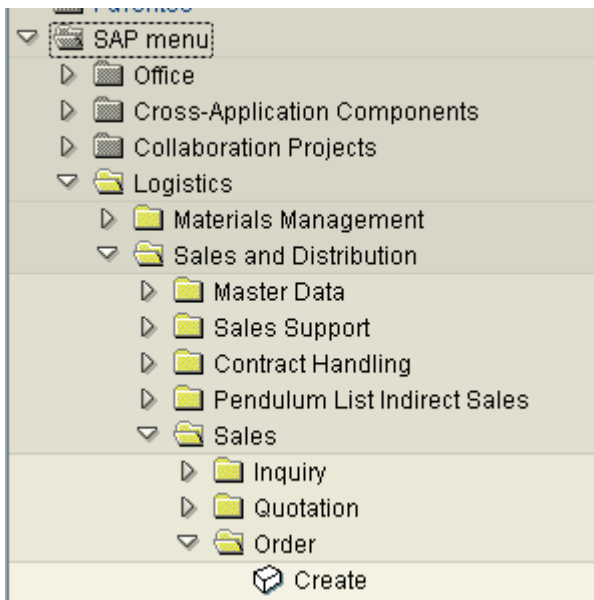


Click on 

At the bottom of the screen, you will get message

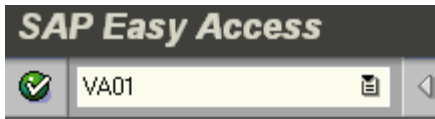


Now, Let us create sales order



Click on 

Transaction code is VA01. To use this, type VA01 as shown below in the space at the left hand side, top corner.



## SAP Easy Access

Enter the details as below

### Create Sales Order: Initial Screen

The screenshot displays the "Create Sales Order: Initial Screen" in SAP. At the top, there are three tabs: "Create with Reference" (selected), "Sales", and "Item overview". Below the tabs, a tooltip for "Create with Reference (F8)" is visible. The main area shows the "Order Type" set to "OR" with the label "Standard Order". Below this is a section titled "Organizational data" containing several fields:

Organizational data		
Sales Organization	3020	USA Denver
Distribution Channel	30	Final customer sales
Division	00	Cross-division
Sales Office		
Sales Group		

Enter Sold-to, Ship-to, PO number as shown below.

Enter material, HT-1037 in the sales order line and order quantity as 1.

### Create Standard Order: Overview

Standard Order		Net value	
Sold-to party	481	Peter King / PO Box 1030 / SEATTLE WA 98155	
Ship-to party	481	Peter King / PO Box 1030 / SEATTLE WA 98155	
PO Number	Mat. dete.example	PO date	

Sales    Item overview    Item detail    Ordering party    Procurement

Req. deliv.date	D	05.12.2006	Deliver.Plant	
<input type="checkbox"/> Complete dlv.			Total Weight	
Delivery block			Volume	
Billing block			Pricing date	05.12.2006
Payment card			Exp.date	
Payment terms	0001		Incoterms	FH
Order reason				
Sales area	3020 / 30 / 00	USA Denver, Internet Sales, Cross-division		

All items						
Item	Material	Order quantity	SU	Description	S	C
	HT-1037	1			<input type="checkbox"/>	
					<input type="checkbox"/>	

Press "Enter" key on the keyboard.

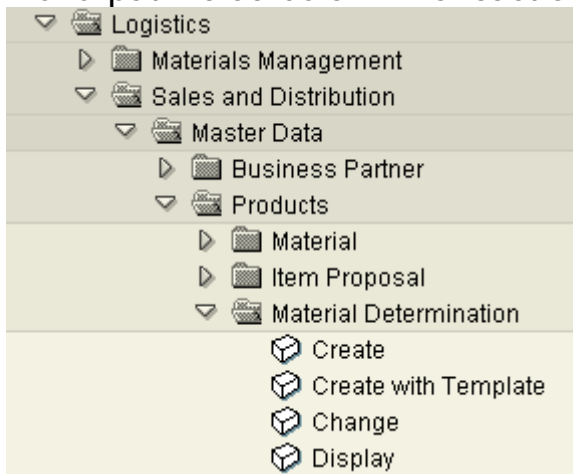
HT-1137 replaces HT-1037 directly w/o giving warning as configuration for substitution reason 0001 is set for no warning. There is only one line with substitute and not 2 lines each for original and substitute because "outcome" for substitution reason 0001 is set for the same.

### Scenario 2 - Substitution reason 0004, Availability

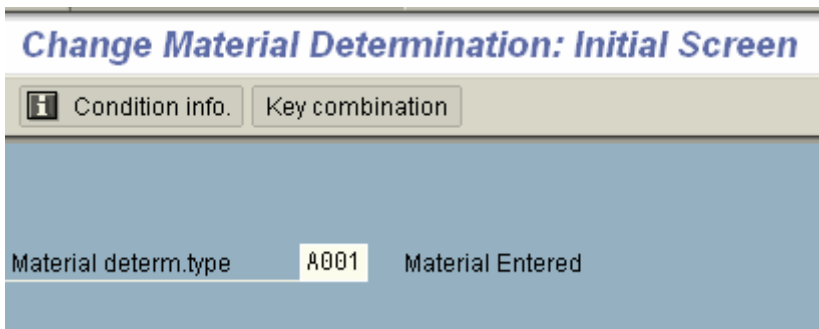
If we use substitution reason, 0004, outcome will show substitute as sub-item.


Let us change in material condition record, substitution reason.

Menu path is as below. Transaction code is VB12




Click on  Change





Click on 

## Change Material Determination: Initial Screen

 Condition info.





Material determ.type  Material Entered

 Key Combination 

Material Entered


Click on 

## Change Material Entered (A001): Selection

Material entered  to

Valid On

Click on 

## Change Material Entered (A001) : Fast Entry




Valid On

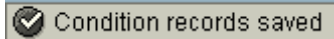
Proposed reason

Material Entered

MatEntered	Name	Material	Description	U...	Reasn	A
HT-1037	Flat X-large	HT-1137	Flat X-large II		0004	
<input checked="" type="checkbox"/>						

Click on 

At the bottom of the screen, you will get message






Let us create Sales order



Enter the details as below

**Create Sales Order: Initial Screen**

 Create with Reference |  Sales |  Item overview

Create with Reference (F8)

Order Type  Standard Order

Organizational data

Sales Organization	<input type="text" value="3020"/>	USA Denver
Distribution Channel	<input type="text" value="30"/>	Final customer sales
Division	<input type="text" value="00"/>	Cross-division
Sales Office	<input type="text"/>	
Sales Group	<input type="text"/>	

Enter Sold-to, Ship-to, PO number as shown below.

Enter material, HT-1037 in the sales order line and order quantity as 1.



### Create Standard Order: Overview

Standard Order:  Net value:   
 Sold-to party: 481 Peter King / PO Box 1030 / SEATTLE WA 98155  
 Ship-to party: 481 Peter King / PO Box 1030 / SEATTLE WA 98155  
 PO Number: Mat. dete.example PO date:

Sales | **Item overview** | Item detail | Ordering party | Procurement

Req. deliv.date: D 05.12.2006 Deliver.Plant:   
 Complete dlv. Total Weight:   
 Delivery block:  Volume:   
 Billing block:  Pricing date: 05.12.2006  
 Payment card:  Exp.date:   
 Payment terms: 0001 Incoterms: FH  
 Order reason:   
 Sales area: 3020 / 30 / 00 USA Denver, Internet Sales, Cross-division

All items						
Item	Material	Order quantity	SU	Description	S	C
	HT-1037	1			<input type="checkbox"/>	
					<input type="checkbox"/>	

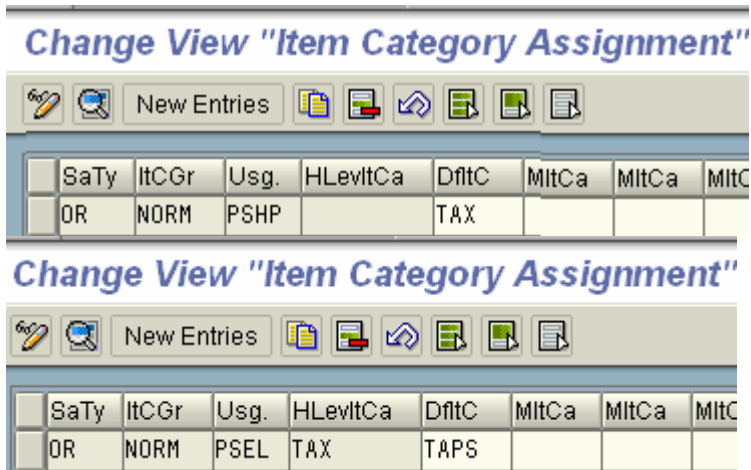
Press "Enter" key on the keyboard.

It shows material entered, HT-1037 in the 1<sup>st</sup> line.

All items									
Item	Material	Order quantity	SU	Description	S	Customer Material Numb	ItCa	DG...	HgLvlt
<u>10</u>	HT-1037	1	PC	Flat X-large	<input type="checkbox"/>		TAX		
<u>11</u>	HT-1137	1	PC	Flat X-large II	<input type="checkbox"/>		TAPS		10

For determination of sub-item, IM Configuration of "Assign item categories" should be as below.

Please note TAX is item category for Non-stock item.



Item usage for higher level item should be

Usg.	Description
PSHP	Prod.Selection MItem

Item usage for sub-item should be **PSEL** Product Selection

### Scenario 3 - Substitution reason 0005.

User is given pop-up for selection of substitute material on the sales order screen.

Change condition record – Put substitution reason as 0005 and add alternative materials, which you want to be available to user in pop-up. In scenario 1, even though such alternative materials are maintained, they will not appear for selection. System will replace the material 1<sup>st</sup> in the list and if available replace it automatically.

Transaction code is VB12.

Put the material entered as HT-1037

Once inside the change screen, select line with material HT-1037 and from Menu – Go To - Alternative materials.

Enter the alternative materials, example – HT-1070.

The list will now show 1<sup>st</sup> material as HT-1137, for which record already existed.

2<sup>nd</sup> line shows new material added.

**Change Material Entered (A001) : Fast Entry**

Key

Material entered	Description
HT-1037	Flat X-large

Validity period

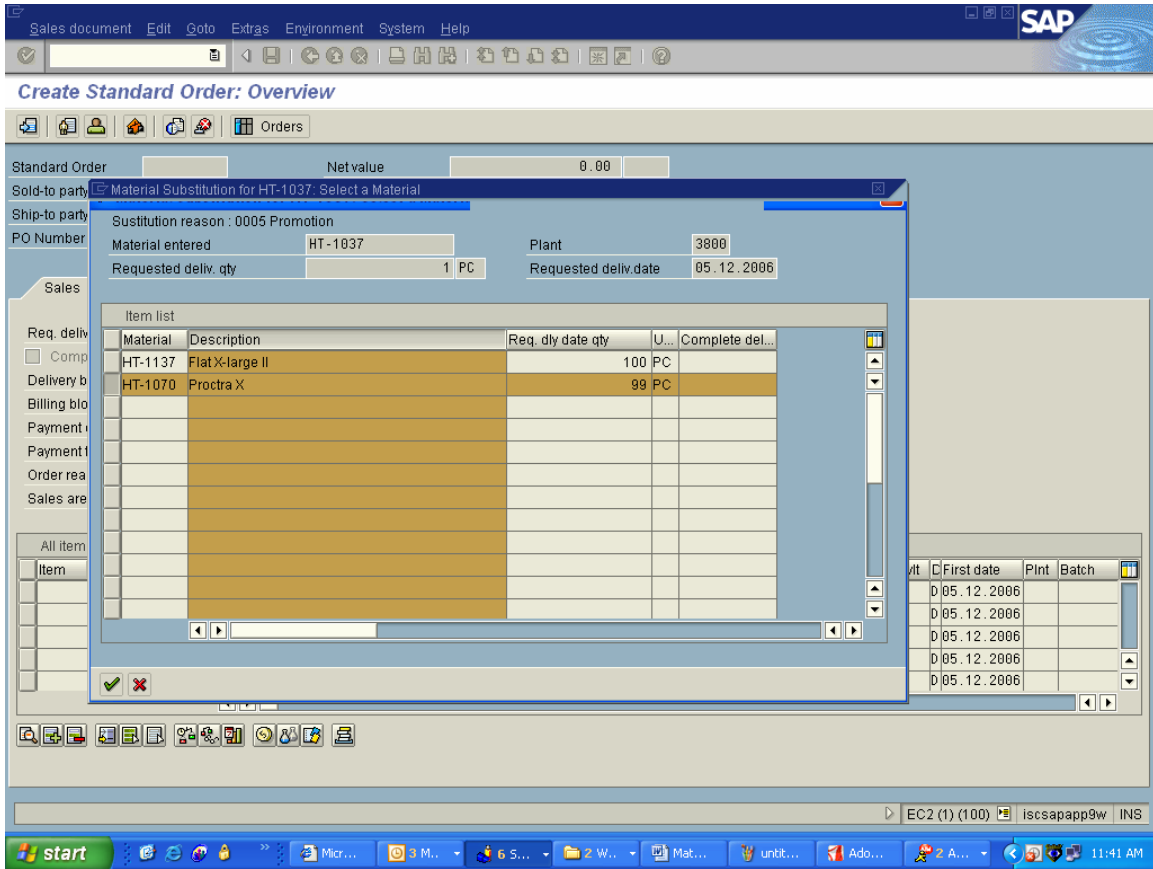
From: 05.12.2006  
To: 31.12.9999

Substitution reason: 0005 Promotion

Alternative materials

Material	UoM	MRP ind.
HT-1137		Flat X-large II
HT-1070		Proctra X
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Create Sales order (As done in the 1<sup>st</sup> 2 scenarios)  
Transaction code is VA01  
Once you enter HT-1037 in sales order line item, it gives pop-up as per the list of materials.



Select the material from the list, which you want to substitute. So here, control lies with the user. Select HT-1070 and

Click

HT-1070 is now determined as selected by the user.

Item	Material	Order quantity	SU	Description	S	Customer Material Numb	ItCa	D
10	HT-1070	1	PC	Proctra X	<input checked="" type="checkbox"/>		TAN	