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Order Delivery Process

SAP 1/Erkki Koskela

3 February 2012

SAP 1\_RT3a\_Updated



# **ORDER DELIVERY PROCESS**

**Ex RT 3A**

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## 1. Introduction

This exercise gives the logistic process from customer order to billing using SAP ECC. The process starts with the order of the material and proceeds with stock check and purchases of necessary materials if the company doesn't have at the time of order or has but the material ordered is not enough to fulfill the promise, finally ends with delivery process.

### 1.1 Purpose

The main purpose of this course is for students to be familiar with SAP ECC modules and software as a whole, being able to enter/retrieve data from the system, being able to check the availability of materials, being able to use MRP, transaction codes and stocks checking as these skills are useful in the industry/work place.

## 2. DATA

<b>Company Code</b>	<b>1000</b>
<b>Plant</b>	<b>1200</b>
<b>Sales Organization</b>	<b>1000</b>
<b>Distribution Channel</b>	<b>10</b>
<b>Division</b>	<b>00</b>
<b>Storage Location</b>	<b>0002</b>
<b>Purchase Orgabization</b>	<b>1000</b>
<b>Purchasing Group</b>	<b>007</b>
<b>Material</b>	<b>PT19</b>
<b>Industry Sector</b>	<b>Mechanical Engineering</b>
<b>Copy From... Material</b>	<b>KTA98</b>
<b>Customer</b>	<b>400124</b>
<b>Vendor</b>	<b>52324</b>

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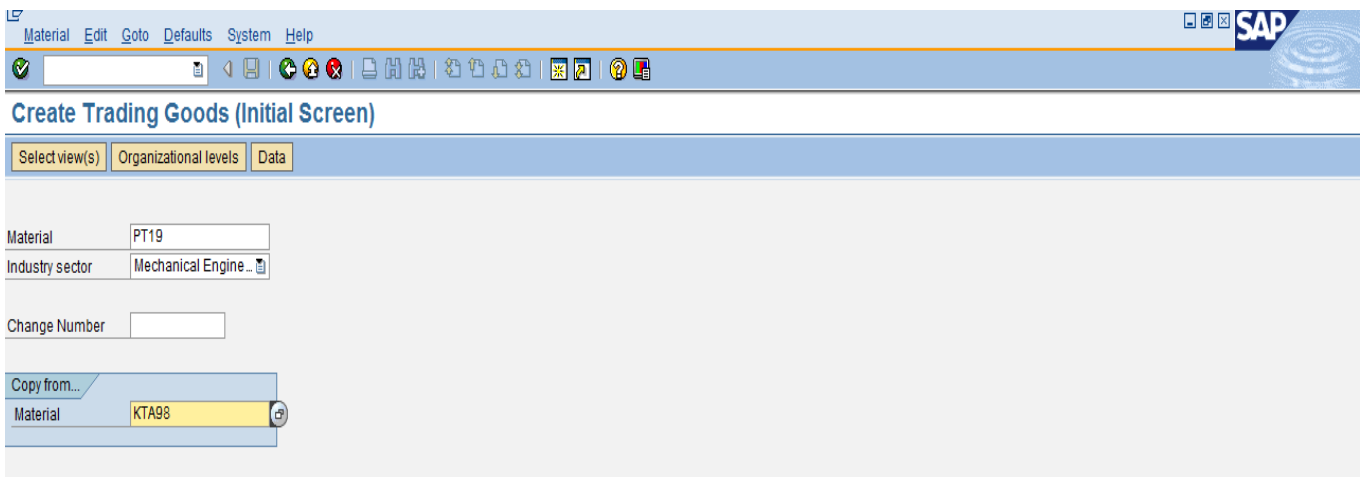
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### 3. Creating New Material By Copying It From An Existing Material

With the use of the data in part 2 above we are going to create the material PT19 and it is being copied from the default material KTA98. This material we have just created will be used in the proceeding articles i.e. the material will be sold to a customer. The transaction code mmh1 will be used for creating this material as shown in the screen blow.



The screenshot shows the SAP 'Create Trading Goods (Initial Screen)' dialog box. The interface includes a menu bar (Material, Edit, Goto, Defaults, System, Help) and a toolbar with various icons. The main area contains the following fields:

- Material:** PT19
- Industry sector:** Mechanical Engine...
- Change Number:** (empty)
- Copy from...** section:
  - Material:** KTA98

### 4. To Create A Customer

As mentioned in part 3 previously that material PT19 will be sold, it comes at this point that if there is no customer no one can buy the product so a customer has to be created and specific details entered in the system as shown below.

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Customer Display: Initial Screen

Customer: 400124 Nokia Corp.

Sales area

Sales Organization	1000	Germany Frankfurt
Distribution Channel	10	Final customer sales
Division	00	M3

All sales areas... Customer's sales areas...

Using the transaction code xd01 to create a customer in SAP ECC the above screen shows the name of the customer (400124) created altogether with other information's such as sales organization, distribution channel and division respectively. A customer can be a natural person or a corporation.

Customer 400124 Nokia Corp.

#### 4.1 To Maintain Materials Prices

Its important to maintain the material prices for material PT19 as it states the conditions of sales and the amount being bought by the customer. In this case the material costs 100€ which conditional type PR00- defined as Normal.

Create Condition Records: Fast Entry

Sales Organization 1000 Germany Frankfurt  
Distribution Channel 10 Final customer sales

Material with release status

Condition type	Material	S	Description	Pr...	Amount	Unit	per	U...	C...	S...	Valid From	Valid to	Tax...	Wt...	Lic. no.	Lic. date	D...	S...	T...	E...	Pay...	FixValDate
PR00	PT19				100																	

Material with release status

Condition type	Material	S	Description	Pr...	Amount
PR00	PT19				100

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## 4.2 Creation Of customer/Material Discounts

According to the instructions at the price of 100€ a piece of the material PT19, there is a material discount of 5€ at the condition of K005 and material vk31 is used for this transaction record.

## 4.3 To Maintain The Material To MRP

The material PT19 is maintained to MRP which means that the material is now in the MRP system for monitoring automatically i.e. each time a unit is deducted or added the system will be keeping records.

## 5. To Create a Vendor

A vendor, or a supplier, is anyone or company that provides goods or services to a company often vendors manufactures goods and sales them to customers or companies involved. We are herein creating a vendor so that if it happens that a customer on part 4 makes an order and we don't have enough and /or shortage of products in our warehouse we can order from the vendor to fulfill the order. Vendors can also be defined as contract manufactures that manufactures products on demand and on contractual basis so they can be relied upon.

The screenshot displays the SAP 'Display Vendor: Address' interface. At the top, the menu bar includes 'Vendor', 'Edit', 'Goto', 'Extras', 'Environment', 'System', and 'Help'. The title bar shows 'Display Vendor: Address'. Below the title bar, there are icons for 'CIN Details', 'Preview', and 'Print'. The main form area is divided into several sections: 'Vendor' (with a text field containing '52324'), 'Name' (with 'Title' set to 'Company' and 'Name' set to 'Ankle LTD'), 'Search terms' (with 'Search term 1/2' set to 'ANKLE'), 'Street address' (with 'Street/House number' set to 'kelvintie 19 A', 'Postal Code/City' set to '12345 Espoo', and 'Country' set to 'DE Germany'), 'PO box address' (with 'PO Box' and 'Postal code' fields), and 'Communication' (with 'Language' set to 'English', 'Telephone', 'Fax', 'E-Mail', 'Data line', and 'Telebox' fields, and 'Extension' and 'Other communication...' fields). The SAP logo is visible in the top right corner.

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The above screen shows the name of the vendor created in our SAP ECC system, as you can see some specific details of the vendor such as the vendor name, address and the preferred language are entered. The transaction code xk01 is used to create a vendor.

## 5.1 To Define Vendor To Be Source Of Your Material

By the use of the transaction code me01 we have linked the vendor to our material so if it happens that we're in need of this material we can just make a MRP run for this material and order straight to our customer using SAP ECC (assuming the vendor also uses SAP or if not we can still send orders electronically through SAP XI) straight to our vendor.

## 6. To Create Sales Order

Where creating the sales order of the material PT19 and the system will propose the delivery date, arrival time, loading date etc and it will issue the sales order number 12293 to show that the order was successful.

Sales document Edit Goto Extras Environment System Help

Display Standard Order 12293: Overview

Standard Order 12293 Net value 950,00 EUR

Sold-to party 400124 Nokia Corp. // 12345 Espoo

Ship-to party 400124 Nokia Corp. // 12345 Espoo

PO Number 1983 PO date 08.10.2008

Sales Item overview Item detail Ordering party Procurement Shipping Reason for rejection

Req. deliv. date D 17.10.2008 Deliver. Plant

Complete div. Total Weight 0,200 KG

Delivery block Volume 0,000

Billing block Pricing date 08.10.2008

Payment card Exp. date

Payment terms ZB01 14 Days 3%, 30/2... Incoterms CIP Frankfurt

Order reason

Sales area 1000 / 10 / 00 Germany Frankfurt, Final customer sales, M3

All items

Item	Material	Order quantity	SU	Description	S	Customer Material Numb	ItCa	DGL	HgLvlt	D First date	Pint	Batch	CnTy	Amou
10	PT19	10	PC	Car Engine			TAN			08.10.2008	1200		PR00	

Standard Order 12293 has been saved

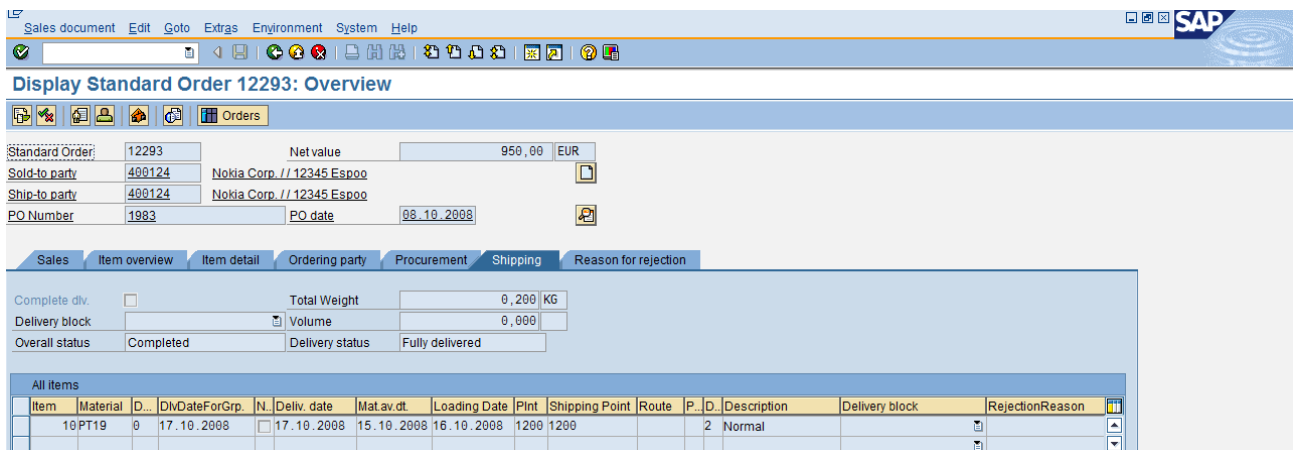
The above screen shows the order details of material PT19 and as you can see under the **Sales Heading** the details of the items ordered and the description of the material, total weight, pricing date, incoterms etc equally under the **Shipping Heading** are some information such as the delivery date, loading date, shipping point and the description of the shipping in this case its **Normal**.

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**Display Standard Order 12293: Overview**

Standard Order: 12293 Net value: 950,00 EUR  
 Sold-to party: 400124 Nokia Corp. // 12345 Espoo  
 Ship-to party: 400124 Nokia Corp. // 12345 Espoo  
 PO Number: 1983 PO date: 08.10.2008

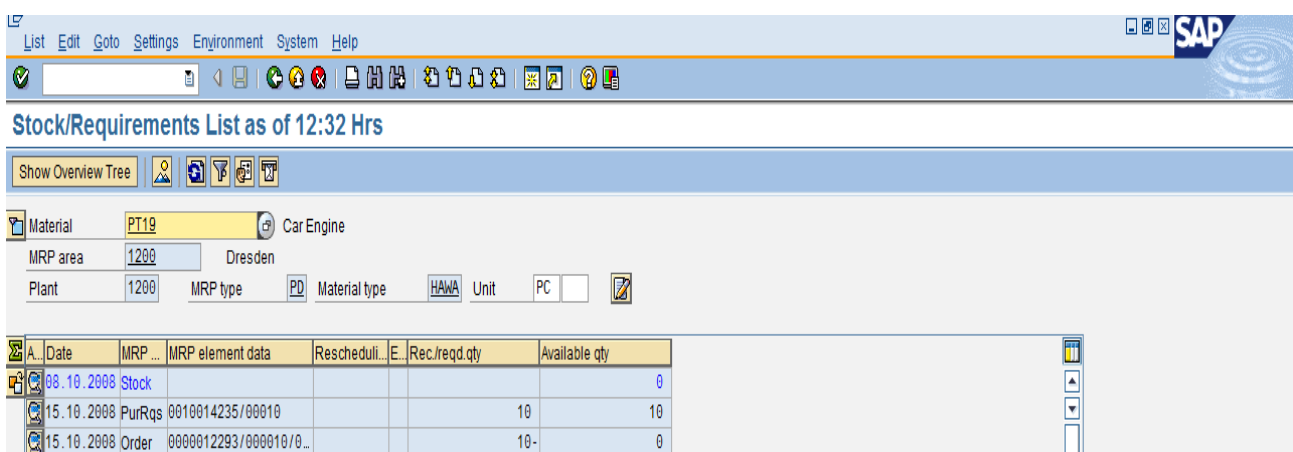
Complete div. ☐ Total Weight: 0,290 KG  
 Delivery block: Volume: 0,000  
 Overall status: Completed Delivery status: Fully delivered

Item	Material	D...	DivDateForGrp.	N.	Deliv. date	Mat.av.dt.	Loading Date	Pint	Shipping Point	Route	P..D.	Description	Delivery block	RejectionReason
10	PT19	0	17.10.2008	<input type="checkbox"/>	17.10.2008	15.10.2008	16.10.2008	1200	1200		2	Normal		

Notice the net price is 950€ instead of 1000€ because under the material/customer condition we created we offered 5€ discount for the material.

## 6.1 Checking The Stock

It's important to check the stock in our SAP ECC system so as to ascertain the availability of the product/material. To check the stock the transaction code MD04 is used in SAP ECC.



**Stock/Requirements List as of 12:32 Hrs**

Material: PT19 Car Engine  
 MRP area: 1200 Dresden  
 Plant: 1200 MRP type: PD Material type: HAWA Unit: PC

A.	Date	MRP ...	MRP element data	Rescheduli...	E.	Rec./reqd.qty	Available qty
08.10.2008	Stock						0
15.10.2008	PurRqs	0010014235/00010				10	10
15.10.2008	Order	0000012293/000010/0...				10-	0

The above screen shows the level of the stock for the material PT19 as you can see on the 08.10.2008 the warehouse is empty, but since we made the purchase requisition (PurRqs) for the material concerned, on the 15.08.2008 we will have the material ready in the warehouse. The figure is showing 0 at the end of the day because we will deliver all the 10 materials to our customer i.e.-10.



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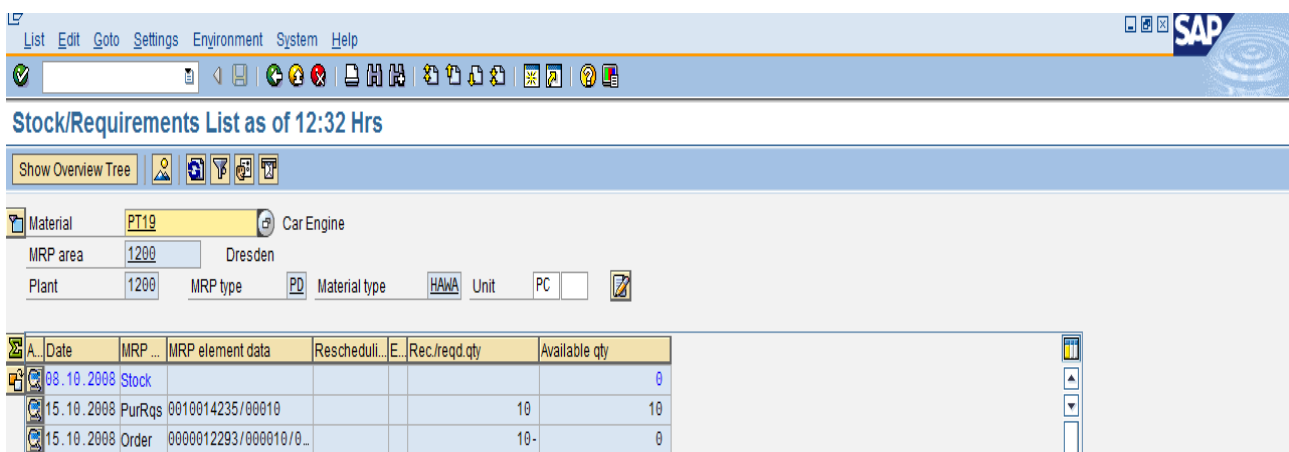
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## 6.2 From Purchase Request To Purchase Order

As mentioned earlier the purchase order that the customer which we created made, we did not have enough material in our warehouse so MRP run suggested that we should order this material from our vendor, and we used the transaction code md04 as shown below.



A...	Date	MRP ...	MRP element data	Rescheduli...	E...	Rec./reqd.qty	Available qty
08.10.2008	Stock						0
15.10.2008	PurRqs	0010014235/00010				10	10
15.10.2008	Order	0000012293/000010/0...				10-	0

and double click for Purrrqs line to make an order from our vendor and the system will give out the purchase order number 4500017694 to indicate that the order was received by our registered vendor.

## 6.3 Control Of The Created Documents

The purpose of this is to determine the right amount for the right material to the right customer documents is entered in the system and ready to be billed.

The two document below shows the material document overview which indicates specifically what material, quantities, batch numbers etc of the material and the total amount of money and the important thing is the currency in which it is billed of which in this case its in € (Euros).

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Material Document Edit Goto Environment System Help

**Display Material Document 5000011910 : Overview**

Details fm Item Material Accounting Documents...

Posting Date: 08.10.2008 Deliv.Note: 4500017694 Name: SYS139205

Item	Quantity	EUn	Material	Pint	SLoc	PO	Item	S	DCI
		BUUn	Material description			Batch	R	MvT	S S
1	10	PC	PT19	1200	0002	4500017694	10		
			Car Engine				101	+	

Document Edit Goto Settings Extras Environment System Help

**Document Overview - Display**

Doc.type : WE ( Goods receipt ) Normal document

Doc. Number	5000001482	Company code	1000	Fiscal year	2008
Doc. date	08.10.2008	Posting date	08.10.2008	Period	10
Ref.doc.	4500017694				
Doc.currency	EUR				

Item	PK	CoCd	Account	Account short text	Amount in LC	LCurr	Amount	Crcy	LC2 amount	LCur2	Cost Ctr
1	09	1000	310000	Trading Goods	100,00	EUR	100,00	EUR			
2	96	1000	191100	Goods Rcvd/Invoice R	100,00-	EUR	100,00-	EUR			
*		1000					0,00	EUR			
**							0,00	EUR			

The screen also show the 100€ bill for 1o pieces of the material PT19.

## 6.4 Picking For The Delivery

This is very important as it shows in the system what material and by what quantities is going to a certain plant location and for which customer etc.

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Outbound Delivery: 80014995  
Document Date: 08.10.2008  
Ship-to party: 400124  
Nokia Corp. // 12345 Espoo

Item Overview | **Picking** | Loading | Transport | Status Overview | Goods Movement Data

Pick Date/Time: 15.10.2008 00:00  
Warehouse No.:  
OvrllPickStatus: C Fully picked  
OverallWMStatus: No WM trnsf ord reqd

Item	Material	Pint	SLoc	Delivery quantity	SU	Pick quantity	SU	Batch	B...	Docu. Bats...	PW	Mat.av.dt.	Mat...	Val. type	Description
10	PT19	1200	0002	10	PC	10	PC				C	15.10.2008	00:00		Car Engine

The above screen shows the materials being picked for delivery. When the system gives the delivery number and Grays-Off **Post Goods Issues** then it means that the picking was successful and that we release the picked goods from the stock for delivery. Transaction code vl02n is used for picking.

## 6.5 Billing The Customer

The sole purpose of any business to exist and to expand is to be able to make a profit so sending bills to customers for the services offered is traditionally healthy for the company and its stakeholders.

Invoice: 90036155  
Payer: 400124  
Billing date: 08.10.2008  
Net value: 950,00 EUR  
Nokia Corp. // DE - 12345 Espoo

Item	Description	Billed Quantity	SU	Net value	Material	Tax amount
10	Car Engine	10	PC	950,00	PT19	152,00

The above screen shows the billing document, as you can see it includes the items, descriptions of the material, quantity, net value, material name and Tax amount respectively. When the billing document is saved in the system SAP ECC issues the billing number that indicates that the transaction was successful. and now we send the bill to our customer 400124.