

SAP ERP
Foundation
Extension Trial Offer
-- User Guide
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English

SAP ERP Foundation Extension Trial Offer – User Guide

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Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options. Cross-references to other documentation.
Example text	Emphasized words or phrases in body text, titles of graphics and tables.
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools.
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.

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SAP ERP Foundation Extension Trial Offer – User Guide

1 Introduction

The SAP ERP Foundation Extension Trial appliance landscape consists of two appliances:

“SAP ERP 607 - Central Applications SPS03” / “SAP HANA Platform Edition 1.0 - HANA DB SPS07” and “SBOP BI Platform 4.1 - Enterprise Servers SPS02”.

The solution also provides the following Rapid-Deployment Solution packages inside:

- SAP ERP Foundation rapid-deployment solution
- SAP HANA Live rapid-deployment solution
- SAP Fiori Infrastructure rapid-deployment solution
- SAP Fiori Apps rapid-deployment solution
- SAP Access Control rapid-deployment solution

Detailed information can be found on SAP Service Marketplace <http://service.sap.com/rds-efe>.

The SAP ERP / SAP HANA appliance is based on

- SAP enhancement package 7 for SAP ERP 6.0
- Support Package 7 of SAP HANA Enterprise Edition 1.0

The SAP BusinessObjects Enterprise appliance is based on

- Support Package 2 for SBOP BI PLATFORM 4.1

This user guide provides you two parts of necessary information after you have created the instance following the “Getting Started Guide”.

Part I. Technical settings to get your solution up and run

Part II. Demo Guide for two predefined process flows and more business processes related information for your own exploration.


2 Part I. Technical Settings to get your solution up and run

After you have executed the steps in “Getting Started Guide”, you have already created your solution instances. Please note down the IP address you get after the instance is created. You can find the information in your SAP Cloud Appliance Library Console.

The next, please follow the steps described here to finalize your own trial landscape.

2.1 Connecting to ABAP via SAP GUI

2.1.1 Procedure

1. Start the SAP Logon
2. Choose new entry  → User defined.
3. In the *System* wizard, specify the following parameters:


Parameter ID	Parameter Value	Note
Application Server	<IP Address>	The IP address of the <i>ERP</i> instance after executed Getting Started Guide.
Instance Number	00	ABAP instance number used by the appliance.
System-ID	ERP	ABAP system id used by the appliance.
User Name	Client 000: SAP*, <Master Password> Client 000: DDIC, <Master Password> Client 001: SAP*, <Master Password> Client 001: DDIC, <Master Password> Client 102 (Germany client): BPinst/Welcome1 Client 120 (US client*): BPinst/Welcome1 Client 180 (client containing GateWay and AccessControl): BPinst/Welcome1 * US also contains the activated baselines for Chemicals industry and Discrete Manufacturing industry	Default users are SAP* and DDIC. The password for them is the same, i.e, the Master Password. The evaluation user for the different country clients: BPINST, with default password:Welcome1 There is also a client 100 (BW client): BPinst /Welcome1. <i>But you will not use it for the demo purpose.</i>

2.2 Update Password for Secondary Database Connection

You must perform the following steps; otherwise SAP<SID> HDB schema user (in this case SAPERP) will get locked.

2.2.1 Procedure

1. Log on to your SAP ERP system client 120, see logon information above.
2. Call transaction **DBCO**. In the Display View “description of Database Connection”; Details screen, click on “change” button
3. Update the password w/ the master password you defined during instance creation in SAP CAL

DB Connection	ERP
DBMS	HDB 
User Name	SAPERP
DB password	***** / *****
Conn. info	vhcalhdbdb:30215
Permanent	<input type="checkbox"/>
Connection Limit	<input type="checkbox"/>
Optimum Conns	<input type="checkbox"/>

4. Save and exist the transaction.



In case you encounter problems due to the fact that the user already has been locked, please perform the following steps:

2.2.2 Procedure

1. Logon to your HANA system using HANA Studio (see chapter 2.5 Connecting to HANA via SAP HANA Studio)
2. In the Navigation pane open your HANA system → Security → Users and double click on the SAP<SID> user (in this case SAPERP)
3. In the new opened window on the right side click on the button “Activate User...”
4. Confirm the popup information.

2.3 Create SSL Server certificate to enable https

For activation of https service it isn't sufficient to maintain the https port only in the *Profile Parameters*. Further you have to create a certificate with trust manager.

2.3.1 Procedure

1. Log on to your SAP ERP system client 120
2. Call transaction **STRUST**
3. Select the SSL Server PSE node
4. Using the context menu, choose *Create* (if no PSE exists) or *Replace*.
5. Enter the Distinguished Name parts for a default SSL server PSE in the corresponding fields.
6. If necessary, modify or delete any of the individual application server's Distinguished Names to meet you own needs.
7. Choose *Enter*

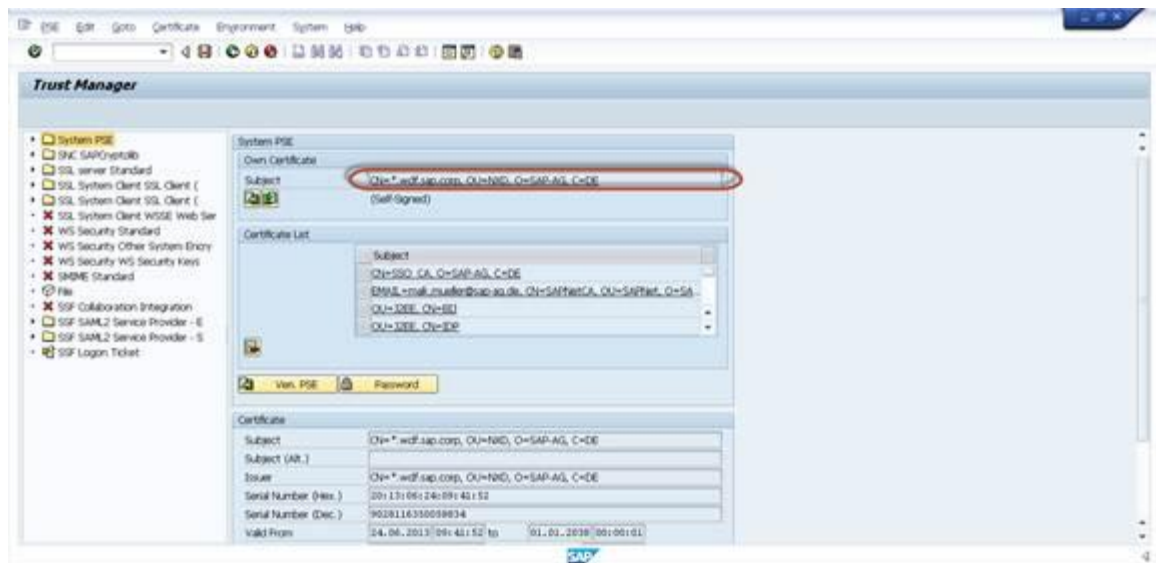
Result

The system creates the SSL server PSEs and distributes them to the individual application servers.

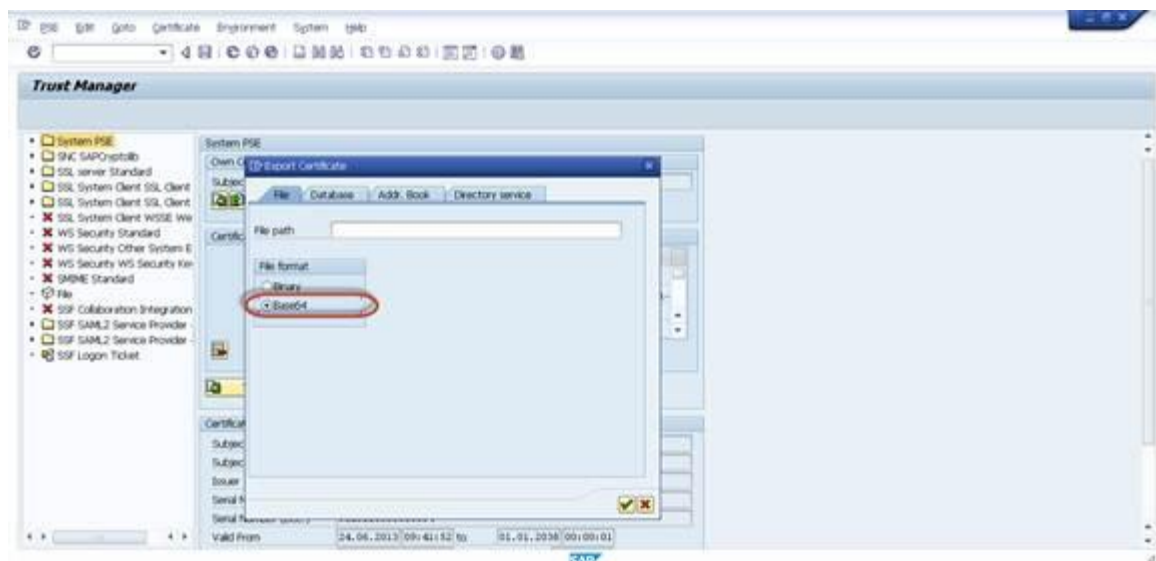
2.4 Downloading certificate from AS ABAP

2.4.1 Procedure

1. Log on to your SAP ERP system client 120
2. Call transaction STRUST
3. On the *Trust Manager* screen, you should see the green node by expanding *System PSE*. This ensures that the system PSE is stored in the database and distributed to application servers.



4. On the right side under System PSE → Own Certificate → Subject double click on the certificate
5. Go to the menu *Certificate* → *Export*.
6. In the *Export Certificate* dialog box, choose 'Base64' file format and save the PSE certificate with a file type of .cer to your local folders.



7. In the *SAP GUI Security* dialog box, choose *Allow*.

2.5 Connecting to HANA via SAP HANA Studio

2.5.1 Procedure

1. Start the installed SAP HANA Studio.
2. Open the *Navigator* view and right click with the mouse in this view and then choose *Add System...*
3. In the *System* wizard, specify the following parameters:

...

Parameter ID	Parameter Value	Note
Hostname	<IP Address>	The IP address of the <i>HANA</i> instance from the SAP Cloud Appliance Library
Instance Number	02	HANA instance number used for the appliance.
User Name	SYSTEM	For the connection to the DB use <i>SYSTEM</i> user.
Password	<Master Password>	The password is the same as the master password provided during instance creation in the SAP Cloud Appliance Library.

The system ID of the database is HDB. It is recognized automatically via the host name.



If you see a system log "**No ScriptServer available**", it does not have impact to the business processes, but you can perform the steps below to start the server

You start the script server while the SAP HANA database is already running. To start the script server perform the following steps:

1. Open the 'Configuration' tab page in the SAP HANA database studio.
2. Expand the 'daemon.ini' configuration file.
3. Expand the 'scriptserver' section.
4. Change the parameter 'instances' from 0 to 1. This change is possible on the system level and on the host level.

Note: The system will start the script server immediately.

Note: You have to start a script server instance for each index server instance.



The chapter 2.6 provides you the steps to enable SSO among the technical components. If you do not perform the steps below, you need to enter user and password again when logging to Fiori Launchpad or logging to HANA XS engine.

2.6 Maintaining SSO with SAP Logon Tickets for SAP HANA XS

SAP HANA applications can use single sign-on (SSO) authentication with SAP logon tickets to confirm the logon credentials of the user calling an application service.

To enable SAP HANA applications to use single sign-on (SSO) authentication with SAP logon tickets to confirm the logon credentials of a user requesting an application service, you must ensure that an SAP server is available that can issue SAP Logon tickets. You also need to maintain the trust store *saplogon.pse*, which holds the SAP logon tickets that are presented when a user logs on to the SAP HANA XS application.

2.6.1 Prerequisites

To configure SAP HANA to use SAP logon tickets authenticate users who log on with SSO, note the following prerequisites:

- You need administrator access to the SAP HANA system hosting the applications to which you want to enable access with SAP logon tickets.
- Administrator access to an ABAP system where you need to maintain the trust store used for the SAP logon tickets.
- The SAP encryption library *libsapcrypto.so* is installed and available.
- The SAP logon trust store (*saplogon.pse*) is available on the SAP HANA system.
- The user is enabled with attribute value *true* of *IS_SAP_LOGON_TICKET_ENABLED*.

Procedure

1. Maintain the trust store that contains the SAP logon tickets. The trust store *saplogon.pse* is used to hold the SAP logon tickets; you maintain this trust store with the SAP trust store generation utility *sapgenpse*. Please use the existing trust store and the respective *saplogon.pse* file in the SAP HANA directory `/usr/sap/<SAPHANAInstance>/HDB<InstNo>/<Hostname>/sec/`.

Add the gateway's own certificate into the existing *saplogon.pse*:

```
/usr/sap/<SID>/SYS/global/security/lib/sapgenpse maintain_pk -a <your certificate name>.cer -p saplogon.pse -x ""
```



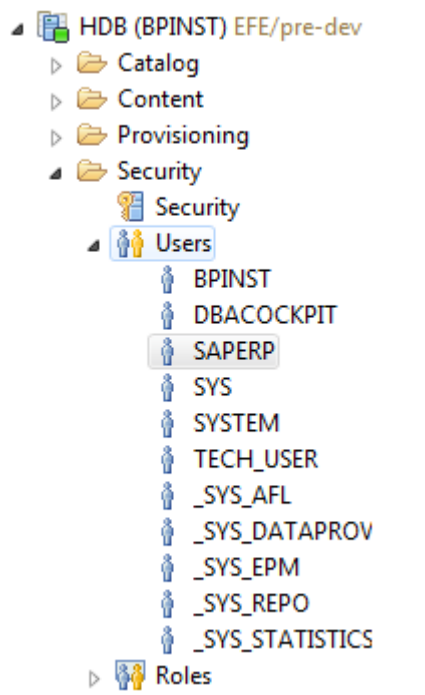
- Regarding how to download the certificate of you gateway, please refer to – *Downloading certificate from AS ABAP*. Please note that you save the certificate as *.cer* format when you save it to your local file.
 - If multiple tickets issuers exist, you can add other root certificates into the *saplogon.pse* as well.
 - By default, *saplogon.pse* is used to verify the logon ticket, we can change following parameter to use another *pse* for the verification.
2. Activate for every user which should be able to authenticate via SAP Logon Ticket the appropriate authentication method via HANA Studio.



The user is enabled with value *true* of *IS_SAP_LOGON_TICKET_ENABLED*. You can verify whether logon ticket access is enabled in system view *USERS*. Check the

values of user table columns IS_SAP_LOGON_TICKET_ENABLED. See screenshots below.

In HANA Studio, navigate to Security→Users. Double click on a user (example, SAPERP)



On the right side, make sure the SAP Logon Ticket is checked.



2.6.2 Enabling Logon Ticket authentication in HANA XS

Procedure

1. Start the *SAP HANA XS Administration Tool*. The *SAP HANA XS Administration Tool* is available on the SAP HANA XS Web server at the following URL:
<http://<vhcaldbhd>:80<SAPHANAinstance>/sap/hana/xs/admin/>.



To maintain security and authentication settings for SAP HANA XS applications, the user also needs the privileges granted by the SAP HANA XS role *RuntimeConfAdministrator*.

2. Under tab *XS Applications*, expand the folder on the left and locate your application. Double click on the service.
3. Choose modification under *Authentication* section.
4. Select *SAP Logon Ticket* with *Ctrl* key on your keyboard.
5. Choose *Save*.

3 Part II. Demo Guide

This following part of this document provides you the necessary information to demonstrate the business processes within the preassembled rapid-deployment solution SAP ERP Foundation Extension. You will be able to experience the newest SAP innovations, such as SAP ERP on HANA, SAP HANA Live, SAP BI and SAP Fiori Apps in a fully integrated enterprise environment.

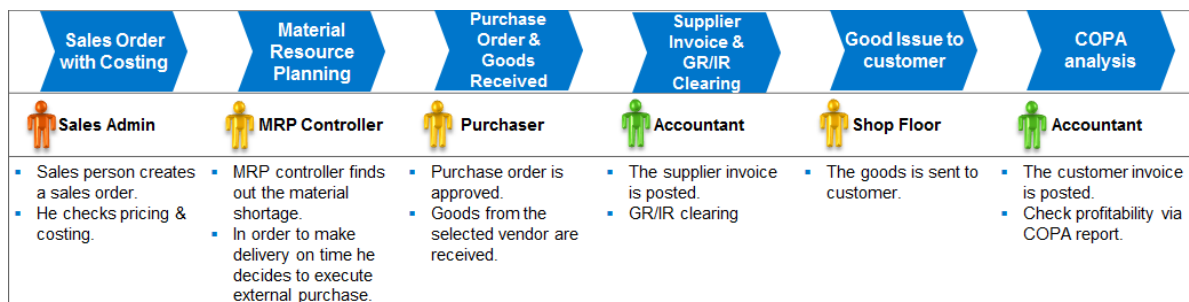
You will be able to:

1. Run one end-to-end business process flow in the demo story variant 1
2. Run production processes in the demo story variant 2
3. Explore even broader scope of SAP HANA Live and SAP Fiori products.

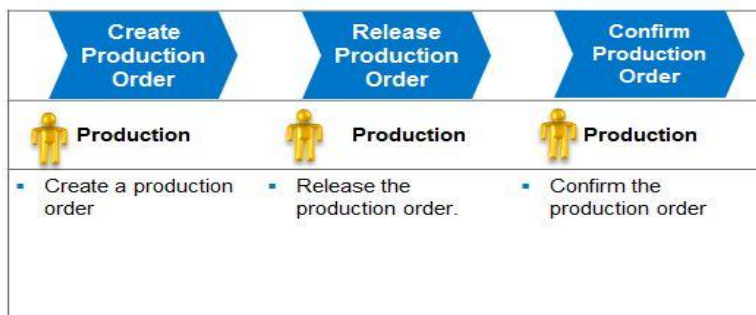
4 The End-to-End Demo Flow

4.1 Demo Story Variants

In the demo story variant 1, the sales representative enters a sales order with shipment date and checks pricing and costs. MRP controller finds out shortage of material. Since it will be too late to produce in house, he decides to purchase from external vendor. The purchase order is approved. Ordered goods are received. The ordered product is shipped to customer and invoice is issued. Meanwhile the supplier invoice is received and tracked. At the end, the CFO checks the profitability in COPA report.







In the demo story variant 2, the production line triggers production order. After production is executed, the production order is confirmed and released.



4.2 System and Log-on Information

You get the system logon information from your system administrator.

Your system administrator should refer to the virtual appliance configuration document “Getting Started with SAP ERP Foundation Extension Demo/Evaluation Appliance on SAP Cloud Appliance Library” attached to the SAP ERP Foundation Extension solution in SAP Cloud Appliance Library for your own system access information.

System		
ERP	Client	120 (US) (end-to-end process for SAP ERP solution localized for USA integrated with SAP HANA Live and SAP Fiori Apps)
	Client	102 (DE) (for German ERP solution)
	Client	180 (for SAP GRC Access Control solution)
	Server	IP address for ERP/HDB
	Instance	00
	Fiori Launchpad	<p>If you have not changed the predefined domain and ports, you can use the default access: https://vhcalhdbdb.dummy.nodomain:1081/sap/bc/ui5_ui5/ui2/ushell/shells/abap/fiorilaunchpad.html</p>  <p>In case you have configured your own domain, then following the format for your own access: <a href="https://vhcalhdbdb.<domain name>:1081/sap/bc/ui5_ui5/ui2/ushell/shells/abap/fiorilaunchpad.html">https://vhcalhdbdb.<domain name>:1081/sap/bc/ui5_ui5/ui2/ushell/shells/abap/fiorilaunchpad.html</p>
KPI modeler for Smart Business Analytics App	<p>If you have not changed the predefined domain and ports, you can use the default access: https://vhcalhdbdb.dummy.nodomain:1081/sap/bc/ui5_ui5/sap/ca_kpi/modeler/index.html</p>  <p>In case you have configured your own domain, then following the format for your own access: <a href="https://vhcalhdbdb.<domain name>:1081/sap/bc/ui5_ui5/sap/ca_kpi/modeler/index.html">https://vhcalhdbdb.<domain name>:1081/sap/bc/ui5_ui5/sap/ca_kpi/modeler/index.html</p>	
GR/IR Cockpit	<p>If you have not changed the predefined domain and ports, you can use the default access: https://vhcalhdbdb.dummy.nodomain:4302/sap/hba/apps/grircm/WebContent/index.html?sap-client=120&sap-language=EN</p> <p>In which, 4302 is the default SAP HANA XS engine port.(43 is for https; 02 is the HDB instance number)</p>  <p>In case you have configured your own domain and port, then following the format for your own access: <a href="https://vhcalhdbdb.<domain name>:<port>/sap/hba/apps/grircm/WebContent/index.html?sap-client=120&sap-language=EN">https://vhcalhdbdb.<domain name>:<port>/sap/hba/apps/grircm/WebContent/index.html?sap-client=120&sap-language=EN</p>	
BIP	<p>BI Launchpad</p> <p>If you have not changed the predefined domain and ports, you can use the default access: http://bihost:8080/BOE/BI</p>  <p>In case you have configured your own domain and ports, then following the format for your own access: <a href="https://bihost.<domain name>:<port>/BOE/BI">https://bihost.<domain name>:<port>/BOE/BI</p>	

For all components, please use the following user/password:

User: BPINST

Password: Welcome1



The steps described in the virtual appliance configuration document “Getting Started with SAP ERP Foundation Extension Appliance on SAP Cloud Appliance Library” should have been performed by your system administrator. The following steps are only to remind you about the necessary settings should be performed.

On your local machine, please ensure

- You have installed SAP GUI.

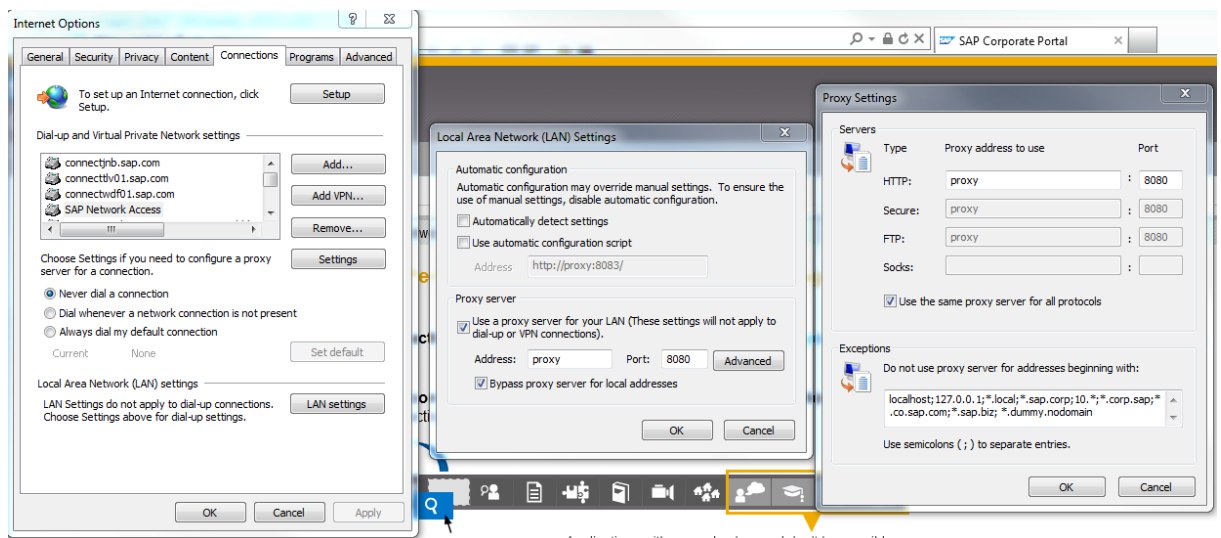
- You need to map IP address to Hosts.
 1. Open the “hosts” file of your operating system (you need to open Notepad as administrator via right mouse click):
 - For Windows operating system:
c:\windows\system32\drivers\etc\hosts
and hit Ctrl Shift Enter.
 - For Linux operating system: /etc/hosts
 2. Enter the following lines in the hosts file and save it:


```
# ERP and HDB
<IP Address ERP/HDB server>   vhcalerpci   vhcalerpci.<Domain
Name>
<IP Address ERP/HDB server>   vhcalhdbdb  vhcalhdbdb.<Domain
Name>
# BI Platform
<IP Address BI Host server>    bihost bihost.<Domain Name>
```

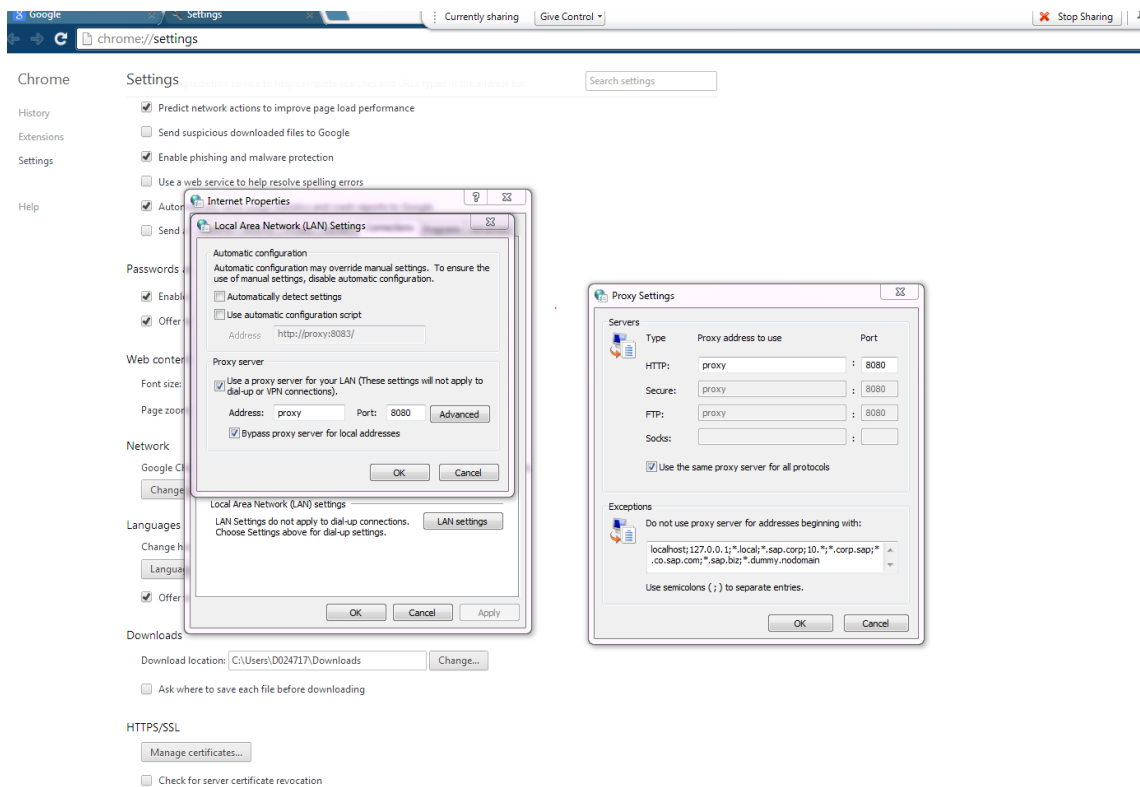
The predefined domain name is *dummy.nodomain*. If you do not want to change the default settings, you can map the hosts name to IP addresses as the following:

```
# ERP and HDB
<IP Address ERP/HDB server>   vhcalerpci vhcalerpci.dummy.nodomain
vhcalhdbdb vhcalhdbdb.dummy.nodomain
# BI Platform
<IP Address BI Host server>    bihost bihost.dummy.nodomain
```

- If you use the predefined domain and port (dummy.nodomain), then you need to make the following example adjustment on your internet browser.



Another example for Google Chrome:



4.3 Demo Readiness

4.3.1 Available Business Configuration and Master Data

The necessary business configuration and master data have been implemented completely in client 120 of the Fully Activated preassembled rapid-deployment solution for SAP ERP Foundation Extension.

If the system reports, that “postings in the current period are not possible”, you need to check the transaction “Close Periods”. Note that only 2 periods can be open and active for material postings. In case of doubts, please ask your system admin to open the current period (transactions MMPV and/or OMSY).

The material S900-1 has been created for the demo purpose. It can be produced internally as well as purchased externally. Please refer to appendix of this document for all the details about material S900-1 – also to reference how other materials can be prepared.


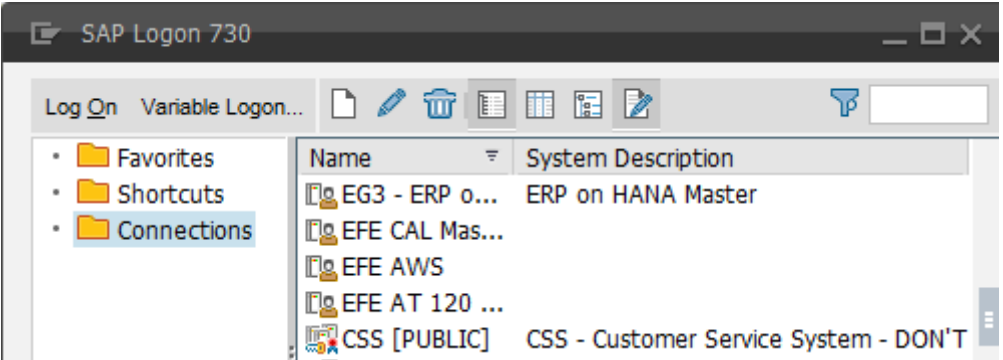
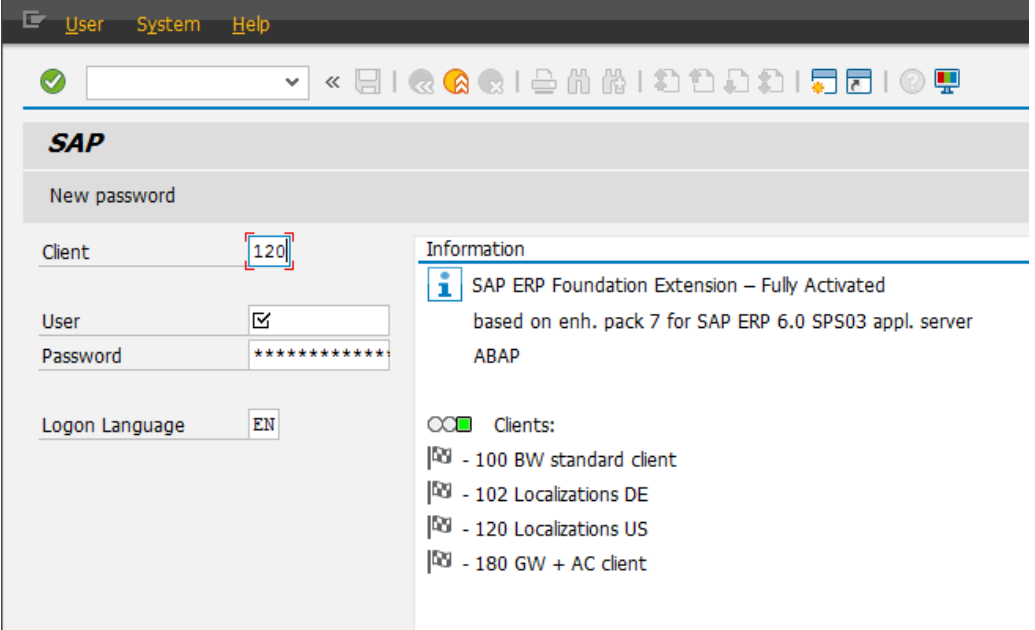
Note that for the Purchase Order Approval steps, all purchase orders with value equals or more than 500 local currency needs to be approved.

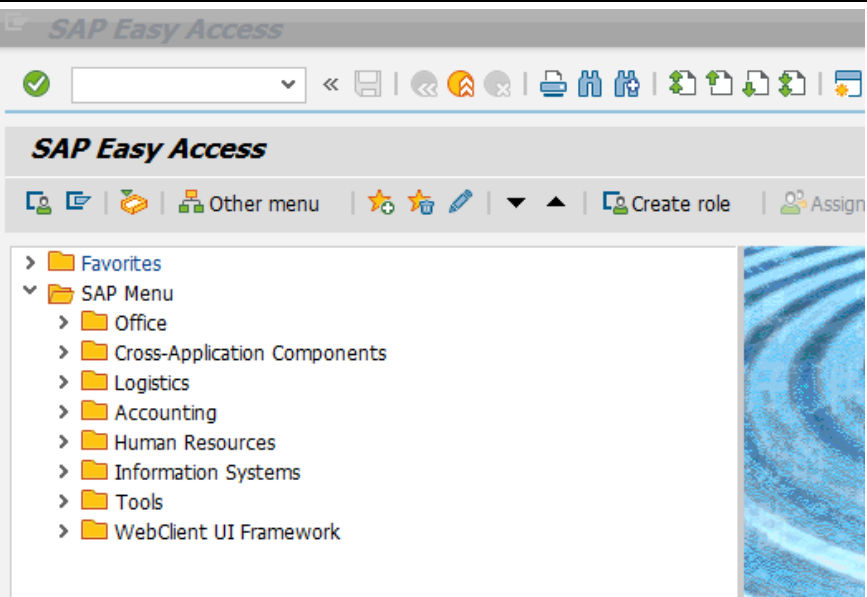
Note, that multiple people working with the same material can create some conflicts in the demand – supply situation. So please make sure, that no serious conflicts exist for a live demo. Optionally can always check the current “demand-supply situation of S900-1 in ERP (TX MD04)

4.4 Demo Story Variant 1

4.4.1 Log-on to systems

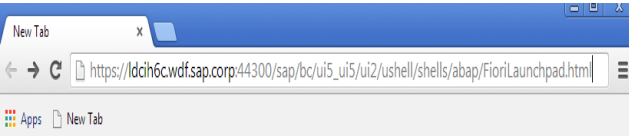
In the following steps, you log-on to the related systems with the user and password provided by your system administrator.


What To Do	What you will see
Log on to SAP ERP	
Choose SAP Logon icon	
Select and double click your SAP system, e.g., SAP EFE	
Enter Client: User: Password: Language:	

<p>Log-on to the SAP Easy Access</p> <p>(note that the following ERP screens are created in “Corbu Design” (GUI-visualization setting))</p>	
---	--


Log on to Fiori Launchpad

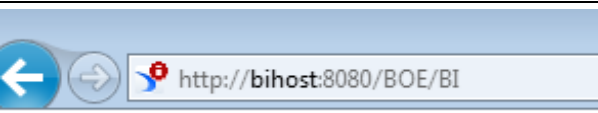
<p>Open internet browser, e.g. Google Chrome</p>	
--	---

<p>Enter your Fiori Launchpad address</p>	
---	--

<p>Enter User Password Client to access the Fiori Launch page</p>	
--	--

Log on to BI Launchpad

<p>Open internet browser, e.g. Google Chrome</p>	 <p>Workaround if your browser doesn't allow you to scroll on launch pad: Expand App list on the left side of the screen and access Apps from there</p>
--	--

<p>Enter the BI launch pad address</p>	
--	--

Enter
User Name:
Password:
Authentication:
Enterprise
to access the
SAP
BusinessObjects
BI launch pad



SAP BusinessObjects
BI launch pad

Enter your user information, and click "Log On".
If you are unsure of your account information, contact your system administrator.

System:

User Name:

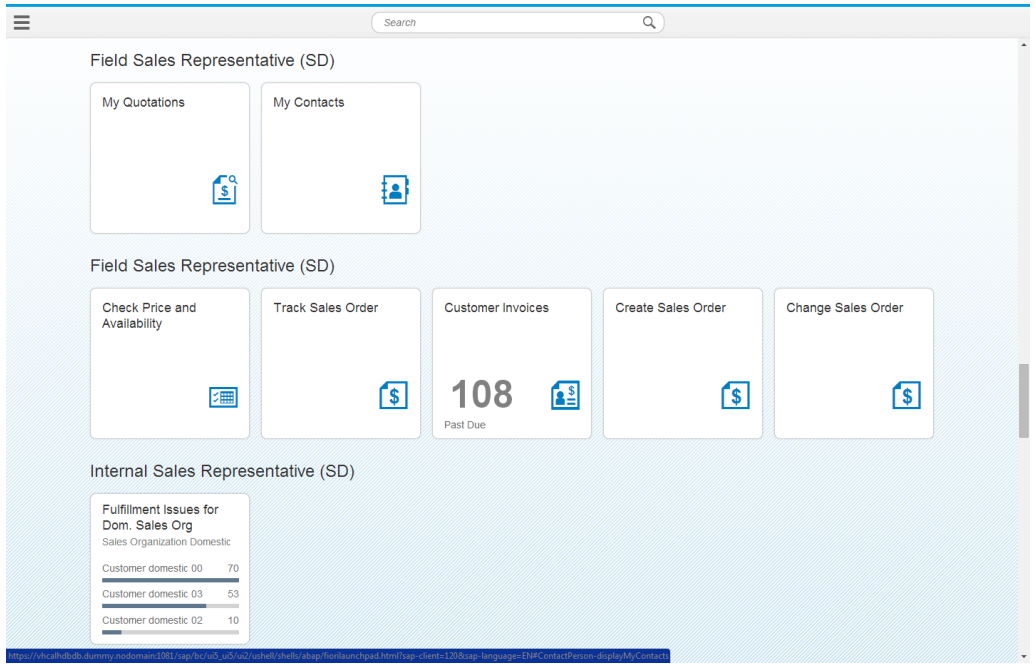
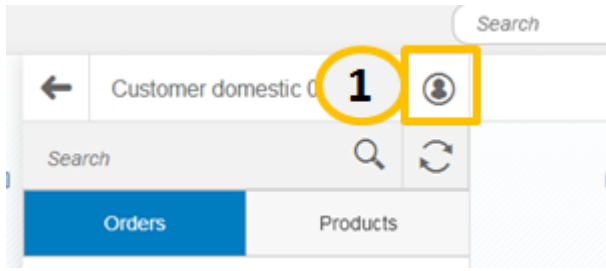

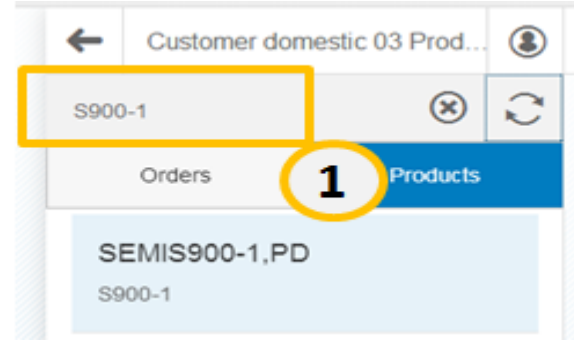
Password:

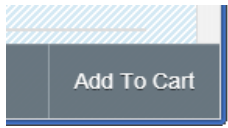

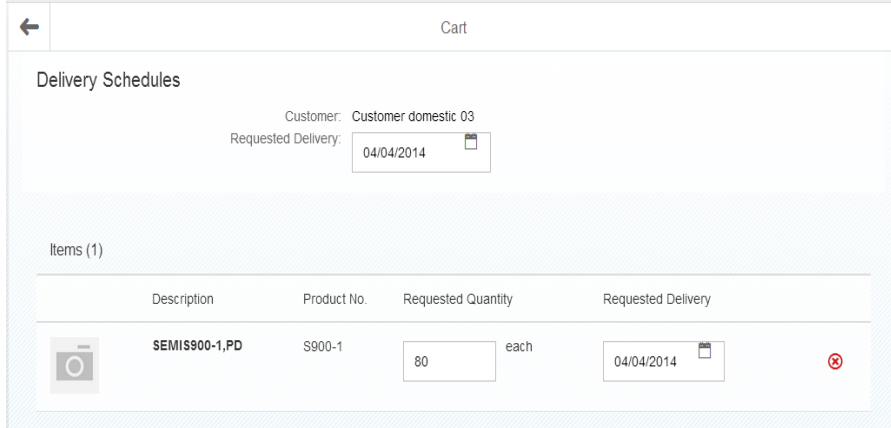

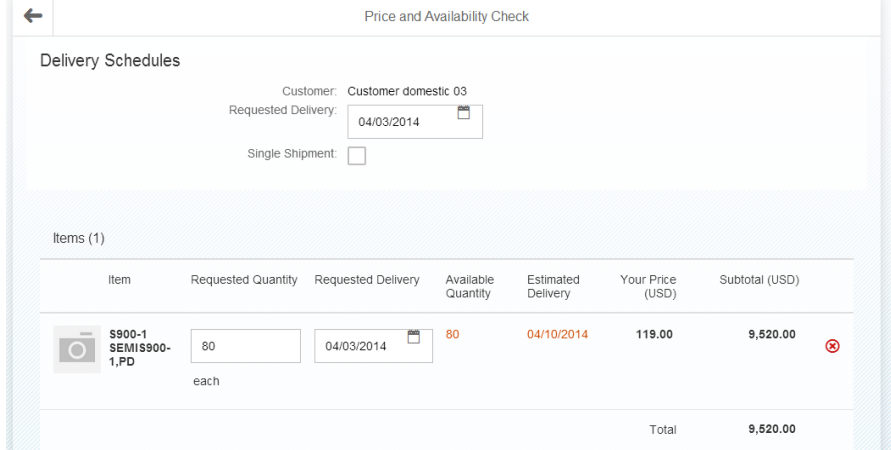
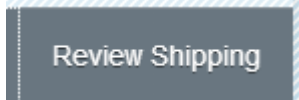
Authentication: 

 [Help](#)

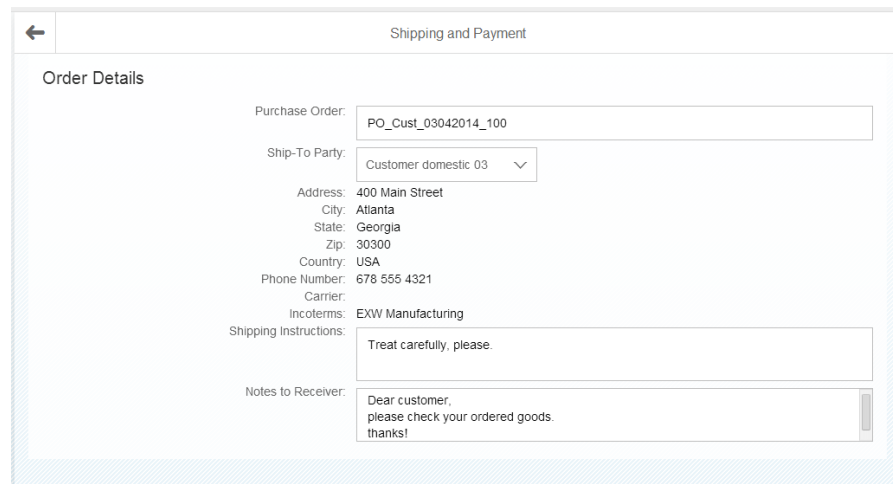
4.4.2 Fiori App -- Create Sales Order

In this step you will create a sales order with Fiori App.

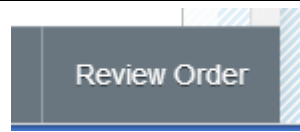
<h3>What To Do</h3>	<h3>What you will see</h3>
<p>Click the Fiori App <i>Create Sales Order</i></p>	
<p>Choose the icon <i>Customer</i> Select the <i>Customer domestic 00 (100000)</i></p>	
<p>Choose OK</p>	
<p>Choose <i>Products</i> and in the search field enter material <i>S900-1</i></p>	

<p>Choose <i>Add To Cart</i></p>	
<p>Choose the cart</p>	
<p>Enter <i>80</i> (or another amount of quantity) in the <i>Requested Quantity</i> field</p>	
<p>Choose <i>Checkout</i></p>	
<p>Review <i>Price and Availability Check</i> information</p>	
<p>Choose <i>Review Shipping</i></p>	

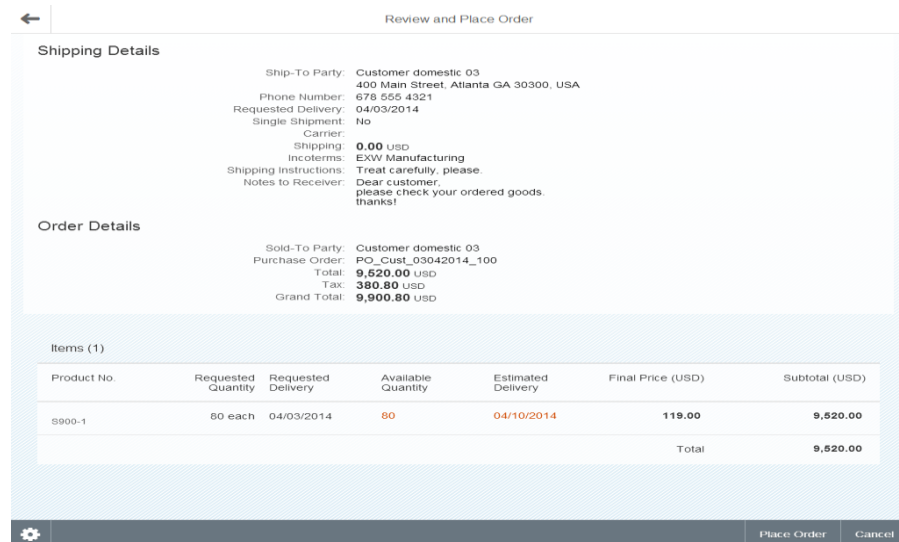
In the *Shipping and Payment* screen, you can enter information, e.g. *Purchase Order; Shipping Instructions; Notes to Receiver*



Choose *Review Order*

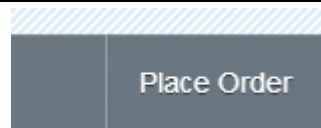


You can check the order information

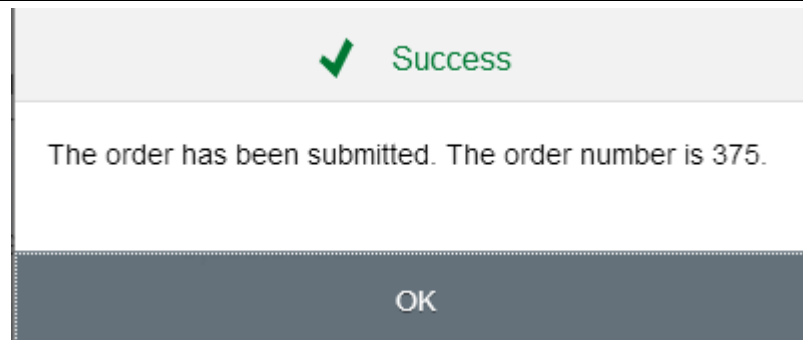


Product No.	Requested Quantity	Requested Delivery	Available Quantity	Estimated Delivery	Final Price (USD)	Subtotal (USD)
S900-1	80 each	04/03/2014	80	04/10/2014	119.00	9,520.00
Total						9,520.00

Choose *Place Order*

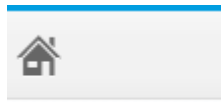


You get system information about the order number. Please note down this **SO number**.



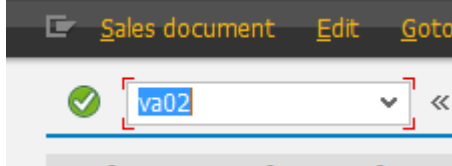
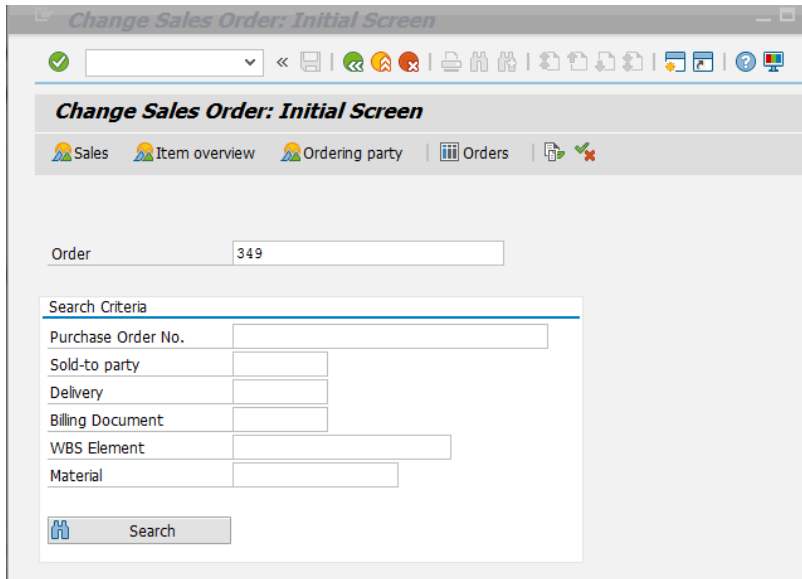
Choose *OK*.

Choose the *Home* icon to return to the Fiori launch page.



4.4.3 Sales Order Costing and Pricing

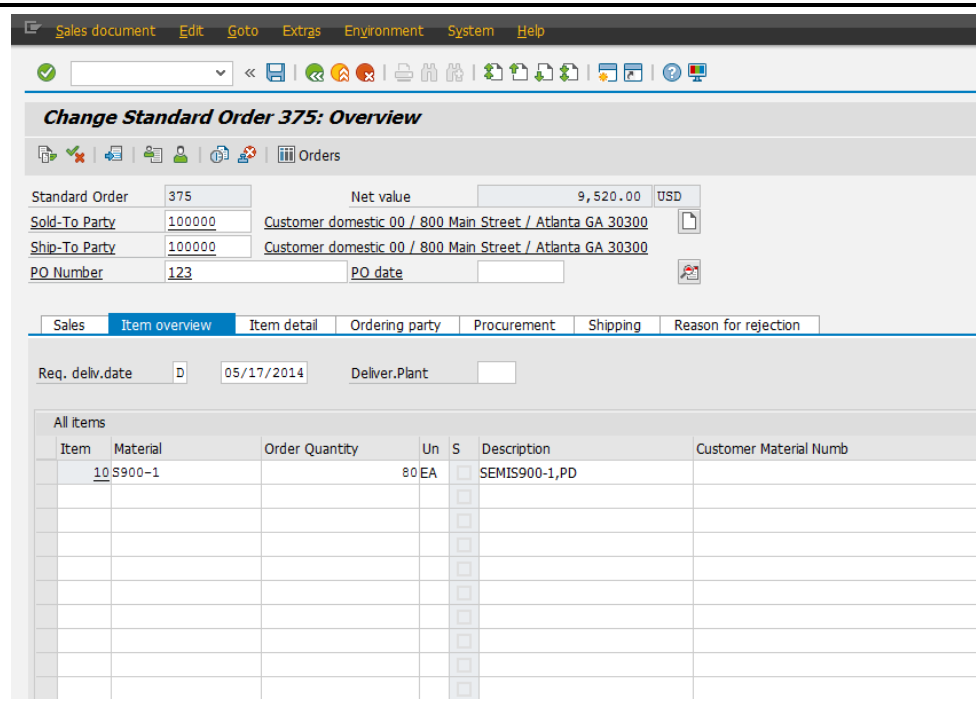
In this step you will check the costing and pricing information of the previously created sales order in SAP ERP system.

What To Do	What you will see
<p>In SAP Easy Access, enter the T-code: VA02</p>	
<p>Enter the order number you created previously and press ENTER</p>	

You can view the sales order information.

Note:
Enter a random value in field PO Number e.g. "123"; "abc"; etc.

(You might want to enter Storage Location 1020 at this place, with double click on item 10 – go to tab shipping and enter select storage location 1020)



Change Standard Order 375: Overview

Standard Order: 375 Net value: 9,520.00 USD

Sold-To Party: 100000 Customer domestic 00 / 800 Main Street / Atlanta GA 30300

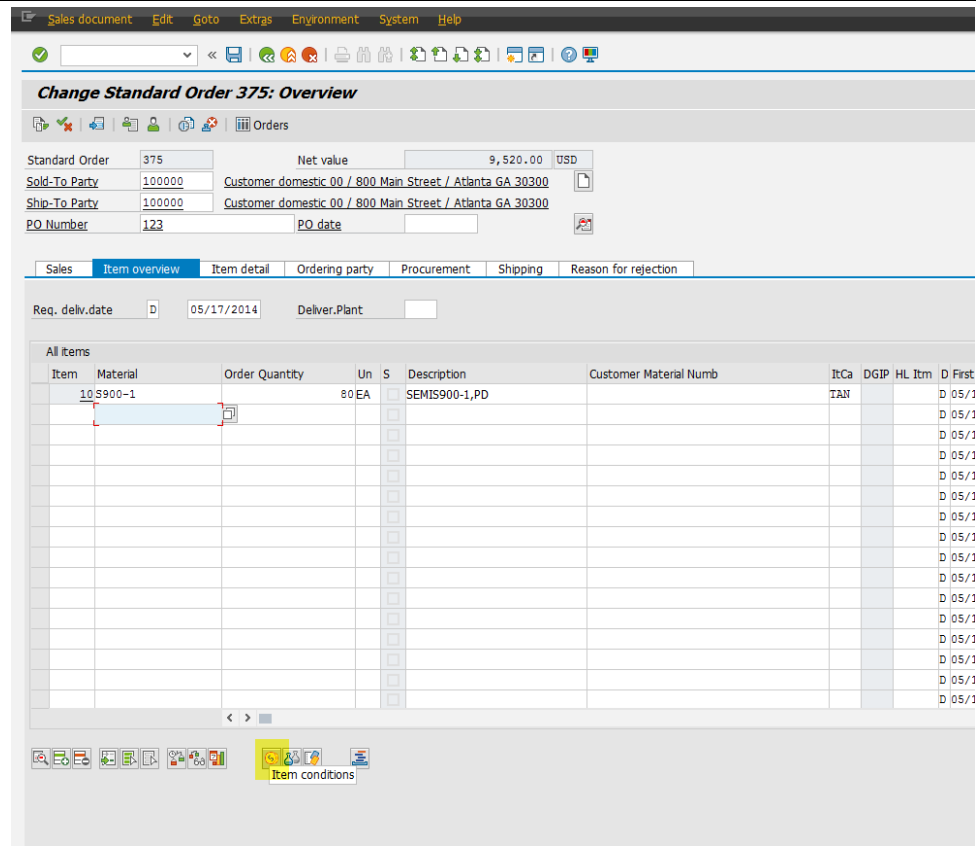
Ship-To Party: 100000 Customer domestic 00 / 800 Main Street / Atlanta GA 30300

PO Number: 123 PO date:

Req. deliv.date: D 05/17/2014 Deliver.Plant:

Item	Material	Order Quantity	Un	S	Description	Customer Material Numb
10	10S900-1	80	EA	<input type="checkbox"/>	SEMIS900-1,PD	

In the same screen, choose icon **Item Conditions**



Change Standard Order 375: Overview

Standard Order: 375 Net value: 9,520.00 USD

Sold-To Party: 100000 Customer domestic 00 / 800 Main Street / Atlanta GA 30300

Ship-To Party: 100000 Customer domestic 00 / 800 Main Street / Atlanta GA 30300

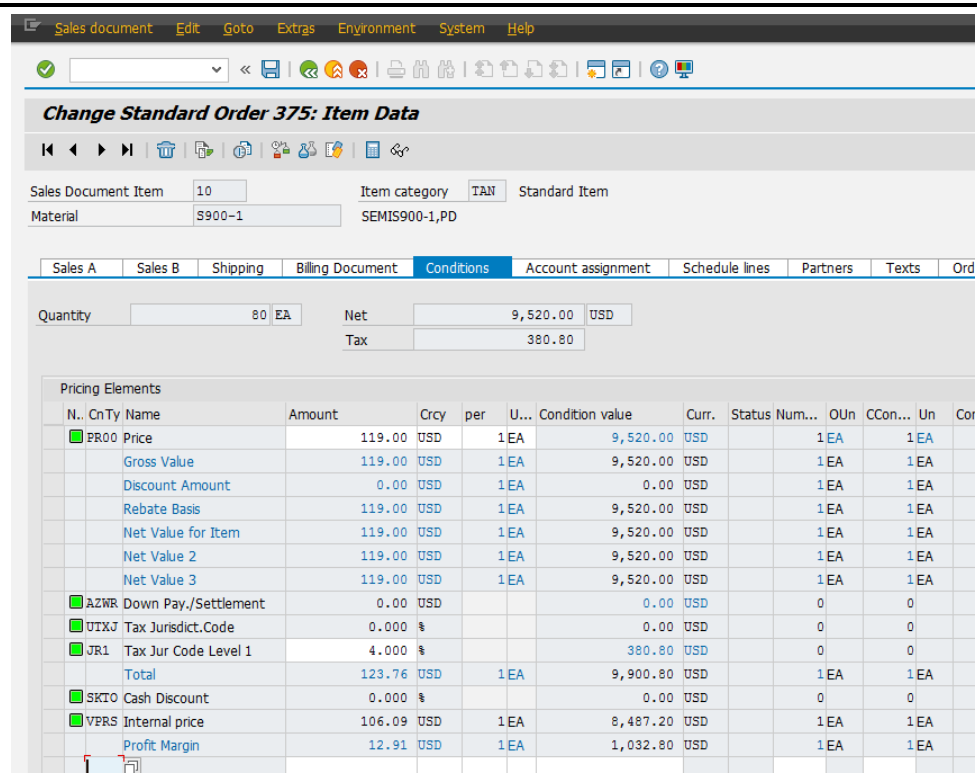
PO Number: 123 PO date:

Req. deliv.date: D 05/17/2014 Deliver.Plant:

Item	Material	Order Quantity	Un	S	Description	Customer Material Numb	ItCa	DGIP	HL	Item	D
10	10S900-1	80	EA	<input type="checkbox"/>	SEMIS900-1,PD		ITAN				D 05/1

Item conditions icon highlighted in the bottom toolbar.

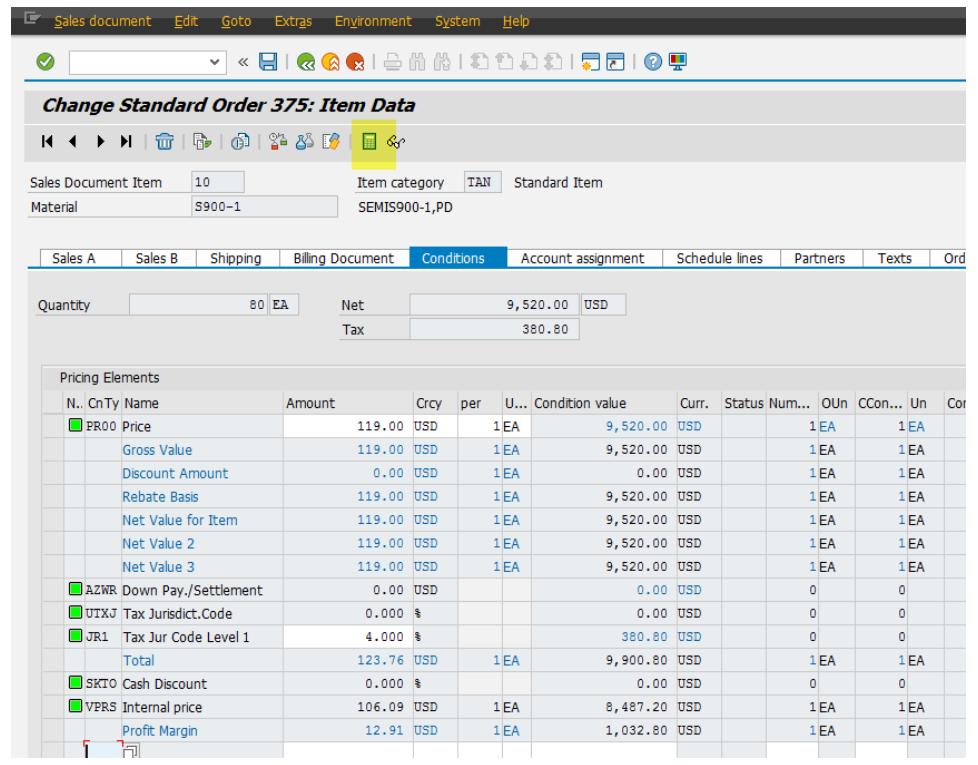
You can view the condition details, like the Sales Price and expected profit margin.



The screenshot shows the 'Change Standard Order 375: Item Data' interface. The 'Conditions' tab is active, displaying a table of pricing elements. The 'Sales Document Item' is 10, 'Material' is S900-1, and 'Item category' is TAN. The quantity is 80 EA, with a net value of 9,520.00 USD and a tax of 380.80. The pricing elements table includes:

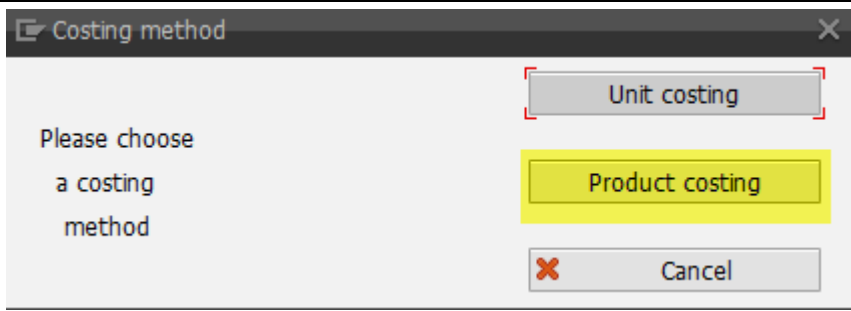
N.. CnTy	Name	Amount	Crcy	per	U...	Condition value	Curr.	Status Num...	OU n	CCon...	Un	Cor
PR00	Price	119.00	USD		1 EA	9,520.00	USD		1 EA		1 EA	
	Gross Value	119.00	USD		1 EA	9,520.00	USD		1 EA		1 EA	
	Discount Amount	0.00	USD		1 EA	0.00	USD		1 EA		1 EA	
	Rebate Basis	119.00	USD		1 EA	9,520.00	USD		1 EA		1 EA	
	Net Value for Item	119.00	USD		1 EA	9,520.00	USD		1 EA		1 EA	
	Net Value 2	119.00	USD		1 EA	9,520.00	USD		1 EA		1 EA	
	Net Value 3	119.00	USD		1 EA	9,520.00	USD		1 EA		1 EA	
AZWR	Down Pay./Settlement	0.00	USD			0.00	USD		0		0	
UTXJ	Tax Jurisdiction Code	0.000	€			0.00	USD		0		0	
UR1	Tax Jur Code Level 1	4.000	€			380.80	USD		0		0	
	Total	123.76	USD		1 EA	9,900.80	USD		1 EA		1 EA	
SKIO	Cash Discount	0.000	€			0.00	USD		0		0	
VPRS	Internal price	106.09	USD		1 EA	8,487.20	USD		1 EA		1 EA	
	Profit Margin	12.91	USD		1 EA	1,032.80	USD		1 EA		1 EA	

To update the Sales Order with the most current Product Costing, choose the icon *Costing*



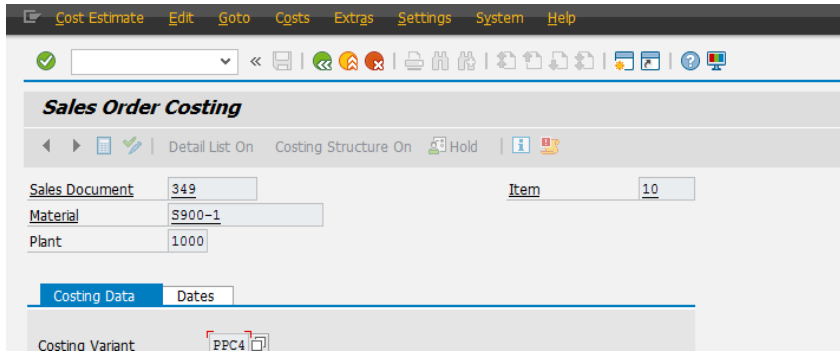
This screenshot is identical to the one above, but with a yellow highlight on the 'Costing' icon (represented by a document with a dollar sign) in the top toolbar of the 'Conditions' tab.

Select *Product costing* and press *ENTER*

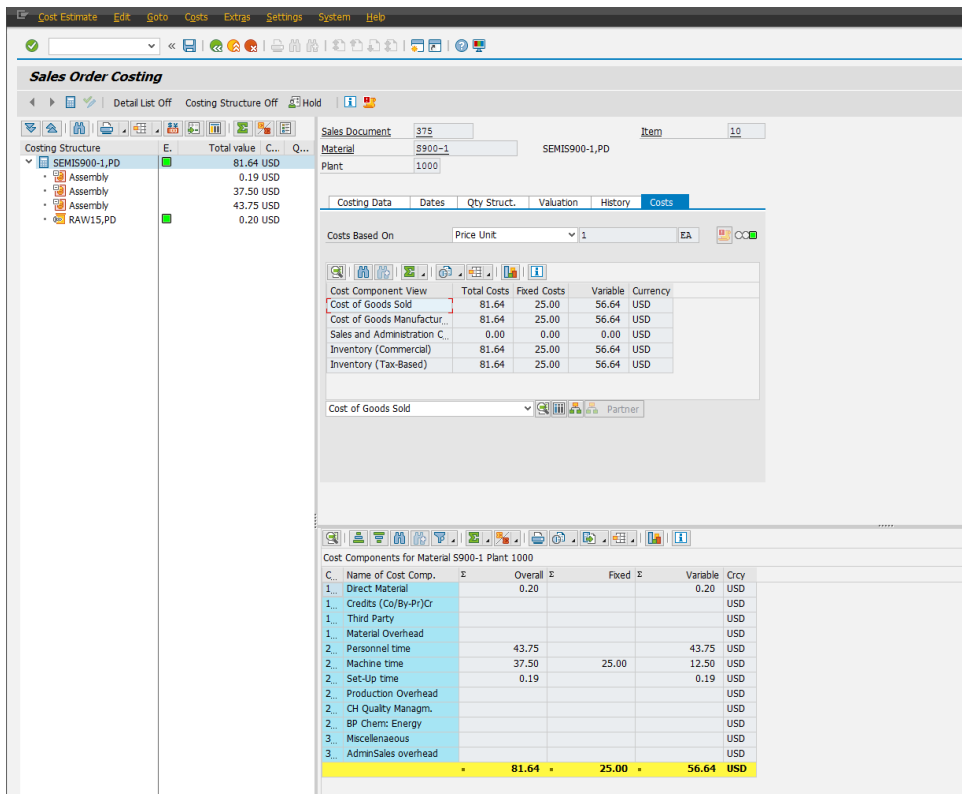


In the *Sales Order Costing* screen, select *Costing Variant "PPC4"*

Transfer Control "PC03" is being set automatically
 press *ENTER*



By expanding the Sales Order Costing structure tree, you will be able to see the detailed cost structure (note there is a button to show all items incl. Assembly cost). You might want to set the costing based on the Price Unit (=1) in tab COSTS.



Save the Sales Order Costing. After Saving the most current Costing, please navigate the Item Conditions, now you are able to view an updated Profit Margin (in this case: 119 USD – 81,64 USD = 37,36 per EA)

Sales document Edit Goto Extras Environment System Help

Change Standard Order 375: Item Data

Item category: TAN Standard Item
Material: S900-1 SEMIS900-1,PD

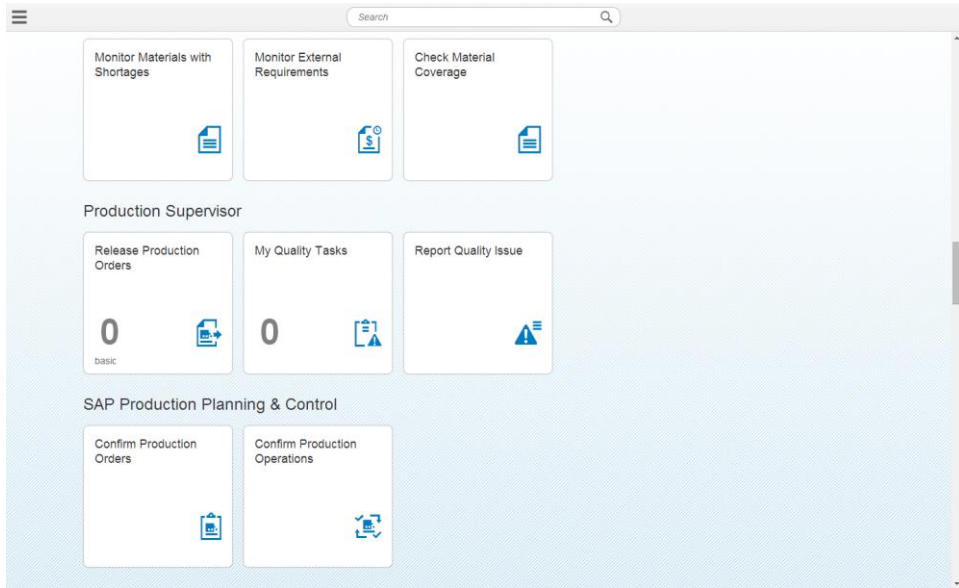
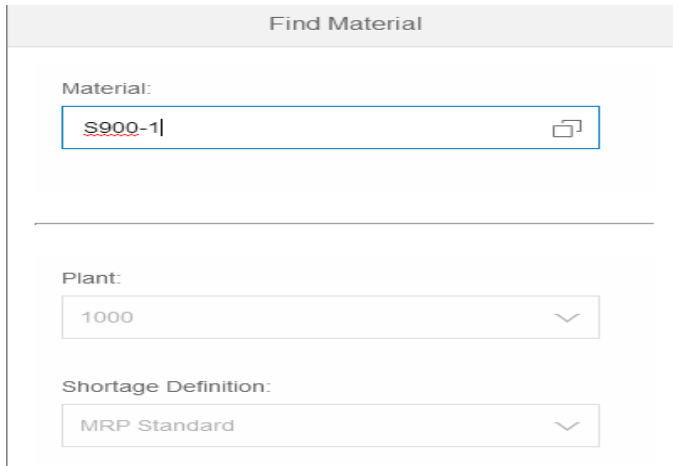
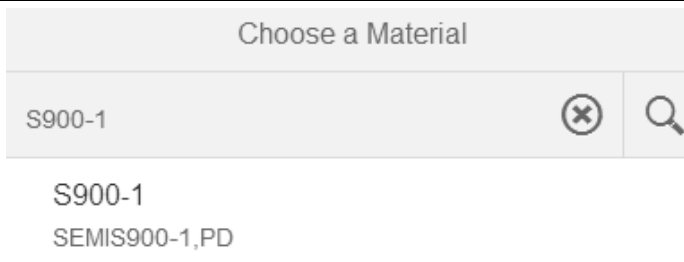
Sales A Sales B Shipping Billing Document **Conditions** Account assignment Schedule lines Partners Texts Order Data Status

Quantity: 80 EA Net: 9,520.00 USD Tax: 380.80

Pricing Elements														
N.. CnTy	Name	Amount	Crcy	per	U...	Condition value	Curr.	Status	Num...	OUn	CCon...	Un	Condition value	CdCur
PR00	Price	119.00	USD		1 EA	9,520.00	USD			1 EA		1 EA	0.00	
	Gross Value	119.00	USD		1 EA	9,520.00	USD			1 EA		1 EA	0.00	
	Discount Amount	0.00	USD		1 EA	0.00	USD			1 EA		1 EA	0.00	
	Rebate Basis	119.00	USD		1 EA	9,520.00	USD			1 EA		1 EA	0.00	
	Net Value for Item	119.00	USD		1 EA	9,520.00	USD			1 EA		1 EA	0.00	
	Net Value 2	119.00	USD		1 EA	9,520.00	USD			1 EA		1 EA	0.00	
	Net Value 3	119.00	USD		1 EA	9,520.00	USD			1 EA		1 EA	0.00	
AZWR	Down Pay./Settlement	0.00	USD			0.00	USD			0		0	0.00	
UIXJ	Tax Jurisdict.Code	0.000	%			0.00	USD			0		0	0.00	
JR1	Tax Jur Code Level 1	4.000	%			380.80	USD			0		0	0.00	
	Total	123.76	USD		1 EA	9,900.80	USD			1 EA		1 EA	0.00	
SKTO	Cash Discount	0.000	%			0.00	USD			0		0	0.00	
VPRS	Internal price	106.09	USD		1 EA	8,487.20	USD			1 EA		1 EA	8,487.20	USD
EK02	Calculated costs	81.64	USD		1 EA	6,531.20	USD			1 EA		1 EA	0.00	
	Profit Margin	37.36	USD		1 EA	2,988.80	USD			1 EA		1 EA	0.00	

4.4.4 Fiori App -- MRP – Check Material Coverage

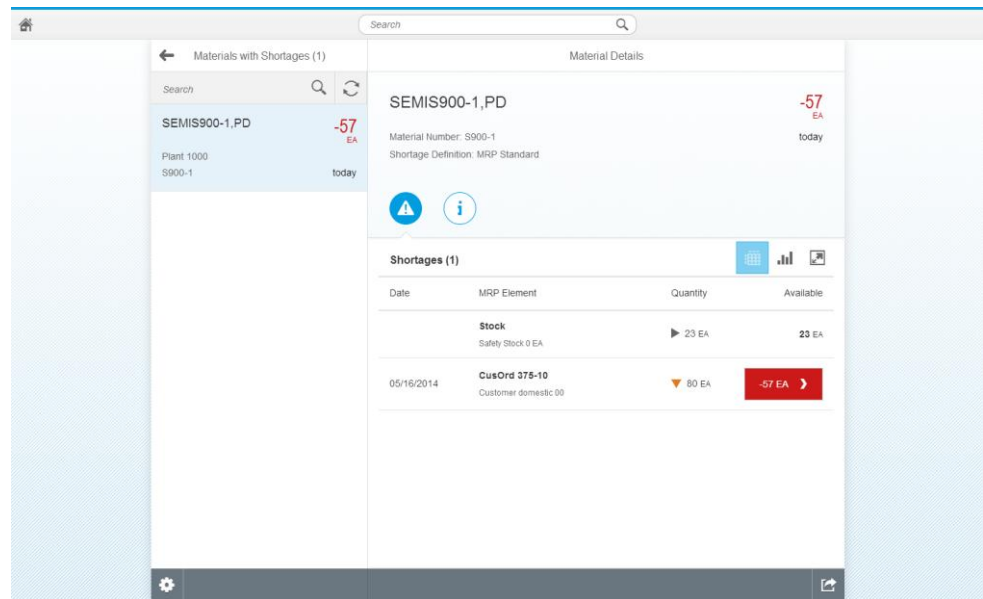
In this step you are taking the role of an MRP Controller. You will check the material shortage for your Sales Order and solve the problem by executing external purchase with Fiori App. (Instead of Inhouse Production, we chose an external procurement, like a Make or Buy decision)

<p>What To Do</p>	<p>What you will see</p>
<p>Click the Fiori App: <i>Check Material Coverage</i></p>	
<p>In <i>Find Material</i>, enter <i>Material</i> : S900-1 <i>Plant</i>: 1000</p>	
<p>Select the material S900-1 And choose <i>OK</i></p>	

Now you have the overview of the requirements and shortages for material S900-1

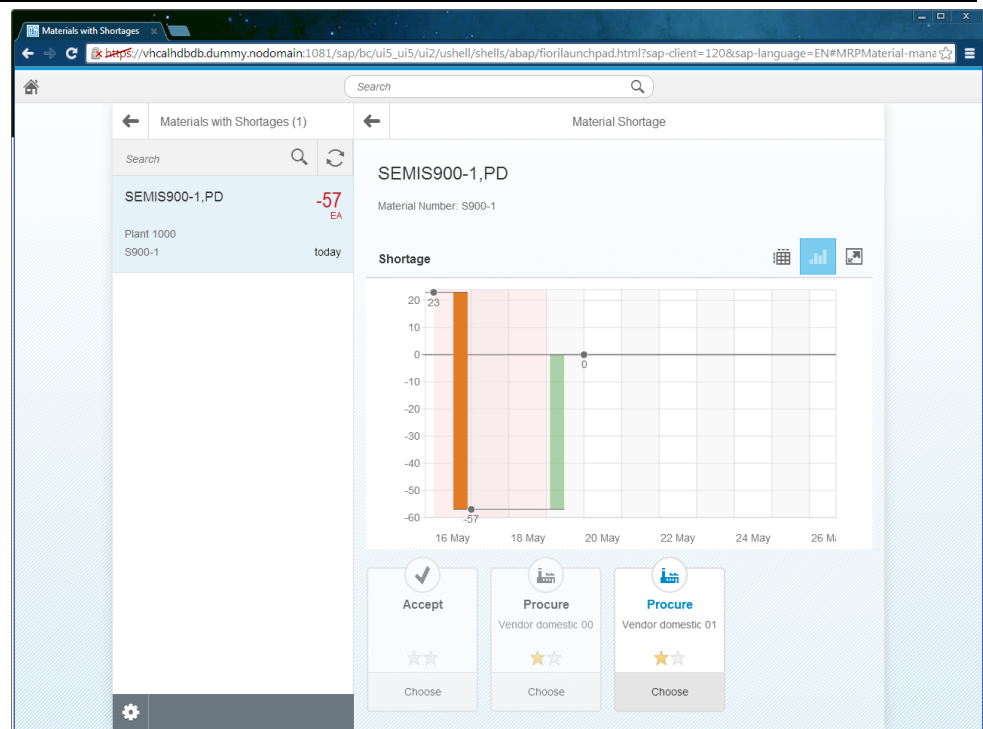
Choose the red button to manage the shortage

(Note that depending on your demand – supply situation, there might be different figures. Make sure, that you have uncovered Sales Orders – otherwise you have no red shortage button! – depending on your historic system settings you might have to open the right period, and checkout for old postings)

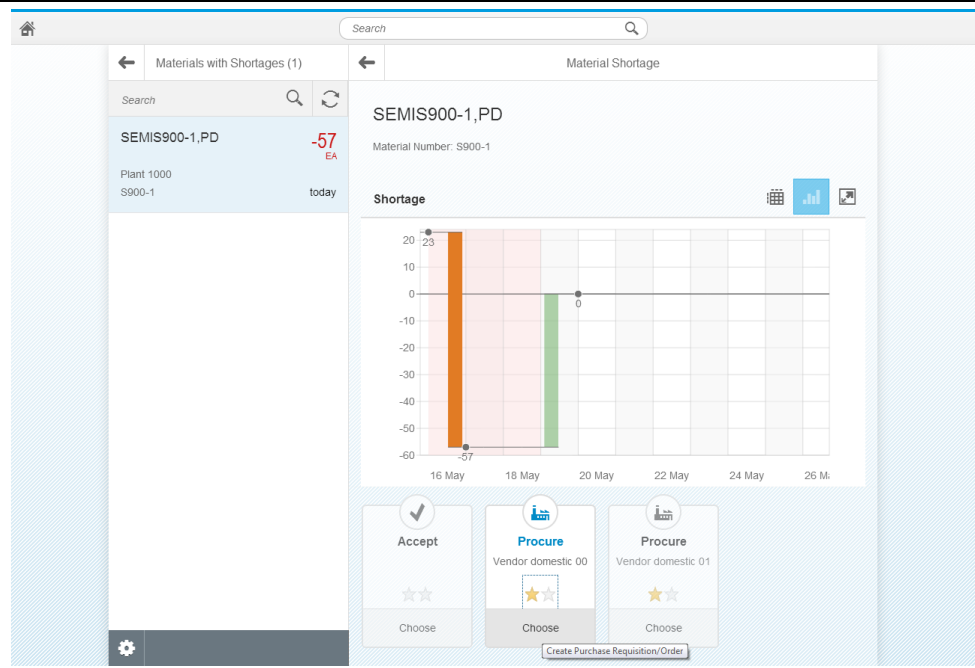


The system proposes several choices to deal with the total material shortage on the particular date. When clicking inb the chart button and highlighting the options (like “Procure”) you can either accept the shortage, or procure from vendors.

Choose the bar chart icon to view a graphic visualization.



Choose *Procure* from vendor *domestic 00*
And select *Choose*



Materials with Shortages (1)

SEMIS900-1,PD -57 EA today

Plant 1000 S900-1

Material Shortage

SEMIS900-1,PD
Material Number: S900-1

Shortage

20
10
0
-10
-20
-30
-40
-50
-60

16 May 18 May 20 May 22 May 24 May 26 M

Accept Procure Procure

Vendor domestic 00 Vendor domestic 01

Choose Choose Choose

Create Purchase Requisition/Order

Check and confirm information in the *Create Purchase Requisition/Order* screen, confirm the required quantity and select “Create Order”, then Choose OK

Create Purchase Requisition/Order

Vendor: Vendor domestic 00

Delivery Date: 05/27/2014

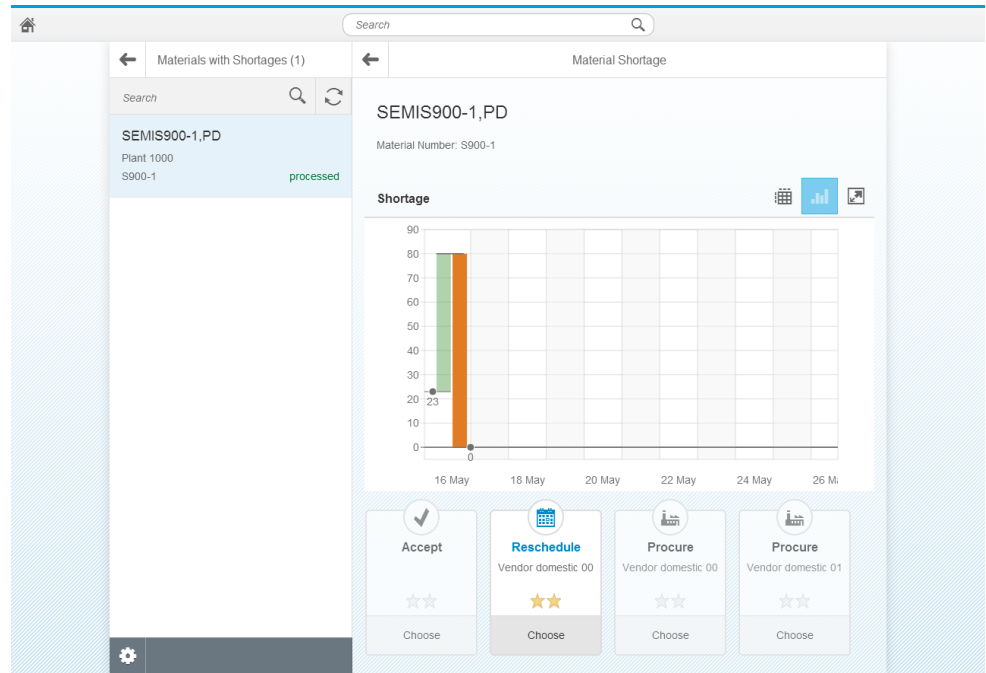
Quantity: 57 EA

Create Order:

Create Requisition:

OK Cancel

After getting system information "Purchase Order has been created successfully", you can see the changes presented in graphic too. You can see that the issue is resolved, and that the status is "processed".

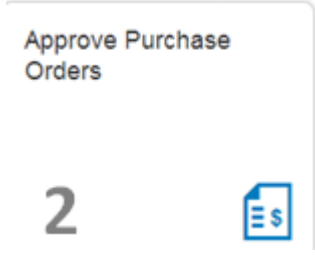
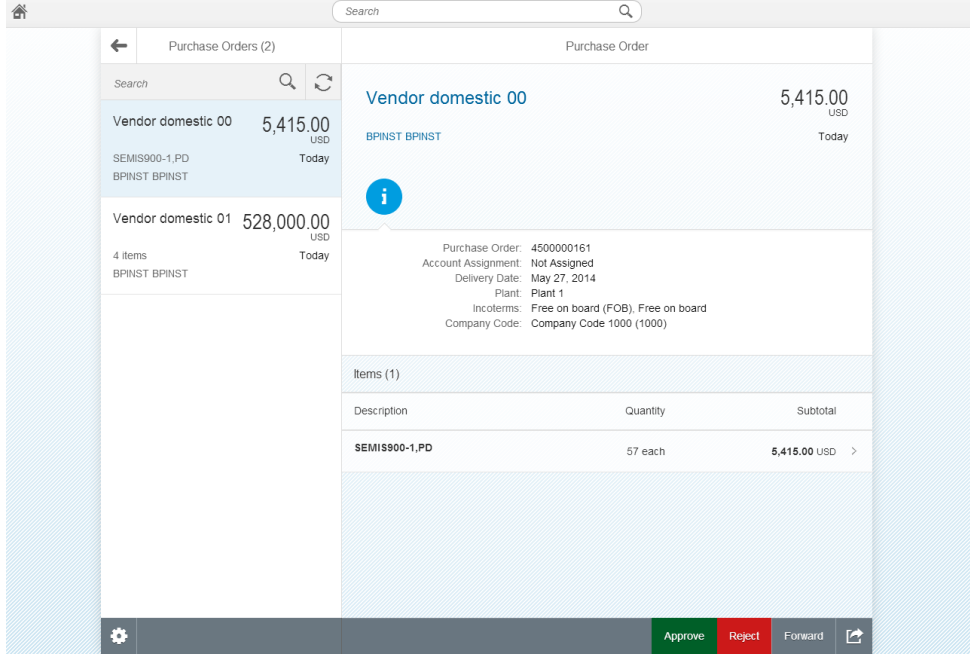
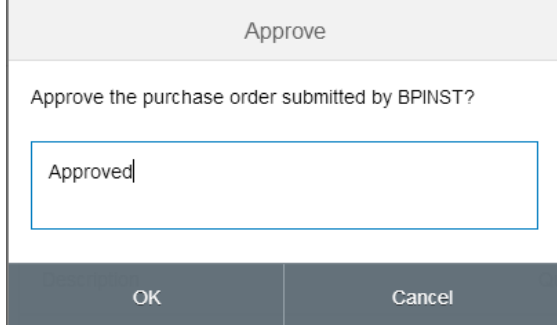


Choose the Home icon to return to the Fiori launch page.



4.4.5 Fiori App -- Approve Purchase Order

In this step you will approve the purchase order created previously with Fiori App. Note, that all POs which exceed a certain amount (e.g. 500,-) need to be approved by a Purchasing Manager.

<p>What To Do</p>	<p>What you will see</p>
<p>Click <i>Approve Purchase Orders</i> Fiori App</p>	
<p>Select your purchase order, take a note of the PO number and choose <i>Approve</i></p> <p><i>PO number:</i></p> <hr/>	
<p>Enter an individual approval text and choose <i>OK</i></p>	

Choose the Home icon to return to the Fiori launch page



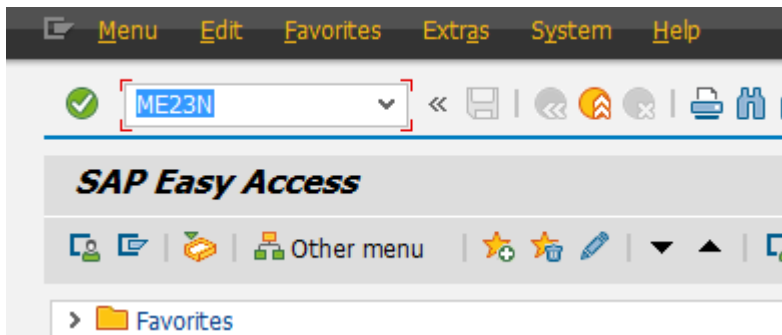
4.4.6 Post Goods Entry to Stock

In this step you will post the goods entry to stock in SAP ERP system.

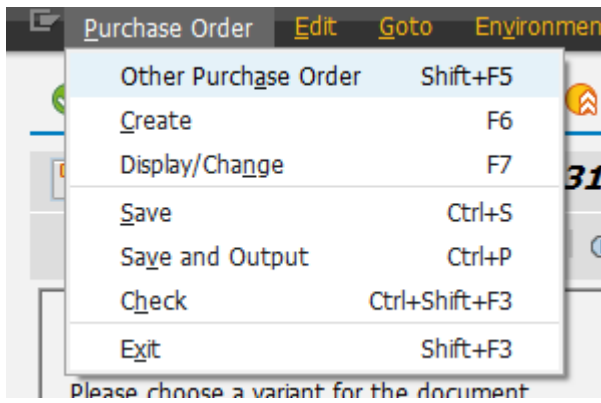
What To Do

What you will see

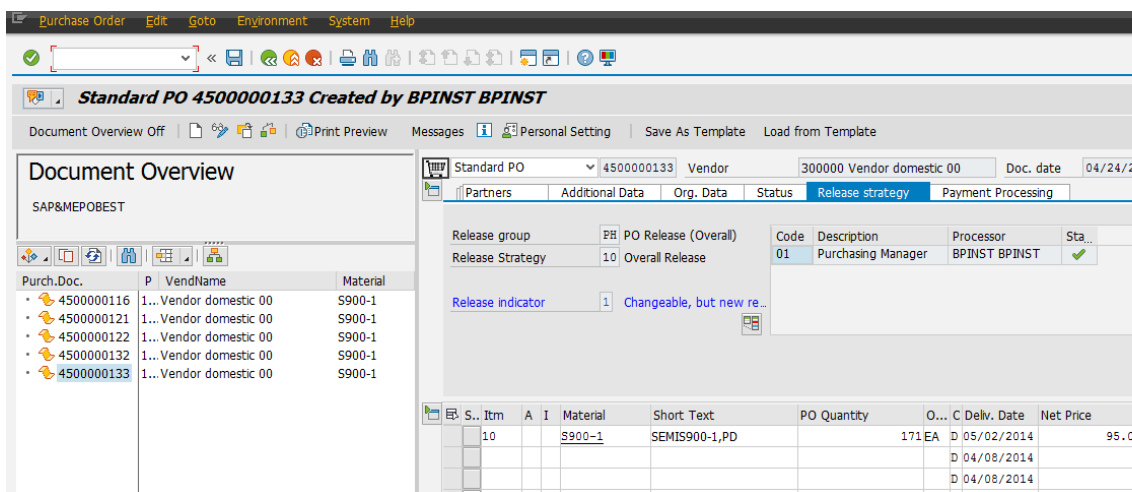
Optional: In SAP Easy Access, enter the T-code: ME23N – just to cross check if your PO has been created

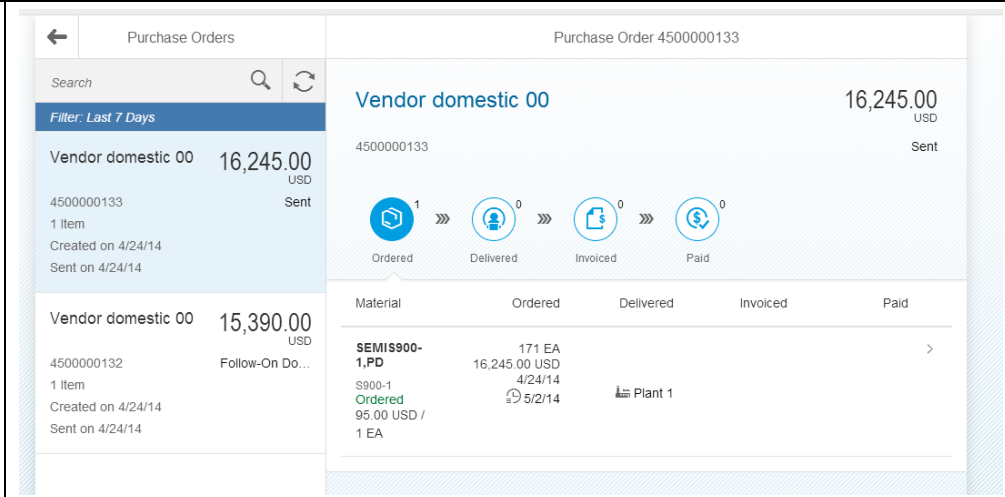


Select your Purchase Order (via a new “Section Variant” or “Other Purchase Order”) and check the order details, like amount, quantity and release status

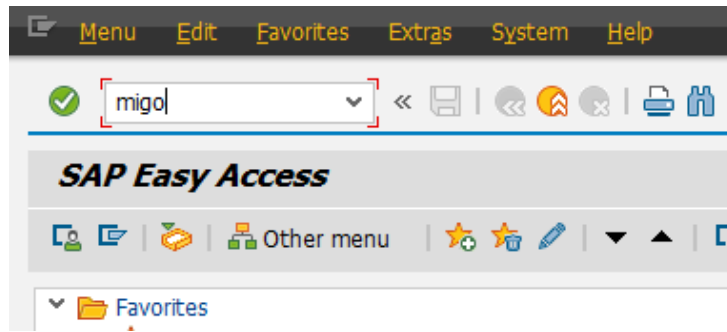


(as an alternative you can also track the PO via the Fiori APP “Track Purchase Order” – see lower screen)

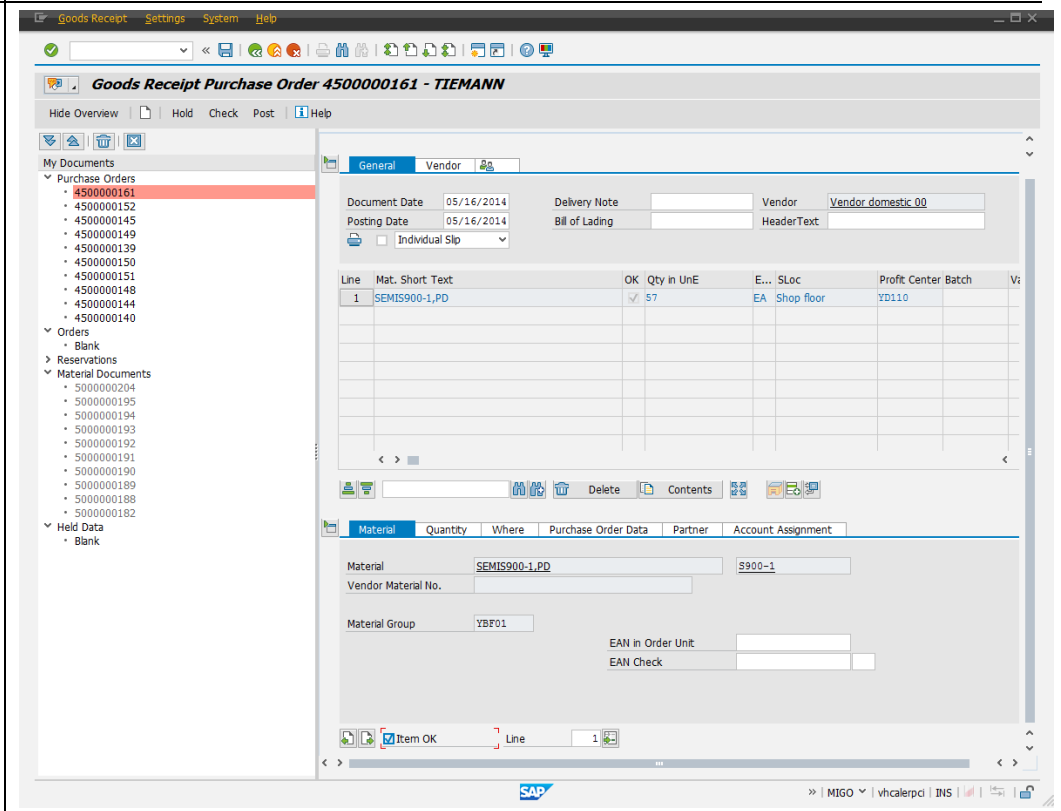


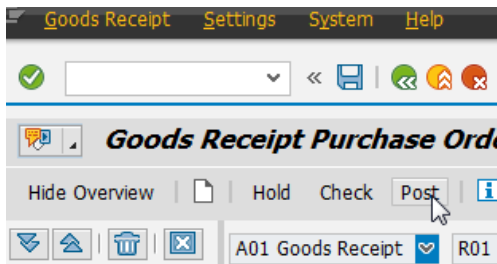
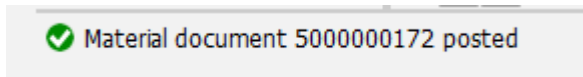


In SAP Easy Access, enter the T-code: *MIGO* to post the goods receipts



In the *Goods Receipt Purchase Order* screen, enter the # of the purchase order you created previously and press ENTER. Then confirm the quantity and check the *Item OK*

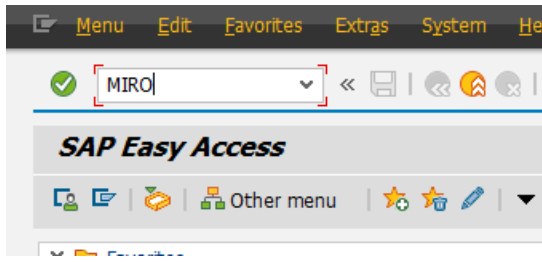


<p>After you have checked all the details, choose <i>Post</i>.</p>	
<p>Note down the material document ID.</p>	

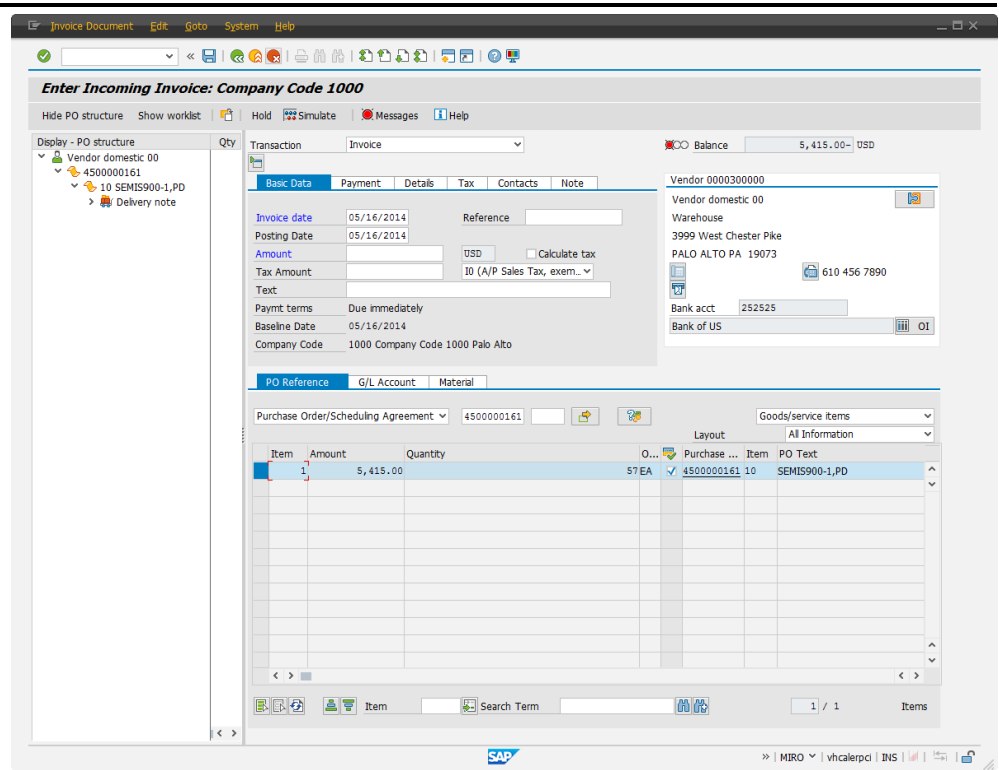
Optionally you can further check the stock level and PO status (e.g. in the MRP Cockpit, the Fiori App “Track Purchase Order” or in the ERP system, with transaction MD04).

4.4.7 Post Supplier Invoice

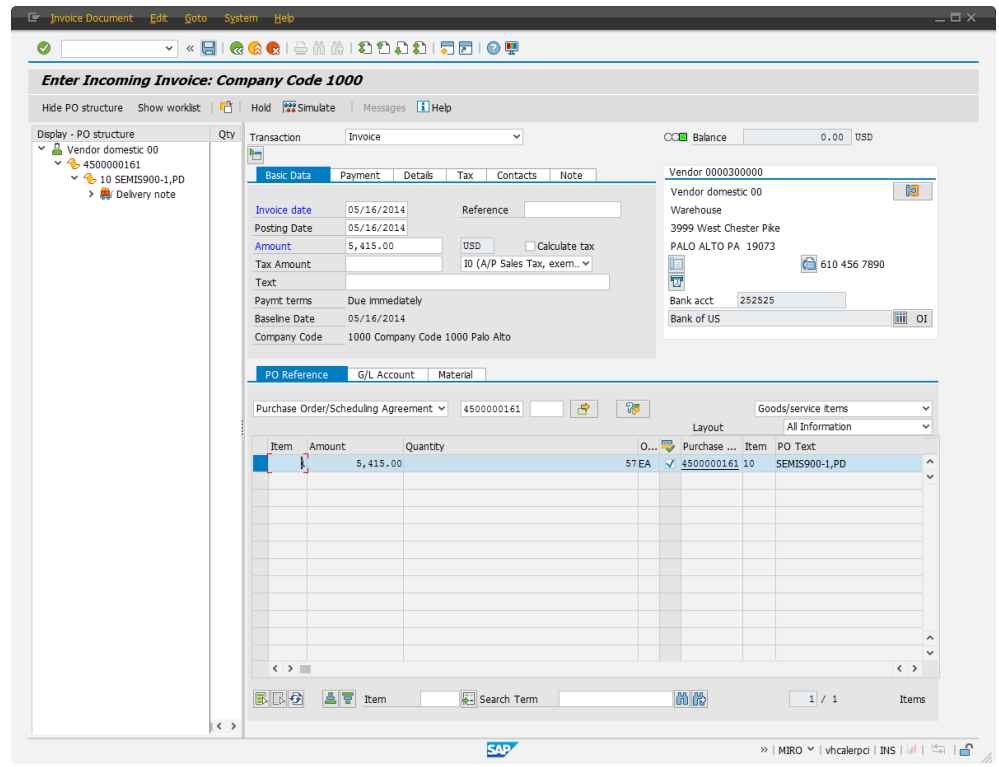
In this step you will post the supplier invoice in SAP ERP system.

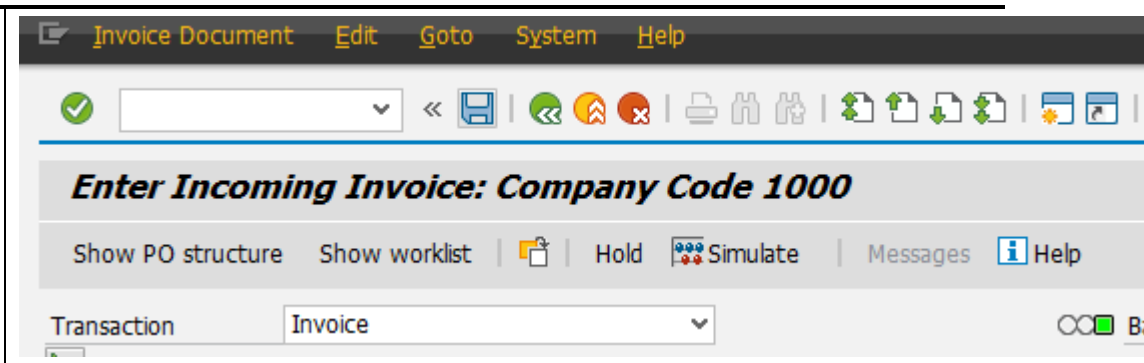
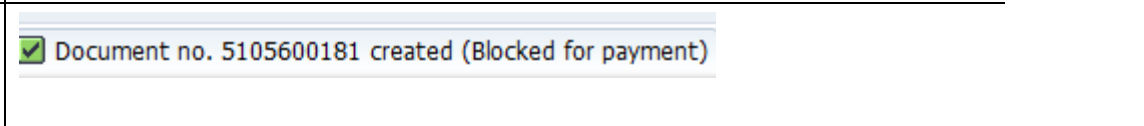
<p>What To Do</p>	<p>What you will see</p>
<p>In SAP Easy Access, enter the T-code: <i>MIRO</i> <i>(if a pop-up appears, enter company code 1000)</i></p>	

Enter
Invoice date
and your
Purchase order
number in the
field after
“Purchase
Order/
Scheduling
Agreement”

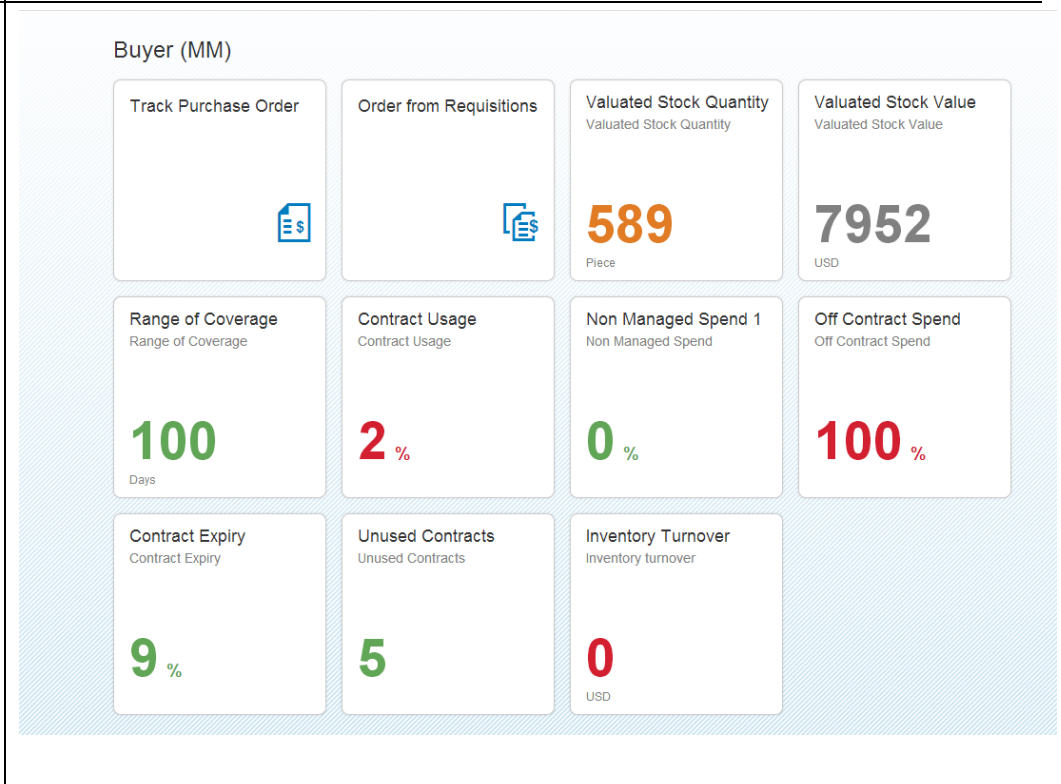


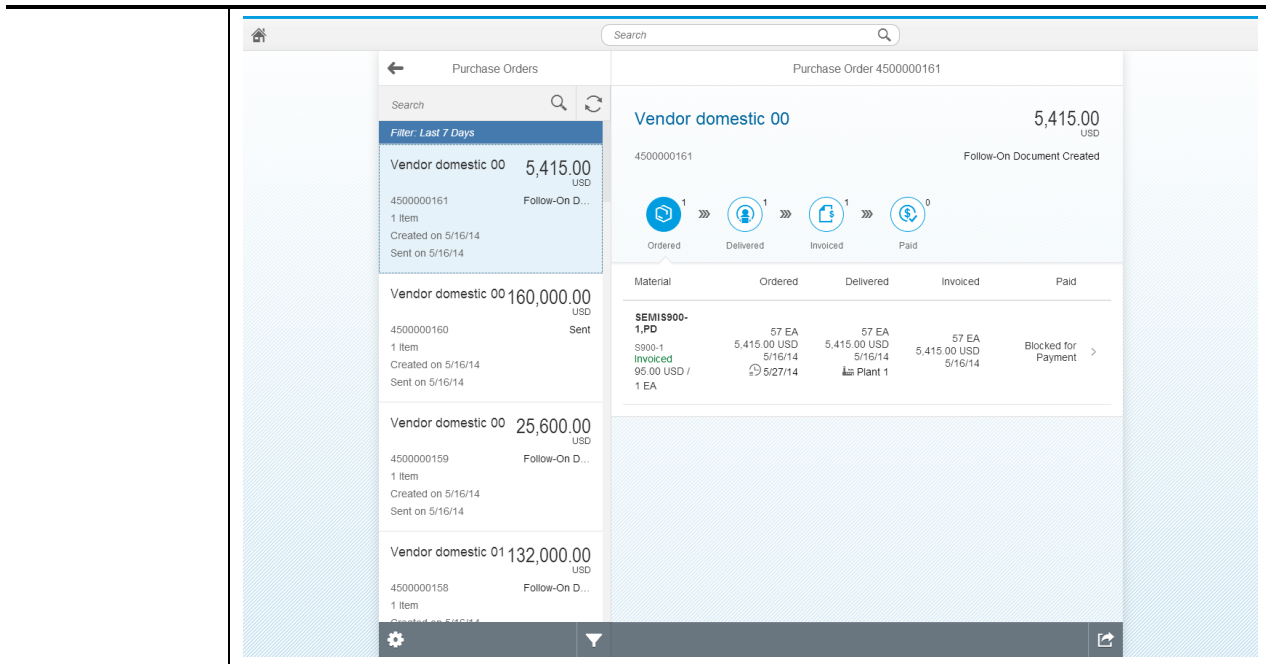
Confirm the
same amount in
the respective
field and select
the OK button
(this will confirm
the Balance to
0,00 and turn
the traffic light
into green)



<p>You can now first choose <i>Simulate</i> to see the accounting view or directly press SAVE to post the invoice</p>	
<p>Note down the document ID</p>	

Optionally you can further track the purchase order status in the Fiori App “Track Purchase Order”

<p>What To Do</p>	<p>What you will see</p>
<p>Click Fiori App <i>Track Purchase Order</i></p> <p>Select your purchase order and you should see that it has been ordered, delivered and invoiced already.</p>	



The screenshot displays the SAP Purchase Order interface for Purchase Order 450000161. The left sidebar shows a list of purchase orders with a filter for 'Last 7 Days'. The main area shows details for 'Vendor domestic 00' with a total value of 5,415.00 USD. Below this, a table lists materials with their respective ordered, delivered, and invoiced quantities and dates.

Material	Ordered	Delivered	Invoiced	Paid
SEMISS900-1,PD	57 EA	57 EA	57 EA	
S900-1	5,415.00 USD	5,415.00 USD	5,415.00 USD	Blocked for Payment
Invoiced	5/16/14	5/16/14	5/16/14	
95.00 USD / 1 EA	5/27/14	Plant 1	5/16/14	

4.4.8 HANA Analytics App -- GR/IR Cockpit

In this step you will clear the Good Received and Invoice Received in the HANA analytic app “SAP Goods Receipts/ Invoice Receipts”. This dashboard is primarily intended for mass processing and tracking of high volumes of purchasing data. Note that this demo just shows our single document - which has no issues, like open balances – just to visualize, which options would be available for mass data monitoring and maintenance.

What To Do

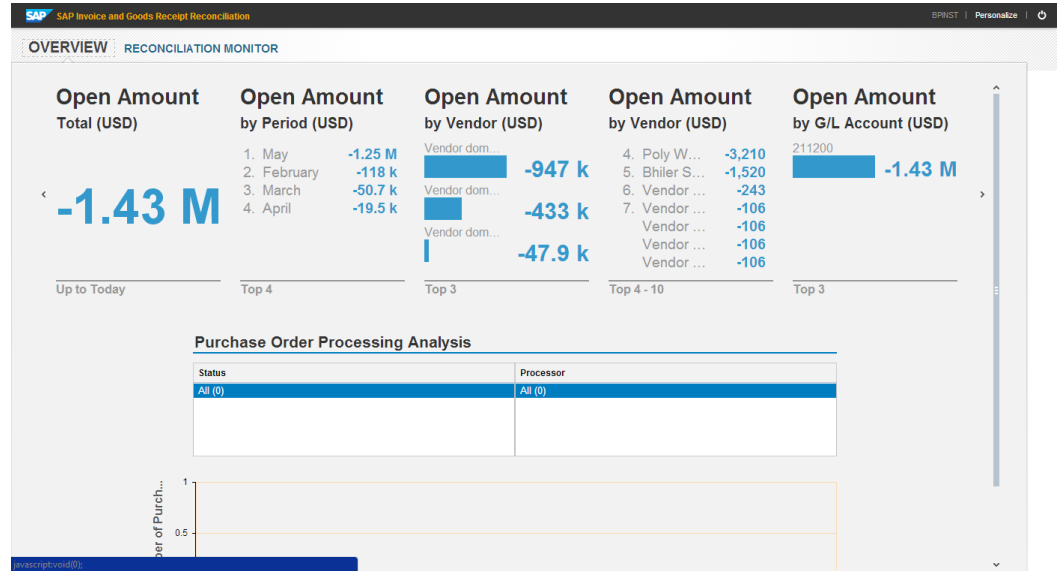
What you will see

Logon as described in chapter 4.2. GR/IR Cockpit. Default link is:

<https://vhcalhdbdb.dummy.nodomain:4302/sap/hba/apps/grircm/WebContent/index.html?sap-client=120&sap-language=EN>

User/Password: BPINST/Welcome1

Note that there are 2 tabs. If you start with the Overview tab, you will see an Overview dashboard (you might have to select company code 1000 first)



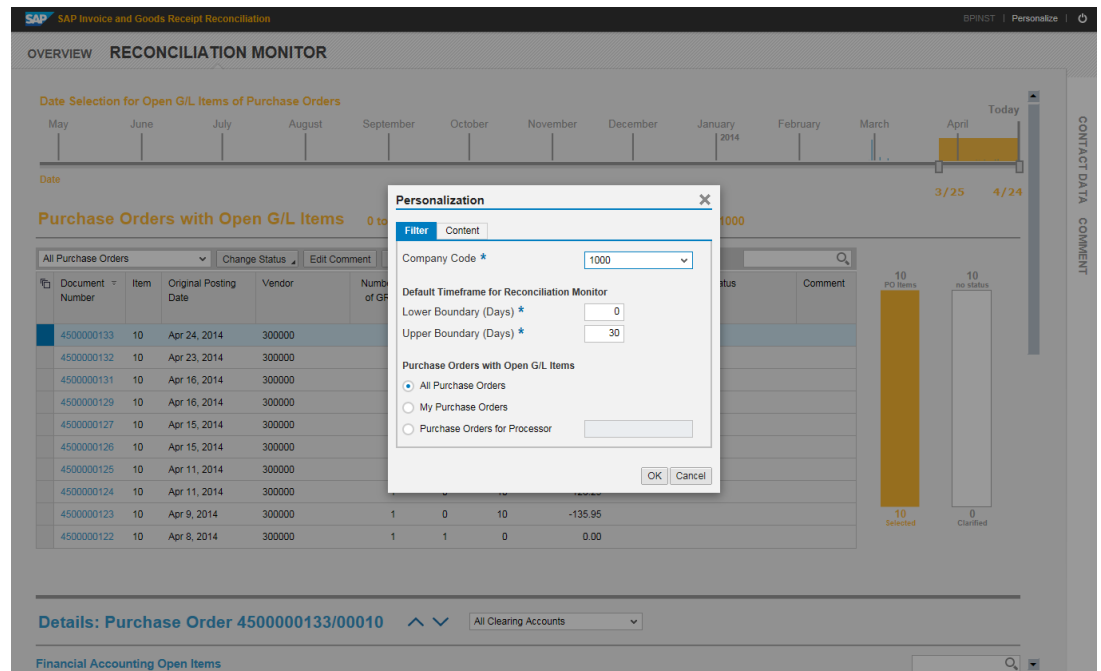
When entering the tab “Reconciliation Monitor” you can “Personalize” on the right top, and enter your values for:

Client

Company Code

Default Timeframe for Reconciliation Monitor (for the demo ideally 0 to 30 days)

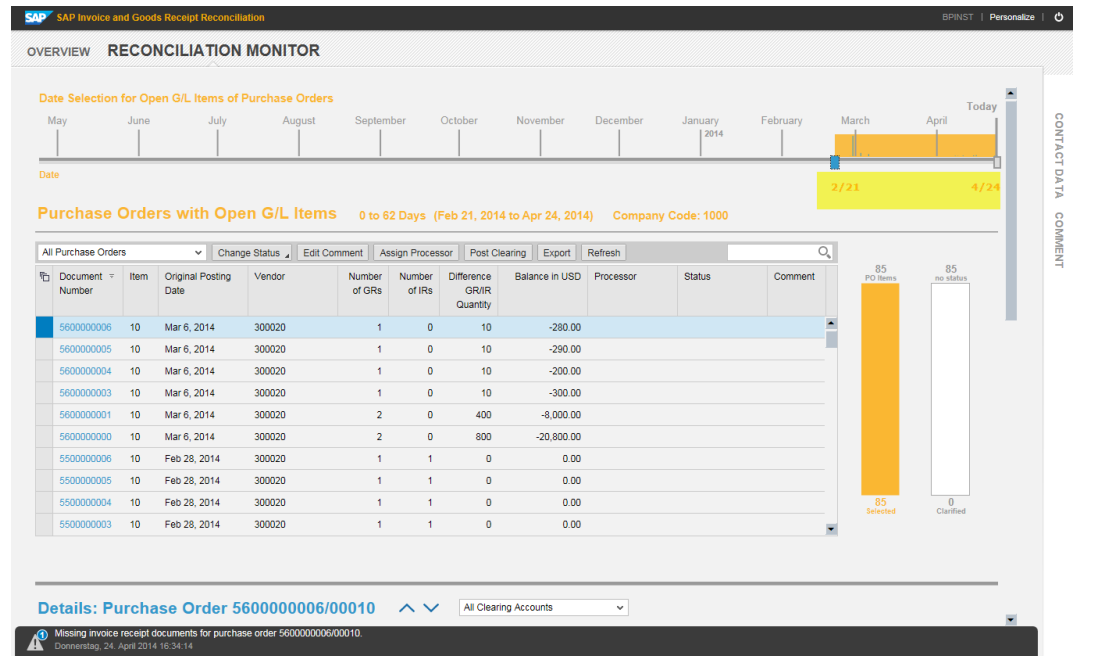
And choose OK



The screenshot shows the SAP Reconciliation Monitor interface. A 'Personalization' dialog box is open, allowing configuration of the reconciliation monitor. The dialog has two tabs: 'Filter' and 'Content'. In the 'Filter' tab, the 'Company Code' is set to '1000'. Under 'Default Timeframe for Reconciliation Monitor', the 'Lower Boundary (Days)' is set to '0' and the 'Upper Boundary (Days)' is set to '30'. Under 'Purchase Orders with Open G/L Items', the radio button for 'All Purchase Orders' is selected. The background interface shows a date selection bar for 2014, a table of purchase orders, and summary statistics for PO items and statuses.

Document Number	Item	Original Posting Date	Vendor	Number of GR
4500000133	10	Apr 24, 2014	300000	
4500000132	10	Apr 23, 2014	300000	
4500000131	10	Apr 16, 2014	300000	
4500000129	10	Apr 16, 2014	300000	
4500000127	10	Apr 15, 2014	300000	
4500000126	10	Apr 15, 2014	300000	
4500000125	10	Apr 11, 2014	300000	
4500000124	10	Apr 11, 2014	300000	
4500000123	10	Apr 9, 2014	300000	1 0 10 -135.95
4500000122	10	Apr 8, 2014	300000	1 1 0 0.00

You might also want to adjust the time frame flexibly with the scroll bar.



The screenshot shows the SAP Reconciliation Monitor interface with a date range filter applied. The date selection bar shows a range from February 21, 2014, to April 24, 2014. The table below shows purchase orders within this range. Summary statistics indicate 85 PO items are selected and 0 are clarified.

Document Number	Item	Original Posting Date	Vendor	Number of GRs	Number of IRs	Difference GR/IR Quantity	Balance in USD	Processor	Status	Comment
5600000006	10	Mar 6, 2014	300020	1	0	10	-280.00			
5600000005	10	Mar 6, 2014	300020	1	0	10	-290.00			
5600000004	10	Mar 6, 2014	300020	1	0	10	-200.00			
5600000003	10	Mar 6, 2014	300020	1	0	10	-300.00			
5600000001	10	Mar 6, 2014	300020	2	0	400	-8,000.00			
5600000000	10	Mar 6, 2014	300020	2	0	800	-20,800.00			
5500000006	10	Feb 28, 2014	300020	1	1	0	0.00			
5500000005	10	Feb 28, 2014	300020	1	1	0	0.00			
5500000004	10	Feb 28, 2014	300020	1	1	0	0.00			
5500000003	10	Feb 28, 2014	300020	1	1	0	0.00			

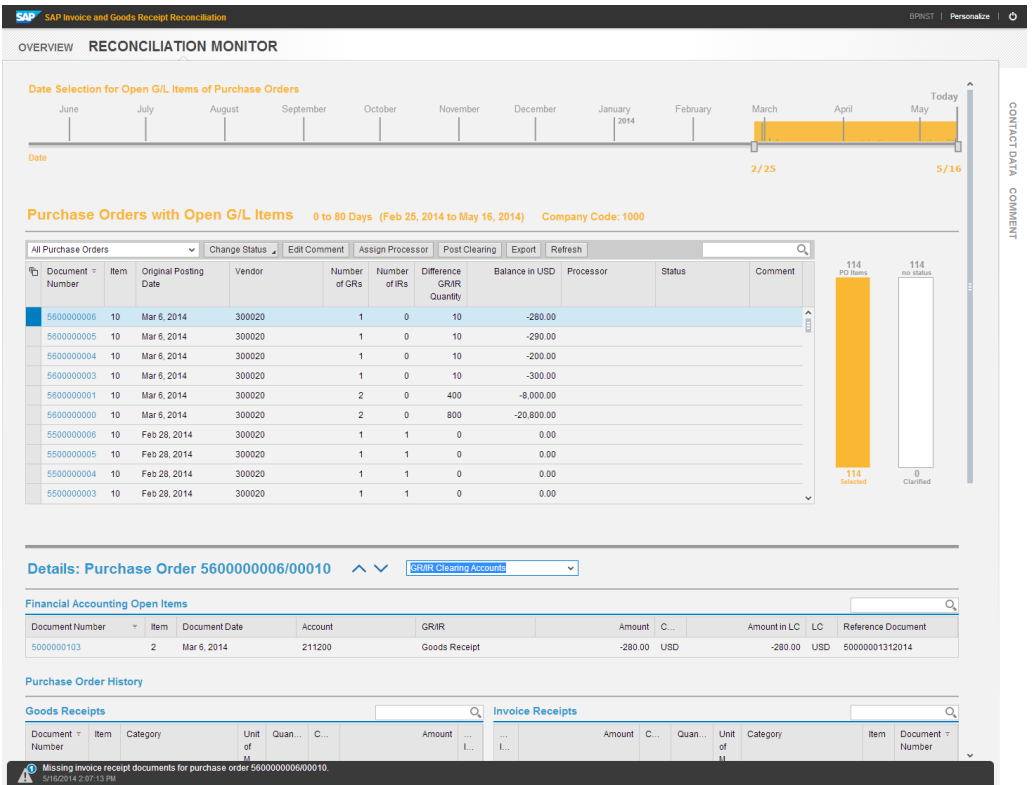
Select your own purchase order for details.

The Post Clearing function is available, when GR and IR documents do not map 100%, so you can manually handle such cases.

In case of 100% match between GR and IR documents, the clearing will be done via batch run automatically.

You can also use this cockpit to trigger follow-up actions, like notes creation, assign processors, export etc.

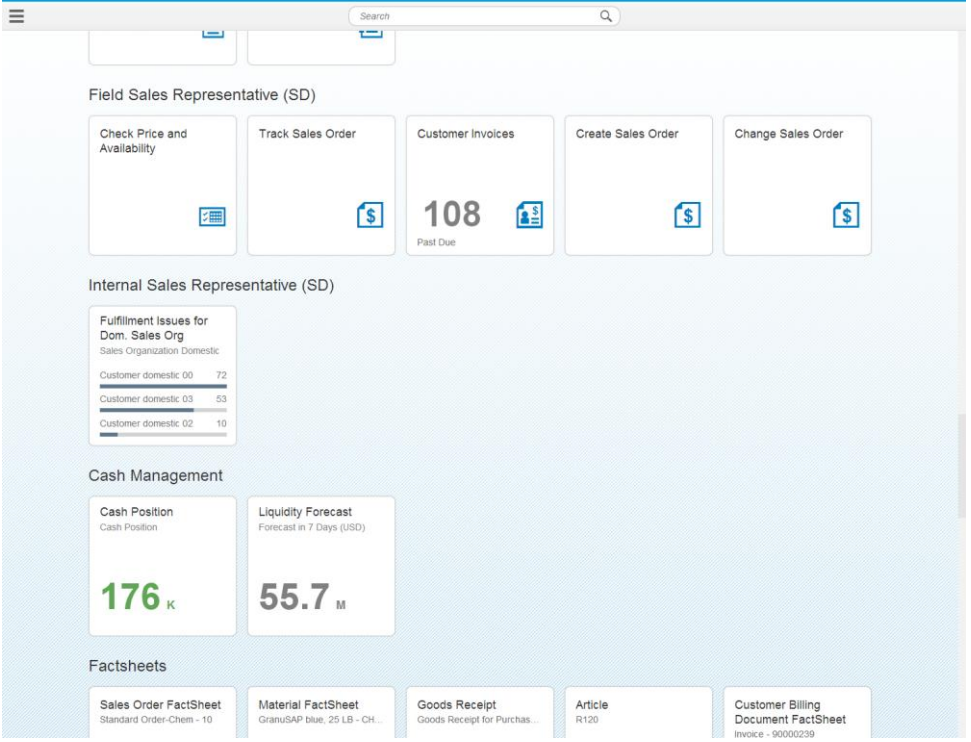
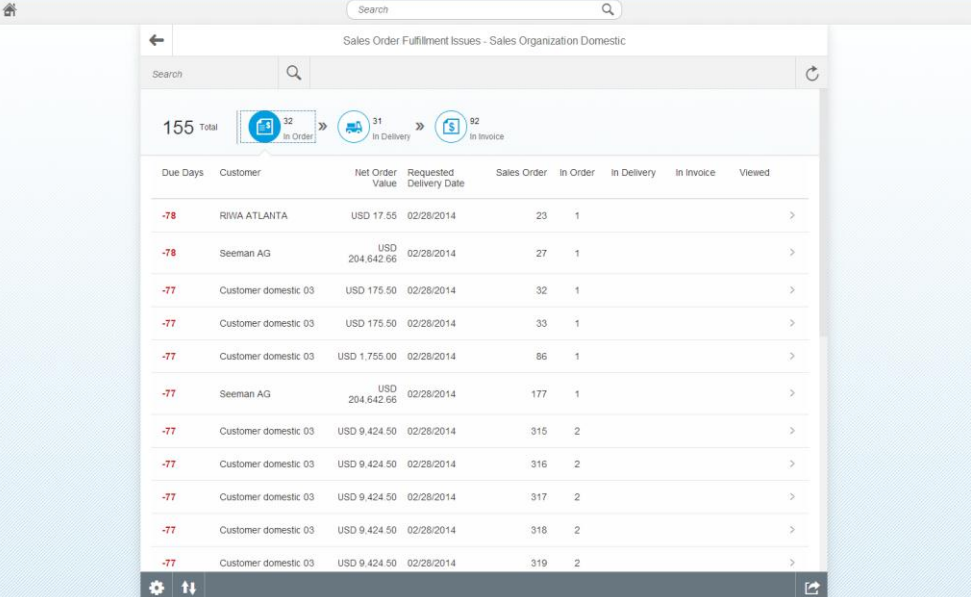
Since there are no issues, we will leave the GR/IR Cockpit



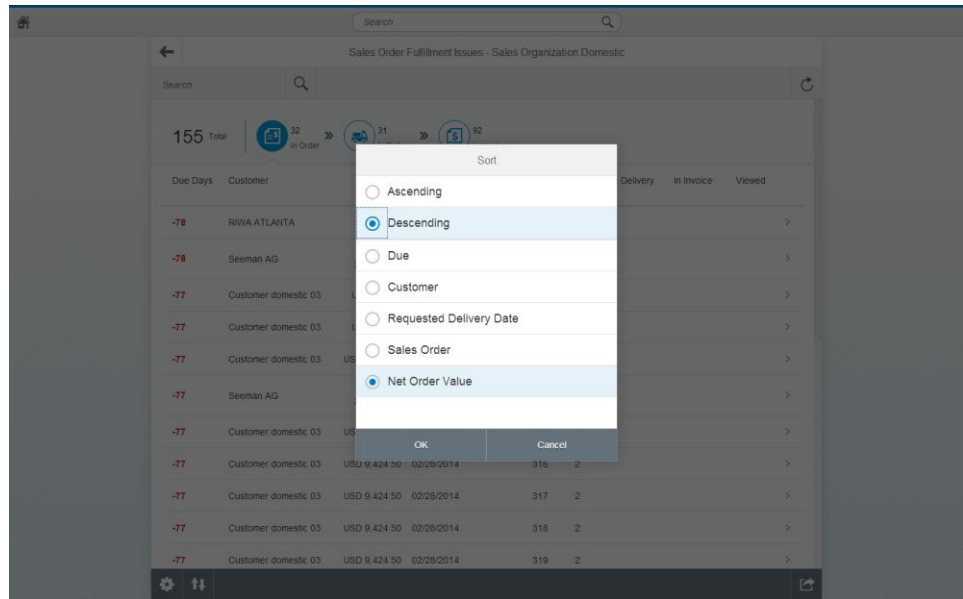
The screenshot displays the SAP Reconciliation Monitor interface. At the top, it shows the title 'SAP Invoice and Goods Receipt Reconciliation' and 'RECONCILIATION MONITOR'. Below this is a date selection calendar for 'Open G/L Items of Purchase Orders' with a date range from June to May 2014, currently set to 2/25 to 5/16. The main section is titled 'Purchase Orders with Open G/L Items' for '0 to 80 Days (Feb 25, 2014 to May 16, 2014)' and 'Company Code: 1000'. It features a table of purchase orders with columns for Document Number, Item, Original Posting Date, Vendor, Number of GRs, Number of IRs, Difference GR/IR Quantity, Balance in USD, Processor, Status, and Comment. A bar chart on the right shows '114 PO items' (Selected) and '0 IRs' (Cleared). Below the table, there are sections for 'Details: Purchase Order 5600000006/00010', 'Financial Accounting Open Items', 'Purchase Order History', 'Goods Receipts', and 'Invoice Receipts'. A warning message at the bottom states: 'Missing invoice receipt documents for purchase order 5600000006/00010.' The interface also includes navigation options like 'Change Status', 'Edit Comment', 'Assign Processor', 'Post Clearing', 'Export', and 'Refresh'.

4.4.9 Create Outbound Delivery and post the invoice

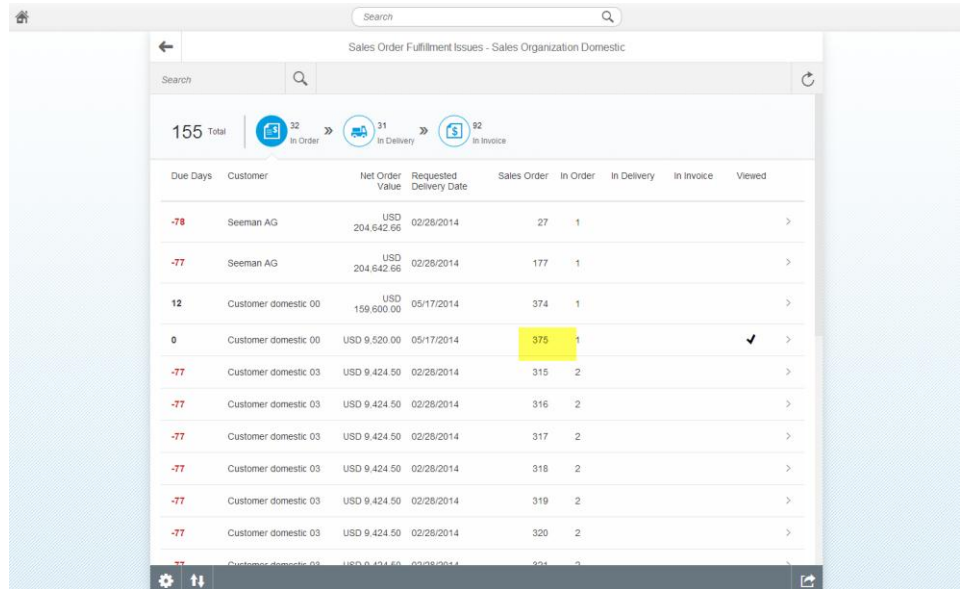
In this step you will create outbound delivery with Fiori App.

<h3>What To Do</h3>	<h3>What you will see</h3>
<p>In Fiori, we choose the app “Fulfillment issues of Dom Sales Org.”</p>	
<p>In the Cockpit, select only items, with Status “In Order” (here 32)</p>	

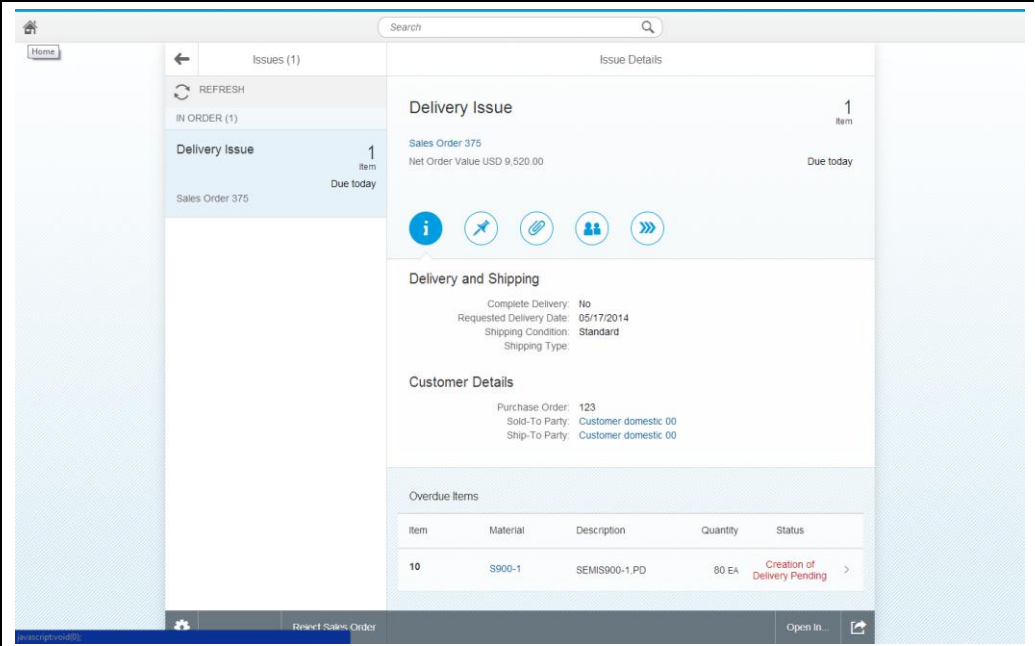
With the 2 arrows on the left bottom, you can sort, e.g. by net order value



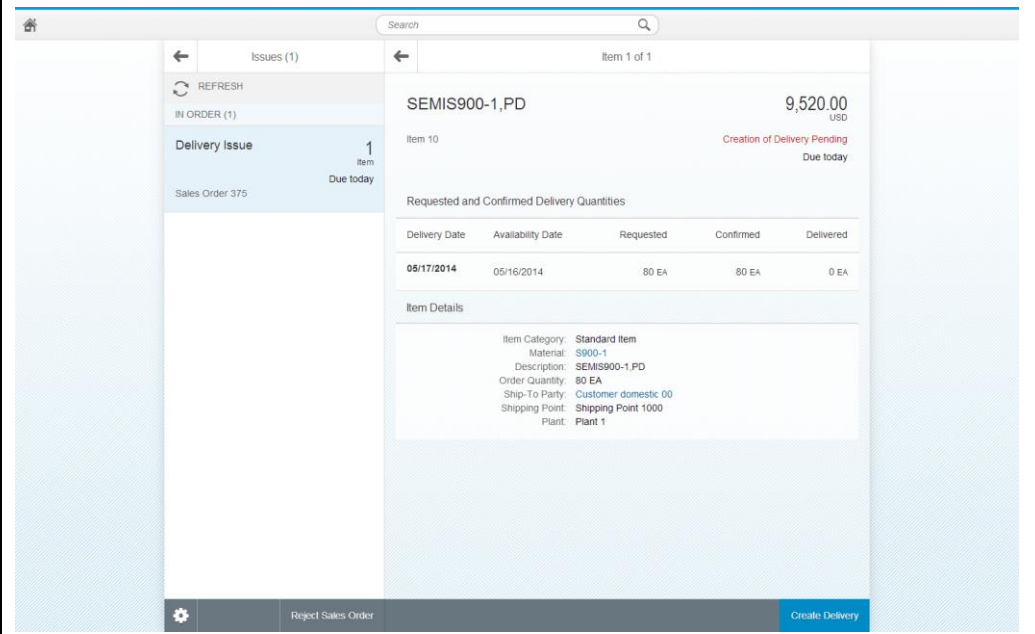
Scroll and select your Sales Order



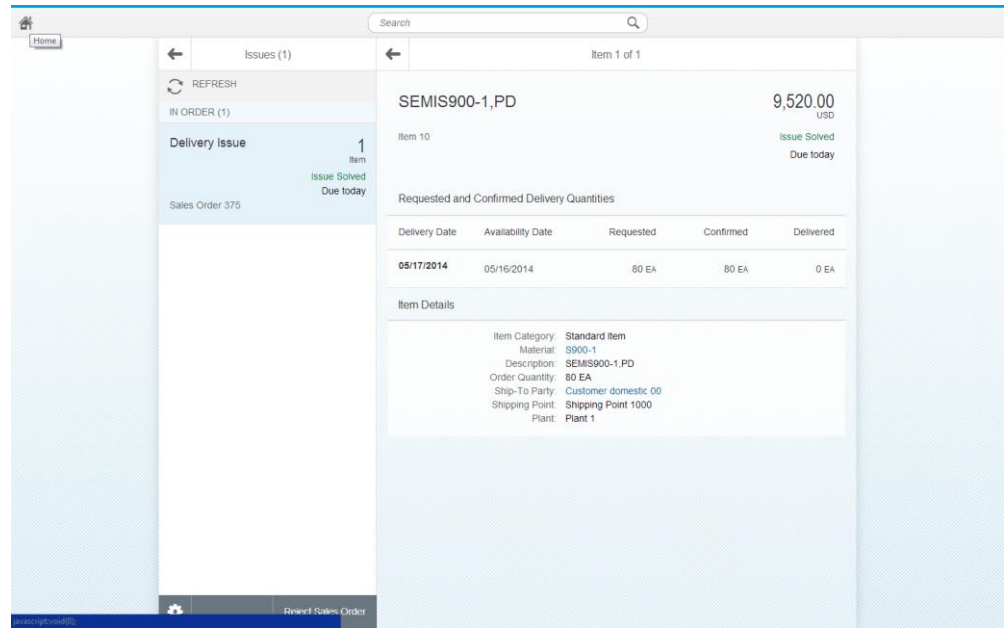
It might say, that “Delivery is pending” – then click on this info.



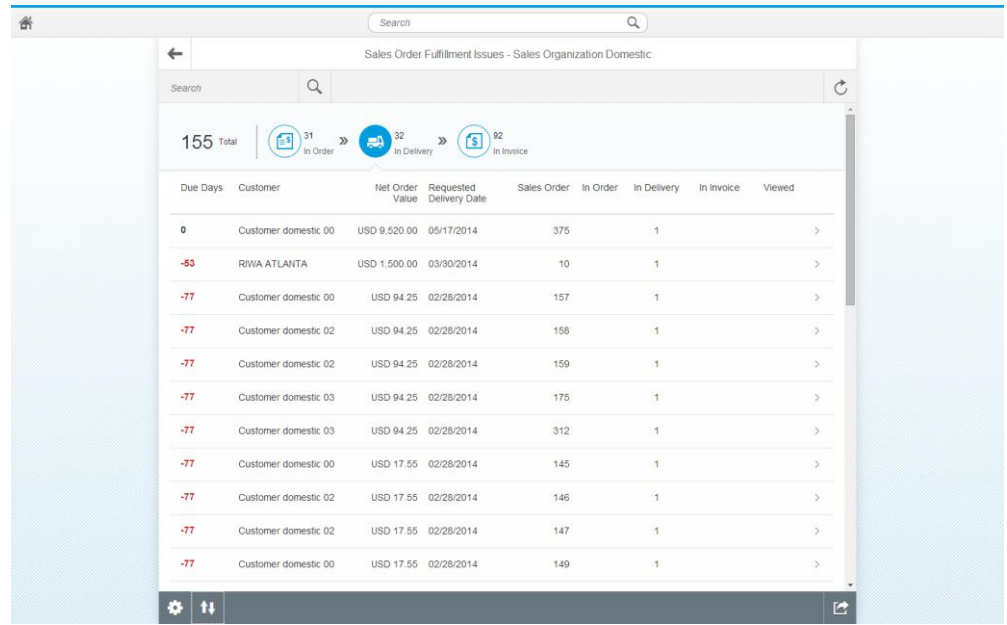
Select “Create delivery”



System will say "Delivery created" (but note that delivered status is still 0)

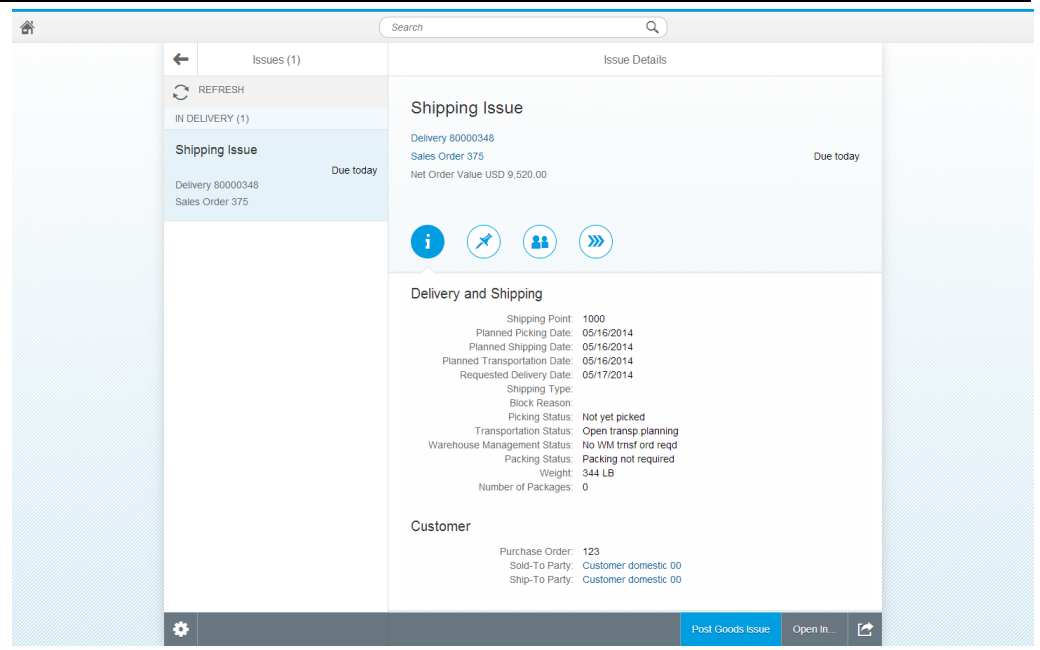


When going back to the Sales Order Fulfillment App, you can now select all orders in delivery and track your order status



Note that the status is not picked, and therefor will not allow you to post the goods issue. Some one is the ERP backend has to do the picking...

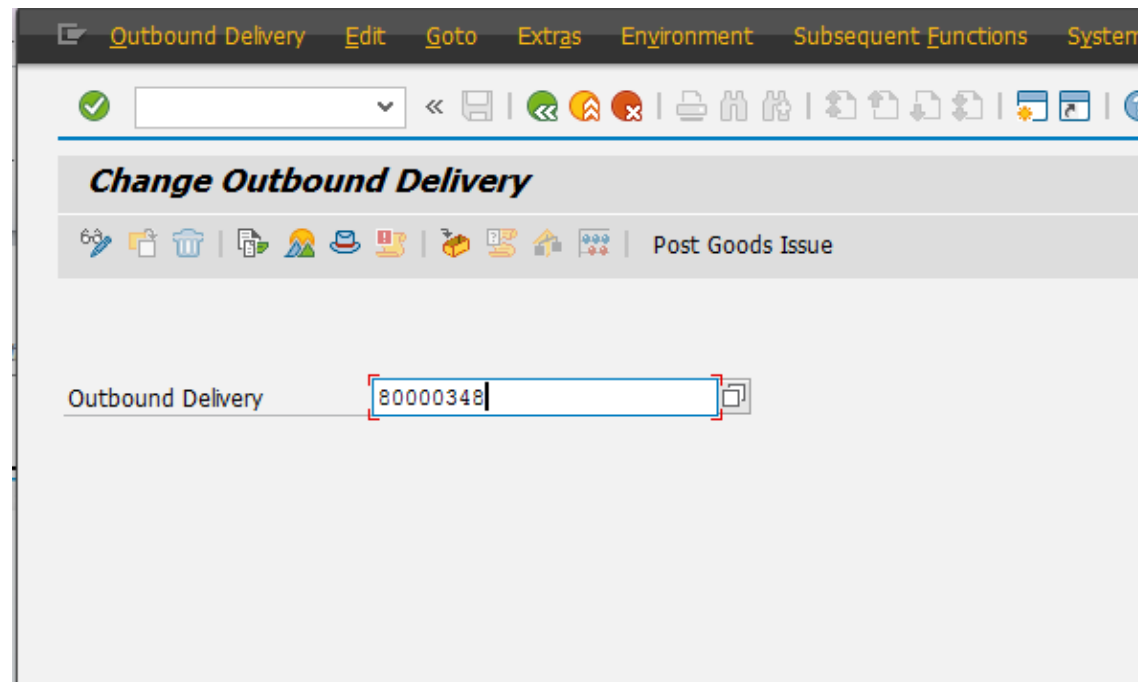
Note the delivery number



Choose Sales Document > Deliver

Transaction is: VL02N

Enter your delivery number

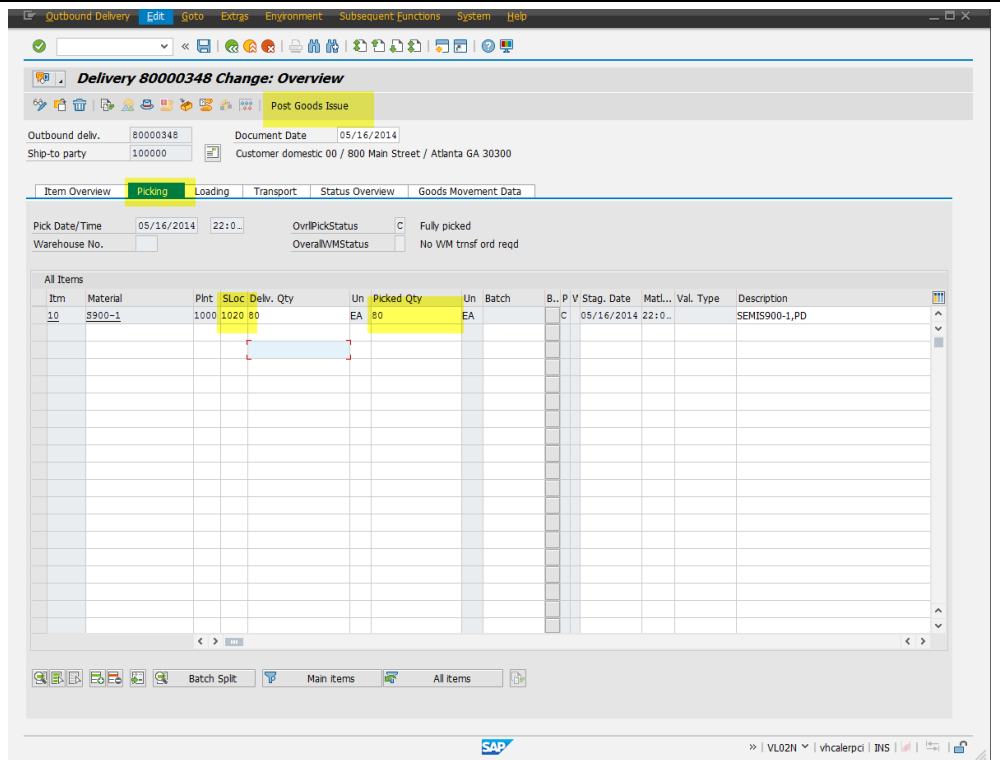


Enter the tab “Picking”,

Enter “Picking Quantity” and the storage location 1020 and then

“Post Goods Issue”

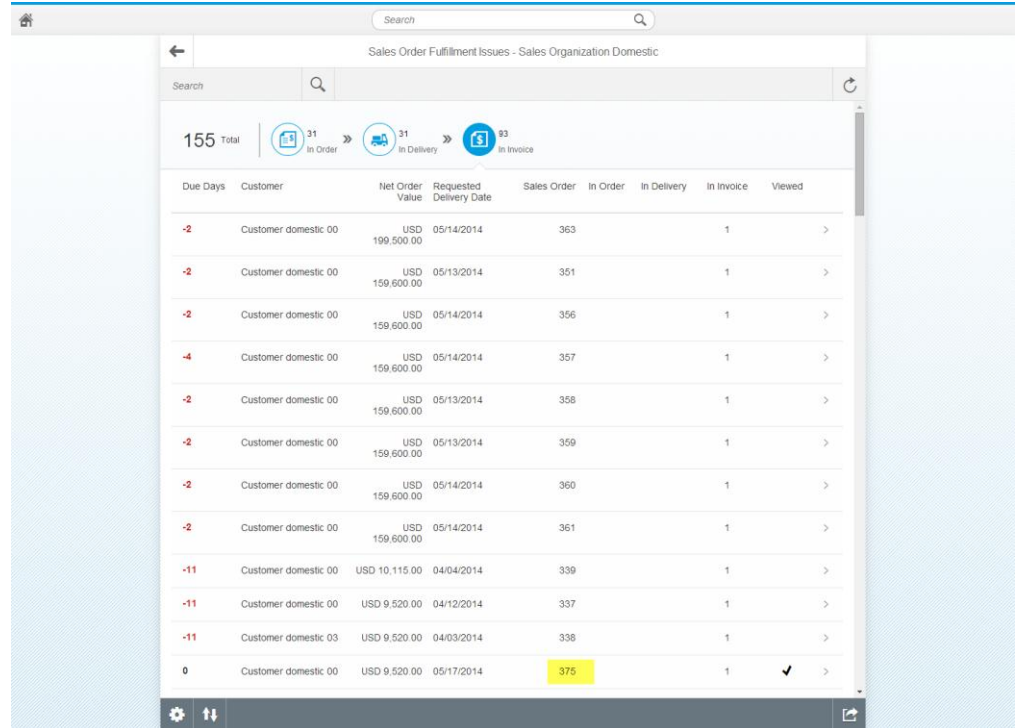
(Note that you can also post the goods issue in the Fiori App, but not the Picking)



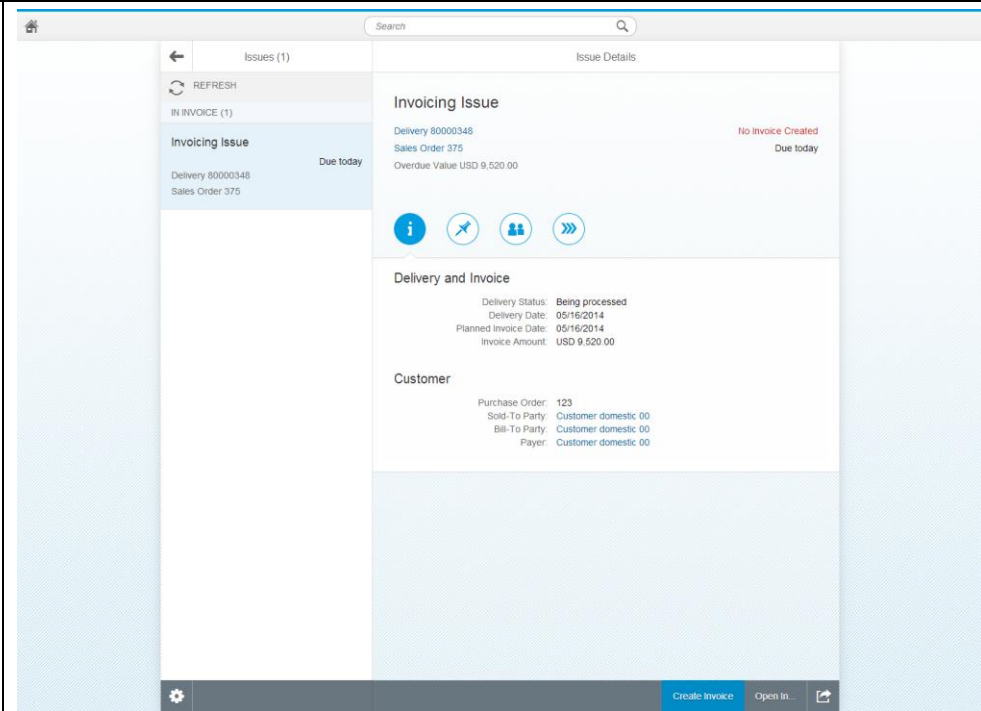
 Delivery 80000317 has been saved

Back in the Fiori Sales Order Fulfillment App you can now post the Billing.

Select all orders in “Billing”



Enter your order and press button “Create invoice”



The screenshot shows the 'Invoicing Issue' app interface. The left sidebar contains a 'REFRESH' button and a list of 'IN INVOICE (1)' items. The main area displays 'Issue Details' for an 'Invoicing Issue' with the following information:

- Delivery: 80000348
- Sales Order: 375
- Overdue Value: USD 9,520.00
- Status: **No Invoice Created** (Due today)

Below this, there are icons for information, navigation, and user management. The 'Delivery and Invoice' section shows:

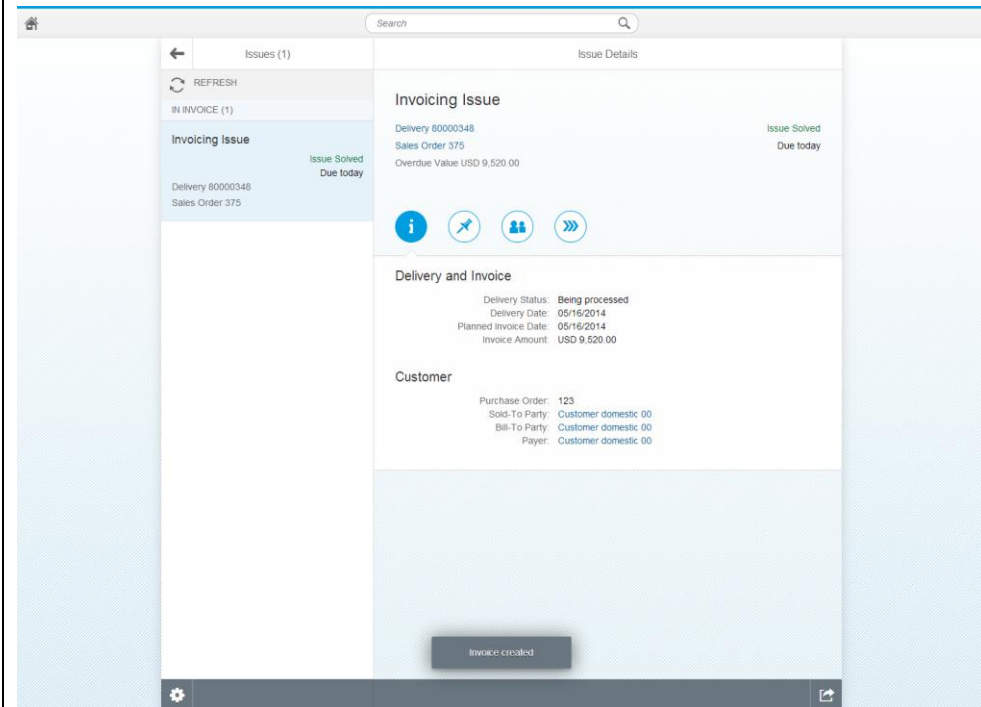
- Delivery Status: Being processed
- Delivery Date: 05/16/2014
- Planned Invoice Date: 05/16/2014
- Invoice Amount: USD 9,520.00

The 'Customer' section lists:

- Purchase Order: 123
- Sold-To Party: Customer domestic 00
- Bill-To Party: Customer domestic 00
- Payer: Customer domestic 00

At the bottom right, there is a 'Create Invoice' button and an 'Open in...' option.

The invoice has been created




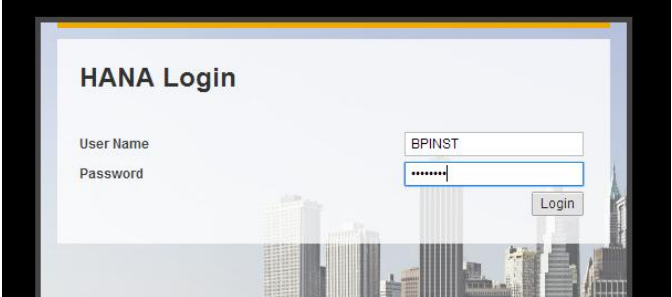
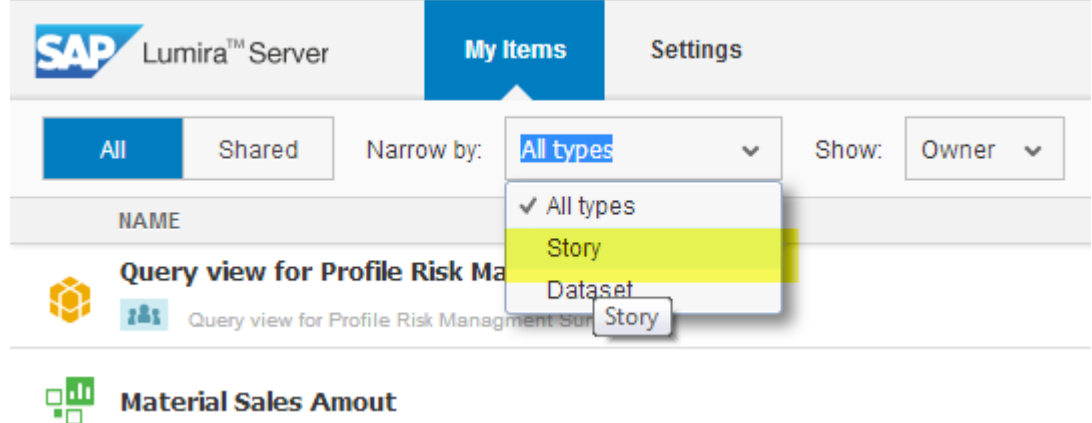
The screenshot shows the same 'Invoicing Issue' app interface, but the status has changed. The 'Issue Solved' status is now displayed in green, and the 'Due today' label is present. The 'Create Invoice' button is no longer visible, and a grey toast notification at the bottom center reads 'Invoice created'.

4.4.10 Review Profitability in COPA Report (LUMIRA)

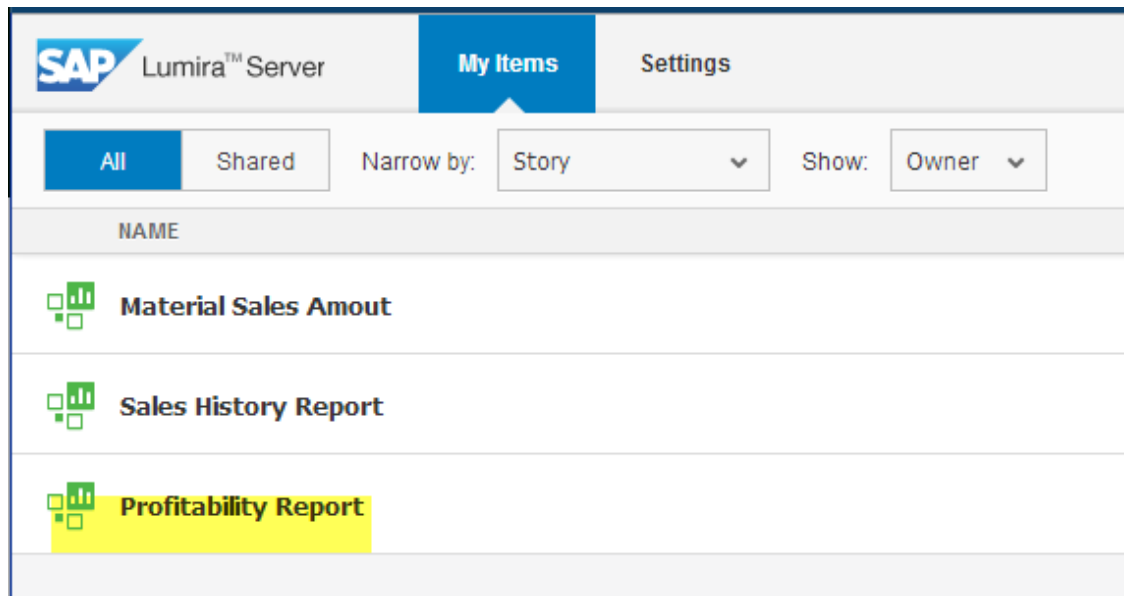
After all the transactions, now you can view the whole sales process and the profitability in Profitability Analysis (COPA).

Note that for different purposes a variety of analytical tools is available. LUMIRA is an ideal tool, to prepare management (CFO) views, which can be published to multiple audiences on the Lumira server (using online & realtime connection to SAP HANA). LUMIRA is a good tool to

easily define reports (locally) yourself, and then publish those for multiple users (e.g. regional sales leads) to view just their regions or customers (Lumira Server realtime on SAP HANA)

What To Do	What you will see
Click the SAP Lumira tile	 <p>The screenshot shows a light blue rectangular tile with the text 'SAP Lumira' at the top. Below the text is a white rounded rectangle containing the same text 'SAP Lumira' and a small icon of a magnifying glass over a bar chart.</p>
Enter your User Name Password And logon	 <p>The screenshot shows the 'HANA Login' page. It has a header 'HANA Login' and two input fields: 'User Name' with the value 'BPINST' and 'Password' with masked characters. A 'Login' button is located to the right of the password field. The background features a city skyline.</p>
Filter only on story to view a Management Dashboard	 <p>The screenshot shows the SAP Lumira Server interface. At the top, there are tabs for 'SAP Lumira™ Server', 'My Items', and 'Settings'. Below the tabs are filter buttons for 'All' and 'Shared', and a 'Narrow by:' dropdown menu currently set to 'All types'. A 'Show:' dropdown is set to 'Owner'. A list of items is visible, with the first item 'Query view for Profile Risk Ma' selected. A dropdown menu is open over this item, showing options: 'All types', 'Story' (highlighted in yellow), 'Dataset', and 'Story'. Below the list, another item 'Material Sales Amout' is partially visible.</p>

Select the Profitability Report



SAP Lumira™ Server

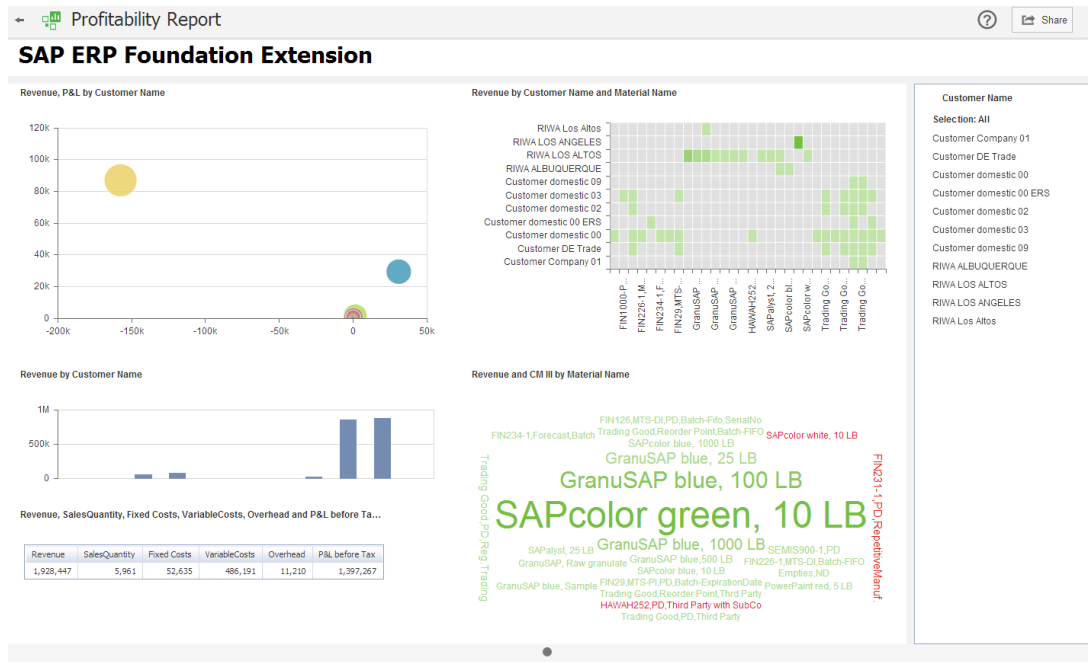
My Items Settings

All Shared Narrow by: Story Show: Owner

NAME

- Material Sales Amout
- Sales History Report
- Profitability Report**

Note the dashboard offers different predefined views and the option to drill down into individual customers on the right



Profitability Report

SAP ERP Foundation Extension

Revenue, P&L by Customer Name

Revenue by Customer Name and Material Name

Revenue by Customer Name

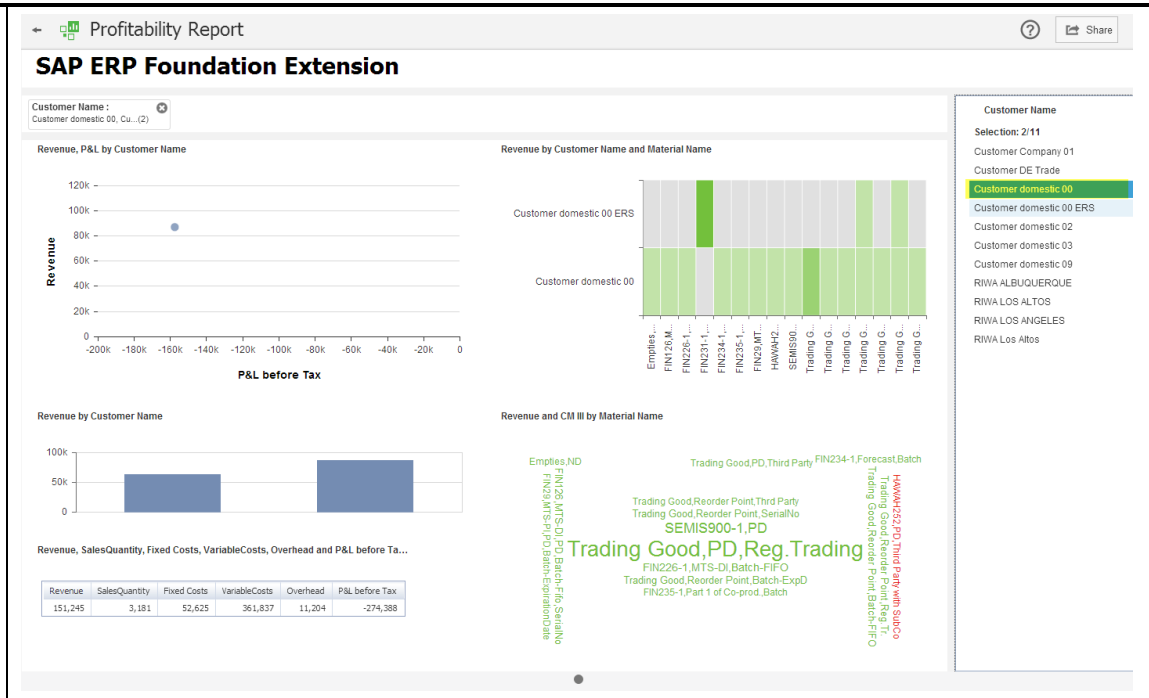
Revenue and CM III by Material Name

Customer Name Selection: All

- Customer Company 01
- Customer DE Trade
- Customer domestic 00
- Customer domestic 00 ERS
- Customer domestic 02
- Customer domestic 03
- Customer domestic 09
- Customer DE Trade
- Customer Company 01
- RIVA LOS ALTOS
- RIVA LOS ANGELES
- RIVA LOS ALTOS
- RIVA ALBUQUERQUE

Revenue	SalesQuantity	Fixed Costs	VariableCosts	Overhead	P&L before Tax
1,528,447	5,961	52,635	486,151	11,210	1,397,267

You might want to drill down into our customer domestic 00, and show the products sold (incl. S900-1), incl. all profitability information



The screenshot displays the SAP Profitability Report for 'SAP ERP Foundation Extension'. It includes a navigation bar, a customer selection dropdown, and several data visualization components:

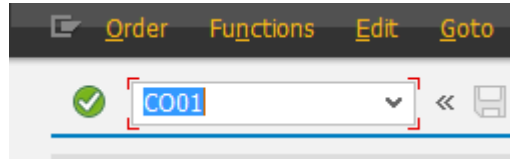
- Revenue, P&L by Customer Name:** A scatter plot showing Revenue (0 to 120k) on the y-axis and P&L before Tax (-200k to 0) on the x-axis. A single data point is visible at approximately (-160k, 80k).
- Revenue by Customer Name and Material Name:** A stacked bar chart showing revenue for 'Customer domestic 00 ERS' and 'Customer domestic 00' across various material names.
- Revenue by Customer Name:** A bar chart showing revenue for 'Customer domestic 00' and 'Customer domestic 02'.
- Revenue, SalesQuantity, Fixed Costs, VariableCosts, Overhead and P&L before Tax...**: A data table with the following values:


Revenue	SalesQuantity	Fixed Costs	VariableCosts	Overhead	P&L before Tax
151,245	3,181	52,625	361,637	11,204	-274,388
- Revenue and CM III by Material Name:** A complex chart showing material names and their corresponding revenue and contribution margin III.
- Customer Name Selection List:** A sidebar on the right with a list of customer names, including 'Customer domestic 00' which is highlighted.

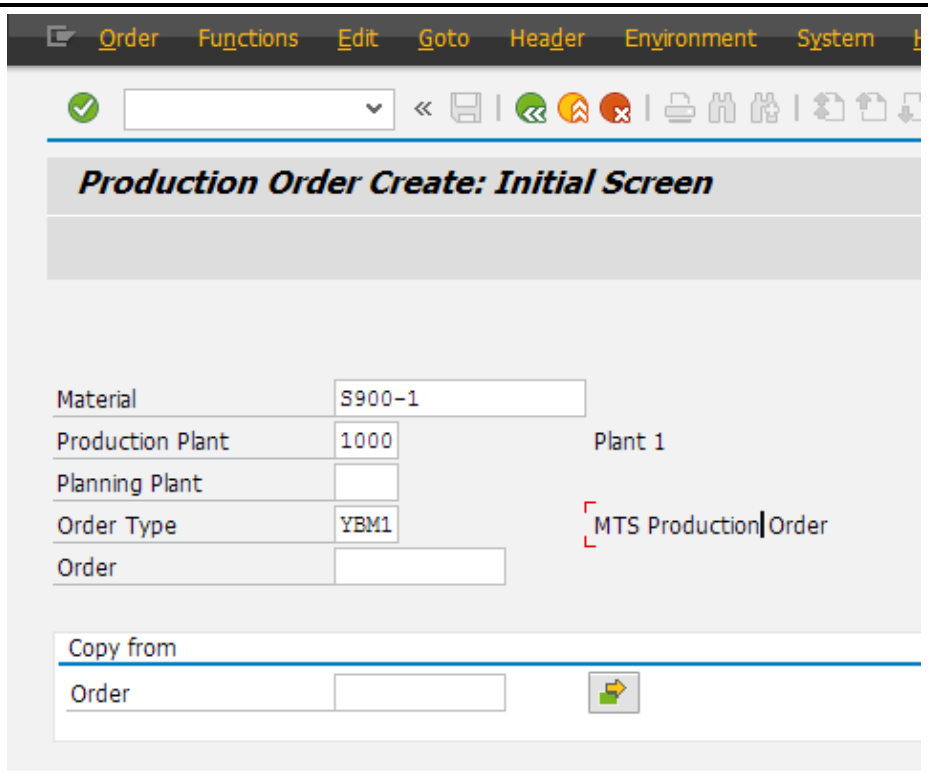
4.5 Demo Story Variant 2 – Production Only

4.5.1 Production Order Creation



In this step you will create a production order in SAP ERP system.

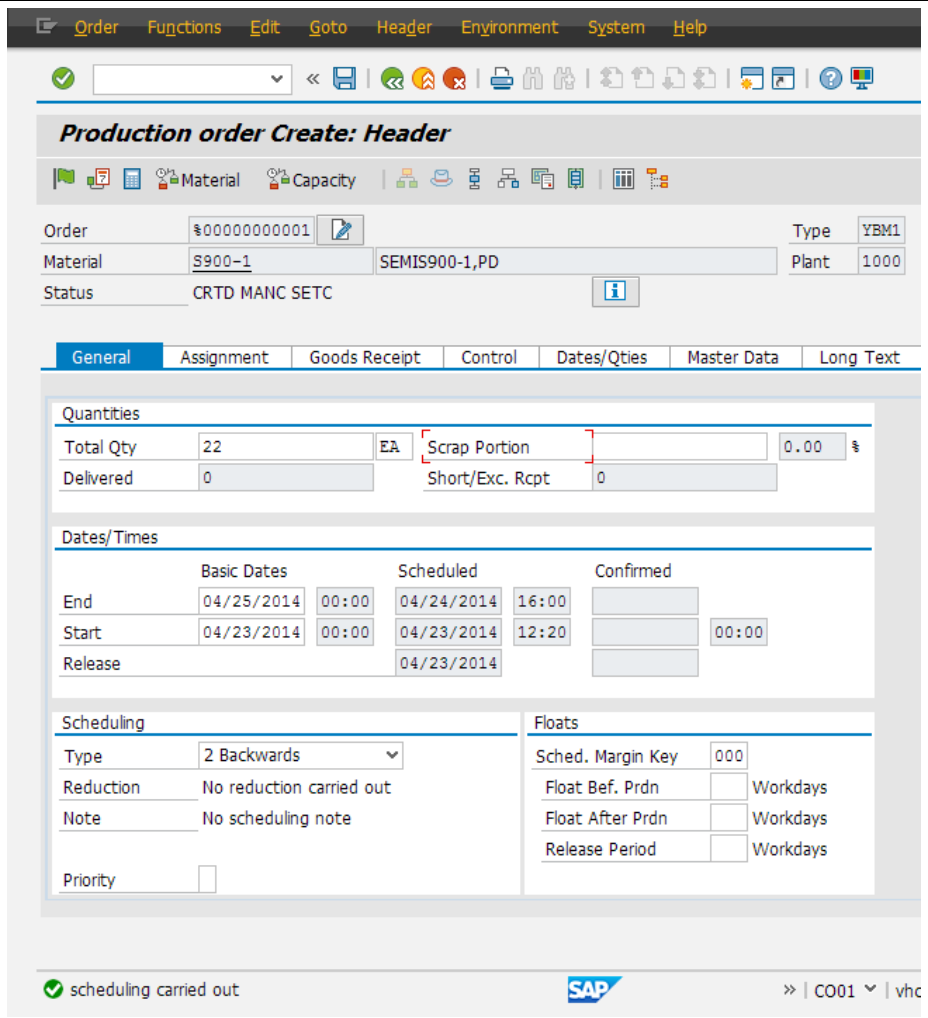
What To Do	What you will see
In SAP Easy Access, enter the T-code: CO01	

Enter
Material: S900-1
Production Plant: 1000
Order Type: YBM1
 Choose .




The screenshot shows the 'Production Order Create: Initial Screen' in SAP. The top navigation bar includes 'Order', 'Functions', 'Edit', 'Goto', 'Header', 'Environment', and 'System'. Below the navigation bar is a toolbar with various icons. The main area contains several input fields: 'Material' (S900-1), 'Production Plant' (1000), 'Planning Plant' (empty), 'Order Type' (YBM1), and 'Order' (empty). To the right of the 'Production Plant' field, it says 'Plant 1'. Below the 'Order Type' field, there is a red bracketed label 'MTS Production Order'. At the bottom, there is a 'Copy from' section with an 'Order' field and a green arrow icon.

Enter the **Total Qty** and the **End date** of the order (about two weeks in the future).
 Press enter  and save the production order .
 Note down the production order number.




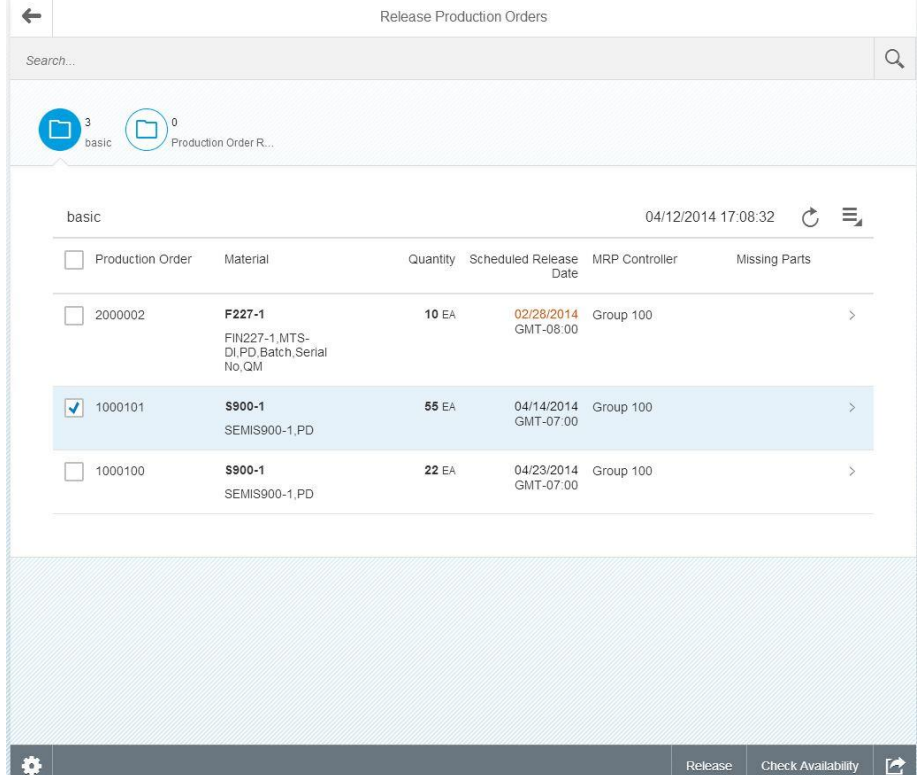
The screenshot shows the 'Production order Create: Header' screen. The top navigation bar includes 'Order', 'Functions', 'Edit', 'Goto', 'Header', 'Environment', 'System', and 'Help'. Below the navigation bar is a toolbar. The main area displays order details: 'Order' (000000000001), 'Material' (S900-1), 'Status' (CRTD MANC SETC), 'Type' (YBM1), and 'Plant' (1000). Below this is a tabbed interface with 'General' selected. The 'General' tab shows 'Quantities' (Total Qty: 22, Delivered: 0), 'Dates/Times' (End: 04/25/2014 00:00, Start: 04/23/2014 00:00, Release: 04/23/2014), 'Scheduling' (Type: 2 Backwards, Reduction: No reduction carried out), and 'Floats' (Sched. Margin Key: 000). At the bottom, there is a status bar with a green checkmark and the text 'scheduling carried out', the SAP logo, and the text '>> | C001 | vhc'.

Note down the production order number

 Order number 1000101 saved

4.5.2 Fiori App – Release Production Orders


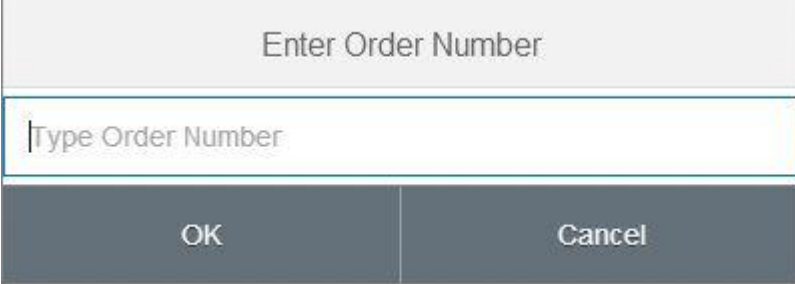
In this step you will release the production order in Fiori App.

What To Do	What you will see																												
<p>Click the Fiori App Release Production Orders</p>																													
<p>Select the line with your production order and choose Release.</p>	 <table border="1" data-bbox="550 1265 1372 1534"> <thead> <tr> <th><input type="checkbox"/></th> <th>Production Order</th> <th>Material</th> <th>Quantity</th> <th>Scheduled Release Date</th> <th>MRP Controller</th> <th>Missing Parts</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>2000002</td> <td>F227-1 FIN227-1.MTS-DI.PD, Batch, Serial No, QM</td> <td>10 EA</td> <td>02/28/2014 GMT-08:00</td> <td>Group 100</td> <td>></td> </tr> <tr style="background-color: #e6f2ff;"> <td><input checked="" type="checkbox"/></td> <td>1000101</td> <td>S900-1 SEMIS900-1, PD</td> <td>55 EA</td> <td>04/14/2014 GMT-07:00</td> <td>Group 100</td> <td>></td> </tr> <tr> <td><input type="checkbox"/></td> <td>1000100</td> <td>S900-1 SEMIS900-1, PD</td> <td>22 EA</td> <td>04/23/2014 GMT-07:00</td> <td>Group 100</td> <td>></td> </tr> </tbody> </table>	<input type="checkbox"/>	Production Order	Material	Quantity	Scheduled Release Date	MRP Controller	Missing Parts	<input type="checkbox"/>	2000002	F227-1 FIN227-1.MTS-DI.PD, Batch, Serial No, QM	10 EA	02/28/2014 GMT-08:00	Group 100	>	<input checked="" type="checkbox"/>	1000101	S900-1 SEMIS900-1, PD	55 EA	04/14/2014 GMT-07:00	Group 100	>	<input type="checkbox"/>	1000100	S900-1 SEMIS900-1, PD	22 EA	04/23/2014 GMT-07:00	Group 100	>
<input type="checkbox"/>	Production Order	Material	Quantity	Scheduled Release Date	MRP Controller	Missing Parts																							
<input type="checkbox"/>	2000002	F227-1 FIN227-1.MTS-DI.PD, Batch, Serial No, QM	10 EA	02/28/2014 GMT-08:00	Group 100	>																							
<input checked="" type="checkbox"/>	1000101	S900-1 SEMIS900-1, PD	55 EA	04/14/2014 GMT-07:00	Group 100	>																							
<input type="checkbox"/>	1000100	S900-1 SEMIS900-1, PD	22 EA	04/23/2014 GMT-07:00	Group 100	>																							

<p>Choose <i>Release</i>. You should get system message, showing the production order has been released.</p>	
--	--

4.5.3 Fiori App – Confirm Production Order

In this step you will confirm the production order released previously in Fiori App.

<i>What To Do</i>	<i>What you will see</i>
<p>Click Fiori App Confirm Production Orders</p>	
<p>Enter the order number and choose <i>OK</i></p>	

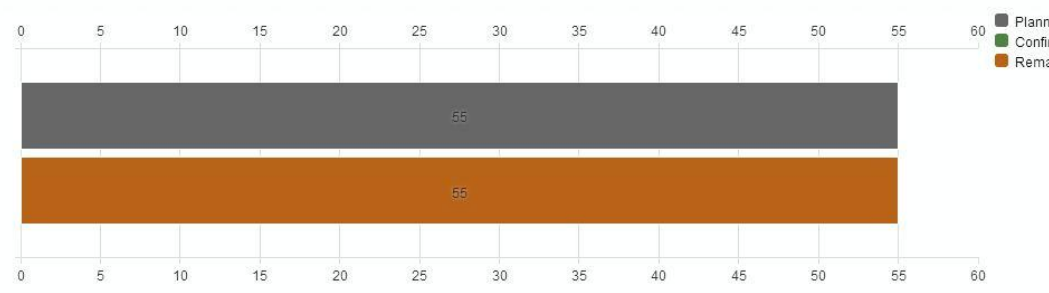
Check the details
and choose
Confirm

← Order

Order: 1000101 55.0
EA
Released

Material Description: SEMIS900-1,PD
Material: S900-1

Quantities



0 5 10 15 20 25 30 35 40 45 50 55 60

Planned 55
Remain 55

0 5 10 15 20 25 30 35 40 45 50 55 60

Yield
Rew
Scra

Dates

Planned Order Start Date: 04/14/2014 11:46:53
Planned Order End Date: 04/17/2014 16:00:00
Execution Start:

⚙️ Confirm Select C

Execute Final confirmation, enter necessary information and choose **SAVE**.

← Confirm Order


Order: 1000101 55

Goods Movement


Confirmation: Partial Final


Yield: EA


Scrap: EA

Scrap Reason: 

Rework: EA


Posting Date: 

Execution Start: 

Finish Execution: 

Personnel Number:

Confirmation Text:



The graphic is adjusted automatically.

←
Order

Order: 1000101

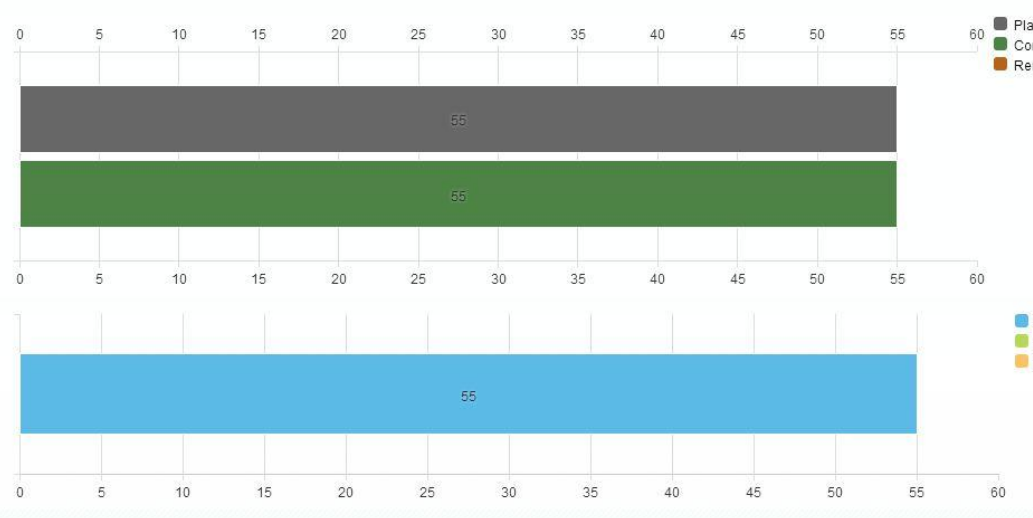
Material Description: SEMIS900-1,PD

Material: S900-1

0.0

Confirmed

Quantities



0 5 10 15 20 25 30 35 40 45 50 55 60

0 5 10 15 20 25 30 35 40 45 50 55 60

0 5 10 15 20 25 30 35 40 45 50 55 60

- Planned
- Confirmed
- Yield
- Rew
- Scra

Dates

Planned Order Start Date: 04/14/2014 11:46:53

Planned Order End Date: 04/17/2014 16:00:00

Execution Start: 04/12/2014 08:20:00

Confirm
Select C

Delivery & Analysis

After Production is confirmed, you can continue to with Sales Order Delivery and Analytics as indicated before

5 Additional Fiori Apps and HANA Live Analytic Content

Please note that in addition to the Apps included in the demo flow, the paRDS also delivers a variety of additional applications and reports, as listed below.

5.1 Fiori Transactional Apps

The following Fiori transactional Apps are available in the landscape and are ready for run.

Application Area	Fiori App
SD	Create Sales Orders
	Change Sales Orders
	Track Sales Orders
	Track Shipments (technically enabled only)
	Customer Invoices
	Check Price and Availability
	My Quotations
	My Contacts
MM	Order From Requisitions
	Track Purchase Orders
PP	Confirm Production Orders
	Confirm Production Operations
	Report Quality Issue
	My Quality Tasks
	Release Production Orders
Project Management	Change WBS Element Status
	Confirm Project Milestone
	Confirm Network Activity
Manager	Approve Leave Request (technical enabled only)
	Approve Timesheet (technical enabled only)
	Approve Purchase Contracts
	Approve Purchase Orders
	Approve Requisitions
	My Spend
Employee	My Leave Requests (technical enabled only)
	My Timesheet
	My Paystubs (technical enabled only)
	My Benefits (technical enabled only)

MRP	Monitor Materials with Shortages
	Monitor External Requirements
	Check Material Coverage

5.2 Fiori Analytical App – Smart Business Analytics App

The following analytical Fiori Apps or smart business analytics App are available in the landscape and are ready for run.

Name	
Cash Management	Liquidity Forecast
	Cash Position
Sales Order Fulfillment Cockpit	Fulfillment Issues for Dom. Sales Org
Purchasing	Contract Usage
	Off Contract Spend
	Contract Expiry
	Non Managed Spend
	Unused Contract
Inventory Management	Valuated Stock Quantity
	Valuated Stock Value
	Range of Coverage
Inventory Turnover	

5.3 Fiori Fact Sheet

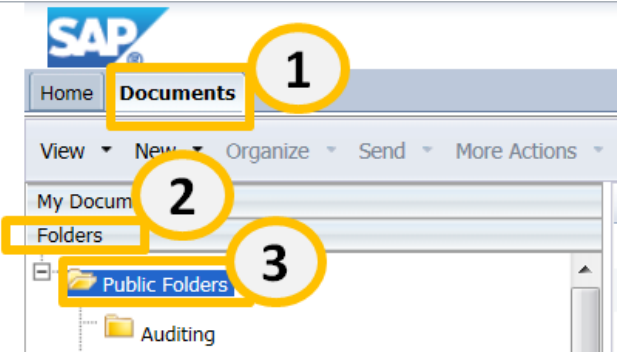
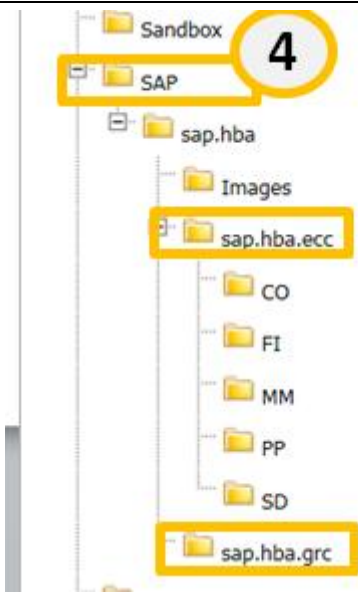
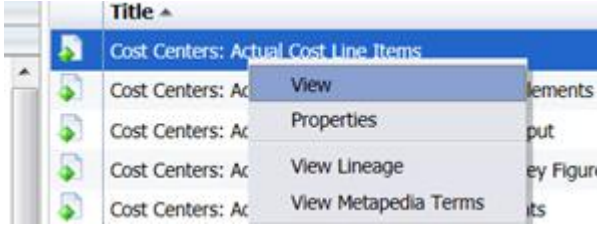
The following Fiori Fact Sheets are implemented.

- Customer Factsheet
- Material Factsheet
- Sales Order Factsheet
- Outbound Delivery Factsheet
- Billing/Accounting Document Factsheet
- Sales Quotation Factsheet
- Supplier Invoice
- Purchase Order
- Purchase Requisition Item
- Purchase Contract
- Purchasing Info Record
- Supplier

- Service Master Data
- Goods Issue
- Goods Receipt
- Material Movement
- Physical Inventory
- Accounting Document
- Activity Type
- Bank
- Controlling Document
- Cost Element
- Cost Element Group
- Cost Center
- Cost Center Group
- Customer Accounting Documents
- Fixed Asset
- GL Account
- House Bank
- House Bank Account
- Internal Order
- Profit Center
- Vendor Accounting Documents

5.4 HANA Live reports

Explorer HANA Live reports as described below:

What To Do	What you will see
<p>In the BI Launchpad, choose:</p> <ol style="list-style-type: none"> 1. Documents 2. Folders 3. Public Folders 	
<p>Expand the node SAP</p> <p>The pre-deployed BOBJ reports are under folders:</p> <p>“sap.hba.ecc” (SAP ERP backend based reports)</p> <p>“sap.hba.grc” (SAP GRC Access Control backend based reports)</p>	
<p>Choose one report, right click and choose “View”.</p> <p>You will be asked to enter parameters in the respective input fields.</p> <p>Then choose <i>Run</i> to view the report result.</p>	

Note: currently to view the BO explorer reports, the BI platform needs to be restarted on the OS level. Please contact your system administrator for this.

The following reports are available.

Application Area	Report Name	Report Type
ERP		
FI	Chart of Account Detail	Crystal Reports
FI	GL Line Item - Entry View	Crystal Reports
FI	GL Line Item - GL View	Crystal Reports
FI	G/L Account Balances(New)	Crystal Reports
FI	Transaction Figure: Account Balance	Crystal Reports
FI	Accounting Document Journal	Crystal Reports
FI	Chart of Account	Web Intelligence
CO	Cost Centers: Actual/Plan/Variance – Cost Elements	Crystal Reports
CO	Cost Centers: Actual/Target/Variance – Cost Elements	Crystal Reports
CO	Cost Centers: Actual/Plan/Variance – Activity Output	Crystal Reports
CO	Cost Centers: Actual/Plan/Variance – Statistical Key Figures	Crystal Reports
CO	Cost Centers: Actual Line Item	Crystal Reports
CO	Cost Centers: Actual / Plan / Commitments	Crystal Reports
CO	Cost Centers: Commitments Line Items	Crystal Reports
CO	Cost Efficiency Analysis	Information Space
CO	Cost Efficiency Analysis View	Exploration View Set
SD	Quotation Value tracking per customer	Crystal Reports
SD	Sales Order Value Tracking	Crystal Reports
SD	Latest Sales Progress by Quarter	Crystal Reports
SD	Top 10 customers (based on incoming orders)	Crystal Reports
SD	Top 10 Materials based on Incoming Order Value	Crystal Reports
SD	Sales period overview	Crystal Reports

SD	Sales Value Overview	Crystal Reports
SD	Customer Sales Document	Crystal Reports
SD	Rejected Sales Orders	Crystal Reports
SD	Sales Amount	Analysis Application
SD	Sales History Report	SAP Lumira
SD	Material Sales Amount	SAP Lumira
SD	Sales Growth Rate	Dashboards
MM	Inventory Management Report	Analysis Workspace
MM	Purchase Order Value	Web Intelligence
MM	Purchasing Group Analysis	Dashboards
MM	Purchasing Group Analysis	Information Space
MM	Purchase Order Value - Delivery Invoice	Information Space
MM	Purchase Order Average Delivery Time	Information Space
MM	Purchase Order Value	Information Space
MM	Vendor Comparison via Purchasing Value	Information Space
MM	Warehouse Stock Quantities	Information Space
MM	Non Special Warehouse Stock Quantities	Information Space
MM	Stock Overview for Valuated Materials	Information Space
MM	Stock Overview for Special Stock with Valuated Materials	Information Space
MM	Stock Overview for Valuated Materials without Special Stock	Information Space
PP	Planned Order Backlog	Dashboards

GRC		
	Access Control Alert Detail Overview	Information Space
	Access Control Alert Management Summary	Information Space
	Access Control Organization Rules Overview	Information Space
	Access Control Profile Risk Management Summary	Information Space
	Access Control Profile Total Management Summary	Information Space
	Access Control Profile Violation Count for Management Summary	Information Space
	Access Control Role Risk Management Summary	Information Space
	Access Control Role Total Management Summary	Information Space
	Access Control Role Violation Count for Management Summary	Information Space
	Access Control Rule Management Count	Information Space
	Access Control User Risk Management Summary	Information Space
	Access Control User Total Management Summary	Information Space
	Access Control User Violation Count for Management Summary	Information Space
	Access Request Item Overview	Information Space
	Access Risk Overview	Information Space
	Access Work flow Request Overview	Information Space
	Business Role Management Role Relations Overview	Information Space
	Consolidated Action Log	Information Space
	Critical Profile Overview	Information Space
	Critical Role Overview	Information Space
	Firefighter Logon Overview	Information Space

A COPA Lumira report and COPA BO Explorer have been created for demo purpose and implemented. For details of both items, please refer to the demo variant 1.

In addition, the HANA analytics application GR/IR Monitoring has been implemented.

6 Best Practices Documentation

6.1 Available Best Practices Documentation

In addition to the demo script described in this document, you can refer to the business processes documentation for an even broader experience.

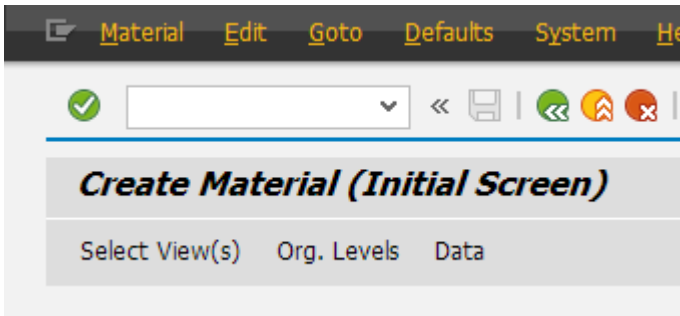
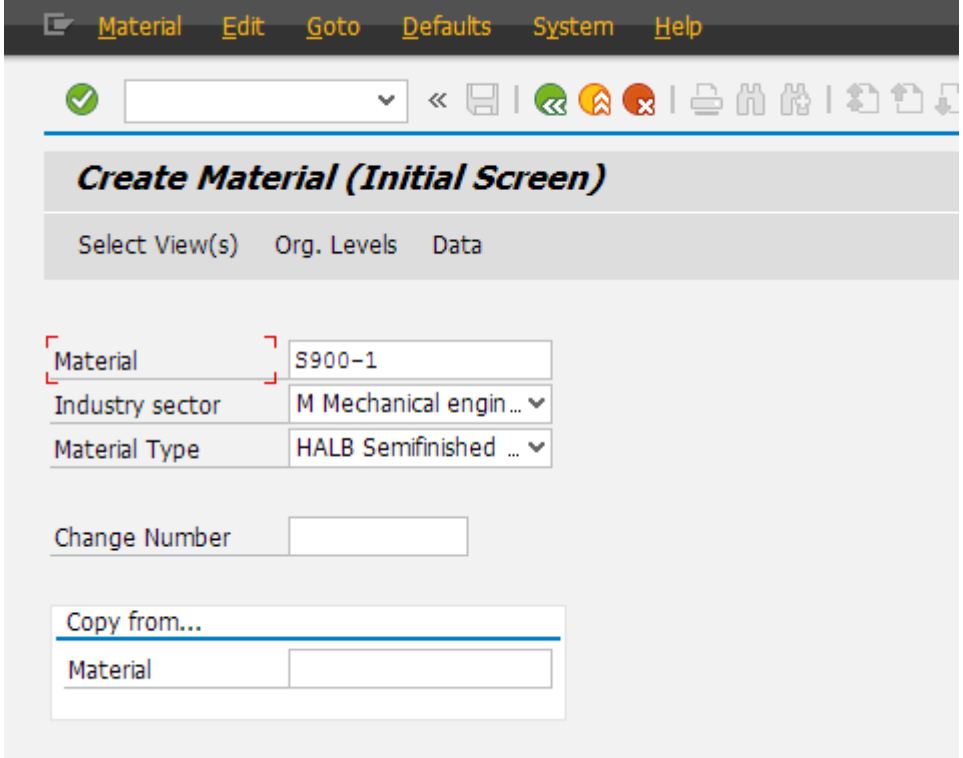
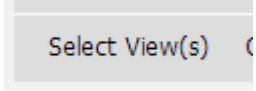
Topic	Link
SAP ERP US RDS	Content Library
SAP ERP US Chemicals	Content Library
SAP ERP US Discrete Manufacturing	Content Library
SAP ERP DE RDS	Content Library
SAP GRC Access Control RDS	Content Library
SAP HANA Live RDS	Content Library
SAP Fiori App RDS	Content Library
SAP Fiori App to baseline integration	SAP Note 1925320


7 Appendix

In the following steps, you see how the material S900-1 has been created.

7.1 Create Material

In the following steps, you create a material which can be used for the MRP Fiori app.

What To Do	What you will see
<p>Enter the T-code: MM01</p>	
<p>Enter the following data: Material: S900-1 Industry sector: Mechanical engineering Material Type: Semi-finished</p>	
<p>Choose: Select View(s)</p>	


Select the views and
press enter 

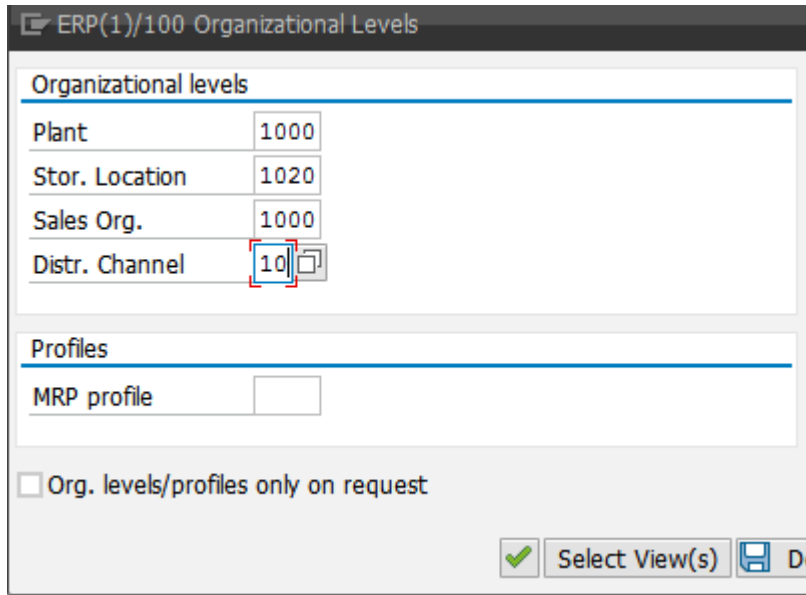
ERP(1)/100 Select View(s)

View	
Basic Data 1	^
Basic Data 2	v
Classification	
Sales: Sales Org. Data 1	
Sales: Sales Org. Data 2	
Sales: General/Plant Data	
Foreign Trade: Export Data	
Sales Text	
Purchasing	
Foreign Trade: Import Data	
Purchase Order Text	
MRP 1	
MRP 2	
MRP 3	
MRP 4	
Forecasting	
Work Scheduling	^

ERP(1)/100 Select View(s)


View	
General Plant Data / Storage 1	^
General Plant Data / Storage 2	v
Warehouse Management 1	
Warehouse Management 2	
Quality Management	
Accounting 1	
Accounting 2	
Costing 1	
Costing 2	

Enter the organizational levels and press enter 



ERP(1)/100 Organizational Levels



Organizational levels

Plant	1000
Stor. Location	1020
Sales Org.	1000
Distr. Channel	10 

Profiles


MRP profile

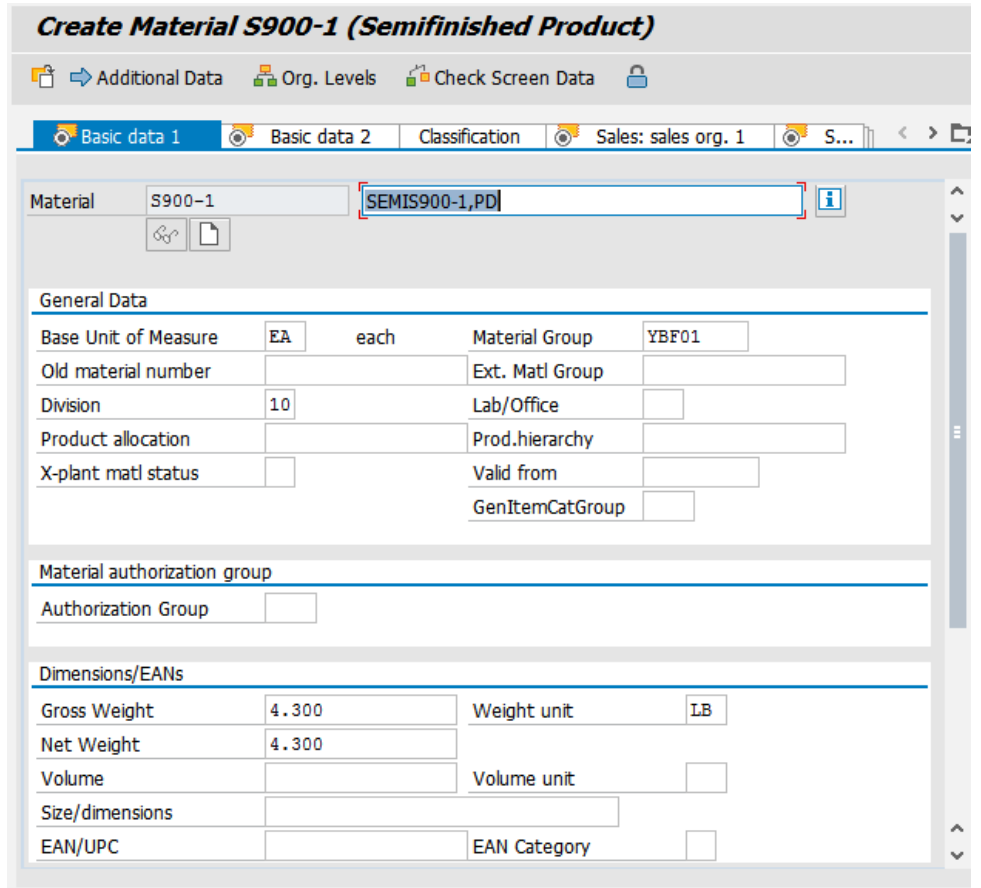
Org. levels/profiles only on request

 Select View(s)  D...


Enter the data on all view according the screenshots.

Please make sure that you select all views!


Please save the new created material after selecting all views .



Create Material S900-1 (Semifinished Product)

Additional Data Org. Levels Check Screen Data 

Basic data 1 Basic data 2 Classification Sales: sales org. 1 S...

Material S900-1 SEMIS900-1,PD 

General Data

Base Unit of Measure	EA	each	Material Group	YBF01
Old material number			Ext. Matl Group	
Division	10		Lab/Office	
Product allocation			Prod.hierarchy	
X-plant matl status	<input type="checkbox"/>		Valid from	
			GenItemCatGroup	


Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight	4.300	Weight unit	LB
Net Weight	4.300		
Volume		Volume unit	
Size/dimensions			
EAN/UPC		EAN Category	

Create Price Condition (PR00) : Scales



Variable key

SOrg.	DChI	Material	Re...	Description
1000	10	S900-1		Released

Validity

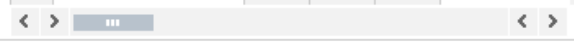
Valid From	04/02/2014
Valid to	12/31/9999


Control

ScaleBasis	C	Quantity scale
Check	A	Descending

Scales

Scale Type	Scale quantity	U...	Amount	Unit	per	UoM
From		EA	119.00	USD		1 EA





Create Material S900-1 (Semifinished Product)

Additional Data Org. Levels Check Screen Data

Sales: sales org. 1 Sales: sales org. 2 Sales: General/Plant For...

Material S900-1 SEMIS900-1,PD
 Sales Org. 1000 Dom. Sales Org
 Distr. Chl 10 Direct Sales

Grouping terms

Matl statistics grp	1	Material pricing grp	
Volume rebate group		Acct assignment grp	02
Gen. item cat. grp	NORM	Item category group	NORM
Pricing Ref. Matl			
Product hierarchy			
Commission group			

Product attributes

<input type="checkbox"/> Product attribute 1	<input type="checkbox"/> Product attribute 2	<input type="checkbox"/> Product attribute 3
<input type="checkbox"/> Product attribute 4	<input type="checkbox"/> Product attribute 5	<input type="checkbox"/> Product attribute 6
<input type="checkbox"/> Product attribute 7	<input type="checkbox"/> Product attribute 8	<input type="checkbox"/> Product attribute 9
<input type="checkbox"/> Product attribute 10		

Create Material S900-1 (Semifinished Product)

Additional Data Org. Levels Check Screen Data

Sales: sales org. 2 Sales: General/Plant Foreign trade export S..

Material S900-1 SEMIS900-1,PD
 Plant 1000 Plant 1

General data

Base Unit of Measure	EA	each	Replacement part	<input type="checkbox"/>
Gross Weight	4.300	LB	Qual.f.FreeGoodsDis.	<input type="checkbox"/>
Net Weight	4.300		Material freight grp	
Availability check	Y2		<input type="checkbox"/> Appr.batch rec. req.	
<input type="checkbox"/> Batch management				

Shipping data (times in days)

Trans. Grp	0001	LoadingGrp	0001
Setup time		Proc. time	
Base qty			EA

Packaging material data

Matl Grp Pack.Matls	
Ref. mat. for pckg	

General plant parameters

Create Material S900-1 (Semifinished Product)

Additional Data | Org. Levels | Check Screen Data

Sales: sales org. 2 | Sales: General/Plant | Foreign trade export | S..

Base Unit of Measure	EA	each	Replacement part	<input type="checkbox"/>
Gross Weight	4.300	LB	Qual.f.FreeGoodsDis.	<input type="checkbox"/>
Net Weight	4.300		Material freight grp	<input type="text"/>
Availability check	Y2		<input type="checkbox"/> Appr.batch rec. req.	
<input type="checkbox"/> Batch management				

Shipping data (times in days)

Trans. Grp	0001	LoadingGrp	0001
Setup time	<input type="text"/>	Proc. time	<input type="text"/>
Base qty	<input type="text"/>		EA

Packaging material data

Matl Grp Pack.Mats	<input type="text"/>
Ref. mat. for pkg	<input type="text"/>

General plant parameters

<input type="checkbox"/> Neg.stocks	Profit Center	YD110	<input type="checkbox"/> SerialNoProfile	<input type="text"/>	DistProf	<input type="text"/>
			SerializLevel	<input type="text"/>		

Ext. customer repl. parameters

Create Material S900-1 (Semifinished Product)

Additional Data | Org. Levels | Check Screen Data

Purchase order text | MRP 1 | MRP 2 | MRP 3 | MRP 4 | F

Material	S900-1	SEMI900-1,PD
Plant	1000	Plant 1

General Data

Base Unit of Measure	EA	each	MRP group	<input type="text"/>
Purchasing Group	100		ABC Indicator	<input type="text"/>
Plant-sp.matl status	<input type="checkbox"/>		Valid from	<input type="text"/>

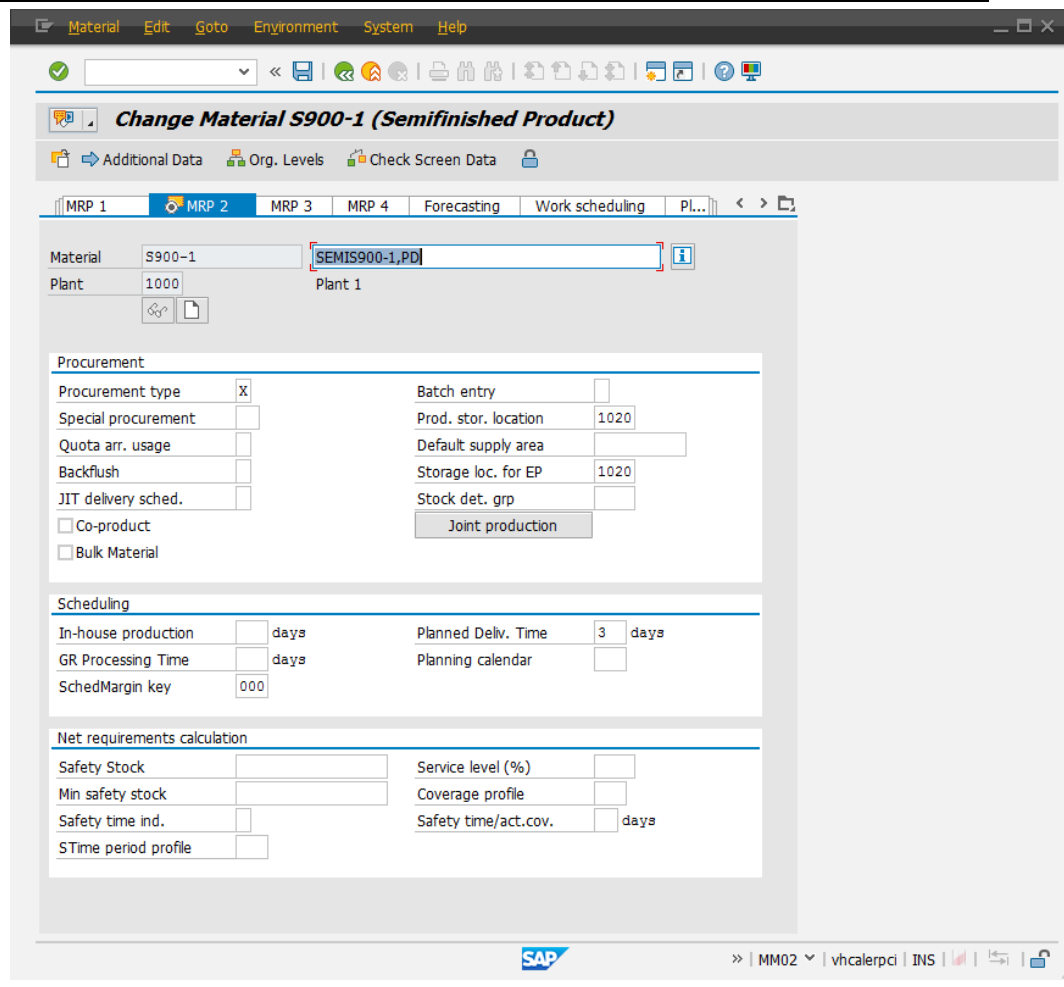
MRP procedure

MRP Type	PD	Planning time fence	<input type="text"/>
Reorder Point	<input type="text"/>	MRP Controller	100
Planning cycle	<input type="text"/>		

Lot size data

Lot size	EX	Maximum Lot Size	<input type="text"/>
Minimum Lot Size	<input type="text"/>	Maximum stock level	<input type="text"/>
Fixed lot size	<input type="text"/>	Storage costs ind.	<input type="checkbox"/>
Ordering costs	<input type="text"/>	Takt time	<input type="text"/>
Assembly scrap (%)	<input type="text"/>		

CHANGED



The screenshot shows the SAP MM02 'Change Material' interface for material S900-1 at Plant 1000. The 'SEMIS900-1,PD' variant is selected. The interface is divided into three main sections:


- Procurement:**
 - Procurement type: X
 - Special procurement:
 - Quota arr. usage:
 - Backflush:
 - JIT delivery sched.:
 - Co-product:
 - Bulk Material:
 - Batch entry:
 - Prod. stor. location: 1020
 - Default supply area:
 - Storage loc. for EP: 1020
 - Stock det. grp:
 - Joint production:
- Scheduling:**
 - In-house production: days
 - GR Processing Time: days
 - SchedMargin key: 000
 - Planned Deliv. Time: 3 days
 - Planning calendar:
- Net requirements calculation:**
 - Safety Stock:
 - Min safety stock:
 - Safety time ind.:
 - STime period profile:
 - Service level (%):
 - Coverage profile:
 - Safety time/act.cov.: days



The SAP logo and user information (MM02 | vhcalerpci | INS) are visible at the bottom of the window.

Change Material S900-1 (Semifinished Product)

➔ Additional Data
🏠 Org. Levels
🔍 Check Screen Data
🔒

MRP 2
MRP 3
MRP 4
Forecasting
Work scheduling
Plant data / ...

Material	S900-1	SEMIS900-1,PD	
Plant	1000	Plant 1	

Forecast Requirements

Period Indicator	W	Fiscal Year Variant	<input type="checkbox"/>	Splitting indicator	<input type="checkbox"/>
------------------	---	---------------------	--------------------------	---------------------	--------------------------



Planning

Strategy group	40	Planning with final assembly	
Consumption mode	2	Bwd consumption per.	30
Fwd consumption per.	30	Mixed MRP	1
Planning material		Planning plant	
Plng conv. factor		Planning matl BUnit	

Availability check

Availability check	Y2	Tot. repl. lead time	7	days
Cross-project	<input type="checkbox"/>			

Plant-specific configuration

ConfigurableMaterial	
<input type="checkbox"/> Variant	 Configure variant
<input type="checkbox"/> Planning variant	 Configure planning variant

Create Material S900-1 (Semifinished Product)

Additional Data
Org. Levels
Check Screen Data
🔒

Forecasting
Work scheduling
Plant data / stor. 1
Plant data / ...
⏪ ⏩ 🗑

Material i

Plant Plant 1

🔄 📄

General Data

Base Unit of Measure	<input type="text" value="EA"/> each	Unit of issue	<input type="text"/>
Production unit	<input type="text"/>	P-S matl status	<input type="text"/> Valid from <input type="text"/>
Prodn Supervisor	<input type="text" value="YB1"/> MTS DI - V...	Prod.stor.loc.	<input type="text" value="1020"/>
Prod.Sched.Profile	<input type="text" value="YB0001"/> MTS DI Val...	Mat. Grouping	<input type="text"/>
Serial no. profile	<input type="text"/> SerLevel <input type="text"/>	Overall profile	<input type="text"/>
<input type="checkbox"/> Insp.stock	<input type="checkbox"/> Critical Part	<input type="checkbox"/> Version Indicator	ProdVersions
	<input type="checkbox"/> Batch rec. req.	Batch entry	<input type="text"/> <input type="checkbox"/> BatchManagement
OB Management	<input type="text"/>	OB ref. matrial	<input type="text"/>





Tolerance data





Underdely tol. percent Overdely tol. percent Unlimited


In-house production time in days

Lot size dependent		Lot size independent	
Setup time	<input type="text" value="0.03"/> Interoperation <input type="text"/>	InhseProdTime	<input type="text"/>
Processing time	<input type="text" value="0.06"/> Base quantity <input type="text" value="1"/>		



Create Material S900-1 (Semifinished Product)

 Additional Data
 Org. Levels
 Check Screen Data


Quality management
 Accounting 1
 Accounting 2
 Costing 1


Material 

Plant Plant 1

General Data

Base Unit of Measure	<input type="text" value="EA"/>	each	Valuation Category	<input type="text"/>
Currency	<input type="text" value="USD"/>		Current period	<input type="text" value="03 2014"/>
Division	<input type="text" value="10"/>		Price determ.	<input type="text"/> <input type="checkbox"/> ML act.

Current valuation


Valuation Class	<input type="text" value="7900"/>	Proj. stk val. class	<input type="text"/>
VC: Sales order stk	<input type="text"/>	Price Unit	<input type="text" value="1"/>
Price Control	<input type="text" value="S"/>	Standard price	<input type="text" value="80.00"/>
Moving price	<input type="text" value="70.00"/>	Total Value	<input type="text" value="0.00"/>
Total Stock	<input type="text" value="0"/>	<input type="checkbox"/> Valuated Un	
Future price	<input type="text"/>	Valid from	<input type="text"/>

7.2 Create Bill of Material

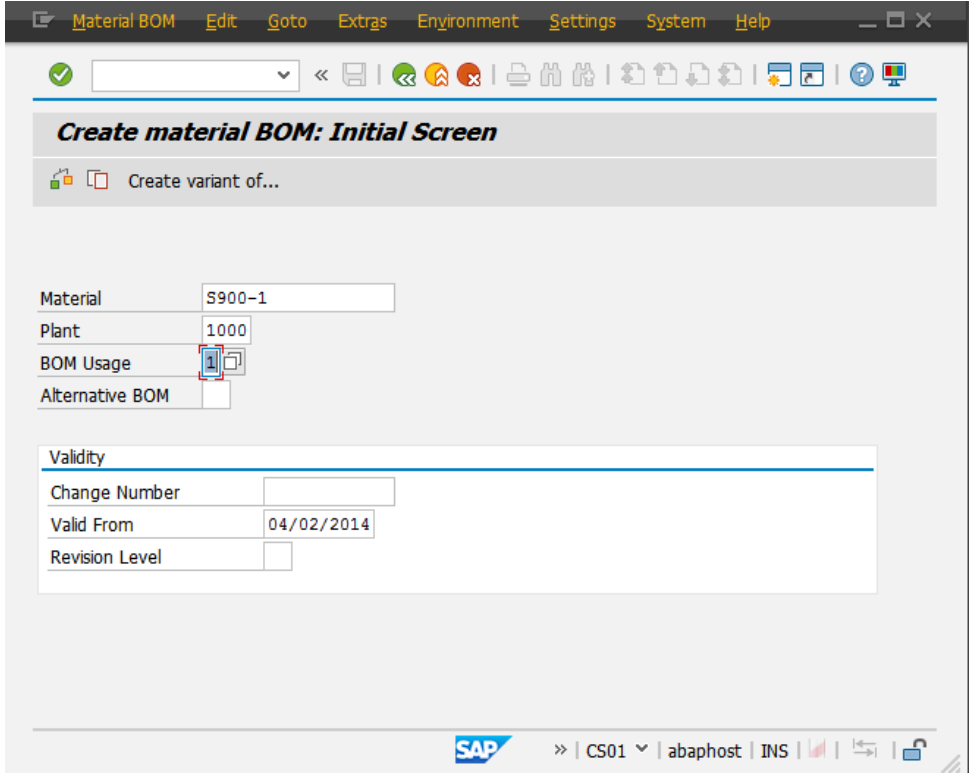
In the following steps, you create a BOM for material S900-1.

What To Do

Enter the T-code:
CS01

Enter the data like
shown on the
screenshot and
press enter .

What you will see



The screenshot displays the SAP 'Create material BOM: Initial Screen'. The interface includes a menu bar with options like 'Material BOM', 'Edit', 'Goto', 'Extrgs', 'Environment', 'Settings', 'System', and 'Help'. Below the menu, there is a toolbar with various icons. The main area is titled 'Create material BOM: Initial Screen' and contains a 'Create variant of...' section. The input fields are as follows:

Material	S900-1
Plant	1000
BOM Usage	1
Alternative BOM	

Below these fields is a 'Validity' section with the following input fields:

Change Number	
Valid From	04/02/2014
Revision Level	

The bottom status bar shows the SAP logo and navigation information: '>> | CS01 | abaphost | INS | [icons]'.

BOM
Item

ERP(1)/120 Create material BOM: General Item Overview

Create material BOM: General Item Overview


Subitems | New Entries | Header | Validity


Material: S900-1 SEMIS900-1,PD
 Plant: 1000 Plant 1
 Alternative BOM: 1

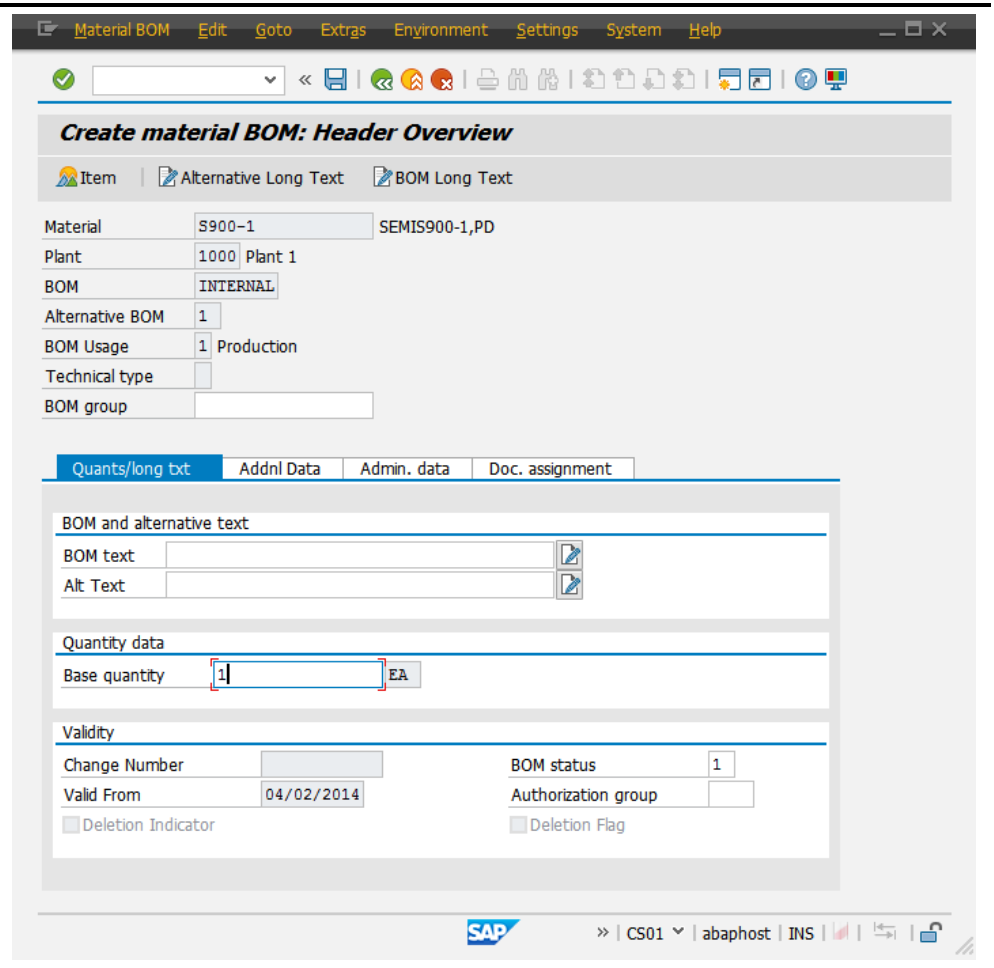
Material | Document | General

Item	ICt	Component	Component description	Quantity	Un	A...	SIs	Valid From	Valid to
0010	L	R15	RAW15,PD	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	04/02/2014	12/31/9999
0020						<input type="checkbox"/>	<input type="checkbox"/>		
0030						<input type="checkbox"/>	<input type="checkbox"/>		
0040						<input type="checkbox"/>	<input type="checkbox"/>		
0050						<input type="checkbox"/>	<input type="checkbox"/>		
0060						<input type="checkbox"/>	<input type="checkbox"/>		
0070						<input type="checkbox"/>	<input type="checkbox"/>		
0080						<input type="checkbox"/>	<input type="checkbox"/>		
0090						<input type="checkbox"/>	<input type="checkbox"/>		
0100						<input type="checkbox"/>	<input type="checkbox"/>		
0110						<input type="checkbox"/>	<input type="checkbox"/>		

Position... Initial Entry 1 / 1

SAP >> | CS01 | abaphost | INS | 

BOM Header
 Save the BOM after
 maintaining all
 data .





Create material BOM: Header Overview

Item | Alternative Long Text | BOM Long Text

Material: S900-1 SEMIS900-1,PD
 Plant: 1000 Plant 1
 BOM: INTERNAL
 Alternative BOM: 1
 BOM Usage: 1 Production
 Technical type:
 BOM group:

Quants/long txt | Addnl Data | Admin. data | Doc. assignment

BOM and alternative text




BOM text: 
 Alt Text: 

Quantity data

Base quantity: EA


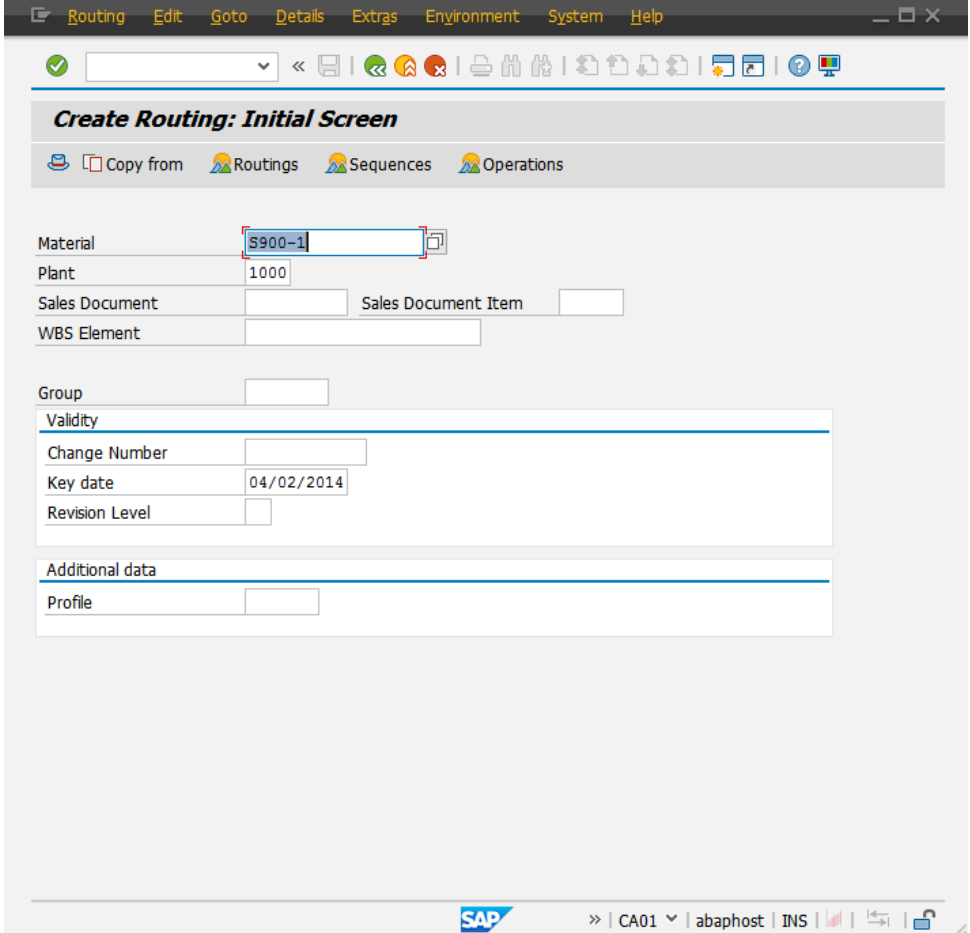
Validity

Change Number: BOM status:
 Valid From: 04/02/2014 Authorization group:
 Deletion Indicator Deletion Flag

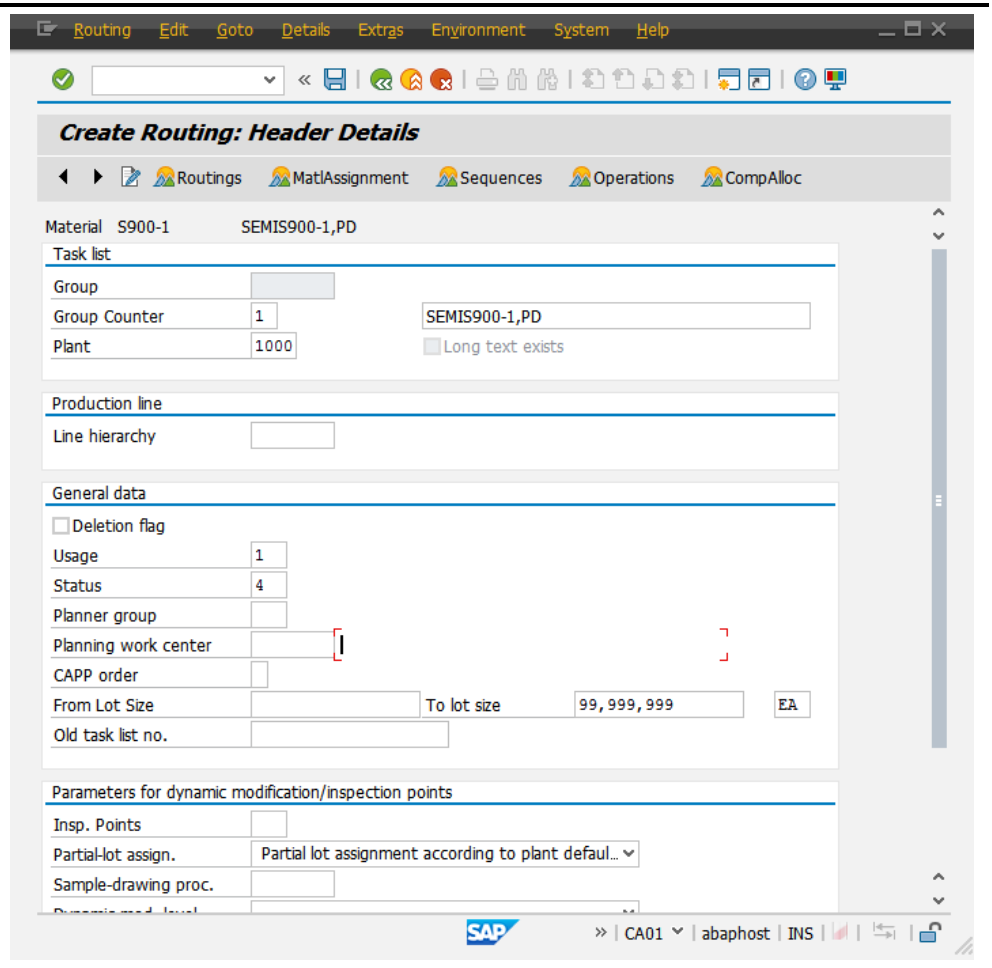
SAP >> | CS01 | abaphost | INS |   

7.3 Create Routing

In the following steps, you create a routing for material S900-1.

What To Do	What you will see
<p>Enter the T-code: CA01</p> <p>Enter the data like shown on the screenshot and press enter .</p>	 <p>The screenshot displays the 'Create Routing: Initial Screen' in SAP. The interface includes a menu bar (Routing, Edit, Goto, Details, Extras, Environment, System, Help) and a toolbar with various icons. The main content area contains the following fields:</p> <ul style="list-style-type: none"> Material: S900-1 (highlighted with a red box) Plant: 1000 Sales Document: (empty) Sales Document Item: (empty) WBS Element: (empty) Group: (empty) Validity: <ul style="list-style-type: none"> Change Number: (empty) Key date: 04/02/2014 Revision Level: (empty) Additional data: <ul style="list-style-type: none"> Profile: (empty) <p>The bottom status bar shows the SAP logo and navigation information: >> CA01 abaphost INS (refresh) (back) (lock)</p>

Routing Header



Create Routing: Header Details

Material S900-1 SEMIS900-1,PD

Task list

Group

Group Counter 1 SEMIS900-1,PD

Plant 1000 Long text exists

Production line

Line hierarchy

General data

Deletion flag

Usage 1

Status 4

Planner group

Planning work center

CAPP order

From Lot Size To lot size 99,999,999 EA

Old task list no.

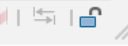
Parameters for dynamic modification/inspection points

Insp. Points

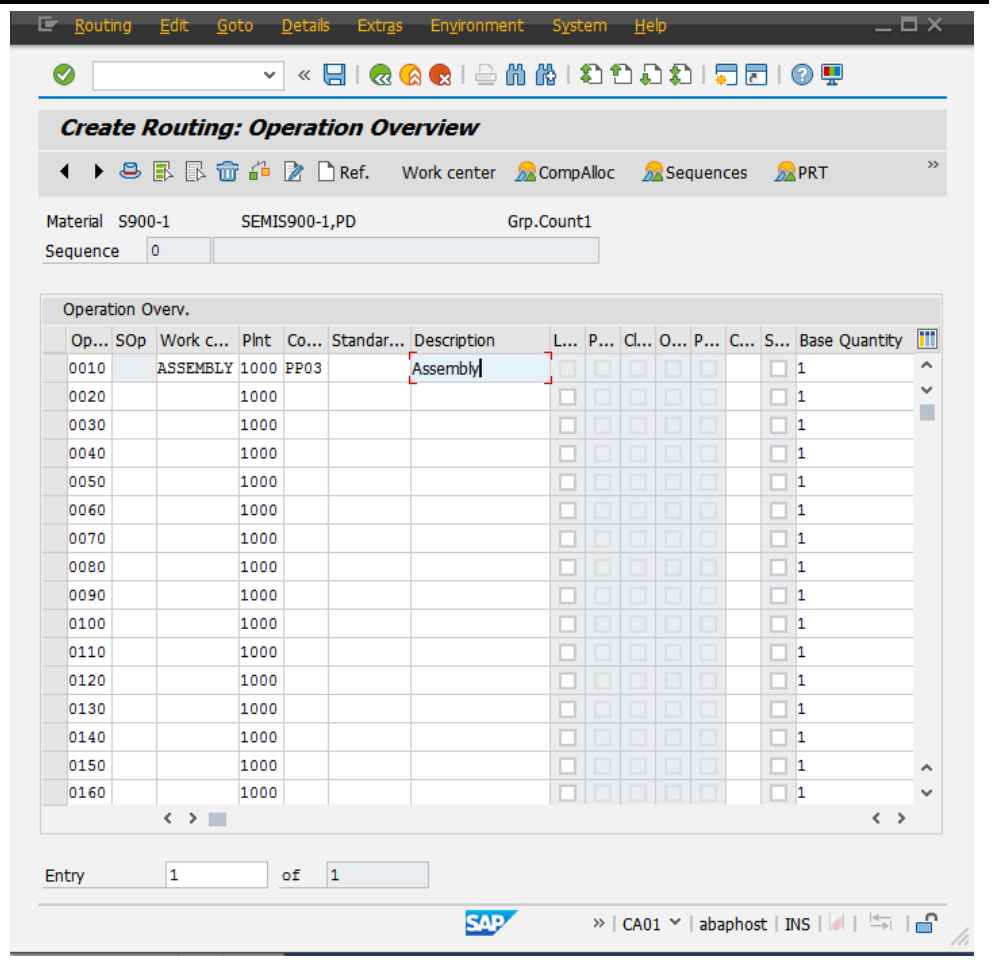
Partial-lot assign. Partial lot assignment according to plant default... ▾

Sample-drawing proc.

Success mod. level

SAP >> CA01 ▾ abaphost | INS | 

Routing: Operation Overview



Create Routing: Operation Overview

Material S900-1 SEMI900-1,PD Grp.Count1
 Sequence 0

Op...	SOp	Work c...	Plnt	Co...	Standar...	Description	L...	P...	Cl...	O...	P...	C...	S...	Base Quantity
0010		ASSEMBLY	1000	PP03		Assembly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0020			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0030			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0040			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0050			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0060			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0070			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0080			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0090			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0100			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0110			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0120			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0130			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0140			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0150			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
0160			1000				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1

Entry 1 of 1

SAP >> | CA01 | abaphost | INS |

Routing: Operation Details

Routing Edit Goto Details Extras Environment System Help

Change Routing: Operation Details

Work center Routings Sequences CompAlloc PRT

Material S900-1 SEMIS900-1,PD Grp.Count1

Operation

Operation/Activity **0010** Suboperation

Work center / P1nt ASSEMBLY / 1000 Assembly

Control key PP03 Routing - in-house prod. auto. goods rct

Standard text key Assembly

Long text exists

Standard Values

Base Quantity 1

Act./Operation UoM EA

Break

Conversion of Units of Measure

Header	Unit		Operat.	UoM
1	EA	<=>	1	EA


	Std Value	Un	Act. Type	Efficiency
Setup	30	MIN	3	
Machine	75	MIN	1	
Labor	75	MIN	11	

Business Process


Transfer to orders

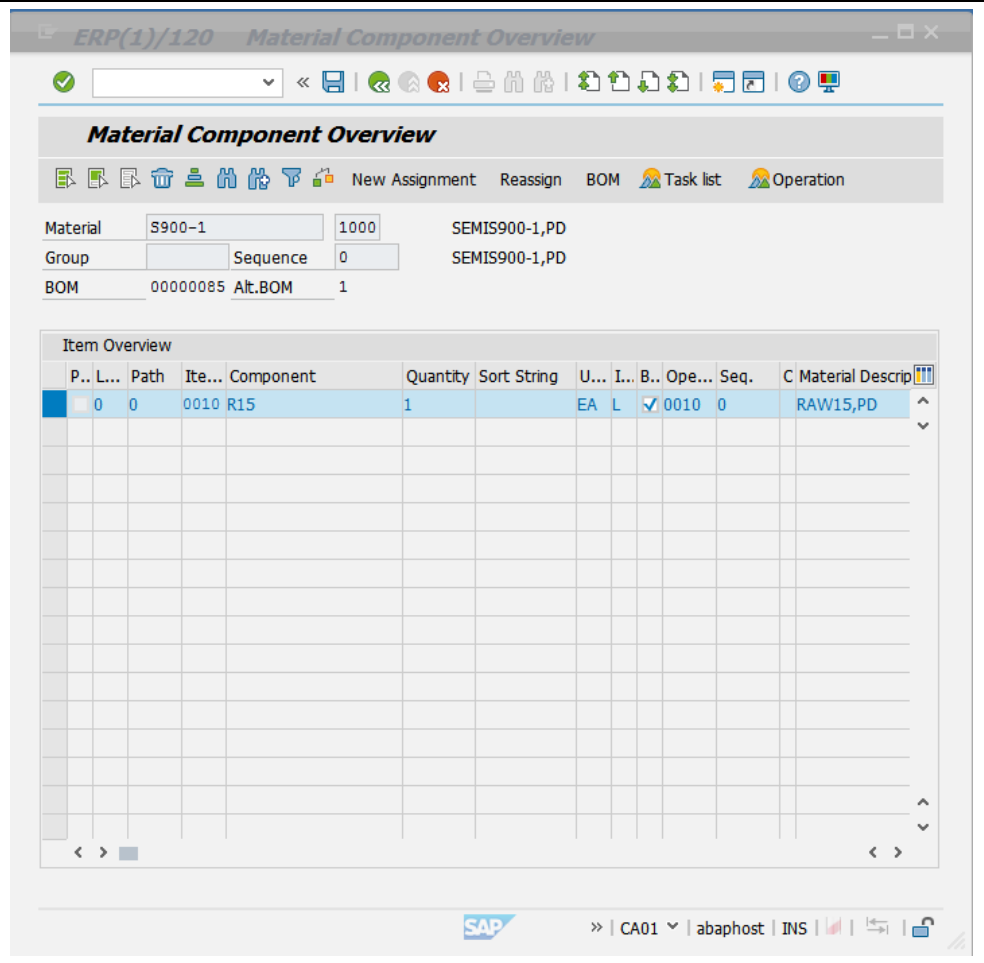
Cumul. type

Suboper. do not apply to order

 >> | CA02 | vhcalerpci | INS

Component assignment

Save the routing after maintaining all data .



The screenshot shows the SAP Material Component Overview interface. At the top, the title bar reads "ERP(1)/120 Material Component Overview". Below the title bar is a toolbar with various icons. The main header area contains the text "Material Component Overview" and a secondary toolbar with icons for "New Assignment", "Reassign", "BOM", "Task list", and "Operation".

Below the header, there are input fields for material data:

- Material: S900-1, 1000, SEMIS900-1,PD
- Group: [empty], Sequence: 0, SEMIS900-1,PD
- BOM: 00000085, Alt.BOM: 1

The main area is titled "Item Overview" and contains a table with the following columns: P.. L..., Path, Ite..., Component, Quantity, Sort String, U..., I..., B..., Ope..., Seq., C, Material Descrip. The first row of data is highlighted in blue:

P.. L...	Path	Ite...	Component	Quantity	Sort String	U...	I...	B...	Ope...	Seq.	C	Material Descrip.
0	0	0010	R15	1		EA	L	<input checked="" type="checkbox"/>	0010	0		RAW15,PD


At the bottom of the interface, there is a status bar with the SAP logo and the text "» | CA01 | abaphost | INS | [refresh icon] | [back icon] | [lock icon]".

7.4 Create Info Record

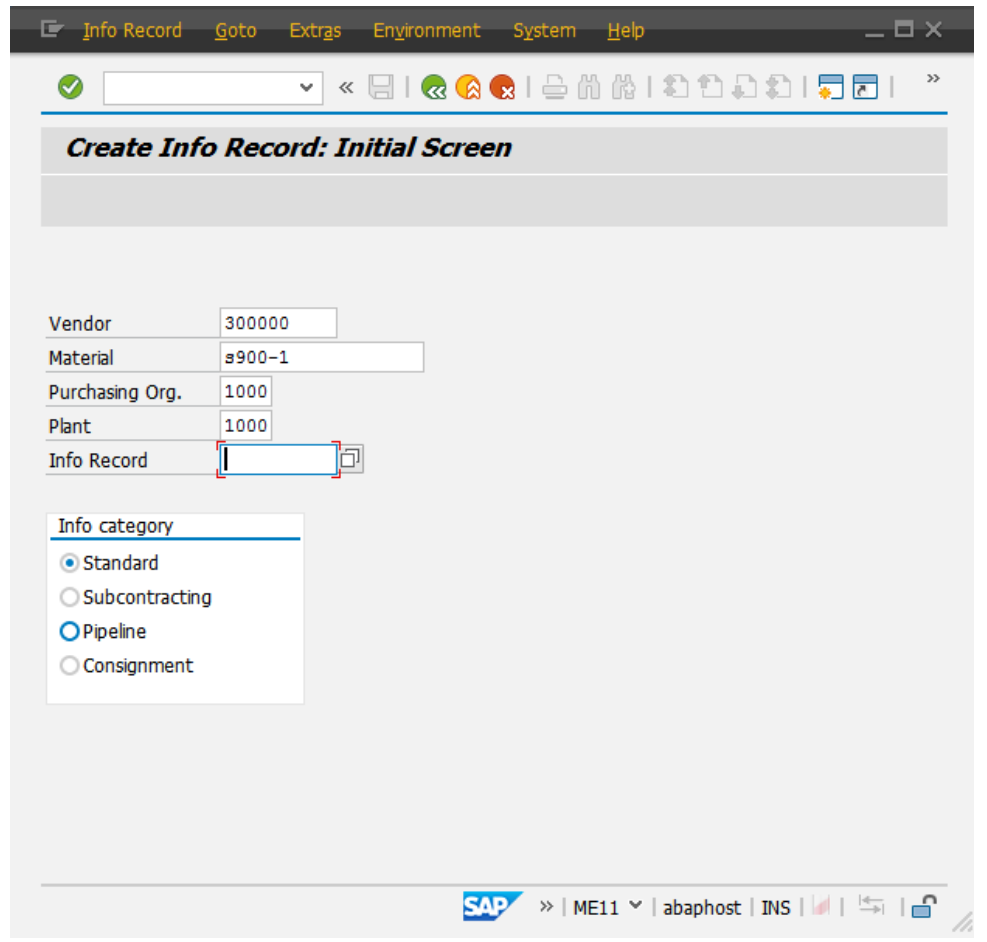
In the following steps, you create two info records for material S900-1.

What To Do

Enter the T-code:
ME11

Enter the data like
shown on the
screenshot and
press enter .

What you will see



The screenshot displays the SAP 'Create Info Record: Initial Screen' interface. The title bar includes 'Info Record', 'Goto', 'Extras', 'Environment', 'System', and 'Help'. A search bar at the top left contains a green checkmark and a dropdown arrow. The main area is titled 'Create Info Record: Initial Screen' and contains the following input fields:

Vendor	300000
Material	S900-1
Purchasing Org.	1000
Plant	1000
Info Record	

Below the input fields is a section titled 'Info category' with a dropdown arrow. The dropdown menu is open, showing four options:

- Standard
- Subcontracting
- Pipeline
- Consignment

The SAP logo and navigation icons are visible at the bottom right of the screen, including 'ME11', 'abaphost', and 'INS'.

Go to
Purch. Org. Data 1

Info Record Edit Goto Extras Environment System Help

Create Info Record: Purch. Organization Data 1

General Data Conditions Texts

Info Record [] []

Vendor 300000 [] Vendor domestic 00

Material S900-1 SEMIS900-1,PD

Material Group YBF01 Product Group F01

Purchasing Org. 1000 Plant 1000 Standard

Control

Pl. Deliv. Time 3 Days Tol. Underdl. [] % No MText

Purch. Group 100 Tol. Overdl. [] % Ackn. Rqd

Standard Qty 1 EA Unlimited Conf. Ctrl []

Minimum Qty [] EA GR-Bsd IV Tax Code I1

Rem. Shelf Life [] D No ERS

Shippg Instr. [] Procedure [] UoM Group []

Max. Quantity [] EA Rndg Prof. [] RMA Req. []

Conditions


Net Price [] 95.00 USD / 1 EA Valid to 12/31/9999


Effective Price [] 95.00 USD / 1 EA No Cash Disc.

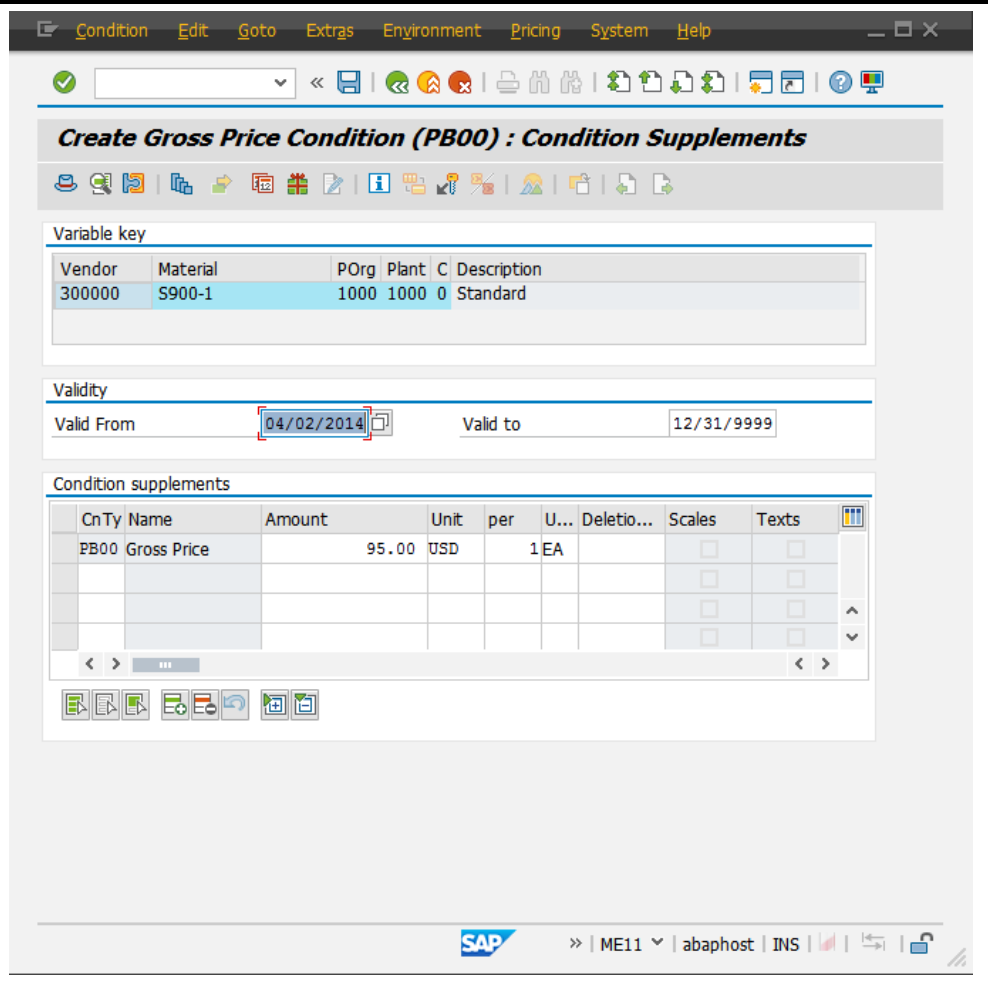
Qty Conv. 1 EA <-> 1 EA Cond. Grp []

Pr. Date Cat. [] No Control

Incoterms [] []

SAP >> ME11 | abaphost | INS | 

Go to **Conditions**
 Save the info record after maintaining all data .




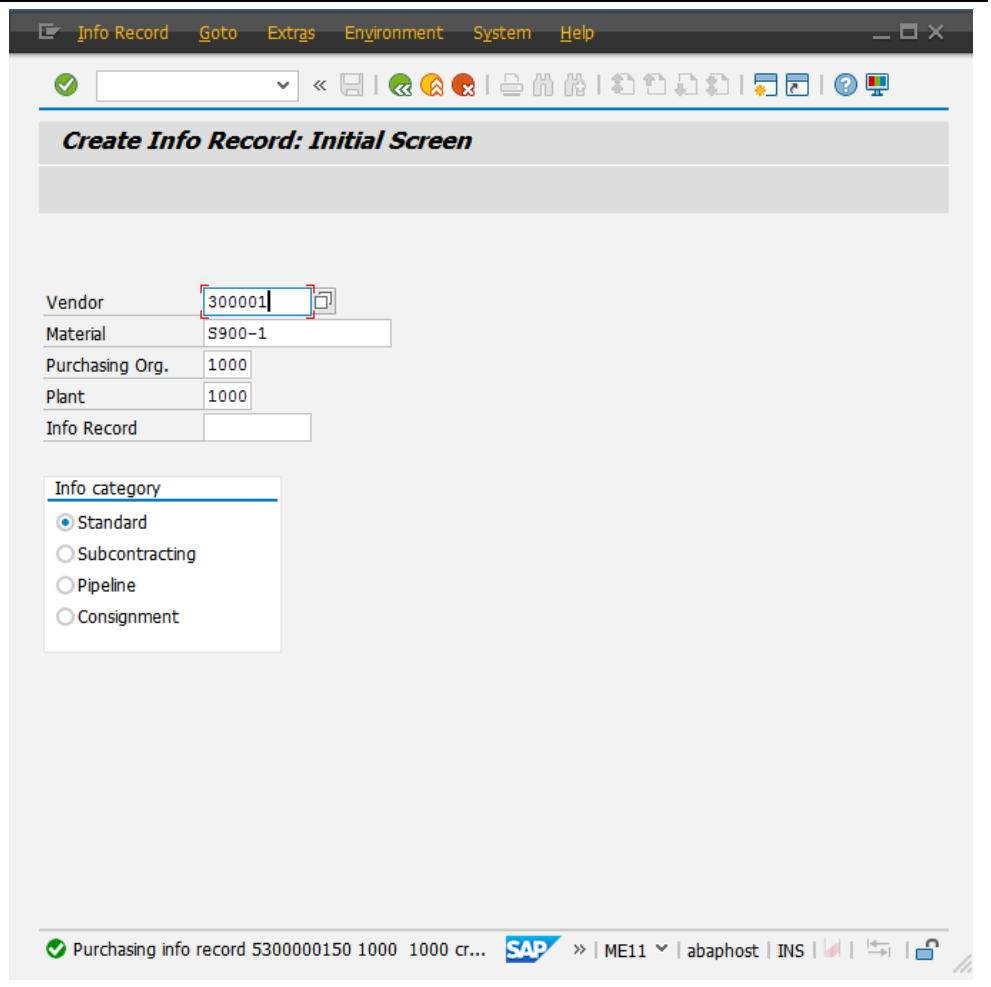
The screenshot shows the SAP 'Create Gross Price Condition (PB00) : Condition Supplements' dialog box. The interface includes a menu bar with options like Condition, Edit, Goto, Extras, Environment, Pricing, System, and Help. Below the menu is a toolbar with various icons. The main content area is divided into several sections:


- Variable key:** A table with columns Vendor, Material, POrg, Plant, C, and Description. The first row contains the values 300000, S900-1, 1000, 1000, 0, and Standard.
- Validity:** Fields for Valid From (04/02/2014) and Valid to (12/31/9999).
- Condition supplements:** A table with columns CnTy, Name, Amount, Unit, per, U..., Deletio..., Scales, and Texts. The first row shows PB00 Gross Price, 95.00, USD, 1 EA, and checkboxes for Scales and Texts.

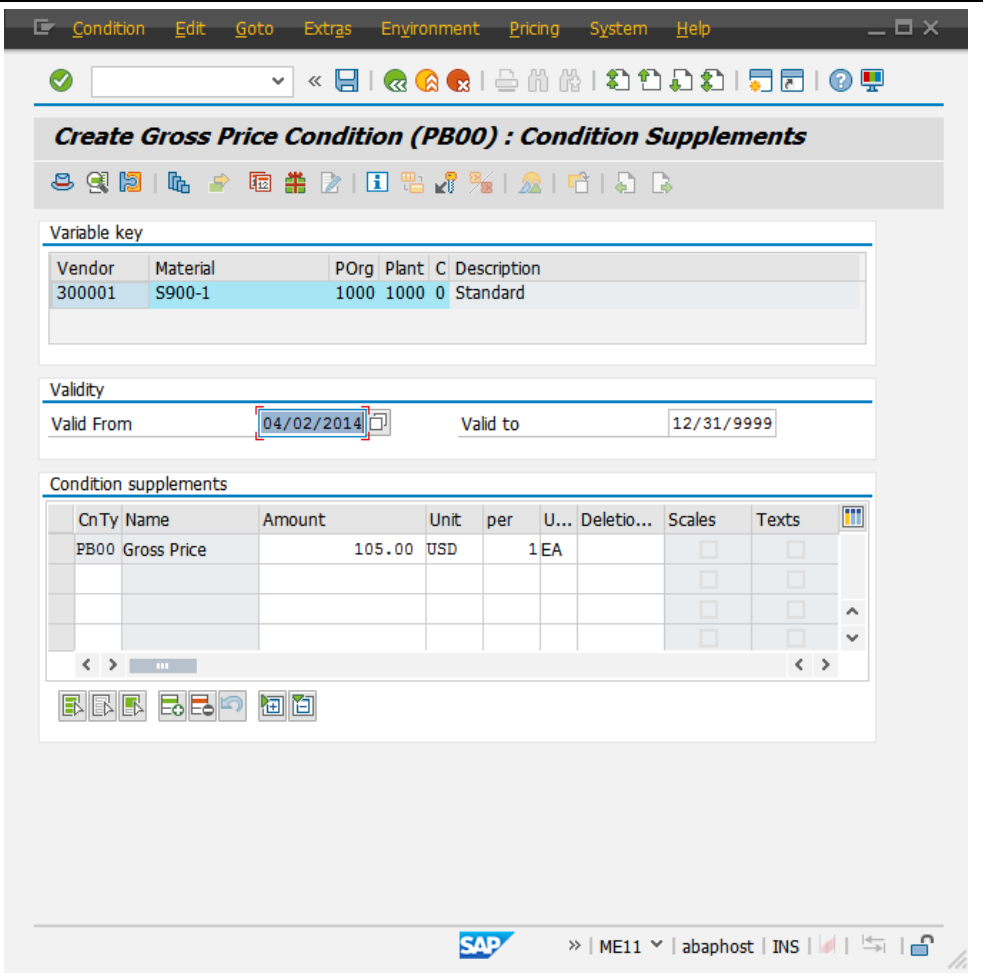
The SAP logo and navigation icons are visible at the bottom of the dialog box.

Enter the T-code:
ME11

Enter the data like
shown on the
screenshot and
press enter .



Go to **Conditions**
 Save the info record after maintaining all data .



Variable key


Vendor	Material	POrg	Plant	C	Description
300001	S900-1	1000	1000	0	Standard

Validity

Valid From: 04/02/2014 Valid to: 12/31/9999

Condition supplements

CnTy	Name	Amount	Unit	per	U...	Deletio...	Scales	Texts
PB00	Gross Price	105.00	USD		1 EA		<input type="checkbox"/>	<input type="checkbox"/>


SAP >> | ME11 | abaphost | INS | 

7.5 Maintain Source List

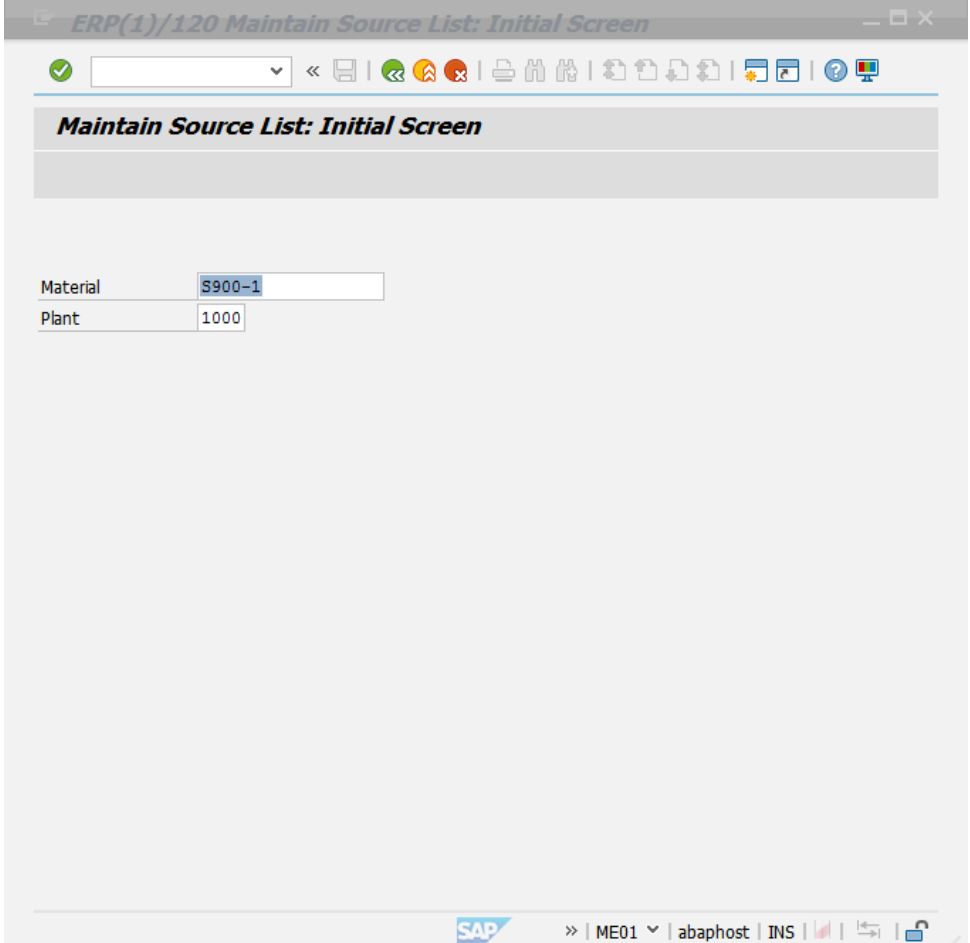
In the following steps, you create a source list for material S900-1.

What To Do


Enter the T-code:
ME01

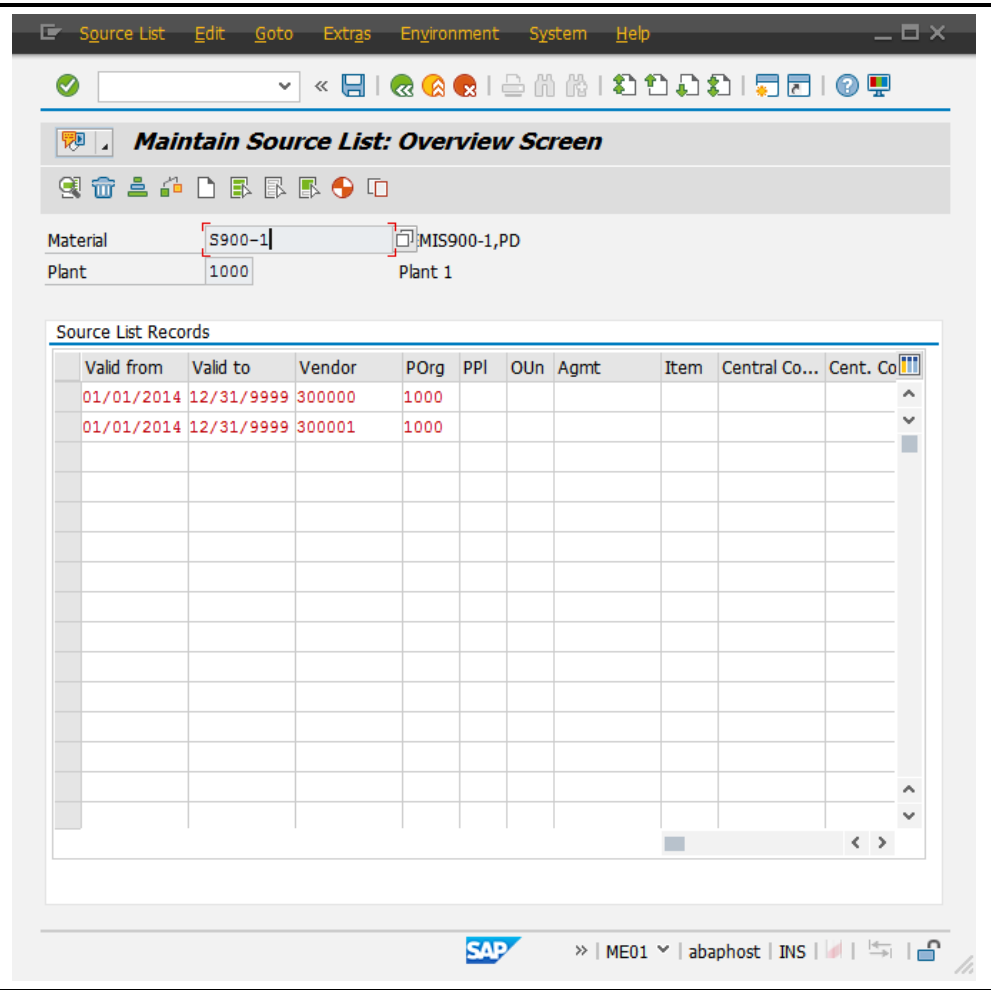
Enter the data like
shown on the
screenshot and
press enter .

What you will see



The screenshot shows the SAP 'Maintain Source List: Initial Screen' window. The window title is 'ERP(1)/120 Maintain Source List: Initial Screen'. The main area shows 'Material' with the value 'S900-1' and 'Plant' with the value '1000'. The SAP logo and navigation icons are visible at the bottom.

Save the source list after maintaining all data .



The screenshot displays the SAP 'Maintain Source List: Overview Screen'. At the top, there is a menu bar with options: Source List, Edit, Goto, Extras, Environment, System, and Help. Below the menu is a toolbar with various icons for navigation and actions. The main area contains the following information:

- Material:** S900-1
- Plant:** 1000
- Source List:** MIS900-1,PD
- Plant 1:** (indicated below the source list)

Below this information is a table titled 'Source List Records' with the following columns: Valid from, Valid to, Vendor, POrg, PPI, OUn, Agmt, Item, Central Co..., and Cent. Co... The table contains two rows of data:

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...	Cent. Co...
01/01/2014	12/31/9999	300000	1000						
01/01/2014	12/31/9999	300001	1000						

The SAP logo is visible in the bottom right corner of the screen, along with system information: ME01, abaphost, and INS.

7.6 Create Condition Record

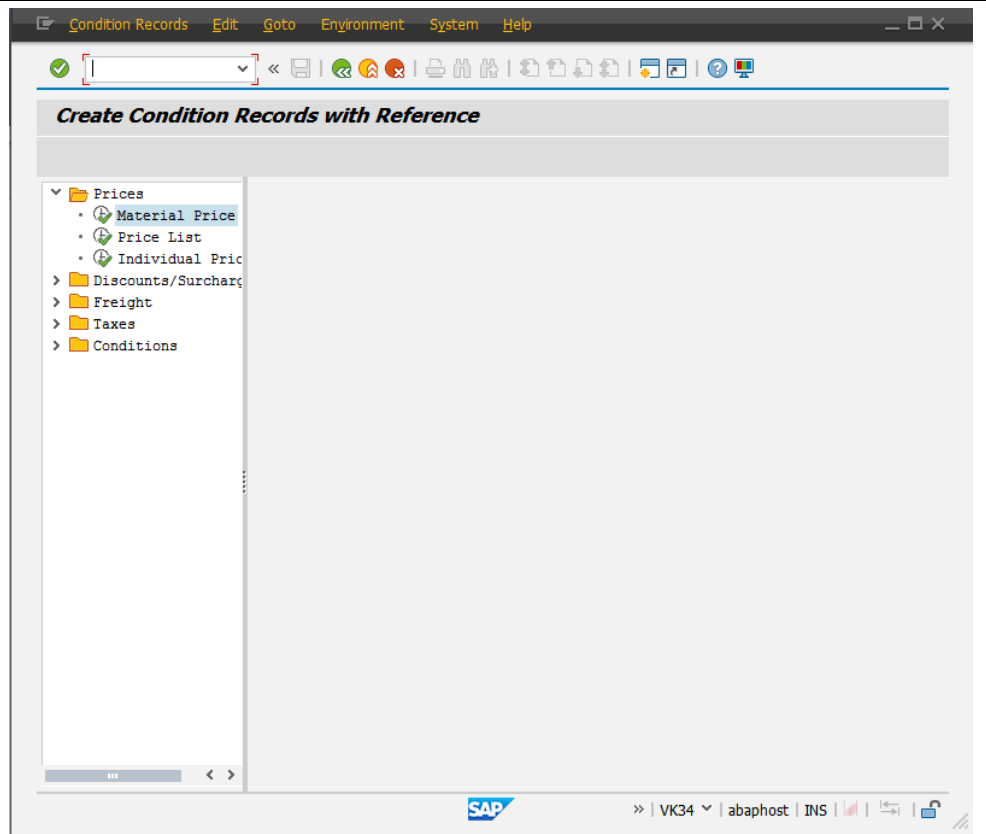
In the following steps, you create two info records for material S900-1.

What To Do

Enter the T-code:
VK34

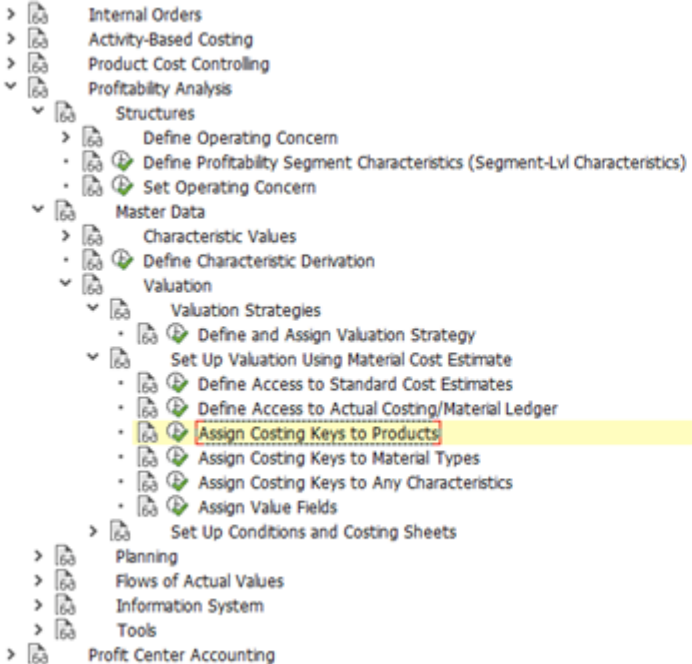
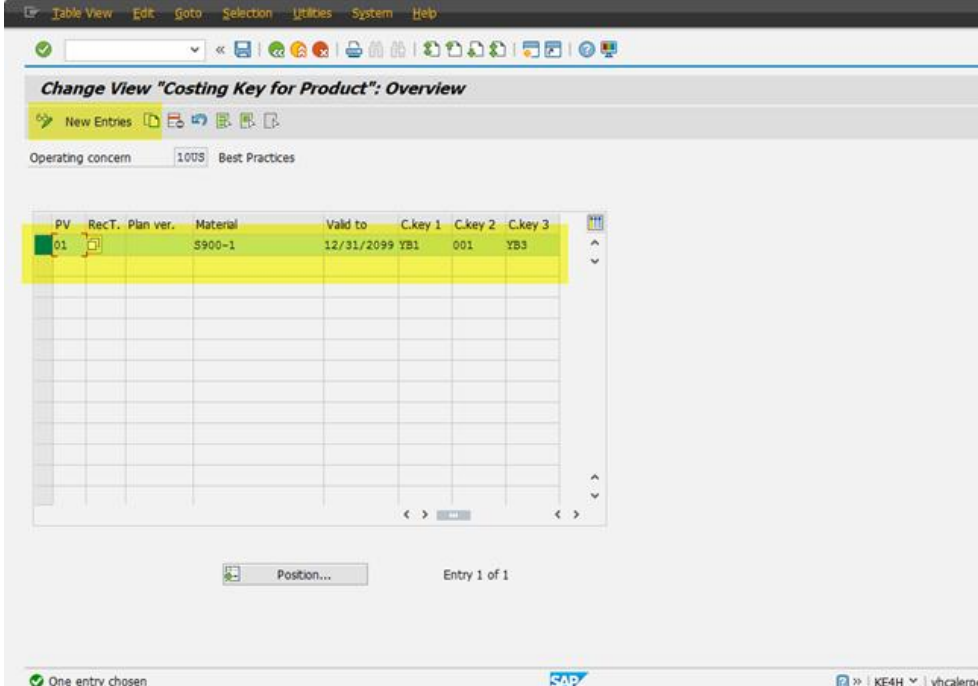
Select “Material
Price” and press F6
or double click
“Material Price”.

What you will see



7.7 Setup valuation for Semi-finished Products in COPA

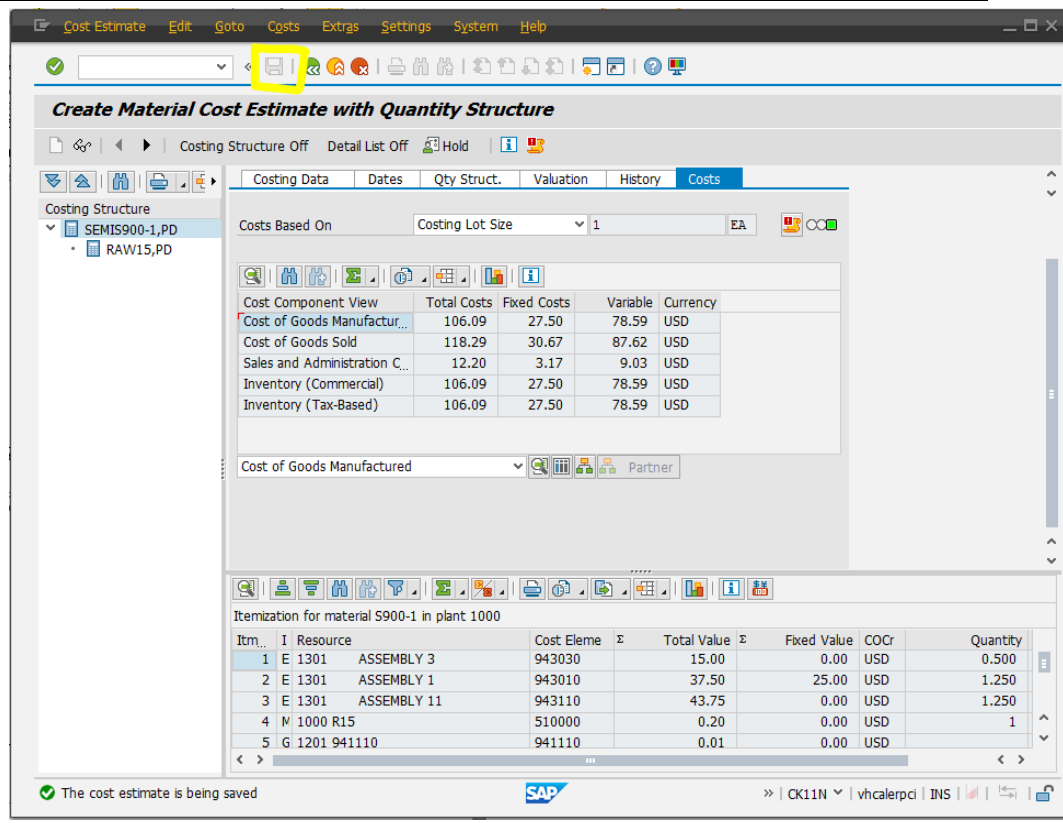
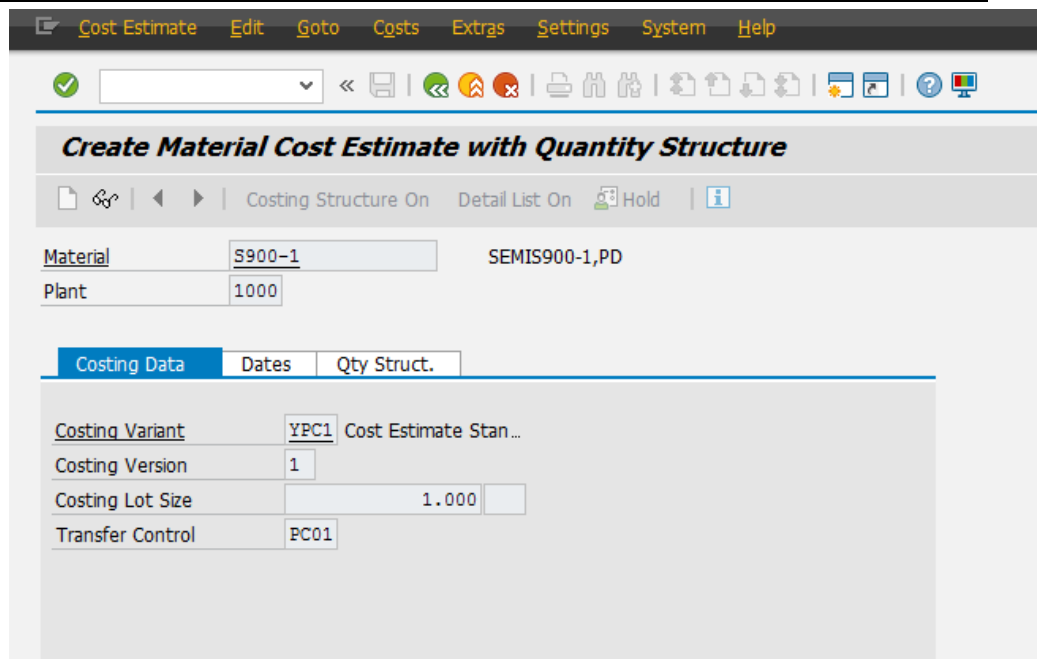
In the standard Best Practice system it is not foreseen to sell semi-finished products. Nevertheless to simplify and shorten the end to end demo, we have enabled this (manufacturing is optional, when you purchase and sell the same product like in a make-or-buy environment). here is the setup that allows for sales data of semi-finished products to be also sent to COPA for differentiated margin analysis.

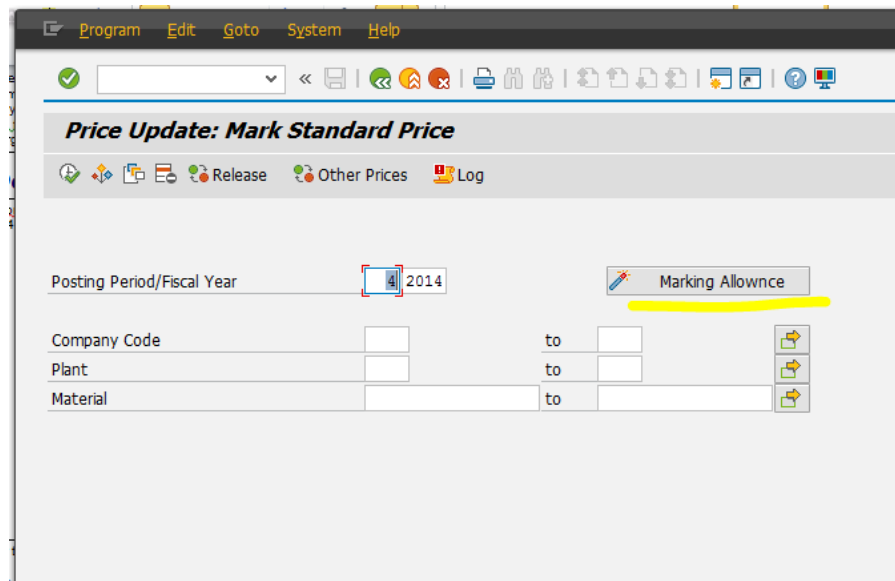
What To Do	What you will see																
<p>Enter IMG menu or enter T-code: KE4H</p>																	
<p>Enter a new entry to select just for our demo material the correct strategies to send the valuation data to COPA. Save and Exit.</p>	 <table border="1" data-bbox="542 1456 1117 1769"> <thead> <tr> <th>PV</th> <th>Rec.T.</th> <th>Plan ver.</th> <th>Material</th> <th>Valid to</th> <th>C.key 1</th> <th>C.key 2</th> <th>C.key 3</th> </tr> </thead> <tbody> <tr> <td>01</td> <td></td> <td></td> <td>S900-1</td> <td>12/31/2099</td> <td>YB1</td> <td>001</td> <td>YB3</td> </tr> </tbody> </table>	PV	Rec.T.	Plan ver.	Material	Valid to	C.key 1	C.key 2	C.key 3	01			S900-1	12/31/2099	YB1	001	YB3
PV	Rec.T.	Plan ver.	Material	Valid to	C.key 1	C.key 2	C.key 3										
01			S900-1	12/31/2099	YB1	001	YB3										

Optional:

When working with an own material, you might want to calculate your own new product and release a new standard price for your own created product (here shown with our demo product S900-1). This process is documented in the next screens.

Start with transaction CK11N.





Price Update: Mark Standard Price

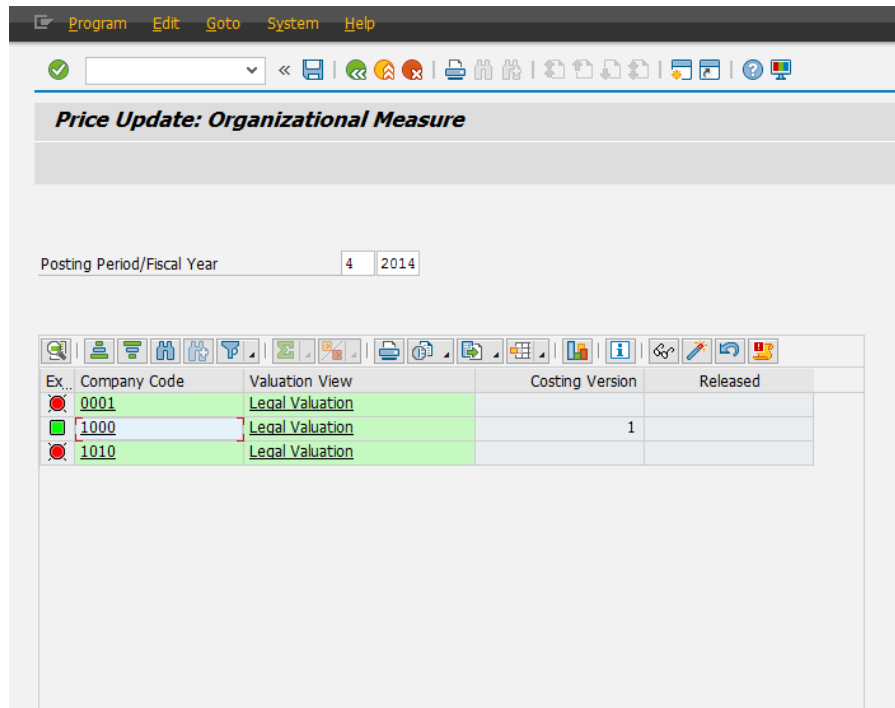
Posting Period/Fiscal Year: 4 2014

Marking Allowance

Company Code: [] to []

Plant: [] to []

Material: [] to []



Price Update: Organizational Measure

Posting Period/Fiscal Year: 4 2014

Ex...	Company Code	Valuation View	Costing Version	Released
	0001	Legal Valuation		
	1000	Legal Valuation	1	
	1010	Legal Valuation		

Program Edit Goto System Help

Price Update: Mark Standard Price

Release Other Prices Log

Posting Period/Fiscal Year: 4 | 2014 Marking Allowance

Company Code: [] to [] +

Plant: [] to [] +

Material: S900-1 to [] +

Processing Options

Test Run

With List Output

Parallel Processing

Background Processing

Program Edit Goto System Help

Price Update: Release Standard Price

Marking Other Prices Log

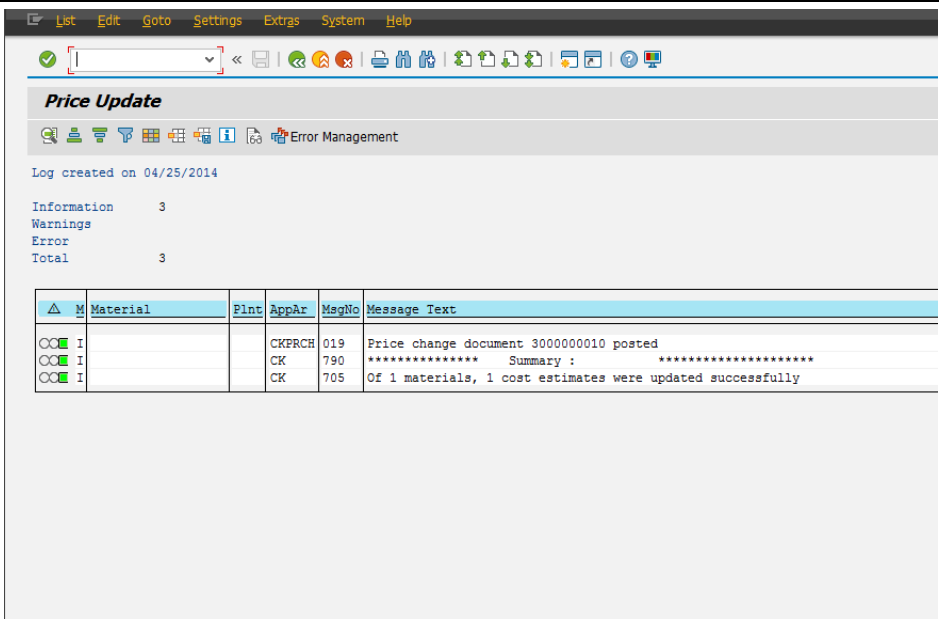
Posting Period/Fiscal Year: [] | 2014

Company Code: [] to [] +

Plant: 1000 to [] +

Material: S900-1 to [] +

No. of Materials in Document: 128



The screenshot displays the SAP Price Update interface. At the top, there is a menu bar with options: List, Edit, Goto, Settings, Extras, System, and Help. Below the menu is a toolbar with various icons for navigation and actions. The main title of the window is "Price Update".

Below the title, there is a sub-header with icons and the text "Error Management". A log entry states "Log created on 04/25/2014".

A summary table shows the following counts:

Information	3
Warnings	
Error	
Total	3

Below the summary table is a detailed table with the following columns: Material, PInt, AppAr, MsgNo, and Message Text.

Material	PInt	AppAr	MsgNo	Message Text
		CKPRCB	019	Price change document 3000000010 posted
		CK	790	***** Summary : *****
		CK	705	Of 1 materials, 1 cost estimates were updated successfully