Change Purchase Order_V1

Simple Sample Documentation

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Preface

This documentation contains all information required to understand, configure, and run a SOA Simple Sample provided by SAP. SOA Simple Samples are ready-to-run SOA-based composite applications created for educational purposes only. They are intended to be used as examples for understanding enterprise service consumption on the modeling and coding levels, and to run against ES Workplace backend systems.

Simple Samples are neither enabled nor intended for productive use, or to be used as elements in a real implementation. There is no associated maintenance obligation on SAP for Simple Samples.

System Requirements

System	Required/Optional	Enhancement/Support Package
SAP ECC 6.0	Optional. The ES Workplace can be used instead.	EhP4
SAP Composition Environment 7.2	Required	EhP1 or higher

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1 Abstract

This simple sample demonstrates how a user can change an existing purchase order. In the first step, the user searches for a particular purchase order, based on the enterprise service "*Read Purchase Order_V1"*. In the second step, he/she can modify some of the purchase order information (such as material, price, or plant) or add an item. Then the enterprise service "*Change Purchase Order"* is called. In the last step, the user receives a confirmation about the changed document. This simple sample is re-implemented for NW CE 7.2. The original sample is called "Change Purchase Order" as well and is available for NW CE 7.11.

2 Description

The simple sample has three screens. This section describes each step, as well as the enterprise services used and the values with which they are called.

2.1 Step 1: Search Purchase Order

At the start of the process, a Purchaser searches for a Purchase Order he wants to change. To do so, he has to enter the Purchase Order ID. By clicking the "Search Purchase Order" button, he gets details about the Purchase Order. If the displayed Purchase Order with its header and item data is the correct one, the Purchaser can continue by clicking the "Next" button. The Simple Sample comes with a default Purchase Order ID which is prefilled in the "Purchase Order ID" field (e.g. "4500017250") to enable a quick start where you can click "Search Purchase Order" without further manual input.

2.1.1 **Read Purchase Order_V1**

This service is used to read details of a purchase order.

Input Fields	Label on UI	Test Data	Comment
SelectionByPurchaseOrderID.LowerBoundaryPurchaseOrderID	Purchase Order ID	4500018441	
SelectionByPurchaseOrderID.IntervalBoundaryTypeCode	No Label	1	Not shown on screen; hardcoded, Value '1' stands for single value
Output Fields	**Label on UI**	**Test Data**	**Comment**
PurchaseOrder.ID	Purchase Order ID	4500018441	
PurchaseOrder. PurchaseOrderDate	Purchase Order Date	10.02.2010	
PurchaseOrder.CreationUserAccountID	Purchase Order Creator	I053736	
PurchaseOrder.ProcessingTypeCode	Processing Type	NB	
PurchaseOrder.PurchasingOrganisationParty_InternalID.InternalID	Purchasing Organisation	3000	
PurchaseOrder.PurchasingGroupParty_InternalID.InternalID	Purchasing Group	001	
PurchaseOrder.SellerParty.InternalID	Supplier	3820	
PurchaseOrder.SellerParty.FormattedName	Supplier	Thomas Bush	Name displayed next to supplier ID.
All purchase order items (fields below this row) are displayed in a table.			
PurchaseOrder.Item.ID	Item ID	10	
PurchaseOrder.Item.ProcessingTypeCode	Processing Type	0	
PurchaseOrder.Item.Product.InternalID	Material ID	SC-103	
PurchaseOrder.Item.Description	Description	Pump precision SC 103	
PurchaseOrder.Item.Quantity.Quantity	Quantity	100	
PurchaseOrder.Item.Quantity.unitCode	Unit	PCE	
PurchaseOrder.Item.PlantID.PlantID	Plant ID	3000	
PurchaseOrder.Item.InventoryManagedLocation.InternalID	Inventory Location	0001	
PurchaseOrder.Item.ShipToLocation.InternalID	Ship To Location ID	8452	
PurchaseOrder.Item.CancelledIndicator	Cancel Indicator		
PurchaseOrder.Item.Price.NetPrice.Amount.Amount	Net Price	80	
PurchaseOrder.Item.Price.TotalAmount.TotalAmount	Total Amount	8000	
PurchaseOrder.Item.Price.NetPrice.Amount.currencyCode	Currency	USD	
PurchaseOrder.Item.ProductCategory.InternalID	Product Category	001	

2.1.2 **Related Backend Information**

You can use transaction **ME23N** (Display Purchase Order) to review the purchase order in the backend system. This transaction can also be accessed from the SAP Easy Access screen by choosing SAP Menu → Logistics → Purchasing → Purchase Order → Display.

2.2 Step 2: Change Purchase Order

The second screen of the application allows the Purchaser to change the data of the selected Purchase Order. For process reasons some values, e.g. “Seller”, are not changeable. The Purchaser can add items to the Purchase Order by clicking the “Add Item” button. Note that it is not allowed to delete items. Normally, this is done by setting a deletion flag “Cancel Indicator” in the item section. After all changes are made, the Purchase Order can be saved by clicking the “Save Purchase Order” button. The “Back” button cancels the changes and switches back to the previous screen. All data in this screen is prefilled with the data of the Purchase Order selected in step 1.

2.2.1 Change Purchase Order

This service is used to change Purchase Order data.

Input Fields	Label on UI	Test Data	Comment
ProcessingTypeCode	Processing Type	NB	read only
PurchasingOrganisationParty.InternalID	Purchasing Organisation	3000	
PurchasingGroupParty_InternalID	Purchasing Group	001	
SellerParty_InternalID	Supplier	3820	Read only
ID.ID	Purchase Order ID	4500018441	Read only
PurchaseOrderDate	Purchase Order Date	2/10/2010	Read only
ID	Item ID	10	Read only
ProcessingTypeCode	Processing Type	0	
Product.InternalID	Material ID	SC-103	
Description	Description	Pump precision SC 103	
Quantity.Quantity	Quantity	100	
Quantity.unitCode	Unit	PCE	Read only
PlantID (read only)	Plant ID	3000	
InventoryManagedLocation_InternalID	Inventory Location	0001	
ShipToLocation_InternalID	Ship To Location	8452	
CancelledIndicator	Cancel Indicator		
Price.NetPrice.Amount	Net Price	80	
Price.NetPrice.Amount.currencyCode	Currency	USD	Read only
Price.TotalAmount.TotalAmount	Total Amount	8000	Read only
ProductCategory_InternalID.InternalID	Product Category	001	
Output Fields	**Label on UI**	**Test Data**	**Comment**
PurchaseOrder.ProcessingTypeCode	Processing Type	NB	
PurchaseOrder.PurchasingOrganisation Party_InternalID	Purchasing Organisation	3000	
PurchaseOrder.PurchasingGroupParty_I nternalID	Purchasing Group	001	
PurchaseOrder.SellerParty_InternalID	Supplier	3820	
PurchaseOrder.ID	Purchase Order ID	4500018441	
PurchaseOrder.PurchaseOrderDate	Purchase Order Date	2/10/2010	
PurchaseOrder.CreationUserAccountID. CreationUserAccountID	Purchase Order Creator	I053736	
ID	Item ID	10	
Product.InternalID	Product	SC-103	
Description.Description	Description	Pump precision SC 103	
Quantity.Quantity	Quantity	100	
Quantity.unitCode	Unit	PCE	
PlantID.PlantID	Plant	3000	
InventoryManagedLocation_InternalID.In ternalID	Inventory Loaction	0001	
ShipToLocation_InternalID.InternalID	Ship to Location ID	8452	
CancelledIndicator	Cancel Indicator		
Price.TotalAmount.TotalAmount	Total Amount	8000	
Price.TotalAmount.currencyCode	Currency	USD	
ProductCategory_InternalID.InternalID	Product Category	001	

2.2.2 Related Backend Information

You can use transaction **ME23N** (Display Purchase Order) to review the purchase order in the backend system. This transaction can also be accessed from the SAP Easy Access screen by choosing SAP Menu → Logistics → Purchasing → Purchase Order → Display.

2.3 Change Summary

After the Purchase Order have been changed successfully using Enterprise Service *"Change Purchase Order"*, a third screen is displayed which contains again all the response data of the Purchase Order from the backend ERP system. This third screen allows the Purchaser to check whether the changes were successfully stored.

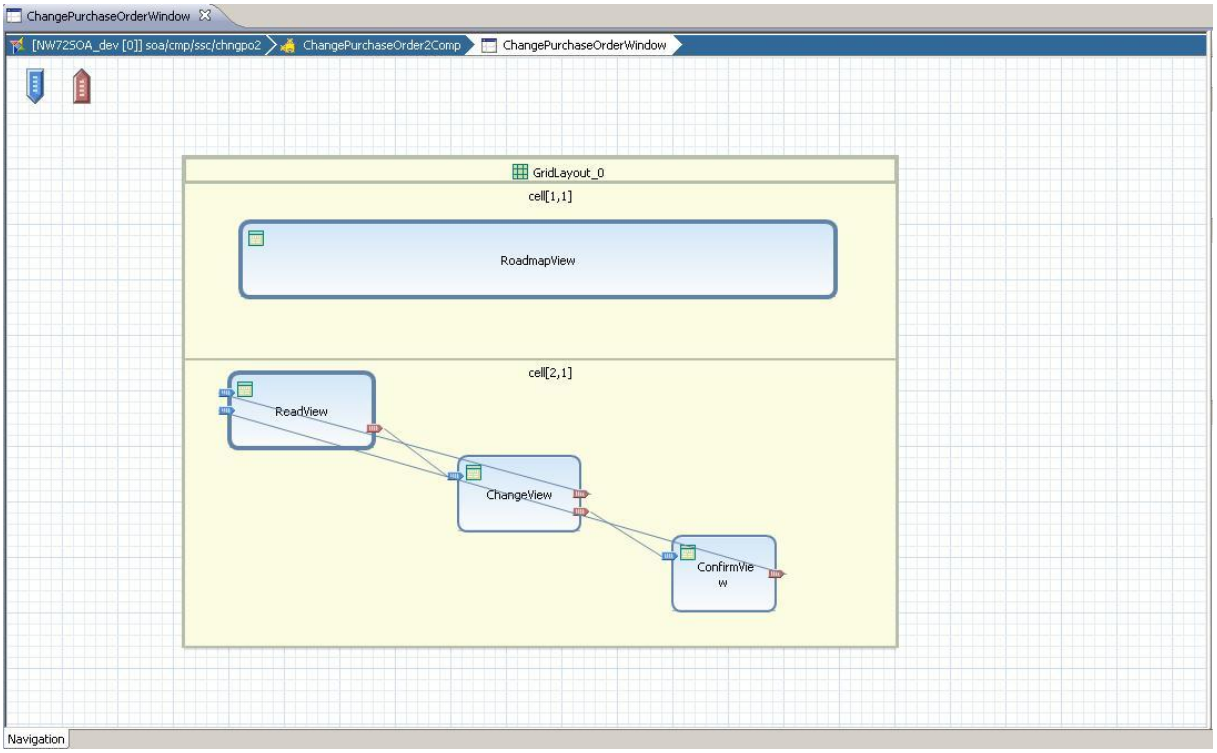
2.3.1 Change Purchase Order

Output fields used in this step can be viewed in Step 2 Table *Change Purchase Order*

3 Composite Details

The UIs for changing a Purchase Order have been developed using Web Dynpro for Java. The application consists of 4 Views:

- ReadView
- ChangeView
- ConfirmView
- RoadmapView



The first view is ReadView. It displays the initial input form, where the Purchaser searches and selects the Purchase Order he wants to change. When the user clicks the “Search Purchase Order” button, the Search Purchase Order ID is passed to the input of the enterprise service “PurchaseOrderERPByIDQueryResponse_In_V1” (a) which retrieves the details of the Search Purchase Order like Seller, Search Purchase Order Date, items and sends it to the same view to display them. Besides the Supplier ID also the name of the Supplier is displayed in a text view. By clicking the “Next” button, the Purchaser will be forwarded to the next view.

The second screen of the application is ChangeView. There, the Purchaser can make changes to the values of the selected Purchase Order. All fields are prefilled by the same service (a), used to display the Purchase Order details in ReadView. He can add new items by clicking the “Add Item” button. There is no possibility to delete an item from the backend as this is not supported. After he has made his changes to the Search Purchase Order, the Purchaser can save this Purchase Order by clicking the “Save Purchase Order” button. This will call the service “PurchaseOrderChangeRequestConfirmation_In” (b) which will check all the changed data. If the changes are valid, the data changes are stored in the backend system. If this service is executed successfully, the user will be forwarded to the third screen (ConfirmView).
After the Purchase Order has been changed, the service (b) will confirm these changes by reading all data out of the backend system.

The last screen has a “New” button which will take the Purchaser to the first screen where he can search and change another Purchase Order. The “Close” button closes the browser and logs out of the application. This simple sample is aligned with the road map located in the RoadmapView.

The constant values are collected in a separate class called ‘Constants’. The messages and labels displayed in the UI are hardcoded and not translated. Initially, the tables are sorted by Purchase Order Item ID. The sorter functionality is in a separate java file ‘TableSorter.java’ in the ‘com.ides.soa.cmp.ssc.chngpo2.changepurchaseord.utils’ package.

This Simple Sample Application was originally developed for NW CE 7.11. The Application there is developed using Visual Composer as UI technology.

A closer look into the models and sources of this simple sample is provided as part of the downloadable Software Component Archive (SCA).

4 More Information

For more information, see *Explore Enterprise Services* at https://www.sdn.sap.com/irj/sdn/explore-es.

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