

How-to-Guide: Developing with Interactive Forms for SAP NetWeaver 7.0-Java-VMware-Trial

Summary

This document describes how to create an Adobe Interactive Form using the Web Dynpro Context and SAP Developer Studio. It is part of the Guided Procedure documented in “Demonstrating_CAF”.

Author: Alexander Bruch, Peder Helle

Company: SAP AG, Germany

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Overview

Story Outline

This document describes how to create an Adobe Interactive Form using the Web Dynpro Context and SAP Developer Studio. It is part of the Guided Procedure documented in "Demonstrating_CAF".

This documentation assumes you will be working directly on the operating system – all references to the Web Application Server therefore refer to "ivml2005".

Roles

DESIGNATION	NAME	COMMENTS
End user	Miller, Jamie	A new employee at ITeLO
Manager	CTB_ADMIN	The administrator is also used as manager of Jamie Miller (in Part 4)

Users

Predefined users	Password	Comments
CTB_ADMIN	sap123	Administrator for WebAS, Enterprise Portal and Visual Composer – used for design time and development purposes
<NW Developer Studio>	welcome1	SDM deployment from the IDE
14132	sap123	User (Jamie Miller) for different scenarios

Duration

DESCRIPTION
Chapter <u>0</u> : Online developing an Adobe Interactive Form – 45 min

1

2

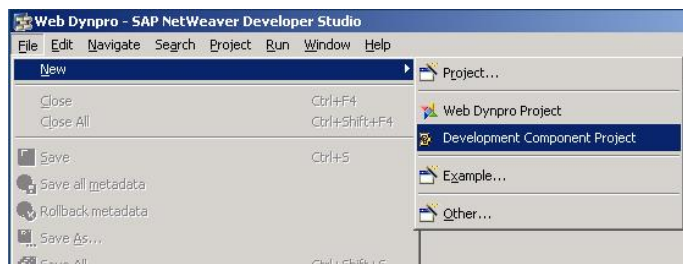
Detailed Storyboard

Creating a Confidentiality agreement document

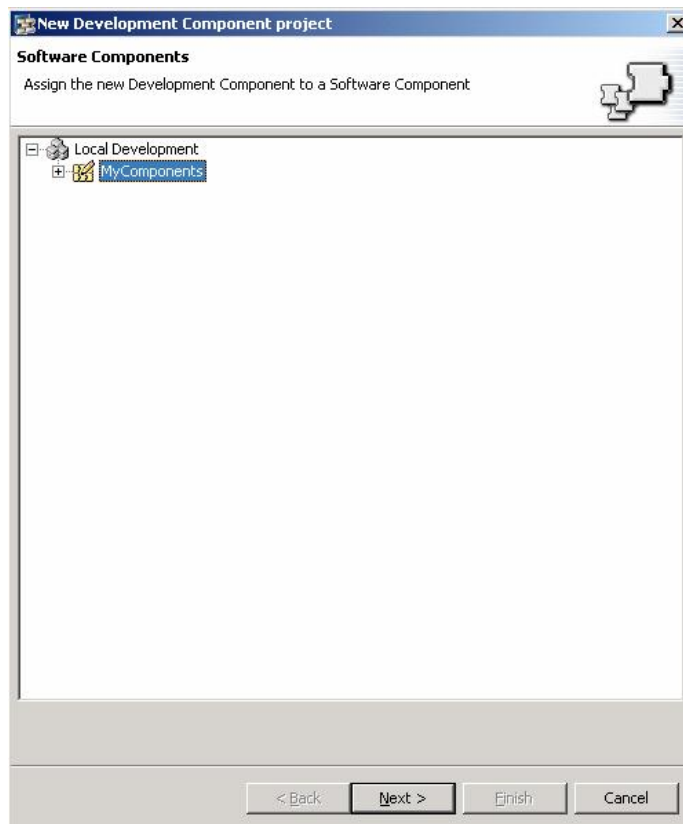
This interactive form application is part of the Guided Procedures „FirstDay“ (refer to the process in document „HowTo_GuidedProcedures“). The form is based on a template which is filled automatically by the underlying Web Dynpro with the user data of the new employee. The new employee can print the document out, sign it and send it to the HR department as an attachment or as a print-out. The usage in the Guided Procedures assures the process manager (e.g. HR representative) that the employee must at least have seen the agreement when running through the first day process.

2.1.1 Developing a Web Dynpro application for Interactive Forms

Open your NetWeaver Developer Studio and from the Web Dynpro perspective, create a new **Development Component Project**.



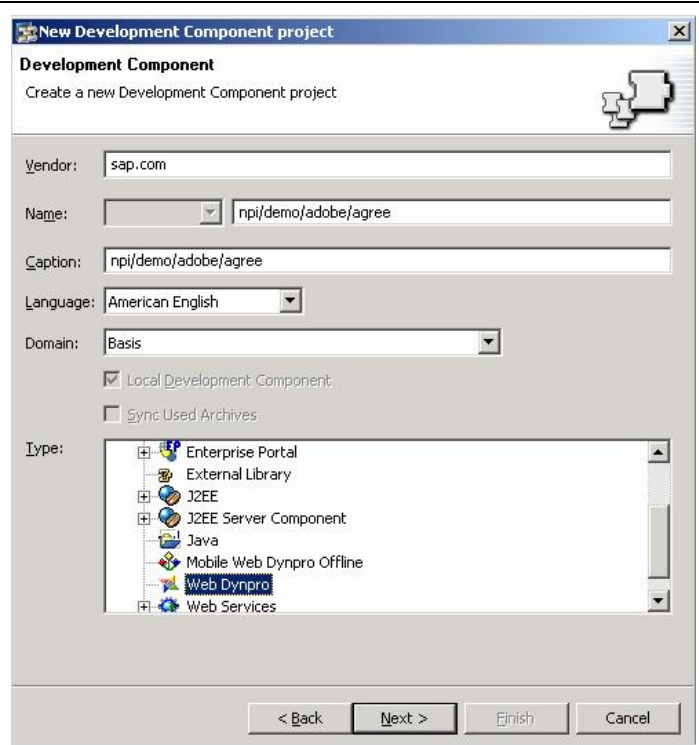
Select **MyComponents** from the Local Development configuration. Proceed with **Next**.



The name of the component should be “**npi/demo/adobe/agree**”.

Select the type “**Web Dynpro**”.

Proceed with **Next** and confirm with **Finish** on the next screen.

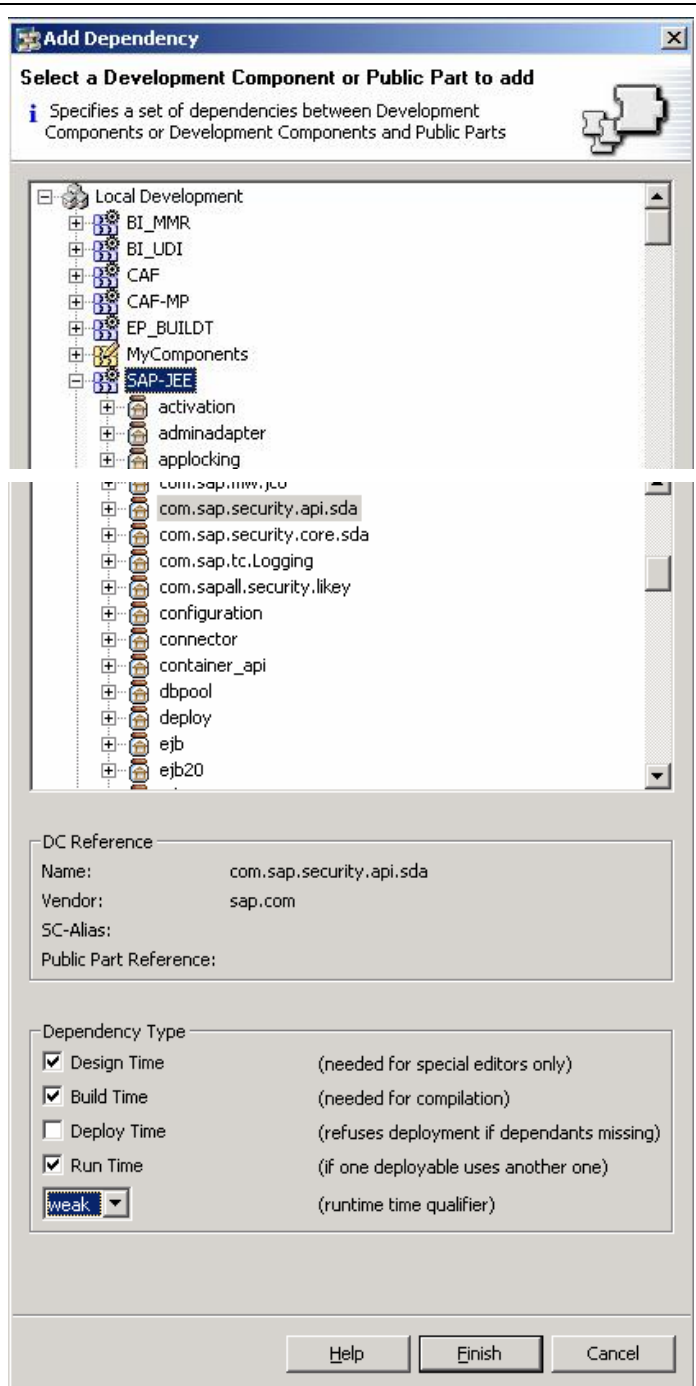


Because the user data will be retrieved from the portal user data, some references components must be added.

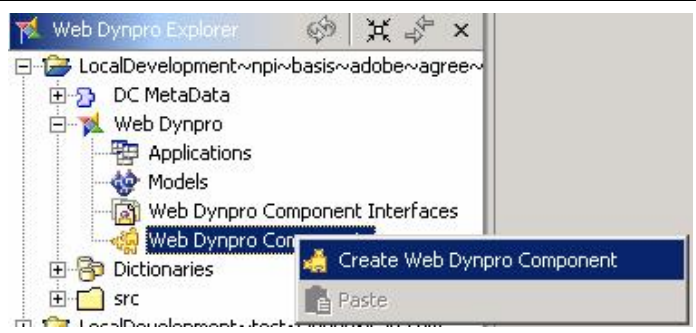
Select “**Add Used DC**” from the context menu of “**Used DCs**” within the DC MetaData Definition.



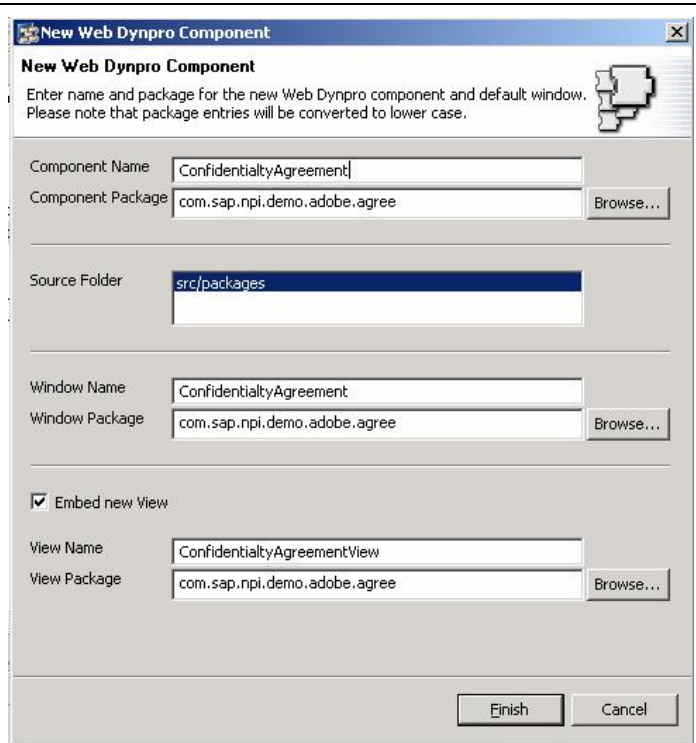
From the compartment **SAP-JEE**, select the DC **“com.sap.security.api.sda”**.
 The Dependency Type should be set to
 Design Time
 Build Time
 Run Time
Weak runtime qualifier
 Confirm with **Finish**.



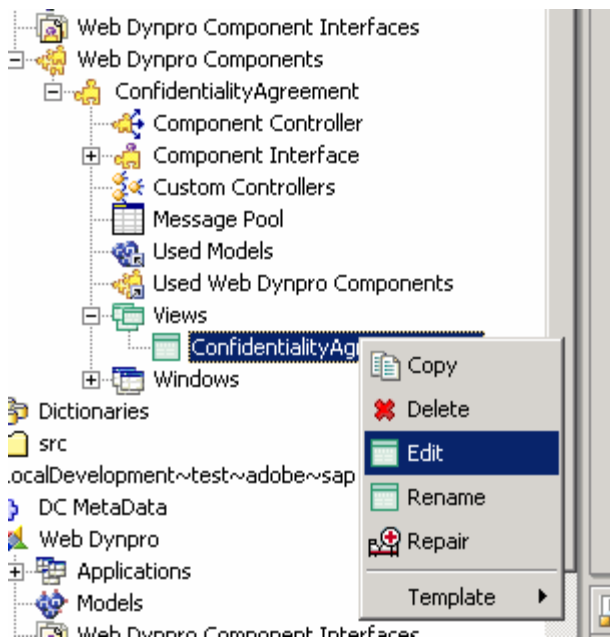
From the context menu of Web Dynpro Component, select **Create Web Dynpro Component**.

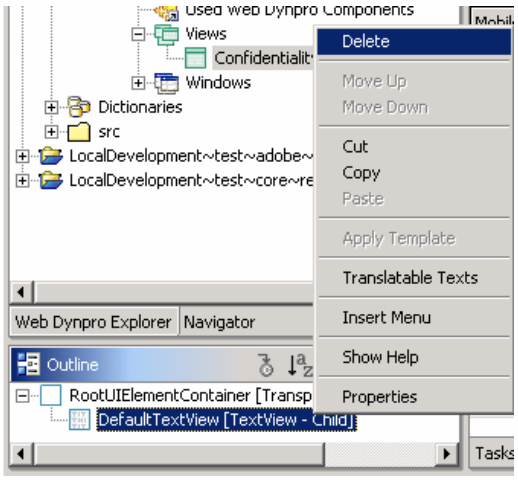
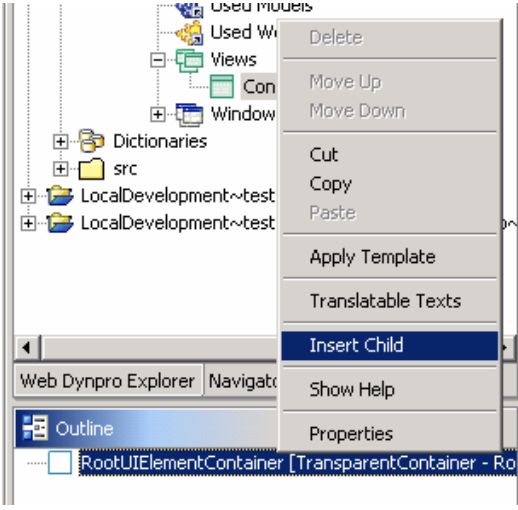
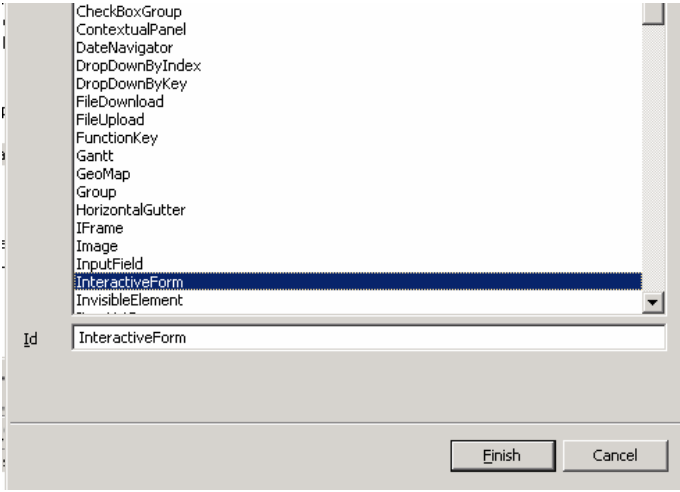


The name of the component should be **“ConfidentialityAgreement”** and the package **“com.sap.npi.demo.adobe.agree”**.
 Confirm with **Finish**.



Open the view:
 Select **Edit** from the context menu of the **„ConfidentialityAgreementView“**.

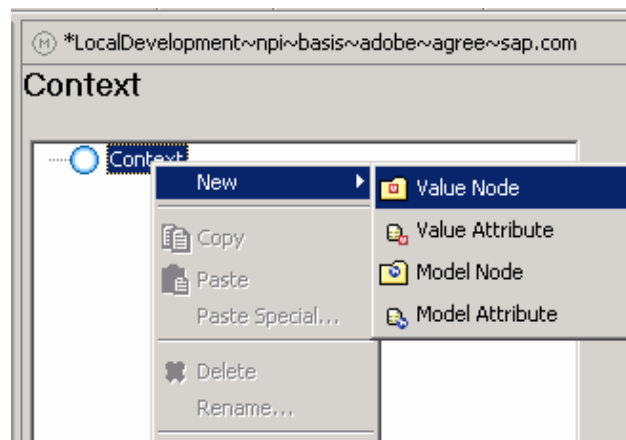


<p>Remove the default entry on the view: Select Delete from the context menu of the element DefaultTextView.</p>	 <p>The screenshot shows the Web Dynpro Explorer interface. The 'Outline' pane on the left shows a tree structure with 'DefaultTextView [TextView - Child]' selected. A context menu is open over this element, and the 'Delete' option is highlighted. Other options include Move Up, Move Down, Cut, Copy, Paste, Apply Template, Translatable Texts, Insert Menu, Show Help, and Properties.</p>
<p>The element for interactive forms should now be added to the view. Select „Insert Child“ from the context menu of the element „RootUIElementContainer“.</p>	 <p>The screenshot shows the Web Dynpro Explorer interface. The 'Outline' pane on the left shows a tree structure with 'RootUIElementContainer [TransparentContainer - Ro]' selected. A context menu is open over this element, and the 'Insert Child' option is highlighted. Other options include Delete, Move Up, Move Down, Cut, Copy, Paste, Apply Template, Translatable Texts, Show Help, and Properties.</p>
<p>Select the element InteractiveForm Confirm with Finish.</p>	 <p>The screenshot shows the 'Insert Child' dialog box. It features a list of available UI elements. 'InteractiveForm' is selected in the list. Below the list, the 'Id' field contains the text 'InteractiveForm'. At the bottom right, there are 'Finish' and 'Cancel' buttons.</p>

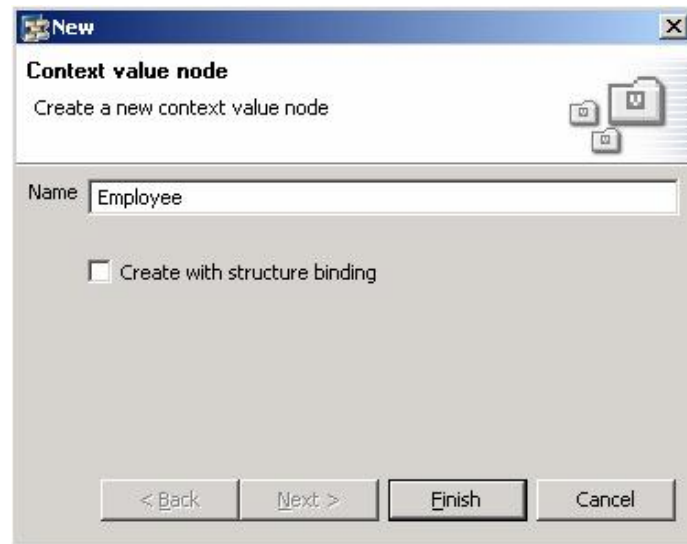
Now, switch to the **tab page Context** to add some node values to the local context.

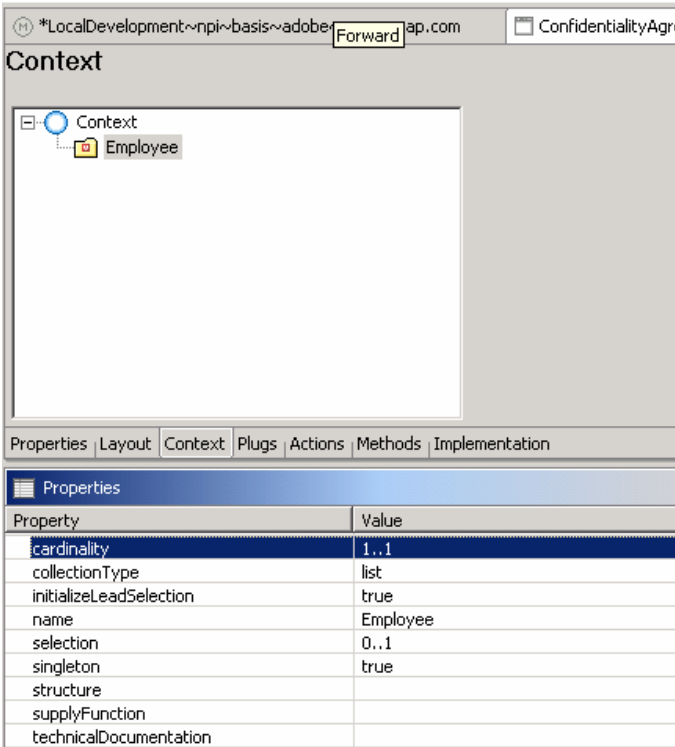
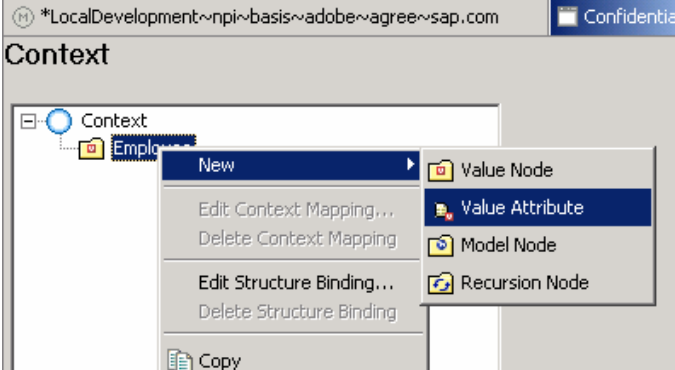
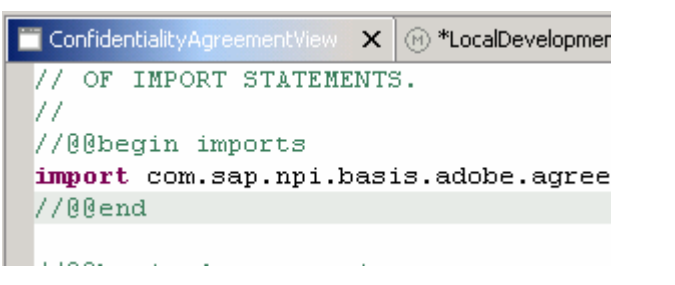
Select „**New > Value Node**“ from the context menu of the node Context.

This will be the context used by the interactive form.

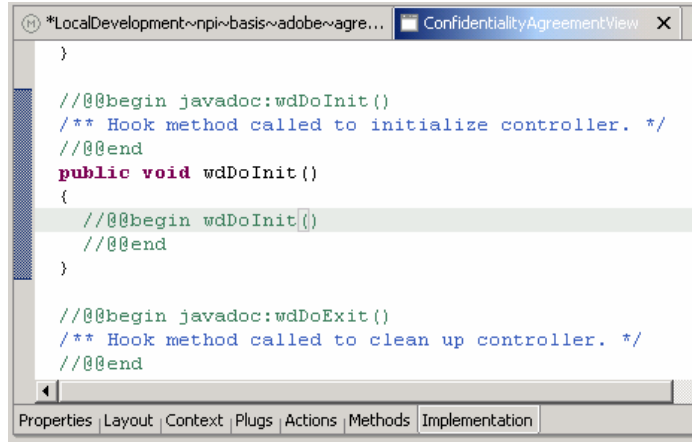


Enter **Employee** as name of the node and confirm with **Finish**.



<p>Change the cardinality of the node to 1..1.</p> <p>This prevents the application from creating a new context each time it is initialized.</p>	 <p>The screenshot shows the 'Context' editor with a tree view containing 'Context' and 'Employee'. Below the tree is a 'Properties' table:</p> <table border="1"> <thead> <tr> <th>Property</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>cardinality</td> <td>1..1</td> </tr> <tr> <td>collectionType</td> <td>list</td> </tr> <tr> <td>initializeLeadSelection</td> <td>true</td> </tr> <tr> <td>name</td> <td>Employee</td> </tr> <tr> <td>selection</td> <td>0..1</td> </tr> <tr> <td>singleton</td> <td>true</td> </tr> <tr> <td>structure</td> <td></td> </tr> <tr> <td>supplyFunction</td> <td></td> </tr> <tr> <td>technicalDocumentation</td> <td></td> </tr> </tbody> </table>	Property	Value	cardinality	1..1	collectionType	list	initializeLeadSelection	true	name	Employee	selection	0..1	singleton	true	structure		supplyFunction		technicalDocumentation	
Property	Value																				
cardinality	1..1																				
collectionType	list																				
initializeLeadSelection	true																				
name	Employee																				
selection	0..1																				
singleton	true																				
structure																					
supplyFunction																					
technicalDocumentation																					
<p>Add to new value attributes:</p> <ul style="list-style-type: none"> - firstname - lastname 	 <p>The screenshot shows the 'Context' editor with a context menu open over the 'Employee' node. The 'New' option is selected, and the 'Value Attribute' option is highlighted.</p>																				
<p>The context will in this application be filled by the program code retrieving information from the portal context.</p> <p>Open the tab page Implementation and navigate to the import statements.</p> <p>Add the following code to the import statement:</p>	 <pre>// OF IMPORT STATEMENTS. // //@@begin imports import com.sap.npi.basis.adobe.agree //@@end</pre>																				
<pre>import com.sap.security.api.IUser; import com.sap.tc.webdynpro.services.sal.um.api.IWDCClientUser; import com.sap.tc.webdynpro.services.sal.um.api.WDCClientUser;</pre>																					

Navigate to the initialization method **wdDoInit()** and enter the code snippet below between the brackets:



```

}

/** @begin javadoc:wdDoInit()
 ** Hook method called to initialize controller. */
/** @end
public void wdDoInit()
{
    /** @begin wdDoInit()
    /** @end

}

/** @begin javadoc:wdDoExit()
 ** Hook method called to clean up controller. */
/** @end

```


```
//@begin – WdDoInit()
```

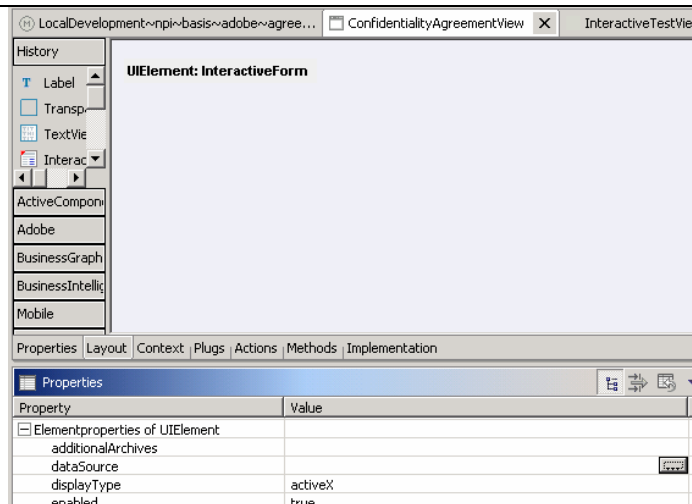
```
IWDClientUser wdUser = WDClientUser.getLoggedInClientUser();
```

```
IUser user = wdUser.getSAPUser();
String firstName = wdUser.getFirstName();
String lastName = wdUser.getLastName();
```

```
wdContext.currentEmployeeElement().setFirstname(firstName);
wdContext.currentEmployeeElement().setLastname(lastName);
```

```
//@end
```

Go back to the tab page **Layout** and select the dataSource (press ).



LocalDevelopment~npi~basis~adobe~agree... ConfidentialityAgreementView X InteractiveTestView

History


- Label
- Transp...
- TextWie
- Interac

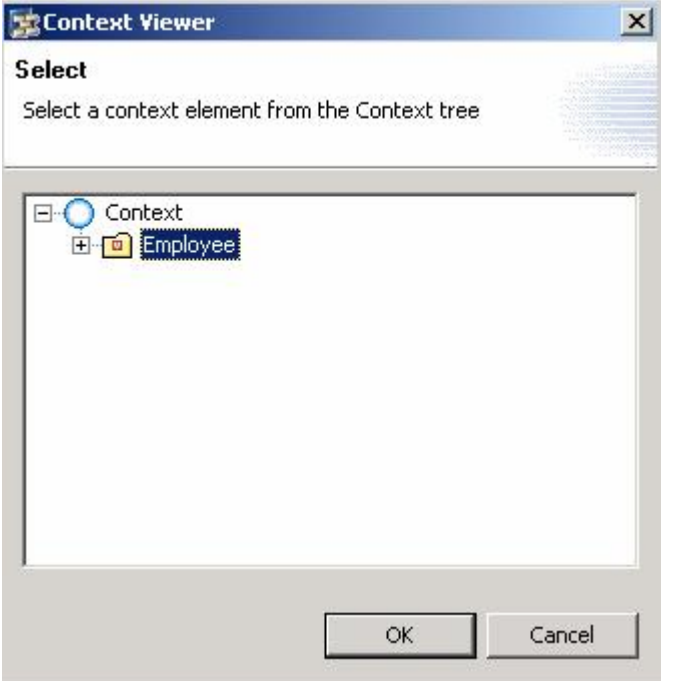
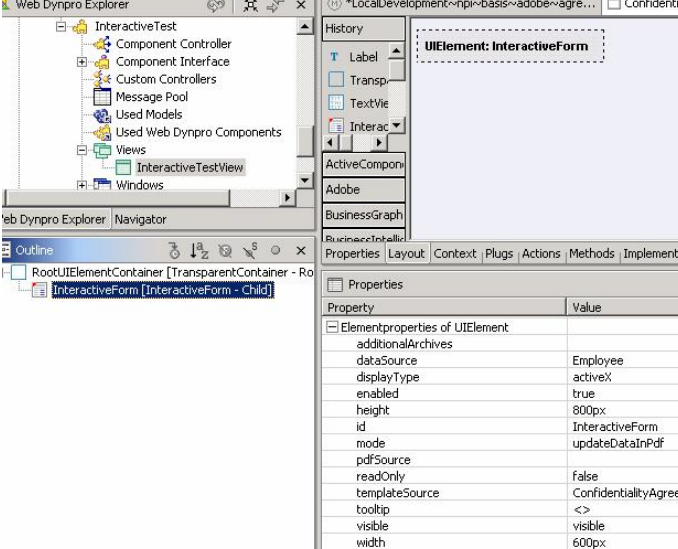
ActiveComponent

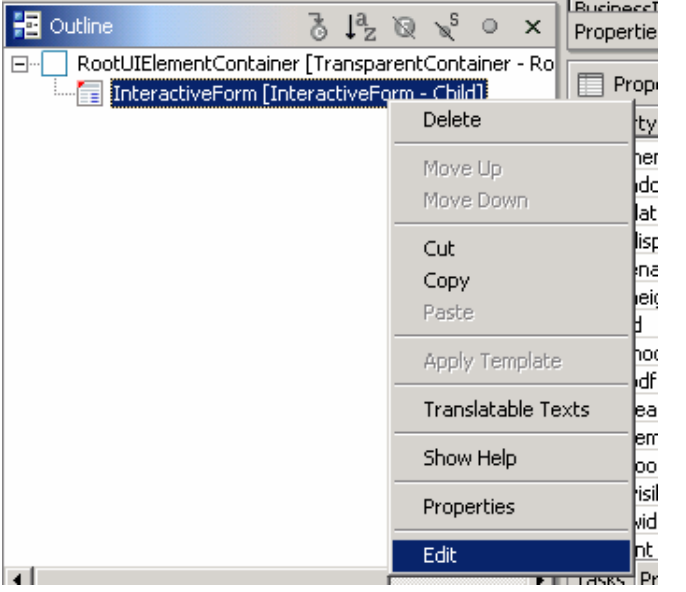
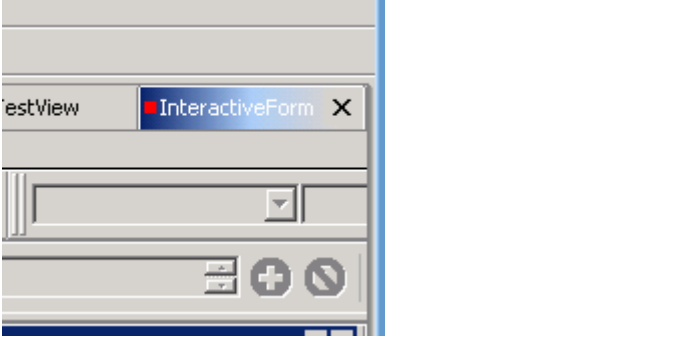
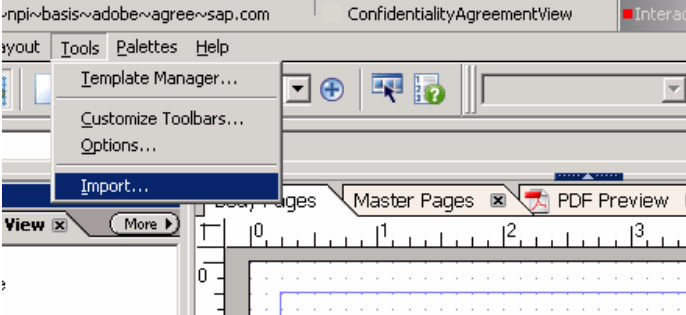
- Adobe
- BusinessGraph
- BusinessIntell...
- Mobile

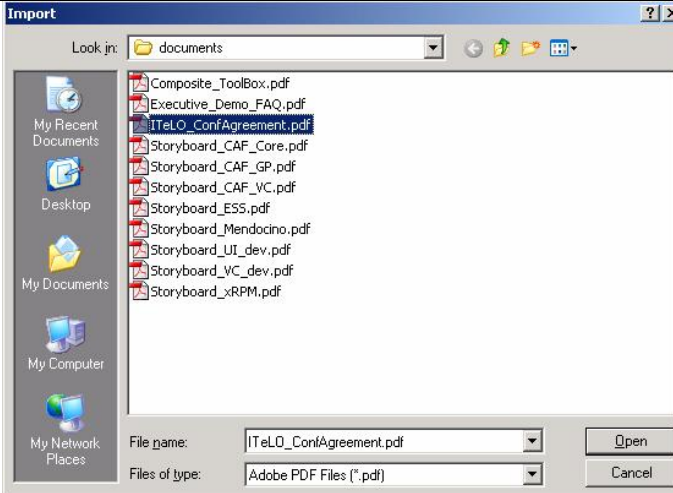
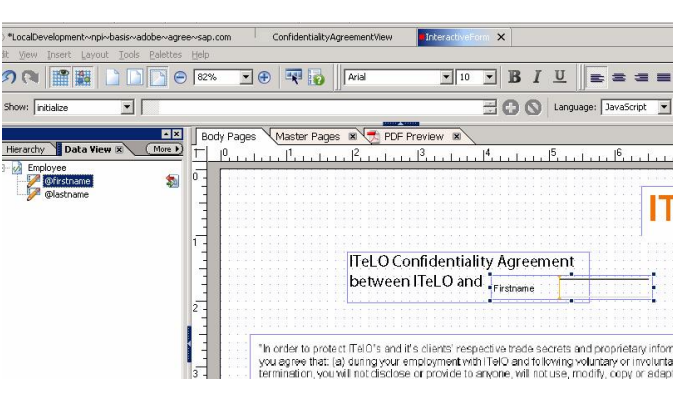

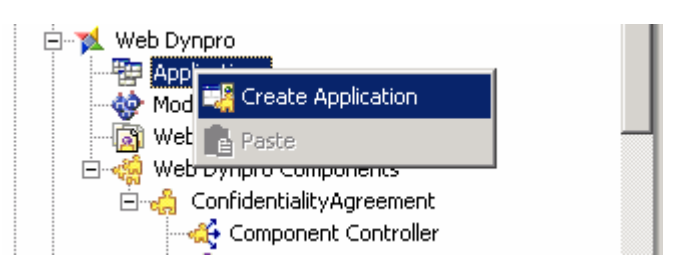

UIElement: InteractiveForm

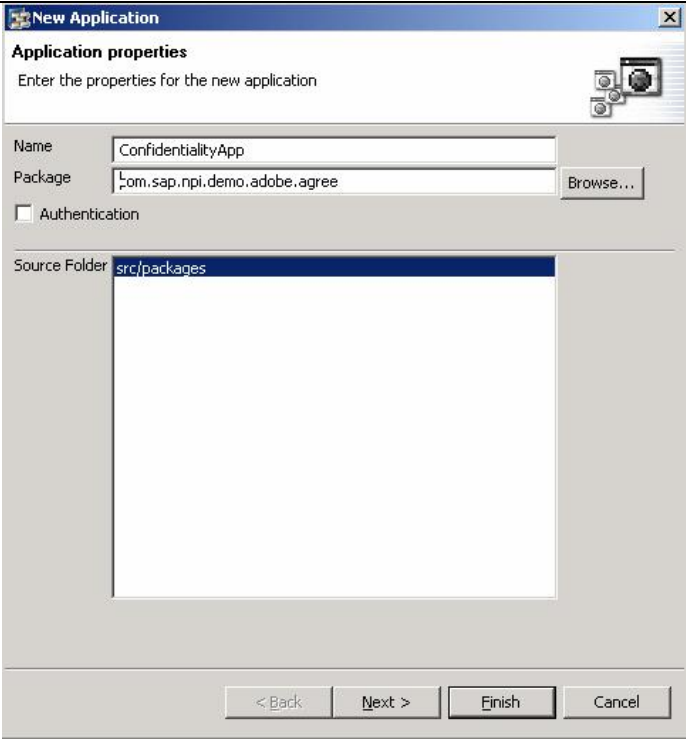
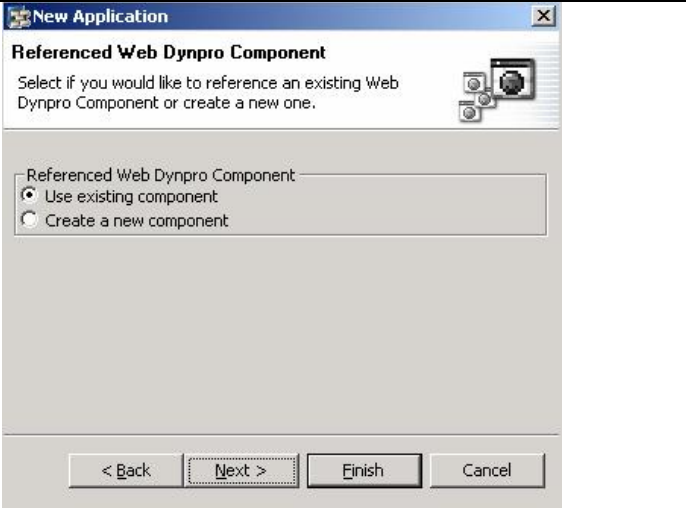
Properties | Layout | Context | Plugs | Actions | Methods | Implementation

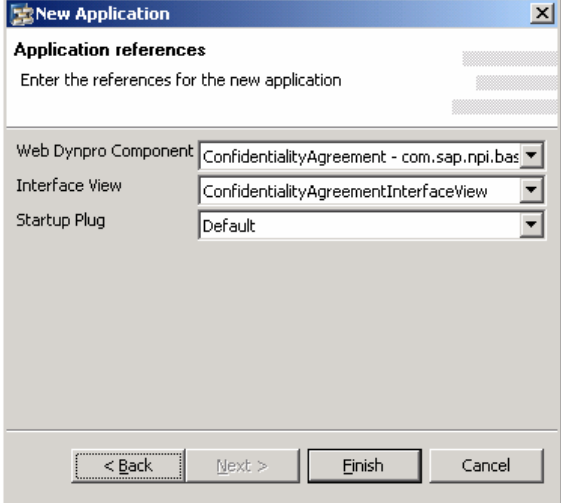
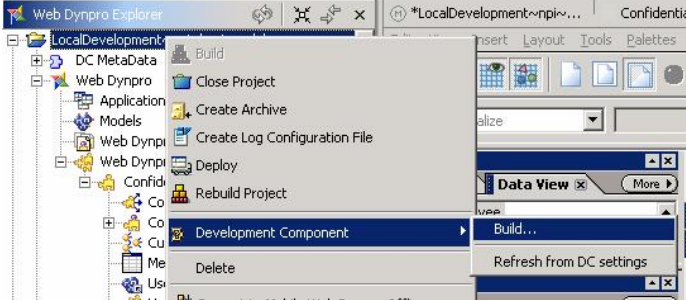
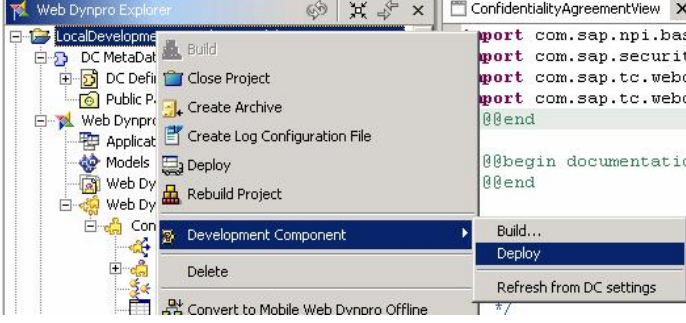
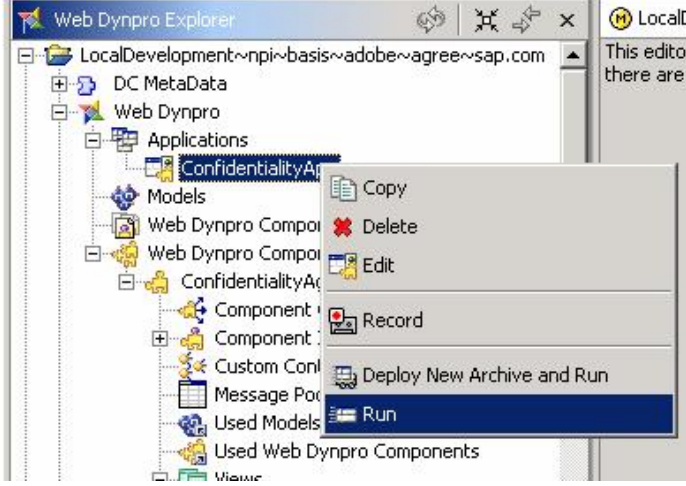
Property	Value
Elementproperties of UIElement	
additionalArchives	
dataSource	
displayType	activeX
enabled	true

<p>Select Employee and confirm with OK.</p>																											
<p>Change some minor settings on the view; select the Element InteractiveForm. Change the height to 800px and the width to 600px.</p>	 <table border="1"> <thead> <tr> <th>Property</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>dataSource</td> <td>Employee</td> </tr> <tr> <td>displayType</td> <td>activeX</td> </tr> <tr> <td>enabled</td> <td>true</td> </tr> <tr> <td>height</td> <td>800px</td> </tr> <tr> <td>id</td> <td>InteractiveForm</td> </tr> <tr> <td>mode</td> <td>updateDataInPdf</td> </tr> <tr> <td>pdfSource</td> <td></td> </tr> <tr> <td>readOnly</td> <td>false</td> </tr> <tr> <td>templateSource</td> <td>ConfidentialityAgreeer</td> </tr> <tr> <td>tooltip</td> <td><></td> </tr> <tr> <td>visible</td> <td>visible</td> </tr> <tr> <td>width</td> <td>600px</td> </tr> </tbody> </table>	Property	Value	dataSource	Employee	displayType	activeX	enabled	true	height	800px	id	InteractiveForm	mode	updateDataInPdf	pdfSource		readOnly	false	templateSource	ConfidentialityAgreeer	tooltip	<>	visible	visible	width	600px
Property	Value																										
dataSource	Employee																										
displayType	activeX																										
enabled	true																										
height	800px																										
id	InteractiveForm																										
mode	updateDataInPdf																										
pdfSource																											
readOnly	false																										
templateSource	ConfidentialityAgreeer																										
tooltip	<>																										
visible	visible																										
width	600px																										

<p>To enter the Adobe Life-Cycle Designer – which is a part of the NetWeaver Installation – select Edit from the context menu of the element.</p>	
<p>Double-click on the Tab „InteractiveForm“ to expand the editor.</p>	
<p>You can now use different kind of templates for the interactive forms. There is a template for this agreement available for your convenience. Select Import from the Tools menu.</p>	

<p>Change the file type to *.pdf.</p> <p>Enter "D:\CompositeToolbox\Documents".</p> <p>Select the pdf "ITeLO_ConfAgreement.pdf".</p> <p>Open the file.</p>	
<p>From the Data View, drag-and-drop the node attribute firstname and lastname onto the Body Page and arrange them as you like.</p> <p>Double-click on the tab page "InteractiveForm" to return to the default screen.</p>	
<p>The result of the document should be something like this:</p>	
<p>The components must now be included into an application. Select Create Application from the Applications node.</p>	
<p>Name of the application should be "ConfidentialityApp" and the package "com.sap.npi.demo.adobe.agree".</p> <p>Proceed with Next.</p>	

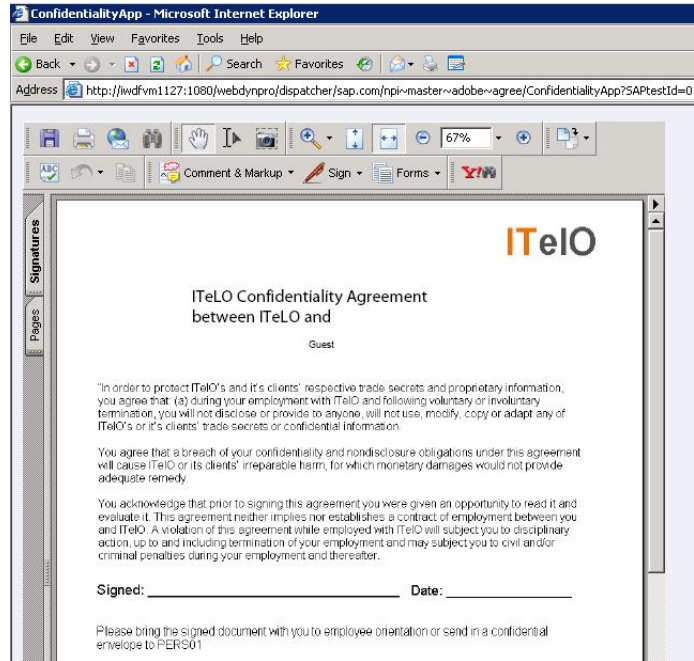
	 <p>The screenshot shows the 'New Application' dialog box in the 'Application properties' step. The title bar reads 'New Application'. Below the title, it says 'Application properties' and 'Enter the properties for the new application'. There are four input fields: 'Name' with the value 'ConfidentialityApp', 'Package' with the value 'com.sap.npi.demo.adobe.agree', 'Authentication' which is unchecked, and 'Source Folder' with the value 'src/packages'. A 'Browse...' button is next to the Package field. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.</p>
<p>Leave the option Use existing component and proceed with Next.</p>	 <p>The screenshot shows the 'New Application' dialog box in the 'Referenced Web Dynpro Component' step. The title bar reads 'New Application'. Below the title, it says 'Referenced Web Dynpro Component' and 'Select if you would like to reference an existing Web Dynpro Component or create a new one.' There are two radio button options: 'Use existing component' (which is selected) and 'Create a new component'. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.</p>

<p>Leave the default values and confirm with Finish.</p>	
<p>You are now ready to build and deploy. Select Development Component > Build from the context menu of the project root. Confirm any popups and wait until the project has been build.</p>	
<p>Deploy the application.</p>	
<p>To test run the application, select Run from the context menu of the application.</p>	

...and the result is:

Notice: This application has been integrated into the Guided Procedure "FirstDay" as an Callable Object of type "iView". For more information on the Guided Procedure, please refer to the documents:

"Demonstrating_CAF" and "HowTo_GuidedProcedures".



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