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## **Applies To:**

SAP Technology, SAP Web Application Server, Web Dynpro

### Summary

This tutorial describes how to design, implement, deploy, and run basic human resources (HR) applications – using Web Dynpro – that access persistent data from a remote SAP backend system. The HR application, an Employee Self-Service (ESS), allows employees in a company to create, display, and change their own data. As a result, employees in the HR department can concentrate on tasks of greater strategic importance.

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## **About this Tutorial**

This tutorial describes a step-by-step procedure to design, implement, deploy, and run a basic HR application using Web Dynpro that accesses persistent data from a remote SAP backend system. To read the personal data, the application makes use of existing and custom functions in the form of readable BAPIs. The Web Dynpro framework generates a corresponding Java proxy class for each BAPI that is needed. Different Web Dynpro UI elements are used in this example.

Part I describes the prerequisites for creating the project (HR application), component, and layout; part II explains how to access the backend SAP R/3 system, states the BAPIs we are using, and shows what a typical HR application looks like.

### How to Read Personal Data

After successfully creating the project (HR application), component, and layout, as described in <u>Developing</u> <u>an HR Homepage Using Web Dynpro, Part I</u>, follow these steps to access personal SAP R/3 backend data.

### **Creating a Model**

#### Procedure

- 1. In the project structure, expand the node Web Dynpro  $\rightarrow$  Models.
- 2. From the context menu, choose of Create Model. The appropriate wizard appears.
- 3. Choose the Import Adaptive RFC Model option, followed by Next.
- 4. Enter the model name HRModel and the package name com.sap.wipro.model
- 5. When importing an adaptive RFC model, you have to specify the logical system names for model instances and RFC metadata:
  - a. Default logical system name for model instances: wD\_MODELDATA\_DEST
  - b. Default logical system name for RFC metadata: wD\_RFC\_METADATA\_DEST



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Import Adaptive RFC Model Create a Web Dynpro Model from RFC module d that it synchronizes its metadata from the R/3 b	lefinitions. The created model is adaptive in the way ackend at runtime.	க <b>்று</b> கத
Model Name	HRModel	
Model Package	com.sap.wipro.model	Browse
Source Folder	src/packages	
Default logical system name for model instances	WD_MODELDATA_DEST	
Default logical system name for RFC metadata	WD_RFC_METADATA_DEST	
Logical Dictionary	HRModel	
Dictionary Types Package	com.sap.wipro.model.types	
	< <u>B</u> ack <u>N</u> ext > ⊟nish	Cancel

- 6. Accept the suggested values and choose Next.
- 7. Enter the appropriate data for logging onto the SAP system and choose Next. When logging on, you can choose one of two options: Either choose a single application server or address the system and log on using *Load Balancing*.
- 8. Enter either the complete name of the function module BAPI\_PERSDATA\_GETDETAILEDLIST in the appropriate field, or enter the start of the name followed by an asterisk (\*). Then choose Search.
- 9. Select the function module BAPI\_PERSDATA\_GETDETAILEDLIST from the list that appears.



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- 9. Choose Next. By doing so, you automatically trigger the generation process. The import process is logged by a detailed description, which you can see in the next dialogue.
- 10. Choose Finish.

### Result

The Java proxies are generated and a new model node **BAPI\_PERSDATA\_GETDETAILEDLIST** is inserted into the project structure.



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The newly-created adaptive RFC model *BAPI\_PERSDATA\_GETDETAILEDLIST* can be used now in any component in the current project. Similarly, Addressmodel and Bankmodel have to be created for the custom BAPIs, *YZ\_BAPI\_ADDRESSEMP\_GETDETAIL*, *YZ\_BAPI\_BANK\_DETAIL*.

### Creating a Custom Controller Context and Binding it to the Model

The custom controller *HRPageCust* is responsible for retrieving flight data from an SAP system, so it needs to be able to map the corresponding input and output for the flight model. To establish this correspondence between the custom controller and the model, you will create an appropriate controller context and then bind the context nodes to the model structure. In this way, you can ensure that the model data is stored and manipulated in a central location.

#### Adding a Model to the Web Dynpro Component

- 1. In the project structure, expand the tree up to the node Web Dynpro  $\rightarrow$  Web Dynpro Components  $\rightarrow$  HRPageCust.
- 2. Select the node Used Models and open the context menu.
- 3. Choose 💁 Add.
- 4. In the list that appears, select the model *HRModel* and confirm by choosing *OK*. By doing so, you specify that all views and controllers of *HRPageComponent* have a dependent relationship with the model *HRModel*.

#### **Creating a Context for the Custom Controller**

- 1. In the project structure, double-click the name of the custom controller (in this case, **HRPageCust**).
- 2. Choose the *Context* tab if necessary.



- 3. Open the context menu for the root node  $\bigcirc$  Context and choose the option New  $\rightarrow$  Model Node.
- 4. Enter the name *BAPI\_PERSDATA\_GETDETAILEDLIST\_OUTPUT* for the model node and choose *Finish*.
- 5. From the context menu for the model node that you have just created, choose Edit Model Binding....
- 6. Choose the model class BAPI\_PERSDATA\_GETDETAILEDLIST \_OUTPUT, followed by Next.
- 7. Activate the following entries:

Birthplae, country of birth, date of birth, employeeno, firstname, gender, language, lastname, martial statussince, blood group, nationality etc. Choose Finish.

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The Developer Studio refreshes the context tree appropriately. In this way, you have complete specification of all the context nodes for output data.

8. Save your work by choosing the icon 🔑 (Save All Metadata) from the toolbar.





Thus, with the model definition as a starting point, we have created a context for the custom controller *HRPageCust* and bound the appropriate context nodes for the input and output structures to the corresponding model nodes. A similar procedure is followed for models Addressmodel and Bankmodel; these have to be created for the custom BAPIs, *YZ\_BAPI\_ADDRESSEMP\_GETDETAIL*, *YZ\_BAPI\_BANK\_DETAIL* and the attributes activated.

### **Mapping View Context Elements to Custom Context Elements**

In this step, we will map context elements of the view *LoginView* to the appropriate context elements of the custom controller *HRPageCust*.

#### Adding Dependencies to the Views

In the project structure, double-click the node for the *LoginView* (*Web Dynpro*  $\rightarrow$  *Web* Dynpro Components  $\rightarrow$  HRPageCust  $\rightarrow$  Views  $\rightarrow$  LoginView). The View Designer for the LoginView appears.

Choose the Properties tab.

Under Required Controllers, choose Add.

In the list that appears, choose the HRPageCust component



Select new required controller(s)
Select the required controller(s) below:
HRPageComponent - com.sap.wipro HRPageCoustom - com.sap.wipro HRPageComponent (Web Dynpro Component Interfac HRPageComponentInterfaceView - com.sap.wipro
OK Cancel

Confirm by choosing OK.

#### Creating a Context for the LoginView

Open the View Designer for the LoginView again.

Choose the *Context* tab.

Open the context menu for the root node  $\bigcirc$  Context and choose the option New  $\rightarrow$  Model Node. Enter the name **BAPI\_PERSDATA\_GETDETAILEDLIST** \_OUTPUT for the model node and choose Finish. From the context menu for the model node of that name that you have created, choose Edit Context Mapping...

Choose the custom context node **BAPI\_PERSDATA\_GETDETAILEDLIST** \_OUTPUT, followed by *Next*. Activate only required attributes Choose *Finish*.



Context	Name	Mapped element
🗄 🗹 🛐 Bapi_Persdata_Getdetailedlist_Output	Bapi Persdata G	Personaldata
🔤 💽 Birthplace	Birthplace	Birthplace
	Countryofbirth	Countryofbirth
🖂 🖻 Dateofbirth	Dateofbirth	Dateofbirth
	Employeeno	Employeeno
	Firstname	Firstname
	B. Gender	Gender
	B. Idnumber	Idnumber
	🔒 Language	Language
	🕒 Lastname	Lastname
Nationality	🔒 Maritalstatussince	Maritalstatussince
	🕒 Nationality	Nationality
Resolve mappings by context element name. Existing mapp	ings will be replaced.	

The Developer Studio refreshes the context tree appropriately.



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	HRPageCoustom - com.sap.wipro	
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Save your work by choosing the icon  $\overset{\circ}{\leftarrow}$  (*Save All Metadata*) from the toolbar. The above steps are repeated for the other two BAPIs.

### **Creating Actions and Declaring Methods**

To trigger the display of the personal data from the SAP system, in the *LoginView*, you need to create an action that can be bound to a UI element, such as a button. You can then implement the event handler, which reacts to this action.

#### Procedure

#### Creating the Submit Action

- 1. Open the *View Designer* for the LoginView.
- 2. Choose the Actions tab.
- 3. Choose the New pushbutton. You can create a new action in the wizard that appears.
- 4. Enter the name **submit** for this new action, leave the other settings unchanged, and choose *Finish.* An event handler, **onActionSubmit**, is automatically created for this new action.



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Declaring the executebapi\_persdata\_getdetailedlist \_output Method

- 1. Open the editor for the custom controller HRPageCust again.
- 2. Choose the Methods tab.
- 3. Choose New.
- 4. Select the Method option and choose Next.
- 5. In the wizard screen that appears, enter the name executebapi\_persdata\_getdetailedlist \_output for this new method and assign it the return type void. Choose Finish. The method executebapi\_persdata\_getdetailedlist \_output is added to the custom controller.

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Save the new metadata by choosing the icon  $\overset{\circ}{\cong}$  (*Save All Metadata*) from the toolbar. Follow similar steps for the other two BAPIs



#### Result

You have created the *Submit* action for the LoginView. In the next step, you will bind it to the appropriate button using the *Source* property.

You have also declared a new method **executebapi\_persdata\_getdetailedlist** \_output for the custom controller. Later, you will use this method to implement the adaptive RFC to the SAP system.

### **Editing the UI Elements**

#### **Login View**

- Open the LoginView in the View Designer by clicking the Layout tab of the View Editor. The View Designer displays predefined default text. Simultaneously, the Outline view displays a list of the UI elements included. If you select an element in the Outline view or on the Layout tab, its associated element properties are shown in the Properties view.
- 2. Choose Input filed and button UI elements that have been included in the project template and give them appropriate properties.

#### Example:

Property	Value			
For UserIDInputField				
Value	Bapi_Persdata_Getdetailedlist_Output.Employeeno			
For SubmitButton				
Event > onAction	Submit			

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		Employee No	Bapi_Persdati			
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3. Save the new metadata by choosing the icon 🛍 (Save All Metadata) from the toolbar.



### Adding the Implementation of the Backend Connection

#### Implementing the Action Event Handler

- 1. In the *View Designer*, choose the *Implementation* tab for the LoginView. The Developer Studio runs several generation routines, and then displays the updated source code for the implementation of the view controller.
- Insert the following line of code in the onActionSubmit() method (immediately after clicking Submit, user is directed to Mydata, AddressDeatils, BankDetails links and Mydata here if click on respective link, that data will be shown screen shots has shown below):

public void onActionSubmit(com.sap.tc.webdynpro.progmodel.api.IWDCustomEvent
wdEvent )

```
{
    //@@begin
wdThis.wdGetFlightListCustController().Bapi_Persdata_Getdetailedlist_Output
();
wdContext.currentContextElement ().setLoginVisible(WDVisibility.NONE);
wdContext.currentContextElement().setLinksVisible(WDVisibility.VISIBLE)wdCont
ext.currentContextElement().setMyDataVisible(WDVisibility.VISIBLE);
wdContext.currentContextElement().setAddressVisible(WDVisibility.NONE);
wdContext.currentContextElement().setBankDetailsVisible(WDVisibility.NONE);
//@@end
```

```
}
```

### Adding the Implementation for the Custom Controller HRPageCust

- 1. Open the Controller Editor for the custom controller HRPageCust again.
- 2. Choose the Implementation tab.
- 3. In the standard method wdDoInit(), between //@@begin wdDoInit() and //@@end, add the following lines of code:

```
public void wdDoInit()
{
    //@@begin
    // Create a new element in the Bapi Bapi_Persdata_Getdetailedlist_Output node
```



```
Bapi_Persdata_Getdetailedlist_Output = new
Bapi_Persdata_Getdetailedlist_Output ();
yz_bapi_addressemp_getdetail_output = new yz_bapi_addressemp_getdetail_output
();
yz_bapi_bank_detail_output = new yz_bapi_bank_detail_output ();
wdContext.nodeBapi_Persdata_Getdetailedlist_Output().bind(input);
wdContext.nodeyz_bapi_addressemp_getdetail_output ().bind(input);
wdContext.nodeyz_bapi_bank_detail_output ().bind(input);
//@@end
}
```

4. In the method executeBapi\_Persdata\_Getdetailedlist\_Output()between //@@begin executeBapi\_Persdata\_Getdetailedlist\_Output ()and //@@end, add the following lines of code:

```
/** declared method */
 public void executeBapi_Persdata_Getdetailedlist_Output(){
    //@@begin
   try
    {
      // Calls remote function module BAPI PERSDATA GETDETAILEDLIST
wdContext.current
Bapi_Persdata_Getdetailedlist_OutputElement().modelObject().execute();
     // Synchronise the data in the context with the data in the model
       wdContext.nodeOutput().invalidate();
    }
    catch (Exception ex)
    {
      // If an exception is thrown, then the stack trace will be printed
      ex.printStackTrace();
    }
    //@@end
  }
```

5. Save the new metadata by choosing the icon 4 (Save All Metadata) from the toolbar.

Steps 4-5 are repeated for excuteyz\_bapi\_addressemp\_getdetail\_output and excuteyz\_bapi\_bank\_detail\_output methods.



## Building, Deploying, and Running the Application

#### Building the Project

- 1. Save the metadata for your project in its current state.
- 2. In the *Web Dynpro Explorer*, from the context menu of the project node HRPage, choose Application Create Application (HRPageApp).

#### **Deploying the Project**

- 1. In the *Web Dynpro Explorer*, expand the project node **HRPage** and choose select the application HRPageApp
- 2. Choose 🔜 Deploy New Archive and Run.

#### Result

The Developer Studio performs the deployment process and then automatically launches the HRPage application in the web browser.

Test the Web Dynpro application by entering a valid EmployeeNo and PassWord for the UserID and Password and then clicking the Submit button. Provided the system contains the appropriate flight data, it will display it in the browser as shown below.

#### LoginView

User enters valid EmployeeID and Password he will be directed to Mydata, AdressDetails, Bankdetails, Links along with Mydata.

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Mydata: Employee Details

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My Data	
Name A.Anand	
Employee No 0000001	
Country India	
Date of Joining 10/10/2000	
Date of Birth 15/06/1979	
Gender Male	
Nationality India	
Place of Birth Bangalore	
Language EN	
Martial Status Single	

#### **Address Details**

On clicking the Addressdetails link:

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Name       A.Anand         Employee No       0000001         Country       India         Date of Joining       10/10/2000         Date of Jirth       1506/1979         Gender       Male         Nationality       India         Place of Birth       Bangalore         Language       EN         Martial Status       Single	
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#### **Bank Details**

On clicking Bankdetails link:

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Name	A.Anand						
Employee No	0000001						
Country	India						
Date of Joining	10/10/2000						
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Nationality	India						
Place of Birth	Bangalore						
Language	EN						
Martial Status	Single						
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### Conclusion

This tutorial describes how to design, implement, deploy, and run a basic HR application using Web Dynpro that accesses persistent data from a remote SAP backend system. The HR application lets employees in a company create, display, and change their own data. This is an alternative to standardized HR processes available in Employee Self-Service (ESS) business packages for backend SAP R/3 systems <= 4.6c.

Rather than waiting for the backend SAP R/3 system to be upgraded to the latest release to utilize the latest ESS business package (based on Web Dynpro), this provides an alternative approach to customers to get the benefits of Web Dynpro. Web Dynpro-based applications provide a better look and feel since there is no ITS involved. Web Dynpro iViews show better performance. Based on the complexity of the HR processes and number of applications, the effort for the Web Dynpro development varies. As a result, employees in the Human Resources Department can concentrate on other tasks of greater strategic importance.



## **Author Bio**



V. Ramakrishna has been working as an associate consultant for SAP NetWeaver Competence Group (NWCG) at Wipro Technologies, Bangalore, India since September 2004. He has five years of IT experience since completing his PG in structural engineering from IIT Madras in February 2000. His areas of interest are cutting edge technologies, such as web application servers, Web Dynpro integration, JDI, Visual Composer, Solution Manager, Enterprise Portal, and J2EE with SAP NetWeaver Developer Studio.