

Using Adobe Interactive Forms: Part 2 – Technical Overview and Demonstration

Session ID: 708B

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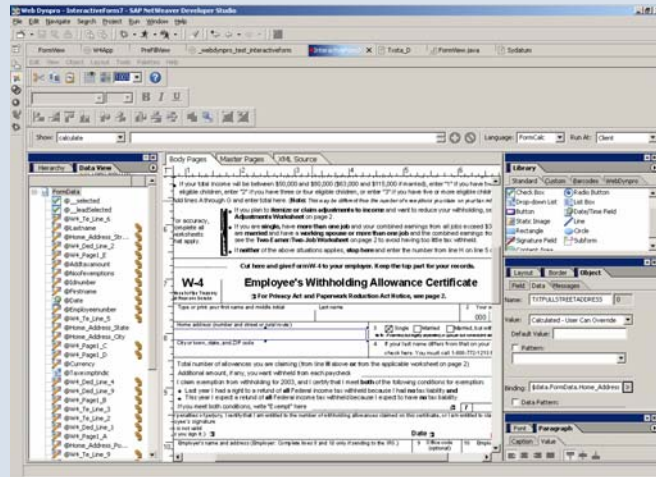


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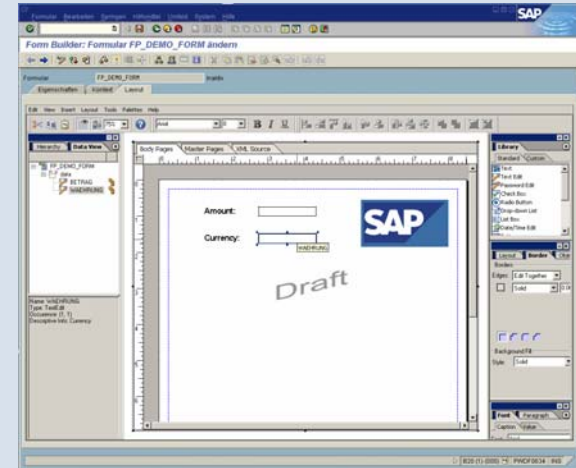


Interactive Forms Solution – Design Time

NetWeaver Developer Studio



ABAP Workbench



SAP Web Application Server

Java PDF Object

ABAP PDF Object

Adobe document services

J2EE Engine



Interactive PDF Forms in Web Dynpro

The screenshot shows a Microsoft Internet Explorer browser window titled "AdobeIntegration - Microsoft Internet Explorer". The address bar displays "C:\Documents and Settings\mzeller\My Documents\Partners\SAP\WebDynpro Demo\AdobeIntegration_viewlet_swf.html". The main content area features the Adobe logo and the text "Interactive Forms Solution Integration into SAP Web Application Server". Below this, there is a sidebar with "Applications" and "Online Application" sections. The "Online Application" section contains a toolbar with icons for "Save a Copy", "Print", "Email", "Search", "Review & Comment", and "Sign". The main form area is titled "SAP Travel Request" and contains the following fields:

Name		Estimated travel period	
Name	Peter Tillert	Departure date	Thursday, February 5, 2004
Department		Arrival date	Thursday, February 5, 2004
Cost center	0000000000	Travel passengers	Carsten Brandt, Karl Kessler
Destination address	MGM, Las Vegas	Travel by	Train
Travel caused by	TechEd	Approved by	
Drawer		Date	Thursday, February 5, 2004



Adobe provides

■ Adobe Document Services (ADS)

- ◆ Implemented as a Web Service on SAP NetWeaver 04
- ◆ Generates a PDF based on
 - Template (XML Form Template - XFT): layout description
 - Data (XML Form Data - XFD): data
- ◆ Extracts data from a PDF
- ◆ Additional features (not yet used):
 - Encryption
 - Digital Signatures
 - Certificates

■ Adobe Designer (AD)

- ◆ Design time for writing XFTs

■ Adobe Reader (Version 6.0+)

- ◆ Additional Plugin handles client-side communication with Web Dynpro



SAP provides

■ SAP NetWeaver Developer Studio

- ◆ Java Development Tools (e.g. WebDynpro with Interactive Form UI element)
- ◆ Designer Integration Control (embeds Adobe Designer in Developer Studio)

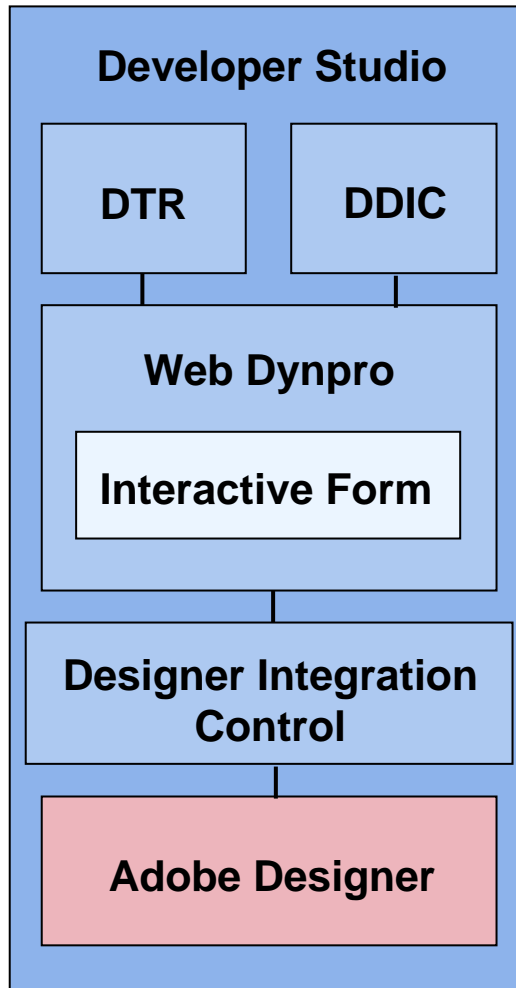
■ SAP Web Application Server

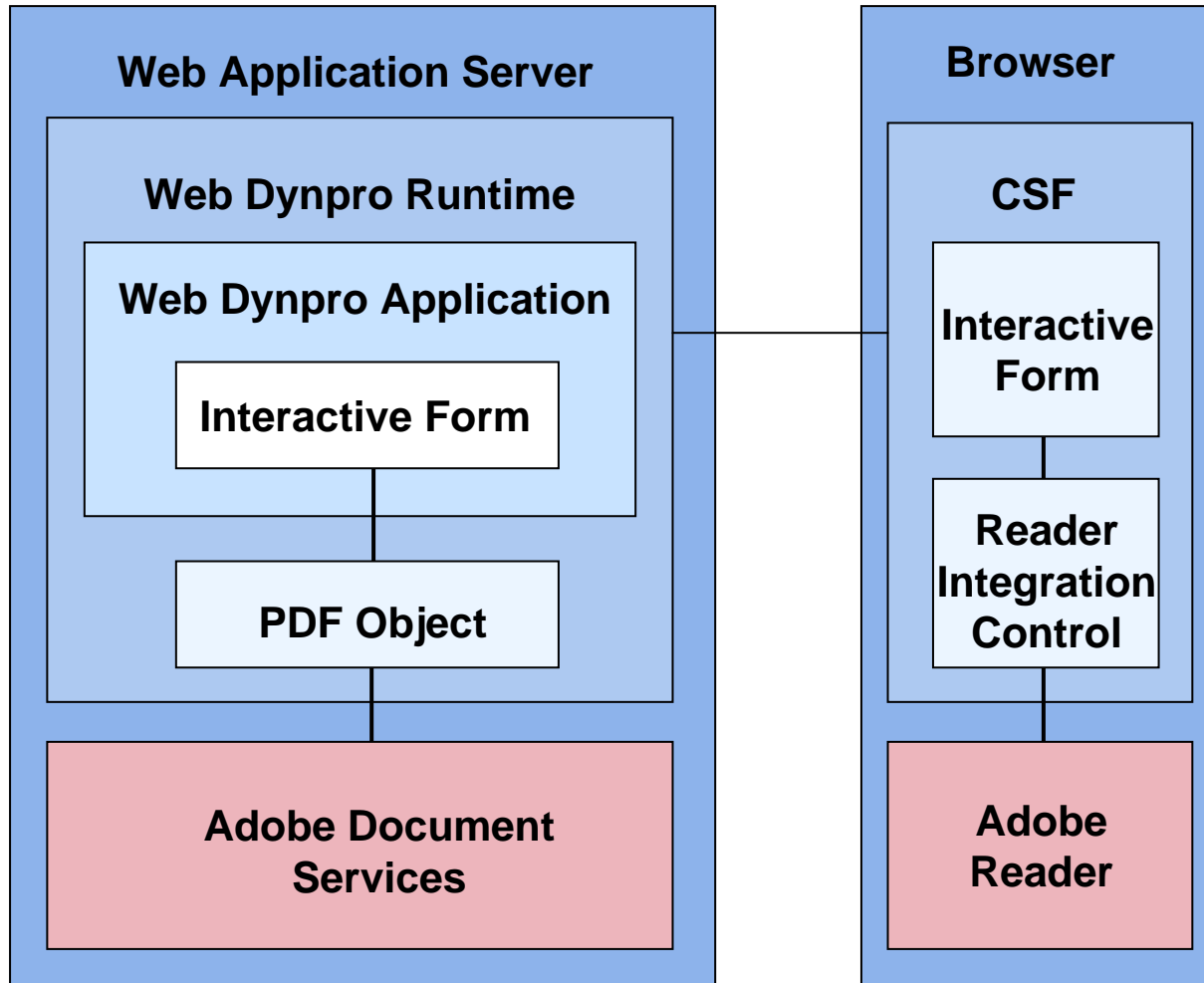
- ◆ Web Dynpro Runtime (e.g. Interactive Form server-side element)
- ◆ PDFObject
 - Application interface for ADS-calls:

```
IWDPDFObject pdfObject = WDPDFObjectFactory.getPDFObject();  
pdfObject.setTemplate(templateURL);  
pdfObject.setData(dataStream);  
boolean callStatus = pdfObject.createPDF(resultURL);
```

- ◆ Reader Integration Control (client-side integration: DLL + Installer)









Interactive Forms Solution

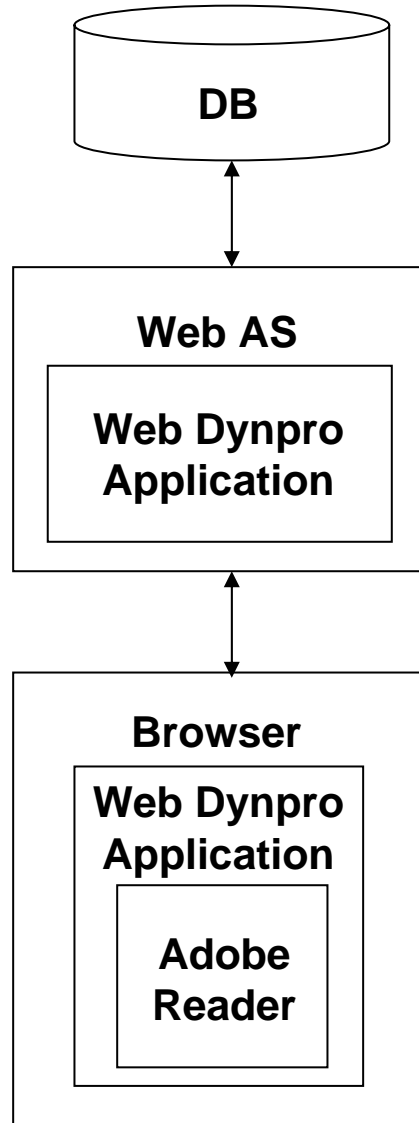
Integration into SAP Web Application Server



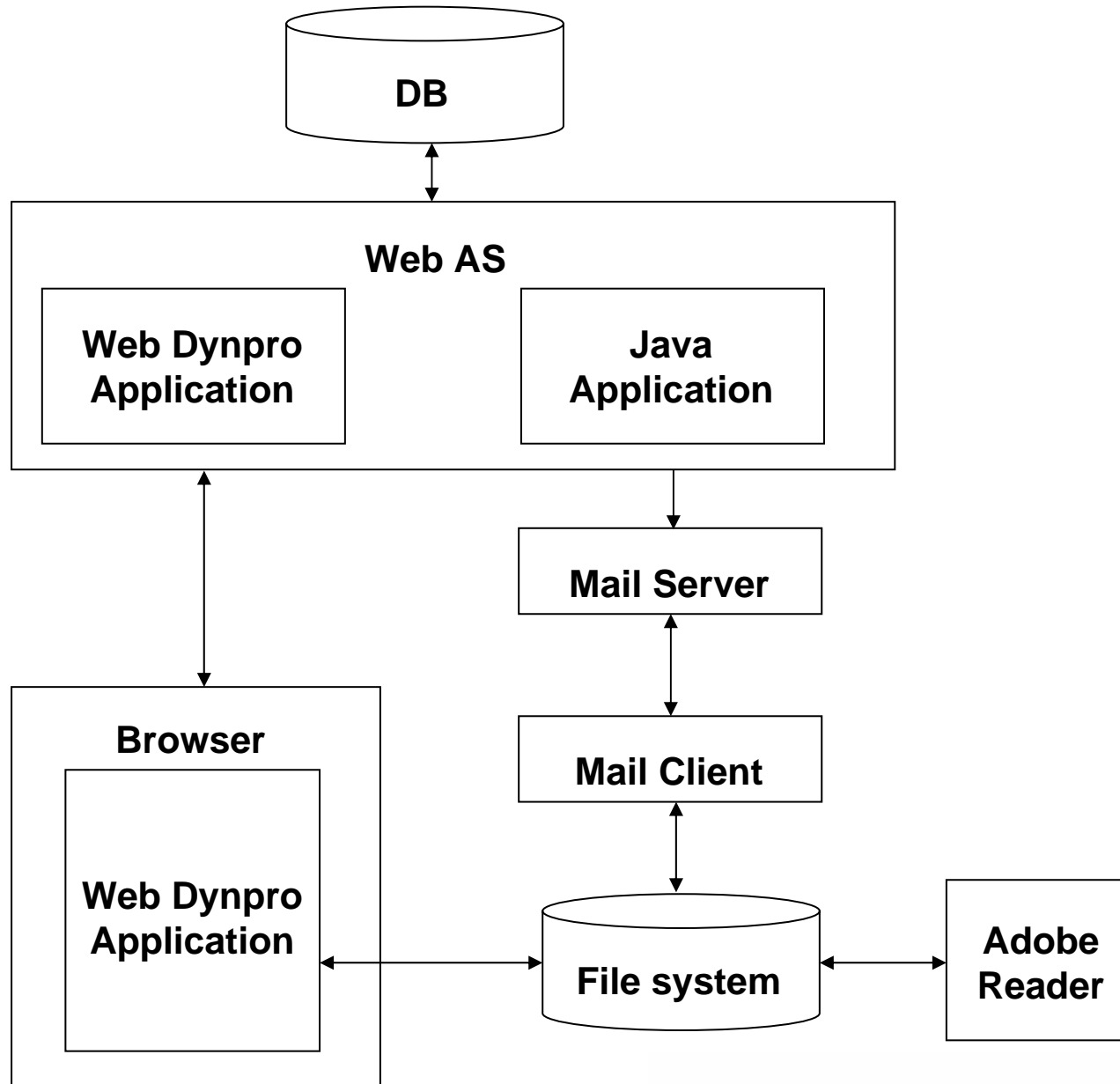
Demo



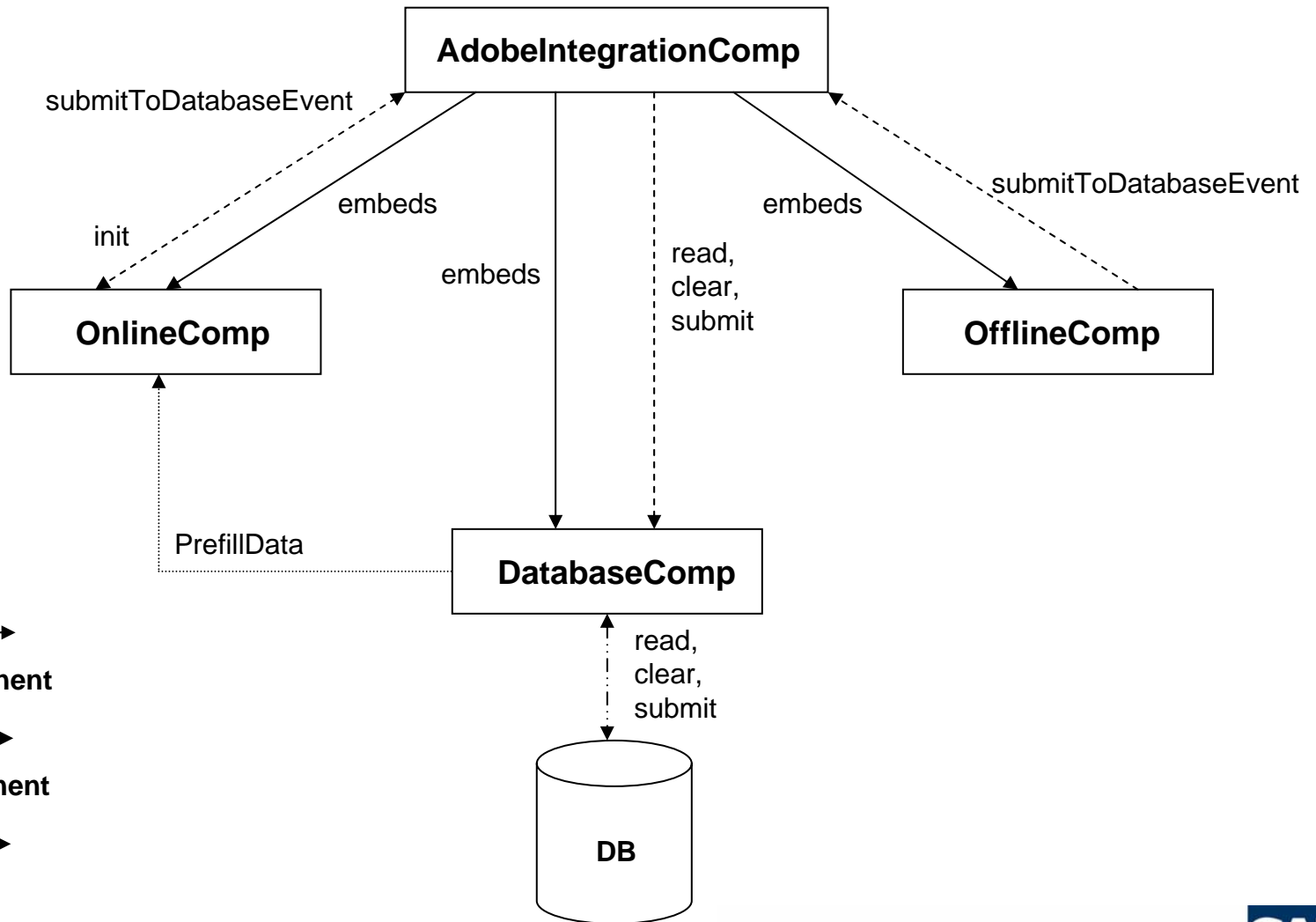
Interactive Form Demo – Online Scenario



Interactive Form Demo - Offline Scenario



Web-Dynpro-Project-Diagram: AdobeIntegrationDC



Build Up Context Of Form View

The screenshot shows the SAP NetWeaver Developer Studio interface. The main window is titled 'Web Dynpro - OnlineView - SAP NetWeaver Developer Studio'. The 'Web Dynpro Explorer' on the left shows a project structure with 'OnlineView' selected under 'Views'. The 'Context' view in the center displays a tree structure of objects for 'OnlineCust - com.sap.demo.adobe.integration'. The 'Layout' tab is selected in the Properties view, and the 'Context' tab is also visible. The 'Context' view displays a tree structure of objects including TravelRequestData, ApprovedBy, ApproverDate, ArrivalDate, CostCenter, Department, DepartureDate, DestinationAddress, Drawer, DrawerDate, Name, TravelBy, TravelCausedBy, TravelPassengers, and pdfSource. The 'Properties' view at the bottom shows the following data:

Property	Value
name	OnlineView
package	com.sap.demo.adobe.integration
path	C:\Documents and Settings\All Users\Documents\SAP\WorkSpace\AdobeIntegration...



Define Form View And Bindings

The screenshot displays the SAP NetWeaver Developer Studio interface. The main window is titled "Web Dynpro - OnlineView - SAP NetWeaver Developer Studio". The "Web Dynpro Explorer" on the left shows a project structure with "OnlineView" selected. The "OnlineView" editor shows a light blue area with a red-bordered box containing the text "UIElement: Form". Below the editor is the "Properties" view, which lists various properties and their values for the selected "UIElement".

Property	Value
Elementproperties of UIElement	
dataSource	TravelRequestData
enabled	true
height	500px
id	Form
mode	generatePdf
pdfSource	pdfSource
templateSource	OnlineView_Form.xdp
tooltip	<>
visible	visible
width	840px
Event	
onCheck	CheckPressed
onSubmit	SubmitPressed



Define Form Layout and Mappings

Data Schema Graphical Layout Designer Designer Tools Palette

The screenshot displays the SAP NetWeaver Developer Studio environment for defining a Web Dynpro form. The main window is titled "Web Dynpro - Form - SAP NetWeaver Developer Studio".

- Data View (Left):** Shows a hierarchy for "TravelRequestData" with fields such as @__selected, @__leadSelected, @Name, @Department, @CostCenter, @DestinationA..., @TravelCause..., @Drawer, @DrawerDate, @DepartureDate, @ArrivalDate, @ApprovedBy, @ApproverDate, @TravelBy, and @TravelPassen... Each field has a corresponding icon (checkmark or pencil).
- Graphical Layout Designer (Center):** A grid-based workspace with a ruler at the top. It contains several form elements: "Arrival date" (text field), "Travel passengers" (text field), "Travel by" (text field), "Approved by" (text field), and "Date" (text field). At the bottom, there are "Check" and "Submit" buttons.
- Designer Tools Palette (Right):** A palette with multiple tabs: "Library", "Layout", "Border", "Object", "Field", "Data", "Messages", "Font", and "Paragraph". The "Library" tab is active, showing a list of tools like "Check Fields", "Enable/Disable Logging", "Submit to SAP", "Value Help", and "Value Help Drop-down List". The "Object" tab is also visible, showing settings for a selected field (Name: TextField1, Value: User Entered - Optional, Binding: \$data.TravelRequestData.Appr...).



Integration into ABAP Workbench (Context Definition)

Interface Description

The screenshot shows the SAP Form Builder interface for editing the form 'FP_DEMO_FORM'. The interface is divided into several panes:

- Left Pane (Schnittstelle):** A tree view showing the form's structure. The 'FP_DEMO_INTERFACE' folder is expanded, showing sub-elements like 'Import', 'Export', 'Tabellen', and 'Globale Daten'. The 'WAEHRUNG' element under 'Globale Daten' is highlighted.
- Right Pane (Context):** A table defining the context for the form. The 'WAEHRUNG' context is highlighted.
- Bottom Pane (Eigenschaft):** Two tables showing the properties of the selected context element.

Context Information Table:

Schnittstelle	Beschreibung	Kontext	Inal	Ger	Beschreibung
FP_DEMO_INTERFACE		FP_DEMO_FORM			
Import		BETRAG			Amount
Export		WAEHRUNG			Currency

Field Description Table (Left):

Eigenschaft	Wert
Allgemein	
Name	WAEHRUNG
Beschreibung	
Dictionary	
Typart	DDIC Typ
Spname	SFLIGHT-CURRENCY

Field Description Table (Right):

Eigenschaft	Wert
Allgemein	
Name	WAEHRUNG
Beschreibung	Currency
Status	Aktiv
Bedingungen	
Daten	
Feld	WAEHRUNG

Context Information

Field Description



Adobe Designer Integration into ABAP Workbench

The screenshot displays the SAP Form Builder interface for editing a form titled 'Form Builder: Formular FP_DEMO_FORM ändern'. The interface includes a menu bar (Formular, Bearbeiten, Springen, Hilfsmittel, Umfeld, System, Hilfe), a toolbar, and a central design canvas. The design canvas shows a form layout with fields for 'Amount:' and 'Currency:', a 'Draft' watermark, and the SAP logo. A 'Data Schema' window is open, showing a hierarchy of data elements: 'FP_DEMO_FORM' containing 'data', which contains 'BETRAG' and 'WAEHRUNG'. A 'Field Description' window is also open, showing details for the 'WAEHRUNG' field: 'Name: WAEHRUNG', 'Type: TextEdit', 'Occurrence: [1, 1]', and 'Descriptive Info: Currency'. A 'Designer Tools Palette' is visible on the right side, listing various form elements like Text, Text Edit, Password Edit, Check Box, Radio Button, Drop-down List, List Box, and Date/Time Edit. The interface also shows a 'Library' window with 'Standard' and 'Custom' tabs, and a 'Border' window with 'Edges' and 'Background Fill' settings.

Data Schema

Designer Tools
Palette

Field Description

Further Information

→ Public Web:

SAP Customer Services Network: <http://service.sap.com/adobe>

Adobe Systems: <http://www.adobe.com/sap>

SAP Developer Network: <http://sdn.sap.com>

→ Product Management / Consulting Contact

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Marc Chan, SAP (marc.chan@sap.com)

→ Further related Presentations at ASUG

- SAPscript, Smart Forms, Choosing an SAP Form Tool (2301)
- Using Electronic Forms to Streamline HR Business Processes (1902)
- Using Adobe Interactive Forms: Part 1 – Business Overview and Usage Scenarios (708A)
- Adobe Partner Booth #2443
- Usability Session: Developer Studio – Web Dynpro (*Topic ID: DYN*)
 - Register at the usability desk in the registration area



Q&A



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