



IBM Software Group

IBM 电子表单解决方案概览

IBM Workplace Forms 2.6

郭蕾

IBM软件部



IBM Workplace Lotus software WebSphere Portal

@business on demand software

Agenda



1) 电子表单以及IBM的电子表单策略

2) Workplace Forms 2.6简介

3) Workplace Form与Portal V6

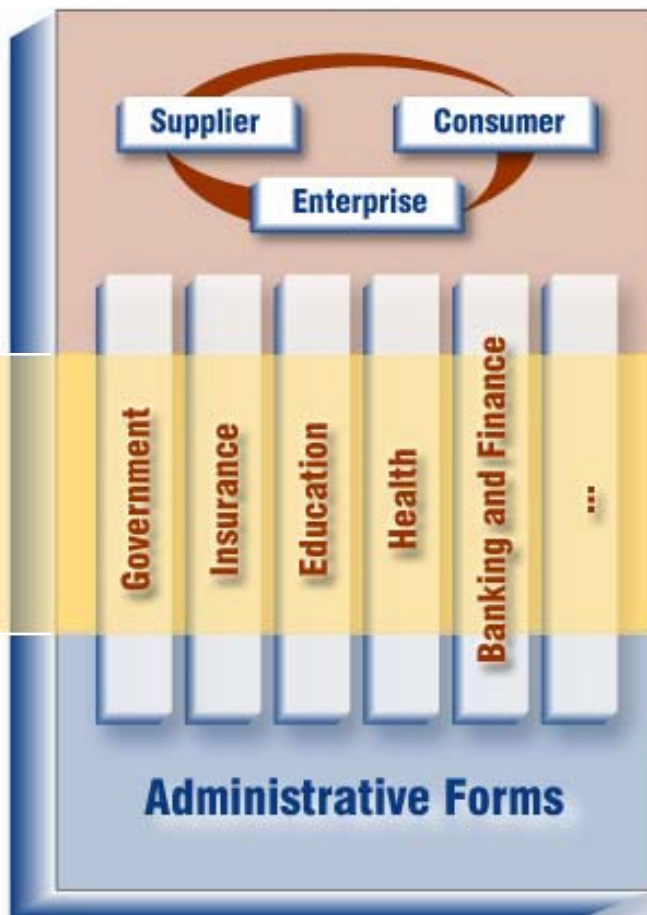
4) 演示

5) 总结



表单无处不在

外部的
(企业)



主要组件

- 安全性和可扩展性
- 平台独立性
- 标准化, 易于使用

垂直的
(企业)

主要组件

- 可扩展性、健壮性 文档管理
- 表单管理

水平的
(部门, 工作组)

主要组件

- 跨平台
- 对现用环境的使用
- 快速应用开发



传统表单处理

- 传统的表单(表格)处理
 - ▶ 表单印制、表单分发、表单填写、表单流转、表单回收、数据录入、表单归档
- 传统表单(表格)处理的问题
 - ▶ 印刷费用高、适应业务变化能力弱、仓储和管理成本高
 - ▶ 传输和流转效率低、数据填写质量不高
 - ▶ 传输过程中的安全难以保证、数据访问权限无法控制



电子表单—以电子的方式进行表单处理

- 以电子的方式提供
 - ▶ 表单部署、管理、授权、流转、归档、数据入库等功能
 - ▶ 有效解决传统表单处理方式的缺陷

“2004年， 电子表单的市场为4,000,000,000美元。”

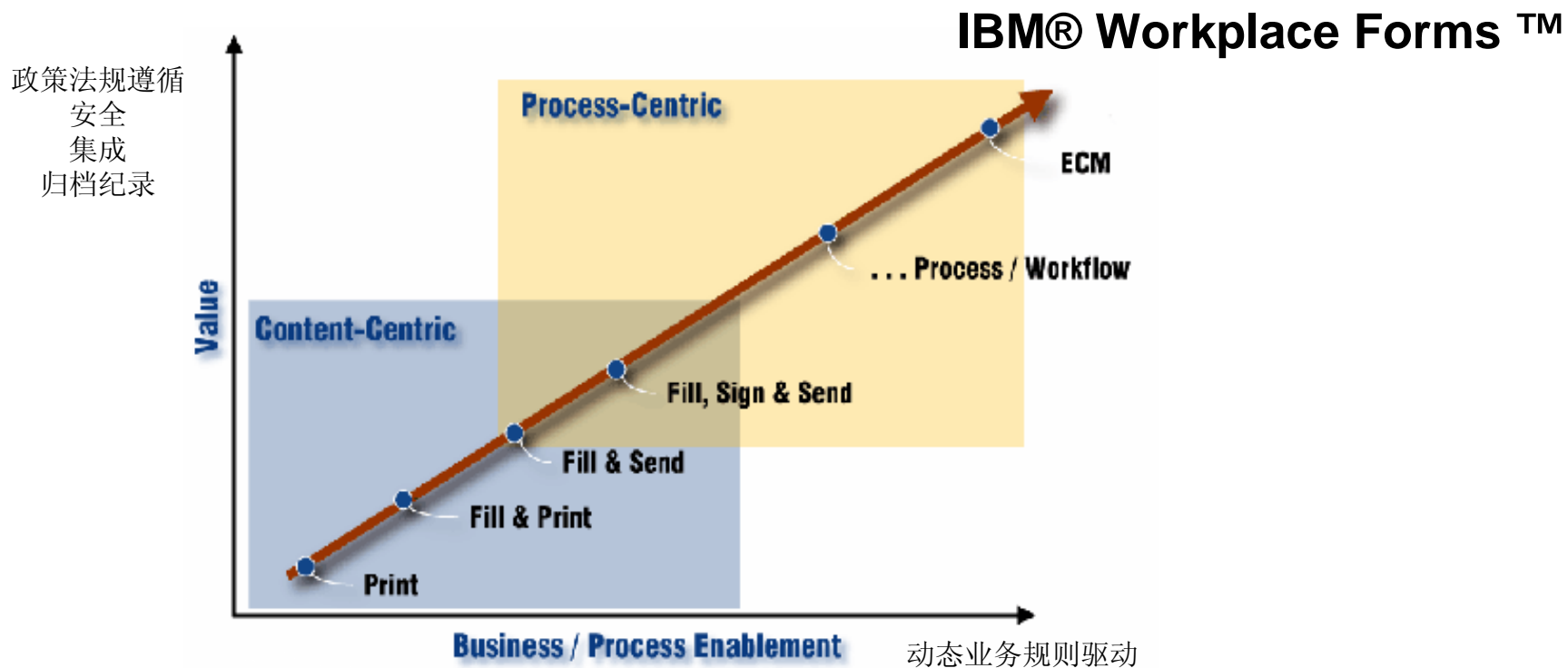
- Gartner Group, 2005年2月

“ 2006年， 作为一个标准企业文档格式， XML实现的电子表单的应用将增加一倍。”

- Gartner Group , 2005年2月



表单市场发展历程及趋势



以主要技术为发展导向： XML, XForms, Web Services, 数字签名

以业务需求为发展导向： compliance, productivity, signing/approvals



IBM在电子表单领域

- **eForms是IBM重点投资的市场领域**
 - ▶ 收购 eForm领域的技术领导者--PureEdge
 - ▶ 建立实验室专门从事eForm产品的研发
 - ▶ 发布了新的产品 - Workplace Forms 2.6
 - ▶ 建立电子表单开发者社区
 - ▶ 推动 XForm标准

- **Workplace Forms 是第一个支持XForm的商用表单解决方案**
 - ▶ 支持XForms, XML和SOA, 适应客户的异构环境
 - ▶ Workplace Forms 2.6中包含基于Eclipse的表单设计环境
 - ▶ 将通过alphaWorks 提供免费的 XForms 设计工具

- **全球化支持, 同时也适合于GMB客户**
 - ▶ Workplace Forms 2.6 支持26种语言
 - ▶ 通过与Workplace Services Express的集成, 向中、低端市场延伸



Workplace Forms 2.6

- **Workplace Forms 2.6:** 于2006第二季度发布
- 国际化
 - ▶ Forms Viewer 和Forms Server: 支持包括中文在内的26种语言
 - ▶ Forms Designer :支持包括中文在内的26种语言
- 平台支持
 - ▶ Forms Server 将支持 IBM AIX , Solaris
 - ▶ 支持Portal 和WAS
 - ▶ 支持FireFox
- **XForms**
 - ▶ Forms Viewer和Forms Server能支持对于包含XForm 1.0内容表单的查看、编辑、签署和提交
- 基于**Eclipse**的**Workplace Forms** 设计工具
 - ▶ 新的基于Eclipse的XForm表单设计工具
- **Workplace Forms** 支持与 **Portal**集成
 - ▶ Workplace Forms 2.6 Integration with Portal v6.0



发展趋势

- 网络连接越来越普及: 随时随地可用的网络连接 WLAN/2.5G/3G/ WiMAX
- 越来越丰富的基于**Web**的用户界面,如 Web 2.0技术, AJAX
 - Web Forms Server 符合该趋势
 - 减少对于私有的客户端阅读器的依赖
- **XForms**的成熟: XForms兼容DSig等标准, 已经足够成熟, 能够满足表单处理的需求, 并能给用户带来更多的价值

Sustainable Competitive Advantage: ease of assembling open components & middleware as business solutions



Workplace Forms 客户案例



Agenda

1) 电子表单以及IBM的电子表单策略



2) Workplace Forms 2.6简介

3) Workplace Form与Portal V6

4) 演示

5) 总结



Workplace Forms: 电子表单文件格式

- 演示层
- 精确到点的表格设计可以完全兼容纸质表单

Brokerage Account Application

INVESTMENTS

Account Type: Individual Estate* Partnership* Custodian for a Minor Collateral Additional Documents Required

Joint Tenants Trust* Corporation* Charitable Organization* Investment Club

Check Writing Account? Yes No Portfolio Account? Yes No

Office: CA-32 AEP: 9999 Account #: 00000

Applicant Information Required by MSRB Rule G-5(a)(ii) and NASD Rule 2310

First Name: Richard Last Name: Smith SSN: 999-99-9999 Date of Birth: 04-15-1964 Business Phone: -

Mailing Address: 123 Electric Form Ave Springfield MA 01111-1234

Legal (Street) Address (Required in addresses P.O. Box #): 123 Electric Form Ave Springfield MA 01111-1234

Employer: PureEdge Solutions Occupation: Doctor City: Springfield State: MA Citizenship: U.S.

Are you or joint applicant employed by a member firm of a stock exchange, a municipal securities dealer or other securities broker or dealer? Yes, Co No

Are you or joint applicant a director, 10% or greater shareholder or policy making executive officer of a publicly traded company? Yes, CUSIP No

I want my name, address, and securities positions disclosed to companies in which I own securities that are registered in nominee or street name. Yes No

Financial Information

Years of Experience: _____ Tax Bracket: _____ % Beneficial Account Owner: _____

I have the following investment objectives:

<input type="checkbox"/> Preservation of Capital (Investment Grade Bonds)	<input type="checkbox"/> Speculation (Options & Futures)	Annual Income (in \$1,000s): _____	Liquid Assets (in \$1,000s): _____	Net Worth with Residence (in \$1,000s): _____
<input type="checkbox"/> Capital Appreciation	<input type="checkbox"/> Tax-Advantaged Income	Risk Tolerance: _____	Time Horizon: _____	
<input type="checkbox"/> Income (Bonds, Mortgage Backed Securities)				

Instructions for Payments & Safekeeping

Securities Settlement Instructions: Money Settlement Instructions (pick one option only)

Money Market Fund Sweep Regular taxable

Banking/Brokerage Reference

Bank or Brokerage Firm: _____ City: _____ State: _____ Account #: _____

T.I.N./Backup Withholding Certification Please READ the following before entering into any transaction or signing this agreement.

(Cross out item (2) if subject to backup withholding.)

(1) I am not subject to backup withholding either because I have not been notified that I am subject to backup withholding as a result of failure to report all interest or dividends, or the Internal Revenue Service has notified that I am no longer subject to backup withholding.

I acknowledge that the attached form of application contains a substitute form W-9 as well as the terms and conditions under which my account will be managed. I further acknowledge that the Internal Revenue Service does not require my consent to any provisions of the attached application other than the certifications required to avoid backup withholding.

To: Mountain-Sure Investments

In consideration of your accepting this brokerage account, I (we) hereby acknowledge that:

- (1) I (we) have received, read, understand and agree to the terms set forth above and in the Customer Agreement printed on the reverse of this application, including the predispute arbitration clause set forth in paragraph 16.
- (2) I (we) authorize the mutual or electronic transfer of funds between accounts on this application. All persons must sign if this is a joint account.
- (3) Mountain-Sure Investments (MSI) is a member of the NASD & SIPC.
- (4) Mutual funds, annuities and other investment products are "not FDIC insured," not deposits or obligations of or guaranteed by any bank, and "may involve investment risk, including possible loss of the principal amount invested."
- (5) Brokerage services and products are offered through Mountain-Sure Investments.

Applicant: _____ Date: _____ Joint Applicant: _____ Date: _____

Brokerage Accounts Representative: _____ Date: _____ Approving Principal: _____ Date: _____

Account are carried by MSI, Member NYSE/NASD/SIPC



Workplace Forms: 电子表单文件格式

演示层

- 通过向导引导用户表单的填写

用户界面灵活性

- 关于同一数据的多个“视图”
- 数据/规则驱动的“视图”

动态特性

- 采用基于声明的规则，而不是采用脚本编程
- 实现更复杂的行为而无需深入编程

Workplace Forms: 电子表单文件格式

The image displays a screenshot of a 'Brokerage Account Application' form from Mountain-Sure Investments. The form includes sections for 'INVESTMENTS', 'Account Type', and 'Applicant Information'. Below the form, a flowchart illustrates the business logic. It starts with a decision point for 'User Changes Account Type'. If 'Yes', it leads to 'Application Requires Docs' (show attachments, pop up instructions) or 'Application Needs No Docs' (hide attachments). If 'No', it leads to 'Approving Principal Signature Enabled' (Unsigned/Signed) or 'Approving Principal Signature Disabled'. A separate flowchart shows a central hub for switching between various application types: Individual, Joint Tenants, Corporation, Estate, Charitable Org., Collateral, Investment Club, Custodian for Minor, Trust, and Partnership. A note indicates that users can switch between these types and back again.

■ 演示层

商业逻辑

- 在表单中包含表单填写流程
- 集成商业流程工作流

商业规则灵活性

- 位于客户端和服务器的表单逻辑能够满足各种业务需求

Workplace Forms: 电子表单文件格式

Mountain-Sure INVESTMENTS Brokerage Account Application

INVESTMENTS Check/Writing Account? Yes No Portfolio Account? Yes No

Account Type Individual Estate* Partnership* Custodian for a Minor Collateral Investment Club
 Joint Tenants Trust* Corporation* Charitable Organization*

Applicant Information Required by MSRB Rule 0-9(a)(ii) and NASD Rule 2310

First Name: Richard Middle Initial: Last Name: Smith SSN: 999-99-9999 Date of Birth: 04-15-1964 Business Phone: () -
 Mailing Address: 123 Electric Form Ave City: Springfield State: MA ZIP Code: 01111
 Legal (Street) Address (Required in addition to P.O. Box #): 123 Electric Form Ave City: Springfield State:
 Employer: PureEdge Solutions Occupation: Doctor City: Springfield

Are you or joint applicant employed by a member firm of a stock exchange, a municipal dealer or other securities firm?
 Yes, Co. No

Financial

Flowchart Logic:

- User Changes Account Type
- Application Requires Docs (do / show attachments button do / pop up instructions dialog)
- Application Needs No Docs
- Approving Principal Signature Disabled
- Approving Principal Signature Enabled
- Unsigned

XML Snippet:

```
<account>PureEdge Solutions</name>
<address>
  <city>Springfield</city>
  <state>MA</state>
</address>
<employer>
  <name>PureEdge Solutions</name>
  <occupation>Doctor</occupation>
</employer>
<applicant>
  <name>Richard Smith</name>
  <ssn>999-99-9999</ssn>
  <dob>04-15-1964</dob>
</applicant>
</xforms:instance>
</instances>
<bindings>
  <bind id="occupation" ref="occupation" type="text" value="Doctor" />
</bindings>
</xforms:instance>
```

演示层

商业逻辑

数据实例

- 基于W3C XForms 规范
- 承载多种XML, 有效实现集成
- 根据外部XML schema在客户端进行验证

支持多种schema和标准

- 客户机端或服务端验证
- 唯一在表单中支持多项schema的产品
- 唯一可用于生产的准备好支持 W3C XForms 标准的产品

Workplace Forms: 电子表单文件格式

Mountain-Sure INVESTMENTS
Brokerage Account Application

INVESTMENTS Check Withdrawing Account? Yes No Portfolio Account? Yes No

Account Type: Individual Estate* Partnership* Custodian for a Minor Collateral Additional Documents Required
 Joint Tenants Trust* Corporation* Charitable Organization* Investment Club

Applicant Information: Required by MSRB Rule 2-2(a)(3) and NASD Rule 2210

First Name: Richard, Last Name: Smith, SSN: 999-99-9999, Date of Birth: 04-15-1964, Business Phone: () -

Mailing Address: 123 Electric Form Ave, Springfield, MA 01111
 Legal Address: 123 Electric Form Ave, Springfield, MA 01111

Employer: PureEdge Solutions, Occupation: Doctor, City: Springfield

Are you or joint applicant employed by a member firm of a stock exchange, a municipal securities dealer or other securities dealer? Yes, Co. No

Flowchart Logic:
 - User Changes Account Type
 - Application Requires Docs (do / show attachments button, do / pop up instructions dialog)
 - Application Needs No Docs
 - Approving Principal Signature Disabled
 - Approving Principal Signature Enabled
 - Unsigned

XML Snippet:
 <name>PureEdge Solutions</name>
 <address>
 <city>Springfield</city>
 <state>MA</state>
 </address>
 <occupation>Doctor</occupation>
 </applicant>

Physical Documents:
 - Bylaws of the American Institute of Organizational Health
 - Certificate of Age from the State of Massachusetts

■ 演示层

商业逻辑

数据实例

文件附件

- 捕获完整的事务
- 补充或与电子表单相关的文件
- MS Office、录像、传真等

Workplace Forms: 电子表单文件格式

Mountain-Sure INVESTMENTS Brokerage Account Application

INVESTMENTS

Account Type: Individual (checked)

Applicant Information:

First Name: Richard

Mailing Address: 123 Electric Form Ave

Legal Street Address (Required): 123 Electric Form Ave

Employer: PureEdge Solutions

Are you or joint applicant employed by a member firm of a stock exchange, a municipal securities dealer or other securities...

Approving Principal Signature Disabled

安全的“电子信封”中的数字签名


- 签署多个、重叠的部分或完整的表单
- 使用内置的签名、数字证书或签名小键盘
- 与专用的二进制文件相比显著减少的文件规模

The Internal Revenue Service does not require your consent to any provision of this document other than the certifications required to avoid backup withholding. (see instructions.)

Supporting Documents


0 Documents Attached [Add](#) [View](#) [Remove](#) [Save](#)

Signature of Proposed Insured 1

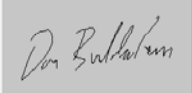


Signed: 2:39 P.M. 17th May 2005

Signature of Proposed Insured 2



Signature of Agent as Witness to all Signatures



Signed: 2:40 P.M. 17th May 2005

Bylaws of the American Institute of Organizational Builders (AIOB) as amended October 10, 2001

Article I
Name
The name of this organization shall be: American Institute of Organizational Builders (AIOB).

Article II
Objectives
The objectives of this organization shall be: to advance the science and practice of research, experiment and other means; to disseminate knowledge regarding principles, publications and exchange of information; to establish an organized training program; and to manufacture of degree of proficiency.



Workplace Forms 2.6产品包



- 产品包内容与上一个版本(2.5)相同:

- Workplace Forms Viewer 2.6
- Workplace Forms Designer 2.6
- Workplace Forms Server 2.6
 - ▶ Internet Deployment Server
 - ▶ Webform Server
 - ▶ API

- 产品界面



Viewer: 支持多语言

Page1

EN English (United States)

Europe (EMEA)

IBM

W PAGE1

An die untere Bauaufsichtsbehörde

PLZ, Ort

Bauantrag

Vorhaben, für das
 (§ 68 Abs. 1 Satz 1)

Bauherrin / Bauherr / An
Name, Vorname, Firma

Straße, Hausnummer

PLZ, Ort

vertreten durch: Name, Vor

在线申请信用卡

您想要申请的是:

说明: VISA和MasterCard是不同的信用卡组织, 您可以根据个人喜好选择信用卡的种类, 建议您两种都选, 不但可以确保用卡通畅, 还可以享受到更多的优惠活动。

VISA **银联** **MasterCard** **银联**

<input type="checkbox"/> VISA金卡	<input type="checkbox"/> MasterCard金卡	信用额度RMB10,000-50,000元 享受优惠多 单卡年费RMB300元
<input checked="" type="checkbox"/> VISA普通卡	<input type="checkbox"/> MasterCard普通	信用额度RMB3000-10,000元 单卡年费RMB100元

申请表下载

申请表添加后, 请寄往: 北京市工体北路甲二号盈科中心IBM大厦25层。
邮编 100027

选择卡种

基本资料

职业资料

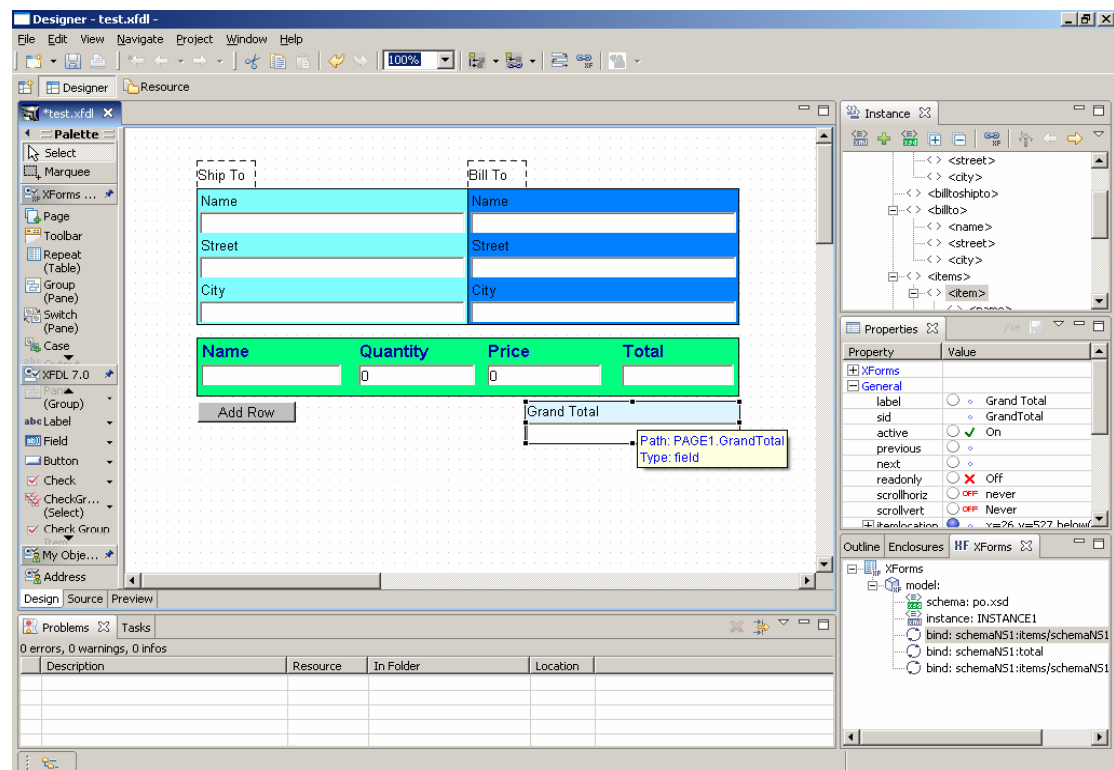
联络人

帐单还款

Workplace Forms Designer 2.6

XForms 设计工具基于Eclipse

- 支持XForms标准
- 模型驱动的设计
- 高级布局功能支持
- 组件可重用
- 动态Tables
- 实时预览
- 一次设计，在多种环境中运行



Workplace Forms: XForms Designer 2.6

The screenshot displays the XForms Designer 2.6 interface. The main workspace is a grid. On the left is a Palette with various form controls. On the right, two panels are visible: the Instance panel and the Outline panel. Both are circled in red.

Instance Panel: Shows the XML instance structure. The root element is `<inst>` with the description "Creates a new Instance from a schema". It contains a `<po>` element with sub-elements `<shipto>` (containing `<name>`, `<street>`, and `<city>`) and `<billto>` (containing `<name>` and `<street>`).

Outline Panel: Shows the XForms model structure. It includes `model:`, `schema: po.xsd`, and `instance: INSTANCE1`.

Properties Panel: Shows the properties for the selected instance. The General section includes:

Property	Value
label	<input type="radio"/> PAGE1
sid	<input type="radio"/> global
previous	<input type="radio"/>
next	<input type="radio"/>
pageid	<input type="radio"/>

Other sections include Appearance, Advanced, and Transmit.

Problems Panel: Shows 0 items.

Workplace Forms: XForms Designer 2.6

The screenshot displays the XForms Designer 2.6 interface. The main workspace shows a form design with a red circle highlighting a section containing three horizontal input fields. A red arrow points from this section to the XML structure in the Instance pane on the right. The Instance pane shows the following XML structure:

```
<instance id="INSTANCE1">
  <tr>
    <td>
      <shipto> (1)
      << <name> (1)
      << <street> (1)
      << <city> (1)
      << <billtoshipto>
      << <billto>
      << <name>
      << <street>
```

The Properties pane on the right shows the following properties for the selected element:

Property	Value
label	<input type="radio"/>
sid	<input type="radio"/> name1
active	<input checked="" type="radio"/> On
previous	<input type="radio"/>
next	<input type="radio"/>
readonly	<input checked="" type="radio"/> Off
scrollhoriz	<input checked="" type="radio"/> wordwrap
scrollvert	<input checked="" type="radio"/> Never
itemlocation	<input type="radio"/> <empty>

The Outline pane at the bottom right shows the following structure:

```
XForms
  model:
    schema: po.xsd
    instance: INSTANCE1
```

The Problems pane at the bottom left shows 0 items.

Workplace Forms: XForms Designer 2.6

The screenshot displays the XForms Designer 2.6 interface. The main workspace shows a form design on a dotted grid. A red circle highlights a form element labeled "Ship To" with a dashed border. Below this label are three input fields labeled "Name", "Street", and "City".

The left sidebar contains a "Palette" with various design tools such as "Select", "Marquee", "Page", "Toolbar", "Repeat (Table)", "Group (Pane)", "Switch (Pane)", "Case", "Output (Label)", "XFDL 7.0", "Table (Repeat)", "Pane (Group)", "Label", "Field", "Button", and "Check".

The right sidebar includes several panels:

- Instance**: Shows the XML instance structure for the form, including elements like `<po>`, `<shipto>`, `<name>`, `<street>`, `<city>`, `<billto>`, and `<billto>`.
- Properties**: A table listing properties for the selected element.
- Outline**: Shows the XForms model structure, including the schema and instance.

The bottom of the interface features a "Problems" and "Tasks" panel, and a table with the following structure:

!	Description	Resource	In Folder	Location

Workplace Forms: XForms Designer 2.6

The screenshot displays the XForms Designer 2.6 interface. The main workspace shows two form sections: "Ship To" and "Bill To". The "Bill To" section is highlighted with a red circle, and a red arrow points from the "My Obj..." button in the left palette to this section. The right-hand side of the interface contains several panels:

- Instance:** Shows the XML structure for the current instance.


```

            <instance id=INSTANCE1>
            <po>
            <shipto>
            <name>
            <street>
            <city>
            <billtoshipto>
            <billto>
            <name>
            <street>
            
```
- Properties:** A table showing properties for the selected element.

Property	Value
General	
Appearance	
justify	<input type="radio"/> left
border	<input checked="" type="checkbox"/> On
visible	<input checked="" type="checkbox"/> On
bgcolor	<input checked="" type="checkbox"/> #0080FF
- Outline:** Shows the overall structure of the form, including "globalpage", "PAGE1", "Page Global", "shipto1", "LABEL1", "LABEL2", "shipto2", "vfd_spacer", and "PAGE2".

The bottom of the interface features a "Problems" and "Tasks" panel, which is currently empty.

Workplace Forms: XForms Designer 2.6

The screenshot displays the XForms Designer 2.6 interface. The main workspace shows a form with two address sections, 'Ship To' and 'Bill To', each containing fields for Name, Street, and City. Below these is a table with columns for Name, Quantity, Price, and Total, and a Grand Total field. A red circle highlights the table and Grand Total field, with a tooltip indicating the path: `Path: PAGE1.GrandTotal` and Type: field.

The right-hand side of the interface features several panels:

- Instance:** Shows the XML structure of the form. A red circle highlights the `<items>` element, which contains the table data.
- Properties:** Lists various properties for the selected element. A red circle highlights the `label` property, which is set to `Grand Total`.
- Outline:** Shows the XForms model structure. A red circle highlights the `bind` elements for the table columns: `bind: schemaNS1:items/schemaNS1`, `bind: schemaNS1:total`, and `bind: schemaNS1:items/schemaNS1`.

The bottom status bar shows '0 errors, 0 warnings, 0 infos'.

Workplace Forms: XForms Designer 2.6

The screenshot displays the XForms Designer 2.6 interface. The main workspace shows a form design with the following elements:

- Ship To** and **Bill To** sections, each containing fields for Name, Street, and City.
- A table with the following data:

Name	Quantity	Price	Total
Item 1	2	\$3.49	\$6.98
Item 2	4	\$6.99	\$27.96
Item 3	6	\$9.79	\$58.74
Grand Total			\$93.68
- An **Add Row** button below the table.
- A **Grand Total** field containing the value **\$93.68**, which is circled in red.

At the bottom of the workspace, there are tabs for **Design**, **Source**, and **Preview**. The **Source** tab is currently selected and circled in red.

On the right side, there are several panels:

- Instance**: The Instance is not available.
- Properties**: A table with columns for Property and Value.
- Outline**, **Enclosures**, and **HF XForms**: The HF XForms panel shows that the XForms is not available.

At the bottom left, there is a **Problems** panel showing 0 errors, 0 warnings, and 0 infos.

Workplace Forms Server: Webform Server 2.6

The screenshot shows a Mozilla Firefox browser window with the address bar displaying `http://aardvark:8085/Samples/FormHandler?pwsAction=open`. The browser's toolbar is circled in red. The main content area displays a web form with the following elements:

Ship To

Name
Street
City

Bill To

Name
Street
City

Item Table

Name	Quantity	Price	Total
Item 1	2	\$3.49	\$6.98
Item 2	4	\$6.99	\$27.96
Item 3	6	\$9.79	\$58.74

Grand Total

Grand Total	\$93.68
-------------	---------

At the bottom left of the form, there is an "Add Row" button. The browser status bar at the bottom shows "Done".



XForm是什么？

- XForm是一个由W3C提出，用来创建“下一代Web表单”的标准
- 2003年由W3C (World Wide Web Consortium)首次发布
 - ▶ 最新的完成版本为1.0，1.1正在起草过程中
 - ▶ Workplace Forms 提供对于XForm 1.0的完整支持, 同时支持1.1的部分功能
 - ▶ 1.0的第二个发行版完成于 2006年3月
- IBM是XForm 1.1的制定者之一



XForm定位

XForms 是表单的开放标准，它基于XML数据schema的语法而构建，旨在提供实现表单数据处理模式需要的规则和用户接口（**Rules and User Interface**），为客户和合作伙伴确保互操作性，从而加速上市和降低成本。

基于表单的应用程序

表单应用程序 – 具体**XForms**部署
(平台、胖/瘦客户机、**UI**实现)

用户界面 – 基于**XForms Intent**的**UI**描述

数据规则 – **XForms** 处理规则

规则管理和描述表单及其数据的上下文、处理和使用
规则描述的支持：数据驱动的**UI**、访问控制、本地化、数据校验、**Web**服务等

数据数据语法 – **XML**数据schema

创新:

应用相关

标准化:

XForms

XForms 不是...

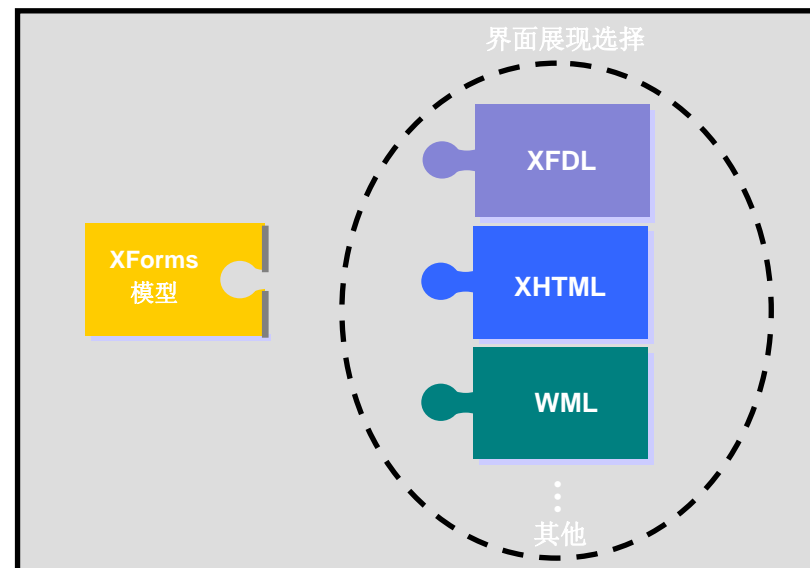
XForms 不是完整的 e-form

- XForms不是为独立工作而设计的!
- XForms没有用于直接展现的组件 – 它不定义form的展现
- XForms 倾向于用宿主语言来进行扩展



XForms的内部结构

- XForms 1.0 是以数据为中心的. 它定义
 - ▶ 一个处理XML数据和任何期望数据格式的模型
 - ▶ 一个用于描述如何与用户进行数据交互的用户接口
 - ▶ 一个规定如何将数据发送给服务器的提交协议
- XForms标准化form的核心业务处理, 而非展现层
- XForms在设计时考虑到了多种不同的展现层选项, 可以根据不同的需求选择
 - ▶ WML, XHTML, XFDL, SVG, VoiceXML etc.



Agenda

1) 电子表单以及IBM的电子表单策略

2) Workplace Forms 2.6简介

3) Workplace Form与Portal V6

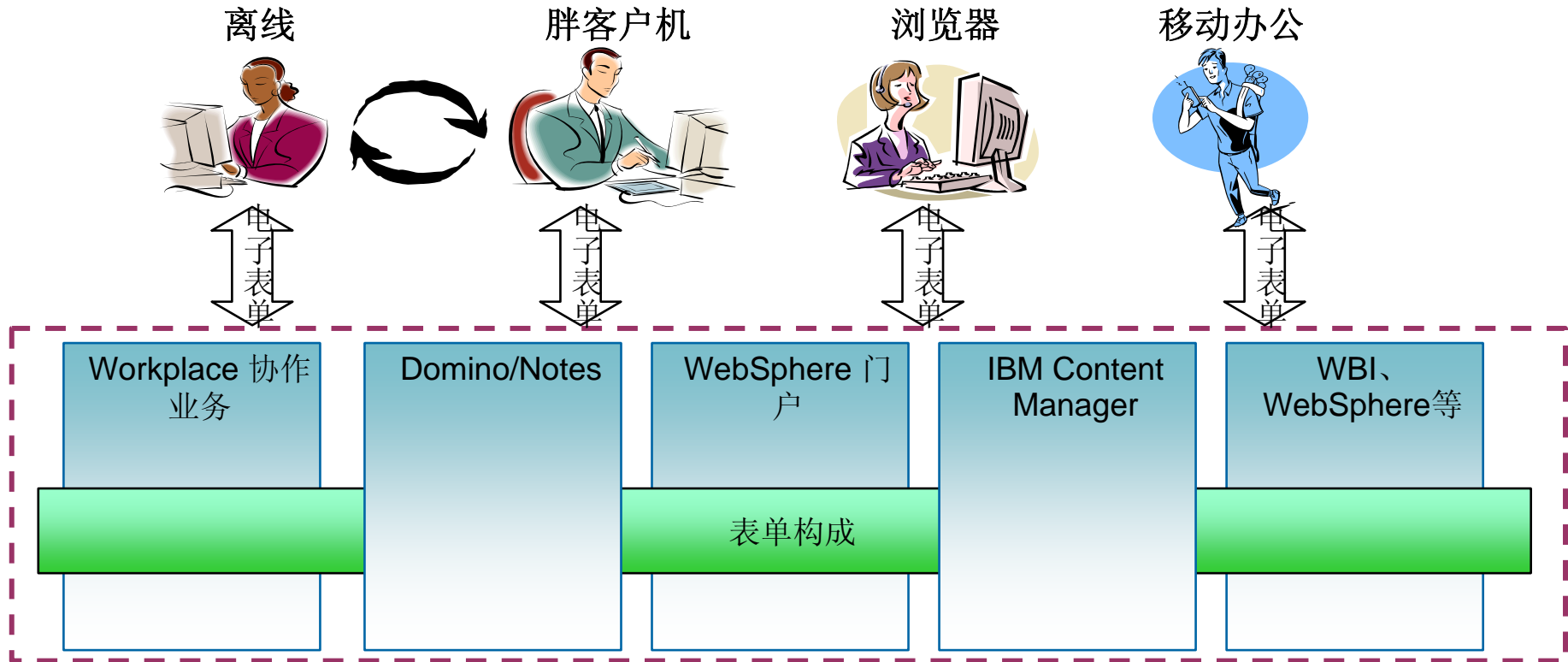
4) 演示

5) 总结



Forms与其他IBM软件集成

- 电子表单为多种不同的IBM软件产品提供一个通用的前台程序。



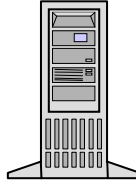
标准架构

客户端



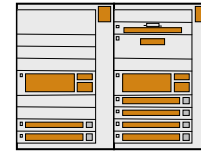
浏览器/安装了客户端的PC

应用层

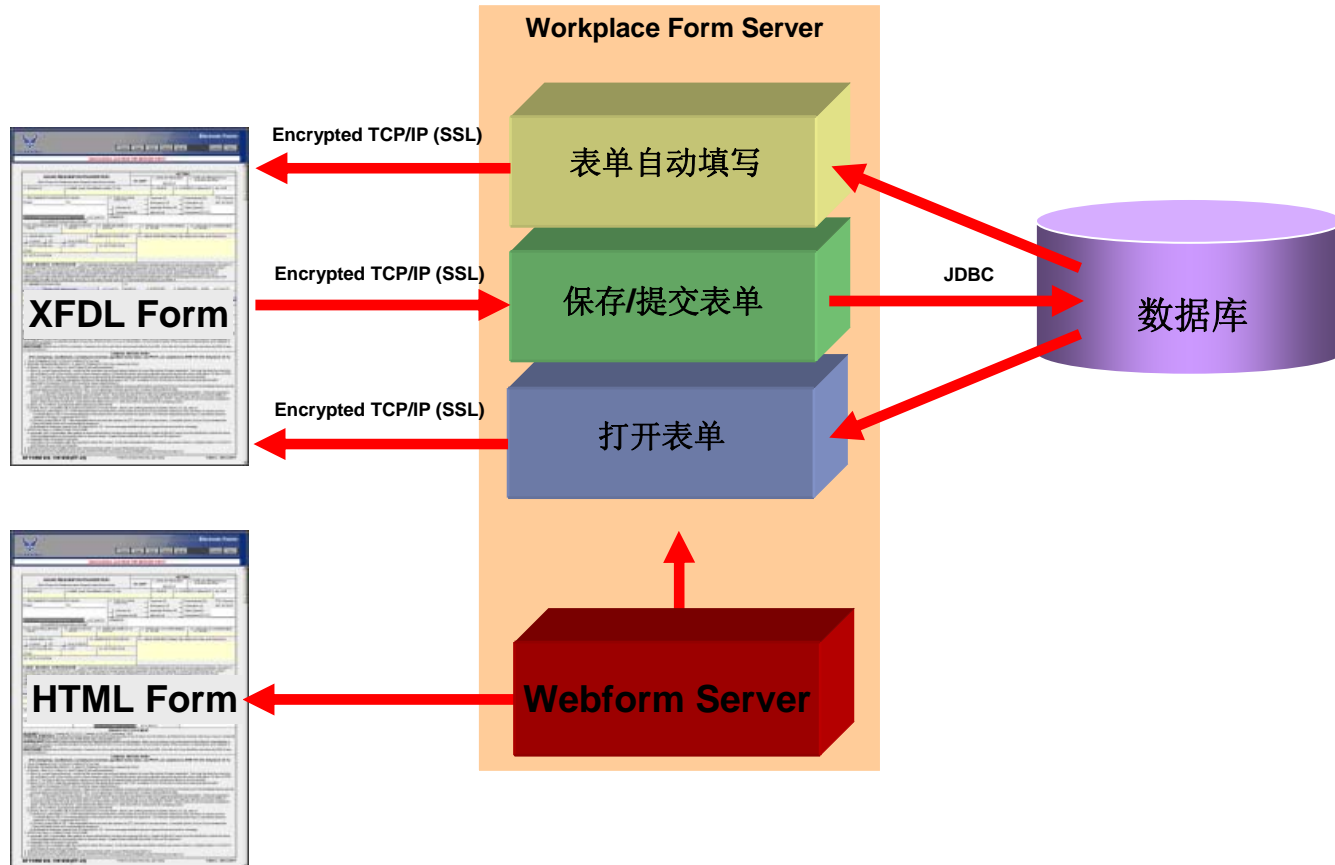


Web/应用服务器

数据层



数据库服务器



Portal 与 Forms的集成

- 在很多企业中表单都被用来开始或完成一个业务流程
- 表单的填写经常可能出现错误，并需要额外的数据源进行校验和存储
- 通过门户可以给用户提供一个统一的查找、浏览和编辑的用户体验
 - ▶ 通过门户，用户在表单填写的同时可以访问其他需要的信息，以保障信息的准确
 - ▶ 与其他人协作，更快地完成表单
- 美国陆军使用Workplace Forms和WebSphere Portal进行内部表单处理
 - 1,400,000用户使用超过100,000种不同的报表
 - 每年节省13亿美金的管理费用

The screenshot shows a web browser window displaying a 'Loan Application' form within a WebSphere Portal. The form is titled 'Apply Now!' and is under the heading 'Borrower Information'. The form fields are as follows:

First Name: Keith	MI: []	Last Name: McGuinness	Social Security Number: 111-11-1111
Address: 55 main st			DOB (MM-DD-YYYY): 01-01-1966
City: boulder	State: co	Zip: 80301	Household Income: 99,000
Home Phone: (555) 555-5555	Ext: []		
Work Phone: []	Ext: []		

The browser window title is 'Microsoft Photo Editor - [2.bmp]'. The address bar shows a URL starting with 'http://wpslut:9081/wps/myportal/'. The browser's address bar and the form's content are visible.

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Workplace Form提供

- 一个开放、完整、高效的标准的表单格式
- 一个高效的电子表单开发工具
- 一套灵活的电子表单处理客户端
 - ▶ 表单离线处理
 - ▶ 数字签名
 - ▶ 可与纸质表格保持一致的风格
- 与**WebSphere Portal**完美结合



谢谢!

