

Lotus.

IBM®

Lotus 软件开发工具策略和产品路线

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议程

- 工具战略与复合应用
- Lotus Notes 和 Domino
- Lotus Component Designer
- WebSphere portal
- WebSphere Portlet Factory & Dashboard Framework
- Rational Application Developer
- Lotus Expeditor
- 参考资料

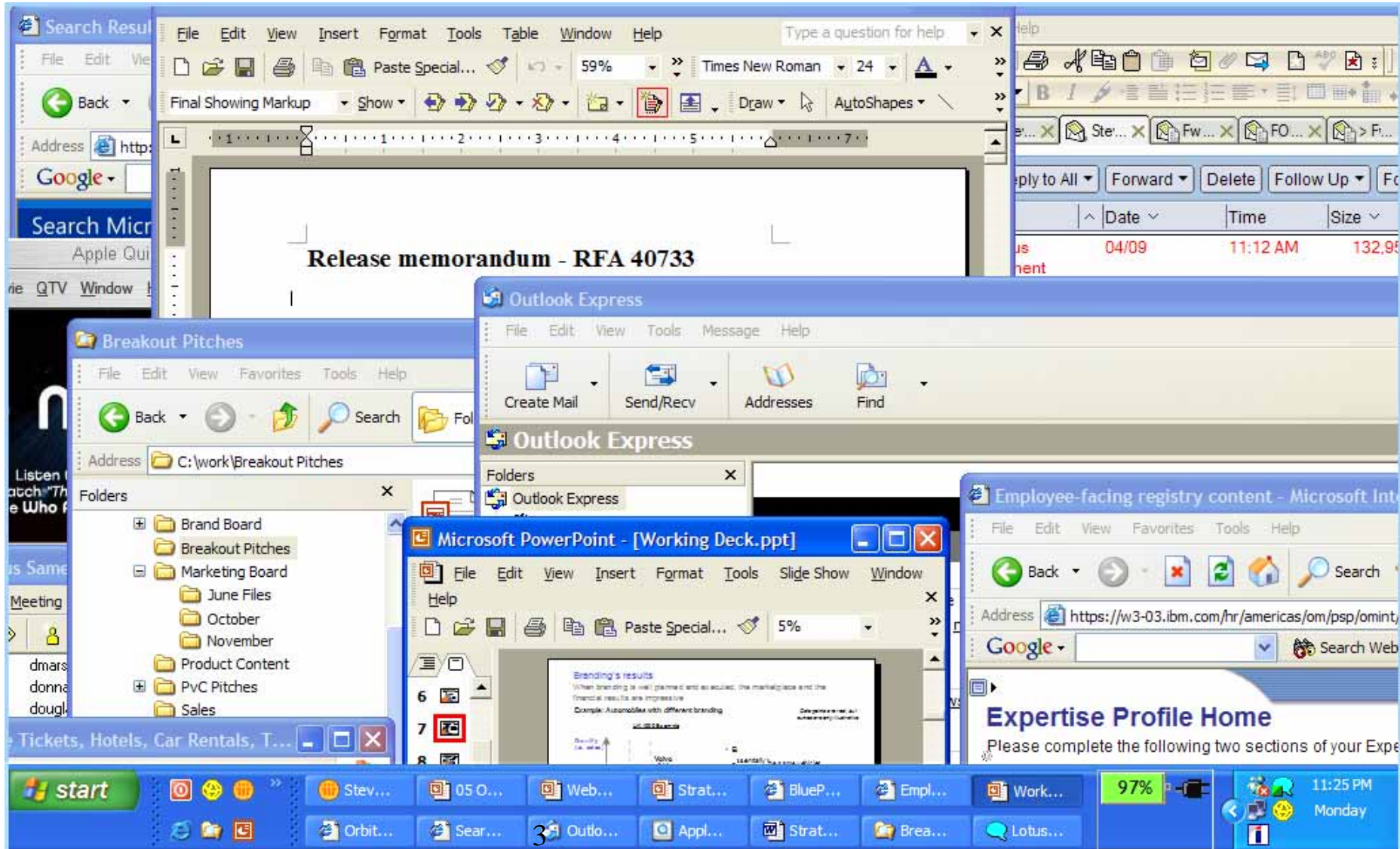


Lotus.



我们的发展目标：

提高用户的效率、反应能力和创新能力...



在工作背景下，他们的工作内容涉及 ...

业务应用

工具

消息

业务单位信息

| Acct. Type | Acct. Name | Acct. No. | Avg Balance | Curr Balan |
|---------------|---------------------------|--------------------------|-------------|------------|
| • Checking | Household Account | 10000111 | \$ 1234.56 | \$ 1100.00 |
| • Savings | Money Market Savings | 10000222 | \$ 1357.00 | \$ 2100.00 |
| • Credit Card | VISA | 10000333 | \$ 1480.00 | \$ 3000.00 |
| • Mortgage | 30 yr Fixed Rate Mortgage | 10000444 | \$ 1590.00 | \$ 4000.00 |

| Acct. No. | Value | Percentage |
|-----------|-------|------------|
| 10000111 | 1,100 | (11%) |
| 10000222 | 2,100 | (21%) |
| 10000333 | 3,000 | (29%) |
| 10000444 | 4,000 | (39%) |



复合应用 - 通往 SOA 的前端

The screenshot shows a Lotus Expeditor browser window displaying a car rental portal. The interface includes sections for Customer Information, Car Information, Booking Information, Alerts, Top Opportunities, EBITDA, Key Performance Indicators, and Sales Activity. Annotations in blue speech bubbles identify various components: 'SAP' points to the EBITDA chart; 'SAP 与 Siebel' points to the Key Performance Indicators table; 'Web 服务' points to the car booking form; 'Domino 数据' points to the Top Opportunities table; and 'Relational 数据' points to the Sales Activity pie charts.

Customer Information:
 Name: Schneider, Robert
 Street: 271 PreWindowOpen Boulevard
 City: Durham, 27543, NC
 Phone: +49 89 32452044
 Email: Robert.Schneider@de.ibm.com
 Card: A1-1234 5678 9090

Car Information:
 Make: Red, Model: Chicago, Size: C, Color: Silver, Slot: 43, Rate: 76.89

Booking Information:
 Start date: 11/9/06, Amount: 76.89
 End date: 11/10/06

Alerts:

| Priority | Status | Alert |
|----------|--------|--|
| High | New | Globe travel - New opportunity > 1,000,000 |
| High | New | World Wide Co. - New opportunity > 1,000,000 |

Top Opportunities:

| # | Account | Rep | Amount | Stage | Product |
|---|-----------------------|------------------|-----------|-------|-----------------|
| 1 | Nike Corp. | Nick Fredrickson | 63,300.00 | 4 | Network Monitor |
| 2 | American Research | Jose Perez | 58,434.00 | 4 | Server Manager |
| 3 | Initech, Inc. | Jane Louis | 48,434.00 | 3 | Server Manager |
| 4 | American Research | Jose Perez | 48,434.00 | 3 | Network Monitor |
| 5 | The River Corporation | Nick Fredrickson | 43,000.00 | 3 | Network Monitor |
| 6 | Williams and Company | Jane Louis | 38,434.00 | 3 | Server Manager |
| 7 | Williams and Company | Jane Louis | 38,434.00 | 3 | Server Manager |

Key Performance Indicators:

| Objectives | 2004 | 2005 YTD | Target | Change |
|------------------|-------------|-------------|--------|--------|
| Operating Profit | \$4,155,500 | \$4,652,000 | 10.0% | 11.95% |
| Gross Margin | \$2,200,800 | \$2,805,000 | 12.0% | 27.45% |
| Return on Equity | 1.03% | 1.87% | 1.0% | 0.84% |

Sales Activity:

| Category | Inactive Total | Active Total | Total |
|-------------------------|----------------|--------------|-------|
| Sales Qualification | ~15% | ~35% | ~50% |
| Technical Qualification | ~10% | ~25% | ~35% |
| Proof | ~5% | ~15% | ~20% |
| Negotiation | ~5% | ~15% | ~20% |
| Close | ~5% | ~15% | ~20% |

接受异构与创新

独立于平台，基于标准

- 充分利用现有的技术投资
- 快速整合新的创新
- 灵活的前端、后台和中间层

在客户层面上实现无缝集成



充分利用众多的协同服务



开放标准

与多个业务流程和内容来源进行整合



开放中间件

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复合应用模型

建立组件

组装和部署

介绍



预置组件



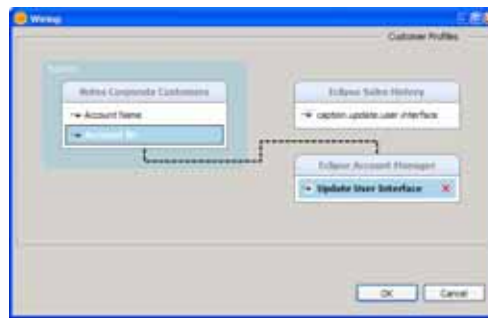
Domino 应用



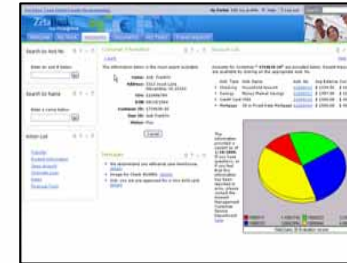
新组件

| ID | Director | Corporate services (ES) | Director of Corporate Ser | 00111010 |
|-----|-----------------------|----------------------------|---------------------------|----------|
| 001 | Director | Corporate services (ES) | Director of Corporate Ser | 00111010 |
| 002 | Manager | Internal Services (ES) | Manager of Internal Ser | 00111011 |
| 003 | Administration | Corporate services (ES) | Secretary of COO (Engage | 00111012 |
| 004 | Administration | Internal Services (ES) | Secretary for Internal Se | 00111013 |
| 005 | Security officer | Internal Services (ES) | Security officer (Primary | 00111014 |
| 006 | IT service technician | Internal Services (ES) | IT service technician (S | 00111015 |
| 007 | Director (ES) | Global Administration (ES) | Director - Operations | 00200101 |
| 008 | IT service technician | Internal Services (ES) | | 00111016 |

企业数据 (例如 SAP)



组件组装与定制



浏览器



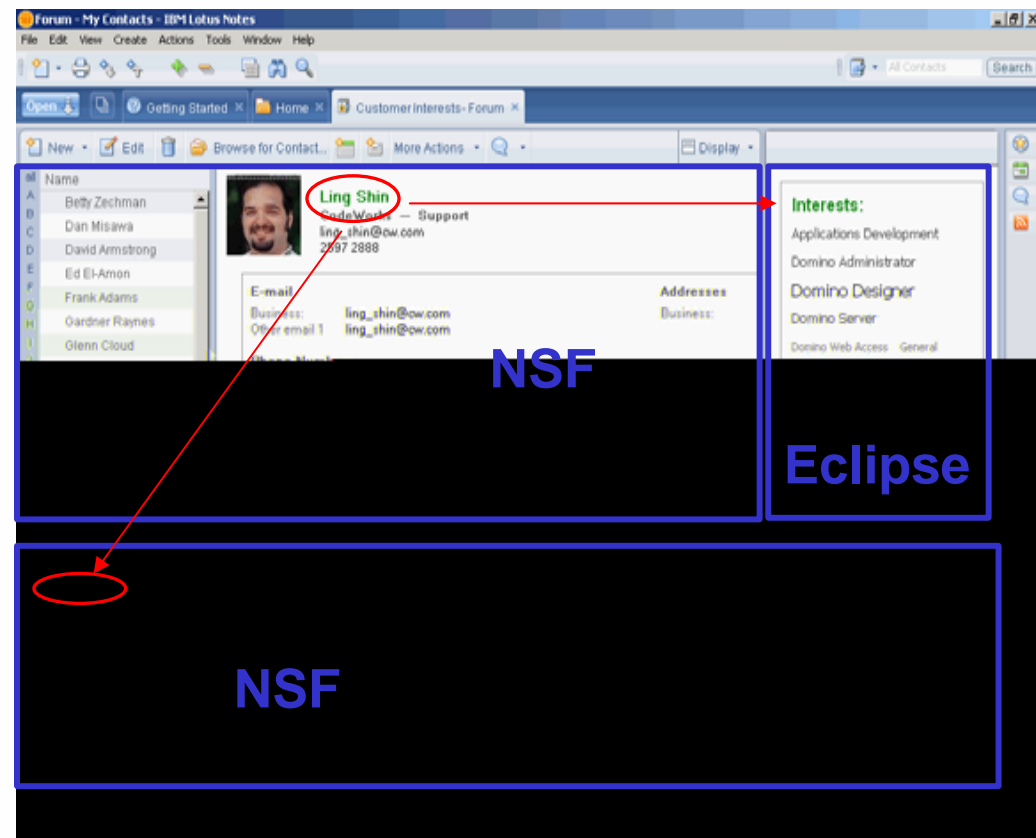
客户端



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通过组件的组合来实现特定的业务目标

- 增强可重复使用性、灵活性
- 扩大覆盖范围
 - 通过 On-the-glass 集成，大幅推进用户生产力的提高
 - 通过可定制的组件交互、背景提供更多价值
- 浏览器或离线客户端
- 对多种类型的组件进行集成
 - Notes / Domino 组件
 - Component Designer 组件
 - Portlets 与 WSRP
- 所有支持的通用组件模型

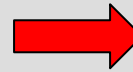


基于以服务为导向的架构

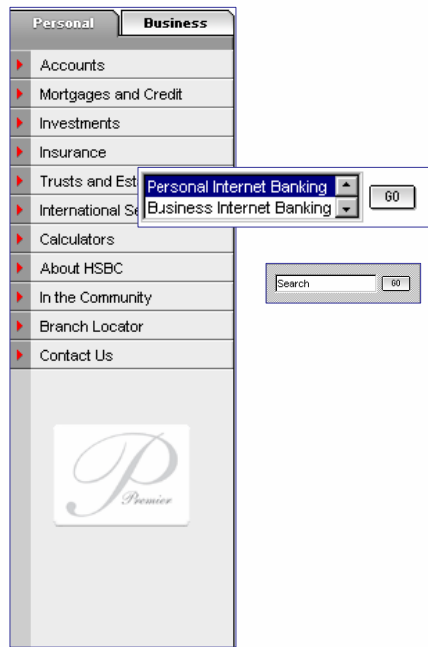
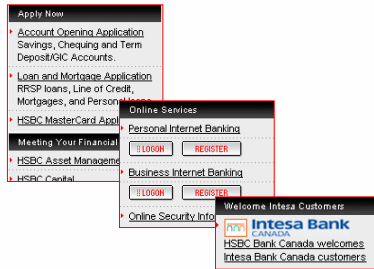
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开发独立的内容片段 + 访问代码和功能组件



组装页面



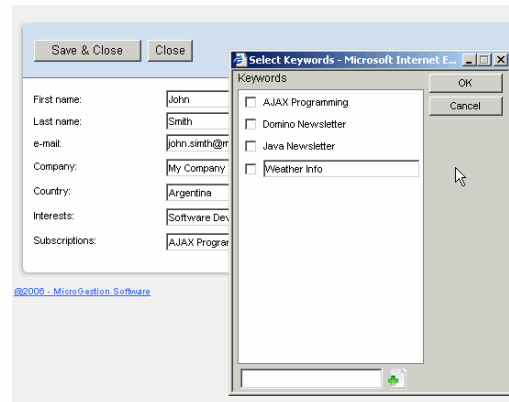
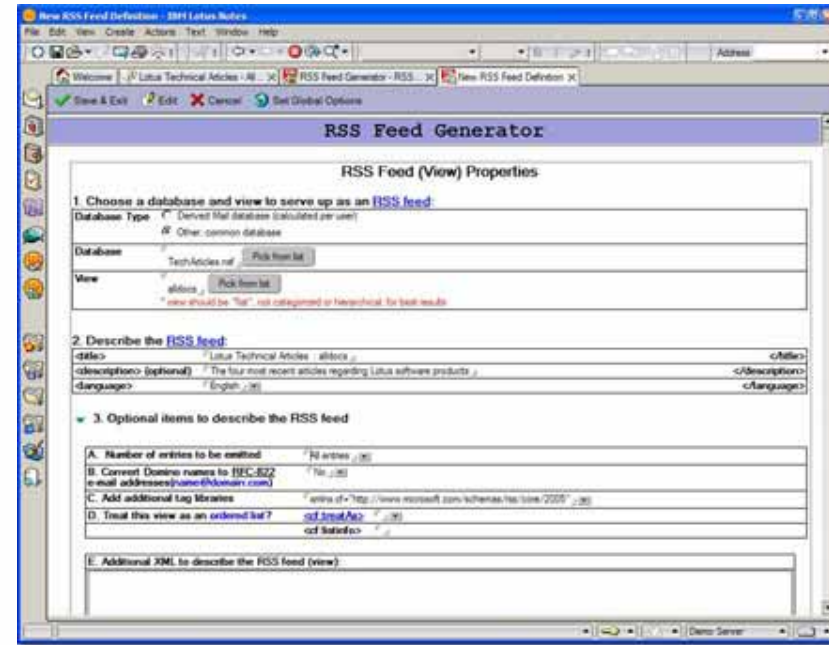
建立电子商务开发环境 (BDE) 并进行管理

IT 部门创建代码并将创建好的代码放入通过 BDE 管理的库内

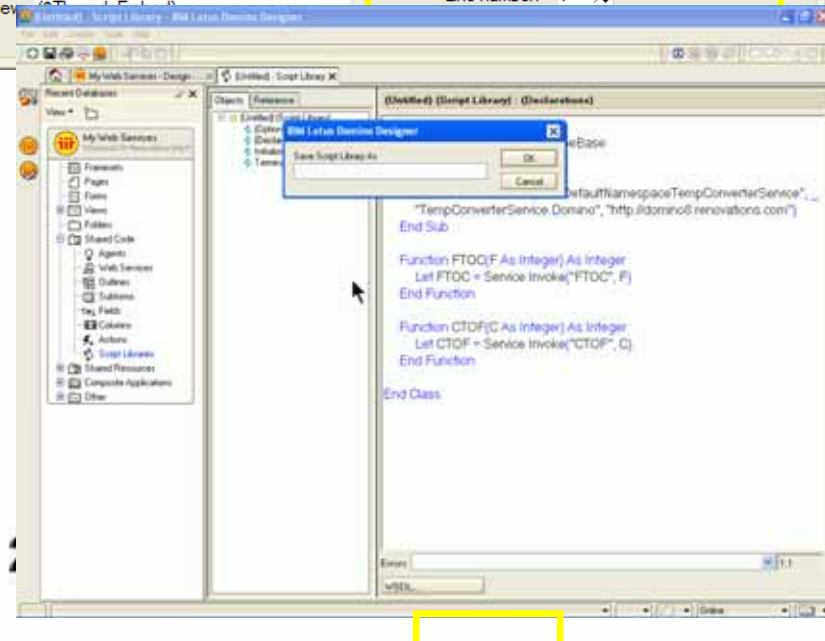
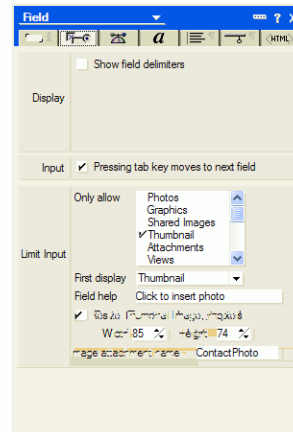
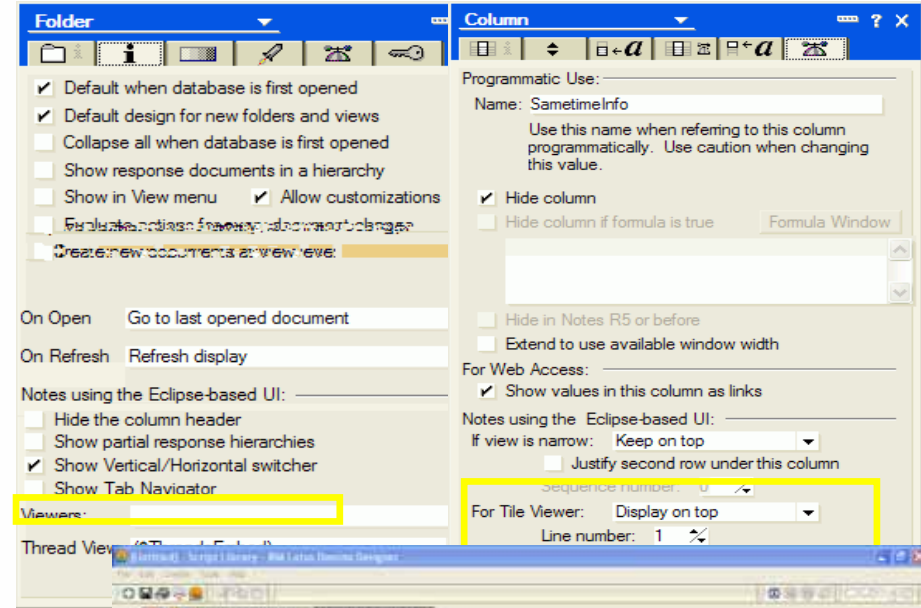
BDE 用户可以通过 IT 代码、内容创建“融合”的页面并运用标准的安全和市场智能



- Notes 8 复合应用
 - 客户端的核心部分
- 新增 Web 2.0 功能
 - RSS and ATOM 数据源
 - Blog 模板
 - AJAX 支持
- Domino DB2 集成
 - Domino 8中的 GA 功能
- Web 服务支持
 - 消费者
 - 提供者

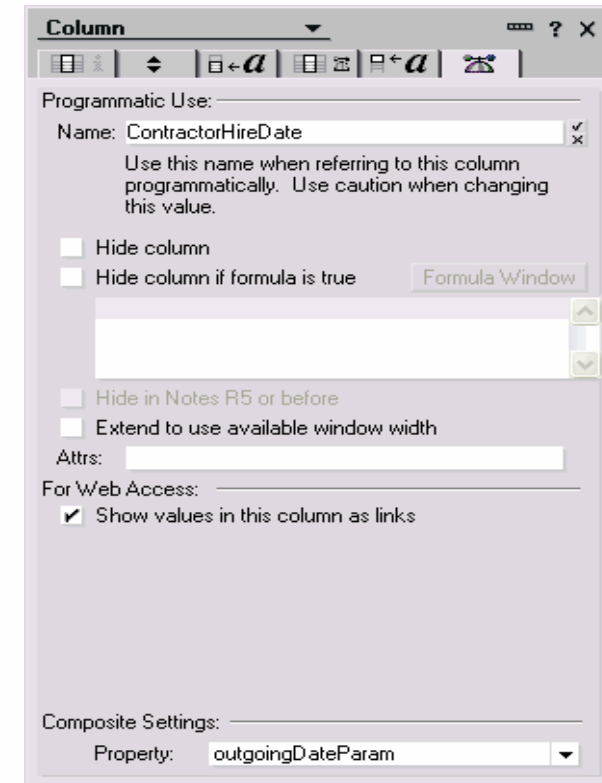
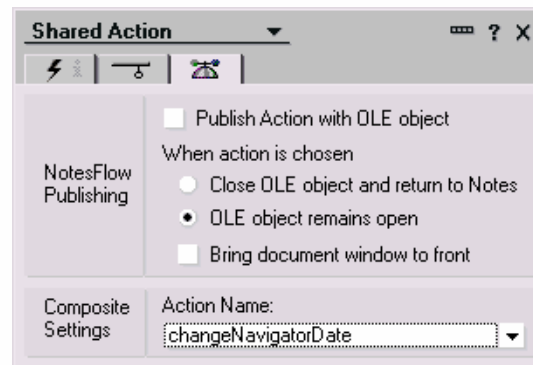


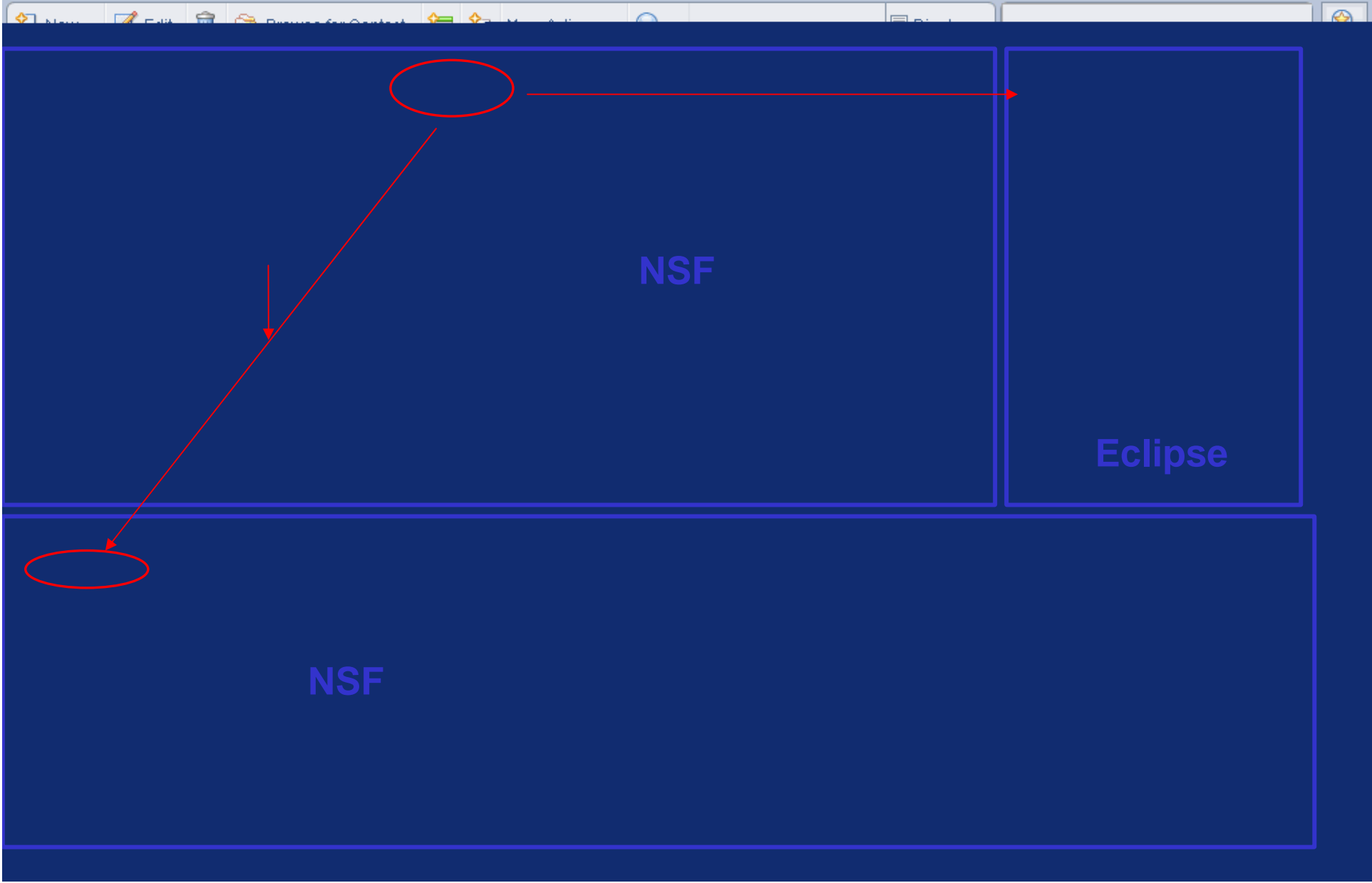
- Domino Designer 仍然是开发 Notes 和 Domino 应用的主要工具
 - v8中有许多新功能
- 垂直预览面板
 - 每列在窄窗口模式下显示选项
 - 自动换行到多行显示
- Split buttons (拆分操作按钮)
- 名片视图
- Web 服务用户
 - 位于客户端或服务器内
- Thumbnails(缩略图)



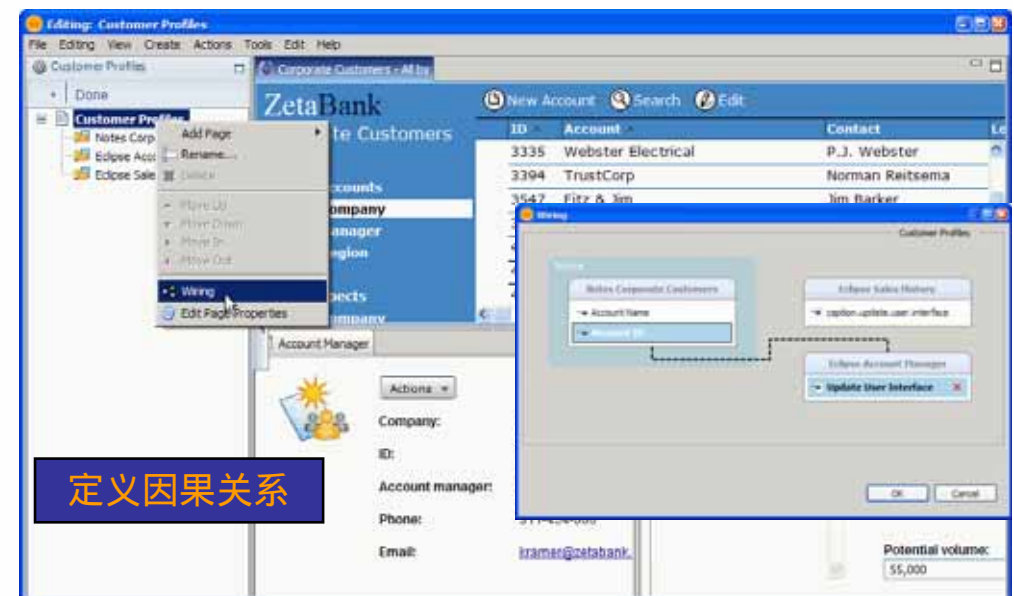
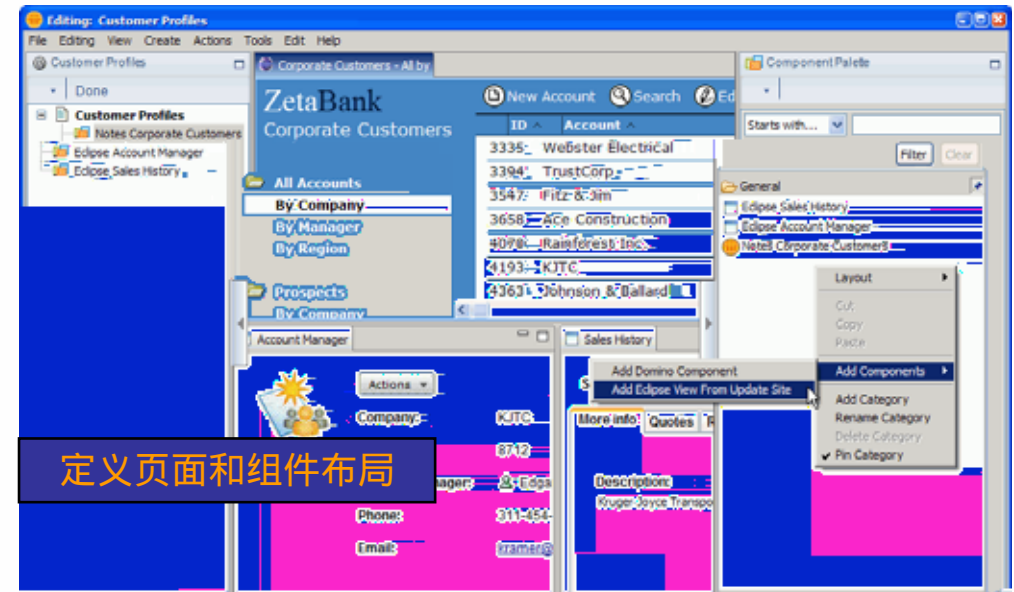
Domino Designer 8中的复合应用扩展

- 公开发布来自 Notes 组件的属性
- 通过 Property Broker 对即将调用的操作进行发布
- LotusScript API 发布特性并检索属性



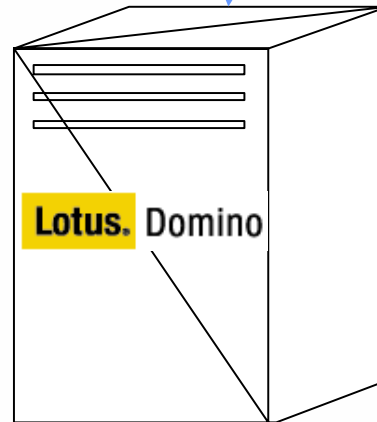
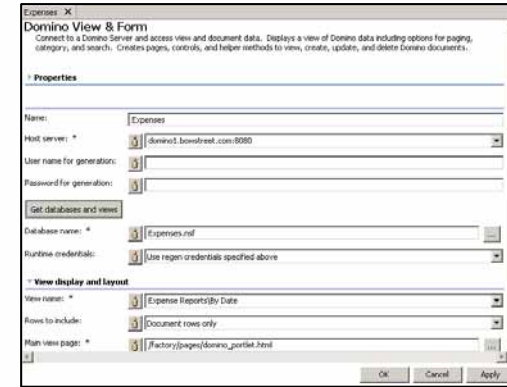
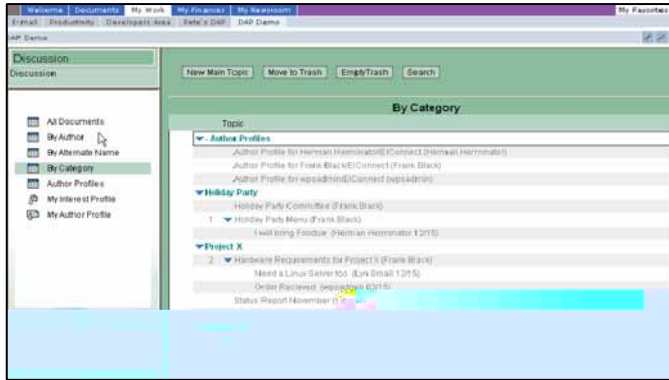


- Notes 8 功能组件
- 对复合应用直接进行编辑
 - 基于 NSF 或门户的应用
 - 支持 LOB 自助服务
 - 功能组件只能供合法用户访问
- NSF 和 Eclipse 组件
 - 添加至面板，在面板上显示
- 将组件拖放至页面
 - WYSIWYG 显示
- 布线接口显示组件属性和操作
 - 1对1或1对 N 因果关系



Lotus.

Domino 与门户的集成 *Domino Application*



Lotus Component Designer

为门户和 Java 平台快速开发脚本

- 充分利用现有的技术，尤其是 Domino 和 VB
- 低进入门槛，易于启动
- 快速实现价值，方便使用
- 基于标准的 XML 和 JavaScript 编程
- 以文档为导向、基于角色的访问

| Discussion Database | | | | |
|---------------------|-----------|---------|----------|-----------|
| By Category | | | | |
| By Category | By Author | By Date | By Title | By Author |
| By Category | By Author | By Date | By Title | By Author |
| By Category | By Author | By Date | By Title | By Author |
| By Category | By Author | By Date | By Title | By Author |
| By Category | By Author | By Date | By Title | By Author |
| By Category | By Author | By Date | By Title | By Author |
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| By Category | By Author | By Date | By Title | By Author |
| By Category | By Author | By Date | By Title | By Author |

Discussion

Team Blog

[New post](#) | [Personalize](#) | [View by author](#)

Share your insight

Saturday, January 21, 2006

Getting the Best Mortgage Rate

Buying a home is an expensive undertaking. The mortgage rate you get will affect your financial well-being for years to come, so getting the best rate should be one of your main priorities.

Posted by [Frank Adams](#) on 1/21/06 12:55 AM | [Comments \[0\]](#) | [Permalink](#)

Saturday, January 21, 2006

2nd Mortgage vs. Home Equity Loan

A second mortgage is best for a one-time big expense, such as remodeling a kitchen, paying for your daughter's wedding, or buying a new car. In these cases, a second mortgage will probably work best for you. But the final decision always depends on the equity in your home and your credit score.

Posted by [Dan Mizawa](#) on 1/21/06 12:53 AM | [Comments \[3\]](#) | [Permalink](#)

Saturday, January 21, 2006

Getting Mortgage Quotes Online

Blog Sample

Expense Report

Expense Report for Chris Reckling

Name: Chris Reckling
 Approver: Dirk Neal
 Date: 8/22/05
 Purpose: Laptop here comes to you show
 Category: Miscellaneous
 Status: New Open Approved Rejected

| Date | Description | Category | Amount |
|--------------------|-----------------|----------|--------|
| 8/15/05 | airfare to site | Airfare | 250.00 |
| 8/15/05 | meals | Meals | 53.00 |
| Subtotal: | | | 303.00 |
| Less cash advance: | | | 0 |
| Total: | | | 303.00 |

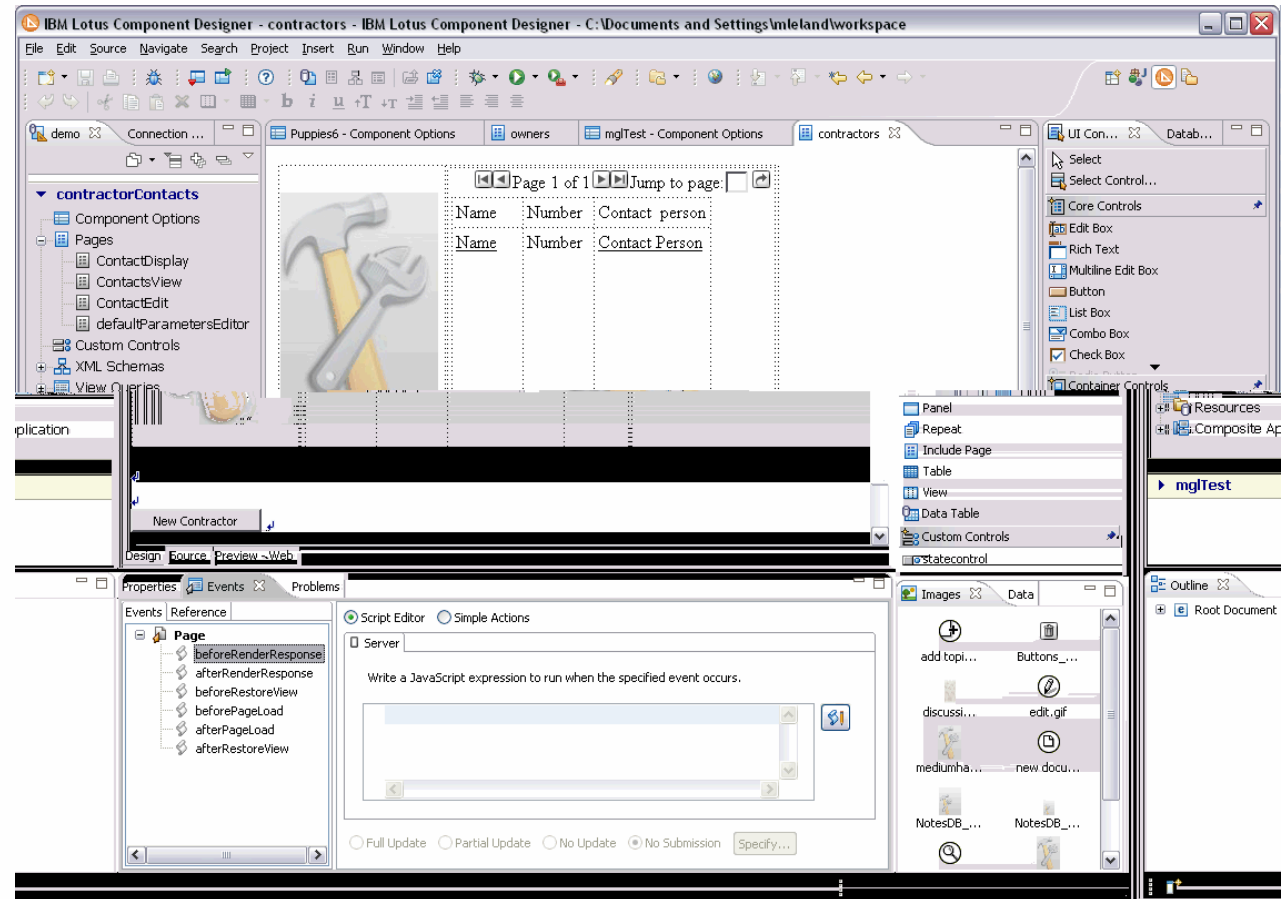
Expense Report



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Lotus Component Designer

- 直观脚本工具
 - 丰富的 UI 控制面板
 - 包括内置的 AJAX
 - Javascript 编辑器
- 基于标准
 - 建立在 Eclipse 之上
 - 在关系数据库中实现 XML 存储
 - Web Services 支持
 - XML Schema 编辑器
- 众多的“Dominoisms”
 - 以文档为导向
 - 文档 API
 - 熟悉的设计元素
- 与复合应用完全集成

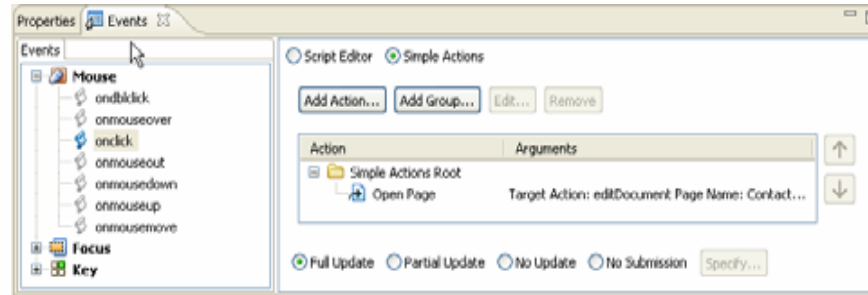
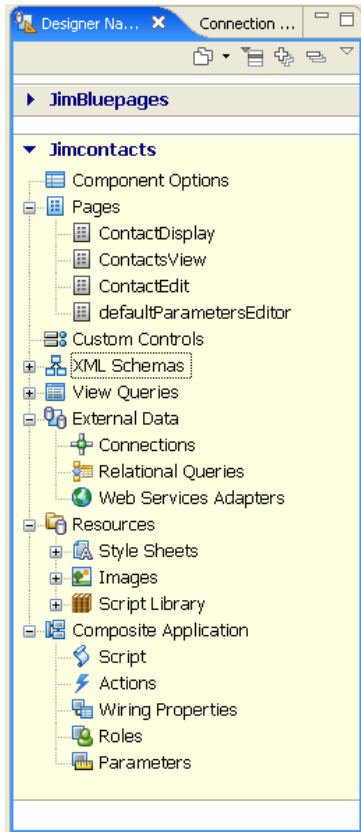


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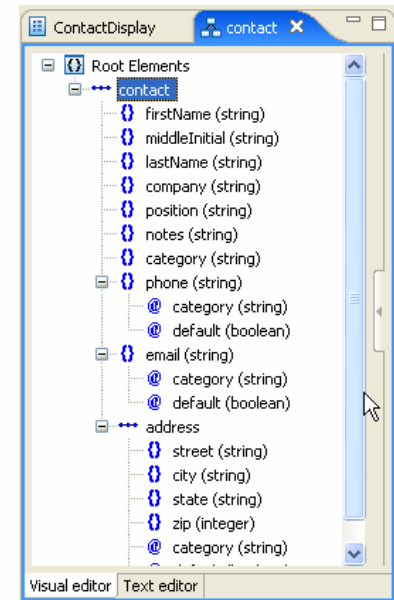
Component Designer 可编程性

设计要素

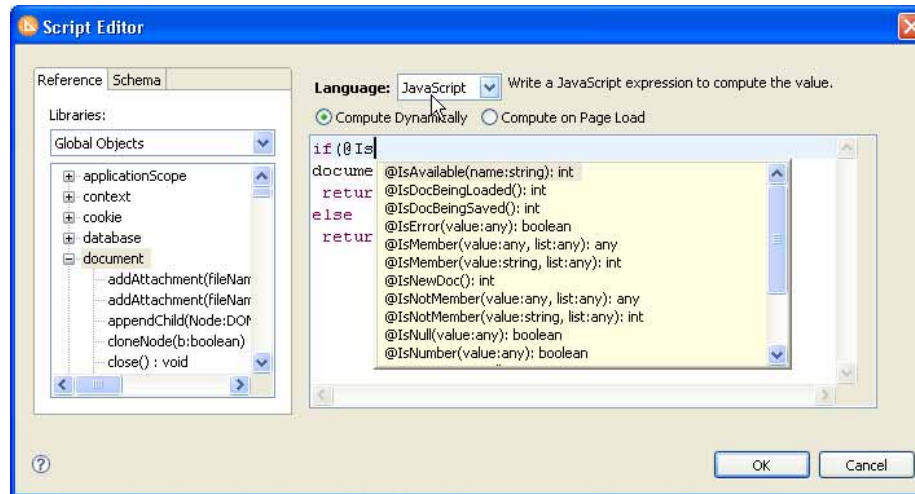
简单操作



XML Schema Editor



Javascript 功能



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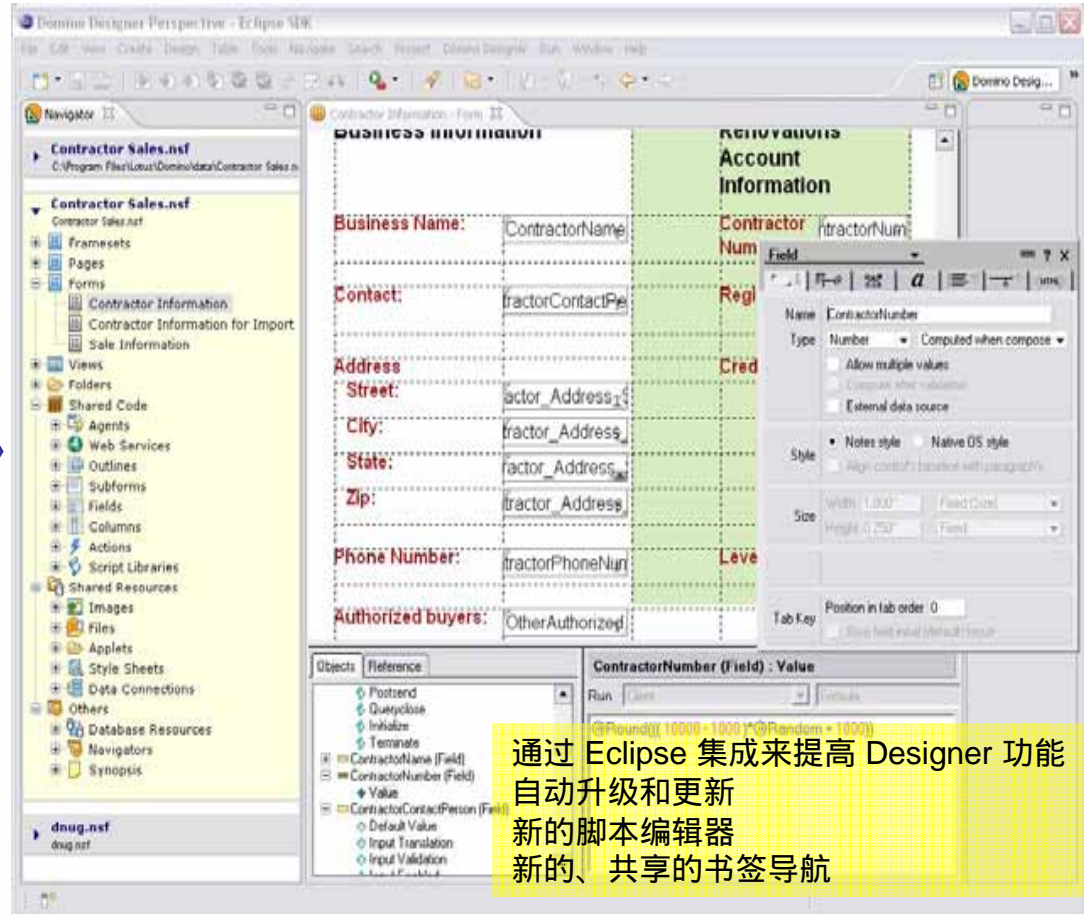
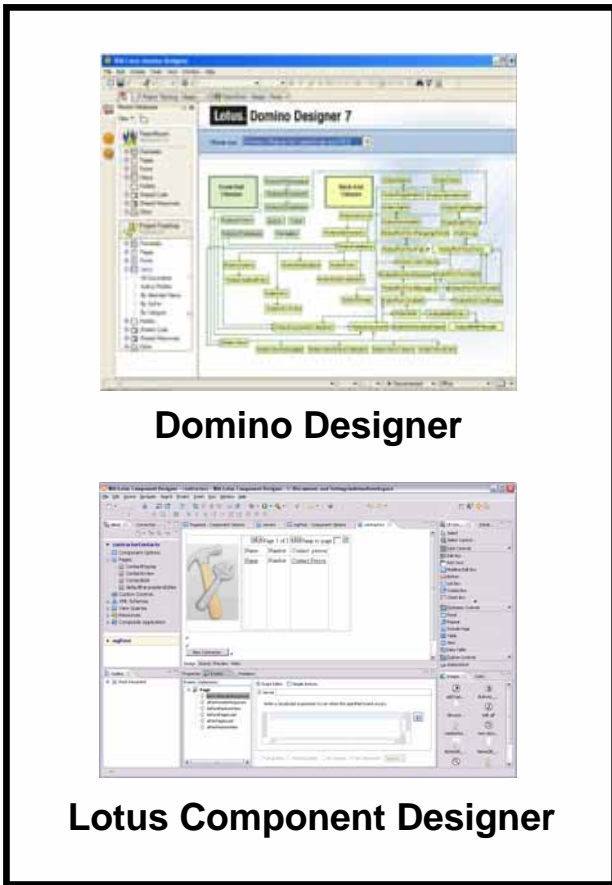
Component Designer 计划

- Lotus Component Designer 6.0 – 现在已经推出（1月23日）
 - 支持 Portal 6.0、Portal Express 6.0
 - 可扩展的控制集，包括内置 Ajax 控制
 - 与外部数据源和 Web 服务集成
 - 试用版可以从 <http://www.ibm.com/software> 网站下载
→ “试用版和 Beta 版” → 查找 “Component Designer”
 - 示例和演示可以从 developerWorks 网站下载：
<http://www.ibm.com/developerworks/lotus>
- Component Designer 6.0.1 – 今年夏季推出
 - 支持 Notes 8 平台、Expeditor、Sametime
 - 创建本地 Eclipse 组件和门户组件
 - 与 Domino Designer 8 一同推出
 - 支持离线数据和数据同步



Designer 未来发展趋势

“Domino 设计套件”

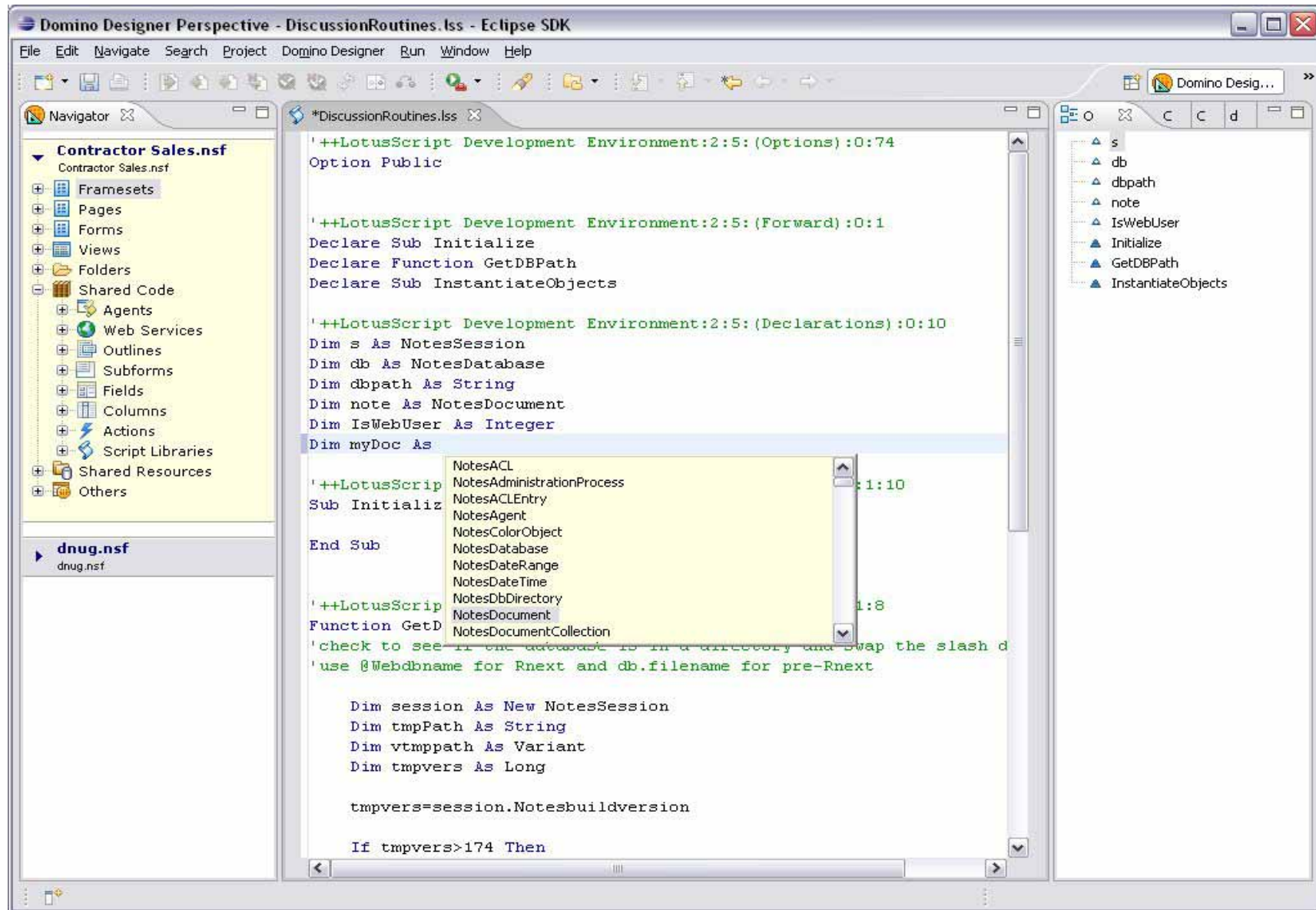


为 Notes 8 平台开发稳定、安全的复合应用的工具

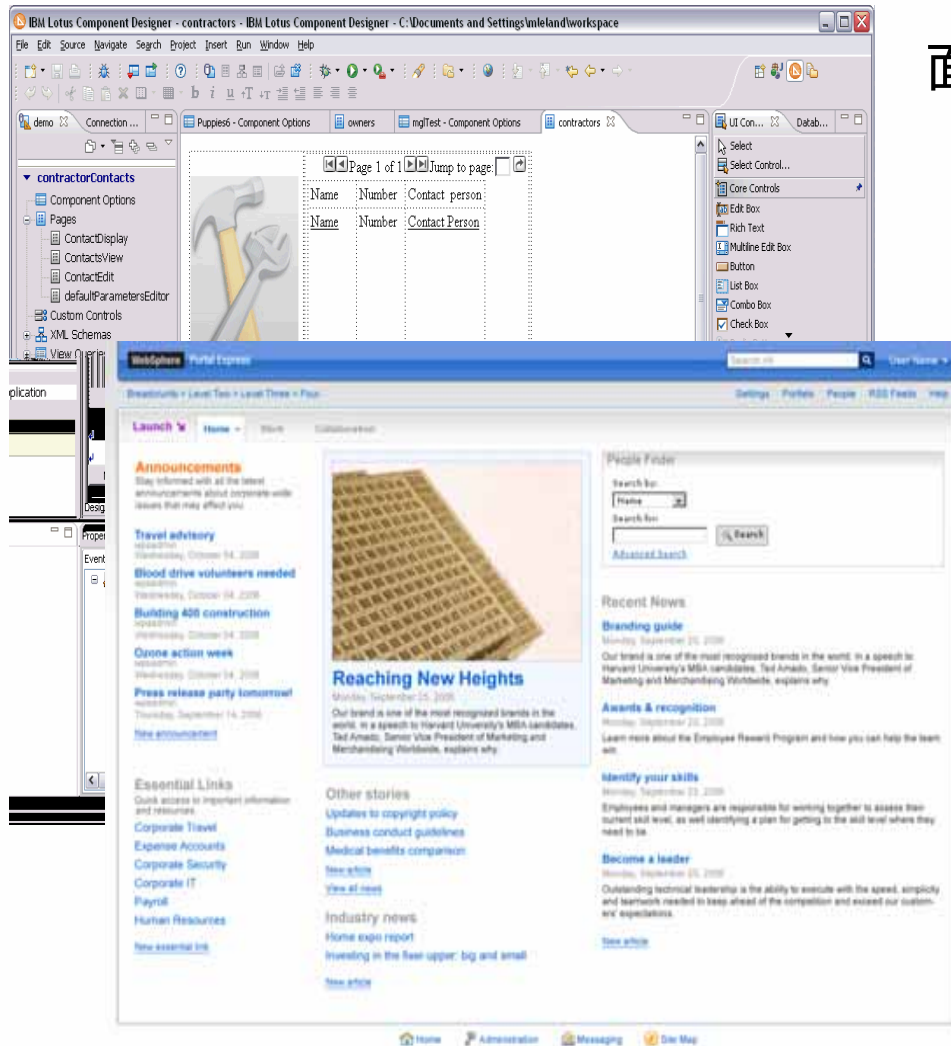
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Designer 未来发展趋势



Portal Express 和 Component Designer



面向中等市场的协同门户捆绑产品

- 不到1个小时就可安装和运行
- 包括 LDAP Server 和 DB2 Express 在内的完整门户系统
- 基于 WebSphere Portal 6
- 包括 Component Designer
- 支持高级复合应用概念
 - 支持门户入口间的通信
 - 应用模板参数



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WebSphere Portal 6.0 的新功能

- 全新的动态 HTML UI
- Portal 复合应用
- Workflow Builder

The screenshot displays the IBM WebSphere Portal 6.0 interface within a Microsoft Internet Explorer browser window. The main content area shows the 'Application Template Library' with a notification that a new template named 'Test' has been created. A table lists the templates, and the 'Test' template is highlighted. A context menu is open over the 'Test' template, showing various management options. The right sidebar features 'Product Links' and 'Other Links' sections, along with a search bar and navigation elements.

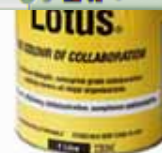
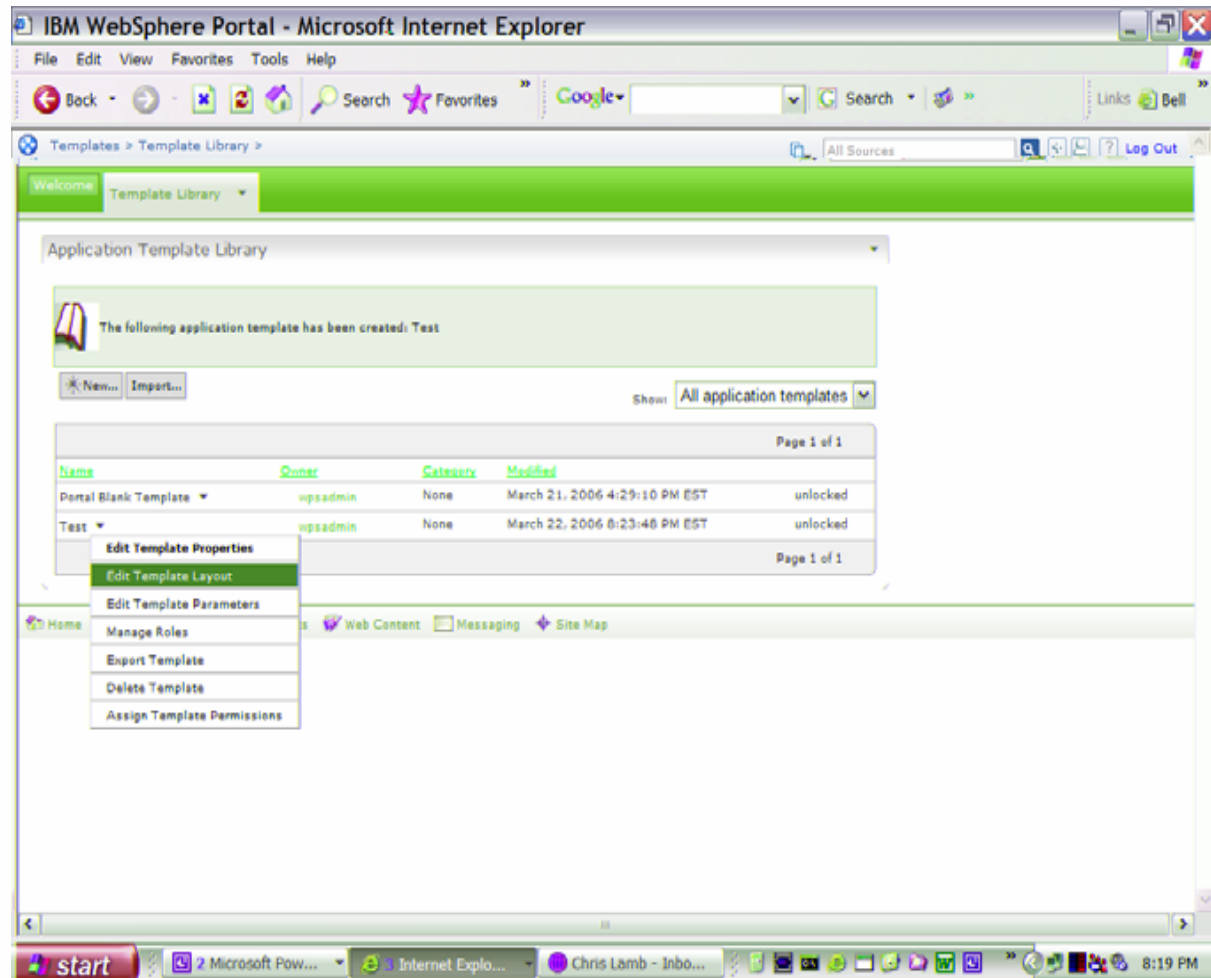
| Name | Owner | Category | Modified | Locked |
|-----------------------|----------|----------|-------------------------------|----------|
| Portal Blank Template | wpsadmin | None | March 21, 2006 4:29:10 PM EST | unlocked |
| Test | wpsadmin | None | March 22, 2006 8:23:48 PM EST | unlocked |

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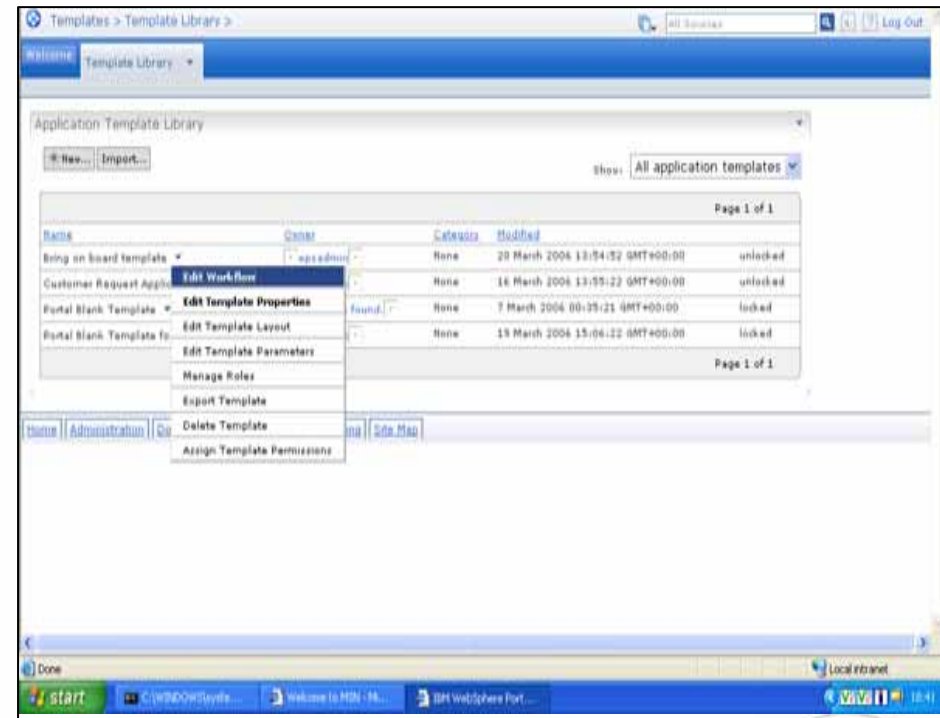
门户应用模板

- 轻松创建新的复合应用
- 将它们部署至不同的社区，使之具有不同的：
 - 外观和感觉
 - 成员和角色
 - 其它参数
- 应用属主随后可以对它们进行更改，以满足新的要求



通过 Workflow Builder 实现 部门任务自动化

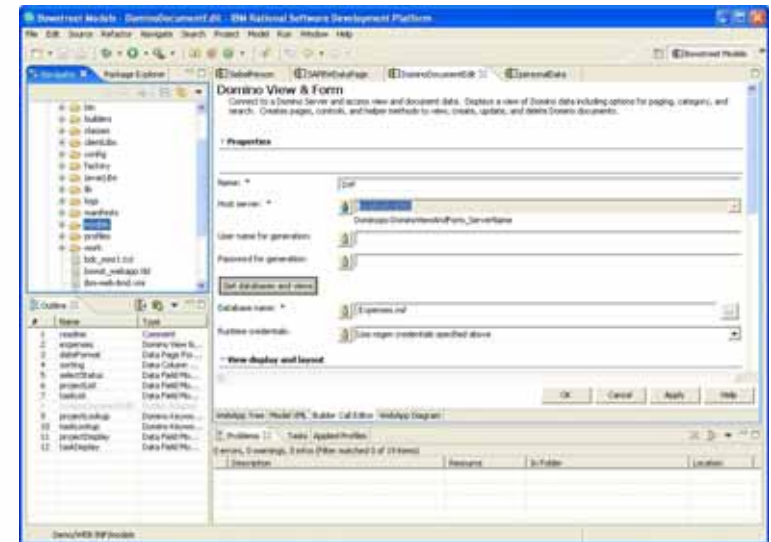
- 通过 Business User 工具来简化工作流程
 - 目前有许多流程通过 email 处理
 - 对最佳实践或不频繁发生的任务实现自动化
 - 例如：新员工进入董事会
- 工作流程定义
 - 角色
 - 任务
 - 行动
- Workflow Binder 包括与指定工作流程相关的所有文档
- 利用 BPEL 引擎
- 集成至 Portal Composite Application 模板
- 商业价值
 - 减少错误
 - 持续改善决策



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简化/加速 Portlet 的开发、部署和维护

- 面向 WebSphere Portal 的 Portlet 创建环境
 - 对 Eclipse 或 Rational Application Developer 进行扩展
- 对现有应用、数据、其它 IT 资产作为定制 Portlet 轻松整合
- 为下列内容提供预置的集成：
 - Lotus Notes 和 Domino
 - SAP、PeopleSoft、Siebel
 - 数据库和 Web 服务
- 极大地降低 J2EE portlet 开发的复杂性
 - 快速重复和和改变
 - 代码自动化



“我们选择 WebSphere Portlet Factory 作为快速部署具有高度影响的业务应用的灵活载体...”

**Steve Sacho , Pfizer Global Manufacturing 公司网络和
应用开发经理**



Portlet Factory: 主要概念

Builder

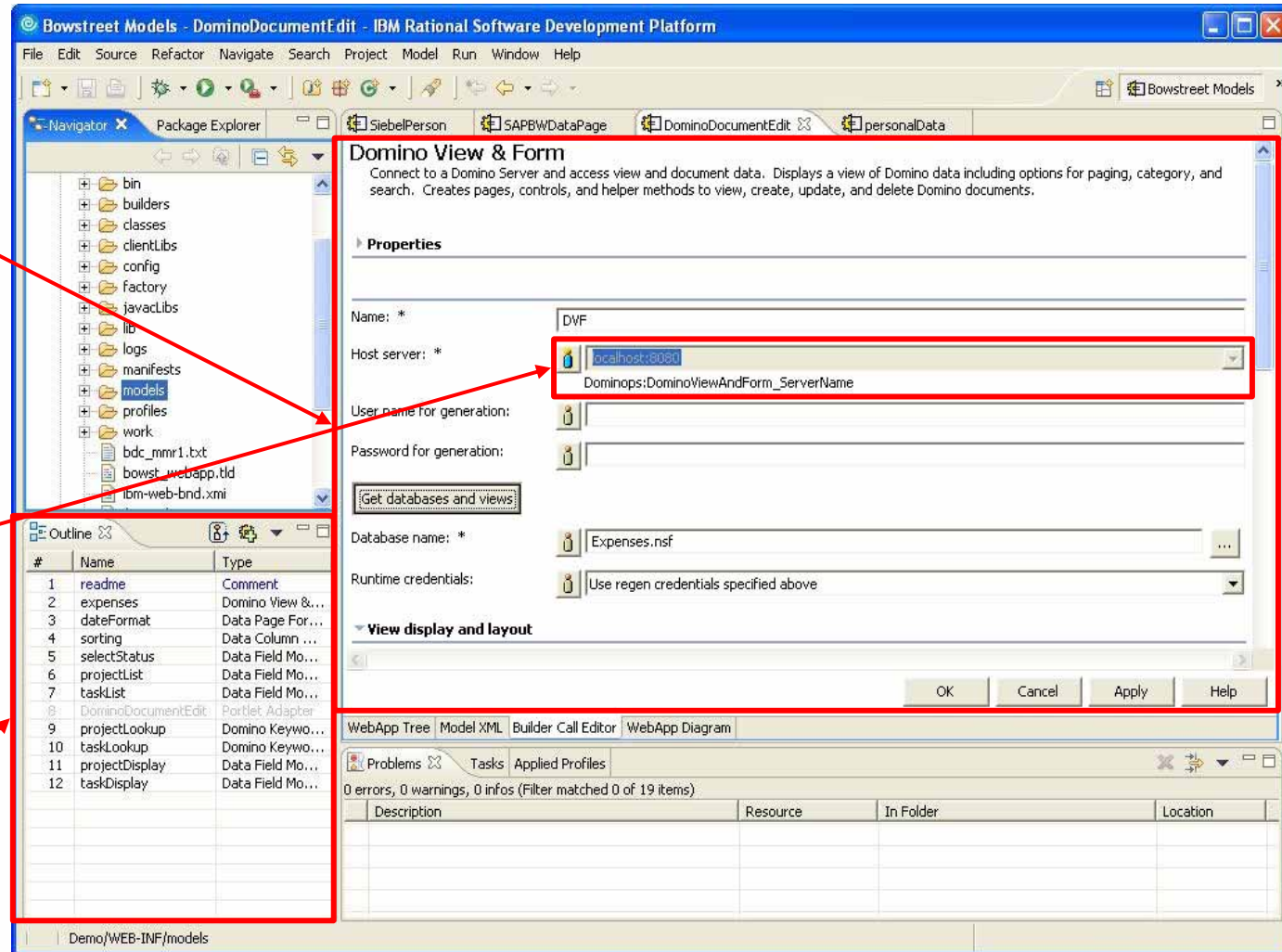
一个自适应、可重复使用的“向导”，为特殊的 portlet 功能生成 Java、XML 和 JSP

Profile

一套对 Builder 输入信息进行改变以便动态生成唯一 portlet 版本的参数

Model

Builders 容器



各种技术水平的开发人员都可以在不需要编写代码的情况下快速创建多页面的复杂 portlet。

The screenshot shows the 'Expenses' configuration window in Domino. The window title is 'Expenses X' and the main title is 'Domino View & Form'. Below the title is a description: 'Connect to a Domino Server and access view and document data. Displays a view of Domino data including options for paging, category, and search. Creates pages, controls, and helper methods to view, create, update, and delete Domino documents.'

The 'Properties' section contains the following fields:

- Name: Expenses
- Host server: * domino1.bowstreet.com:8080
- User name for generation:
- Password for generation:
- Get databases and views (button)
- Database name: * Expenses.nsf
- Runtime credentials: Use regen credentials specified above

The 'View display and layout' section contains the following fields:

- View name: * Expense Reports\By Date
- Rows to include: Document rows only
- Main view page: * /factory/pages/domino_portlet.html

At the bottom of the window are 'OK', 'Cancel', and 'Apply' buttons.

一个向导驱动的组件生成多页面 portlet



多页面、无需编码的复杂 Portlet

各种技术水平的开发人员都可以在不需要编写代码的情况下快速创建多页面的复杂 portlet。

...通过结果页面，
可以深挖至细节信息 ...

... 并且能够创建新的
记录 ...

expenses

Create new...

| Date | Submitter | Approver | Status | Total |
|----------------------------|---------------|-------------|-----------|--------|
| 09/08/2004 | Edgar Meyer | Edgar Meyer | Submitted | 188.5 |
| 09/08/2004 | Edgar Meyer | Bela Fleck | Submitted | 2250 |
| 09/08/2004 | Edgar Meyer | Bela Fleck | Submitted | 120 |
| 09/08/2004 | Jerry Douglas | Bela Fleck | Submitted | 222.38 |
| 09/08/2004 | Jerry Douglas | Bela Fleck | Submitted | 562.35 |

1 - 5 of 13



多页面、无需编码的复杂 Portlet

各种技术水平的开发人员都可以在不需要编写代码的情况下快速创建多页面的复杂 portlet。



Expenses

Expense Report 64MPWP for Jerry Douglas (Submitted)

Submitter: Jerry Douglas/Users/Wilmachek **Report ID:** 64MPWP

Approver: Bela Fleck/Users/Wilmachek **Status:** Submitted

Project: Live Art **Task:** Tour

Created: 09/08/2004 **Modified:** 01/24/2005

Description: Sitting in on stage

| Date | Category | Comment | Billable | Amount |
|------------|-----------------------|------------------------|----------|--------|
| 05/23/1995 | Other/Other | Instrument maintenance | | 222.9 |
| 05/02/1995 | Airfare/Employee Paid | Airfare to Denver | | 339.45 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Back to View Delete Edit

...内置的编辑、删除支持功能...



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各种技术水平的开发人员都可以在不需要编写代码的情况下快速创建多页面的复杂 portlet。

| Date | Category | Comment | Billable | Amount |
|---------------|-----------------------|------------------------|----------|---------------|
| 05/23/1995 | Other/Other | Instrument maintenance | | 250 |
| 05/02/1995 | Airfare/Employee Paid | Airfare to Denver | | 339.45 |
| Total: | | | | 589.45 |

这一切无需编写任何
Java 代码！



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Dashboard Framework

Dashboard Framework 是一组灵活而功能强大的可重复使用资产、管理工具和特殊指示板功能，能够加快定制指示板的创建速度

可重复使用的组件

商业用户配置

高度友好的图表

集中管理控制台

报警模块

| Priority | Status | Alert |
|------------------------------|--------|--|
| Accounts (View All) | | |
| Urgent | Read | AMTEC POC stage 1 has completed |
| Urgent | New | AMTEC SOW due in 3 days |
| High | New | AMTEC customer support request resolved |
| Sales (View All) | | |
| Urgent | New | Deal Closed - MeqaCorp! |
| Urgent | New | Acme opportunity regressed to stage 4 |
| High | New | Globe travel - New opportunity > 1,000,000 |
| Financials (View All) | | |
| High | New | Dollar down compared to Euro |
| High | New | YTD ROE on track |
| High | New | YTD Operating Profit is at least 2% above target |

灵活的过滤



自由变化，没有限制 - 不会带来任何维护成本

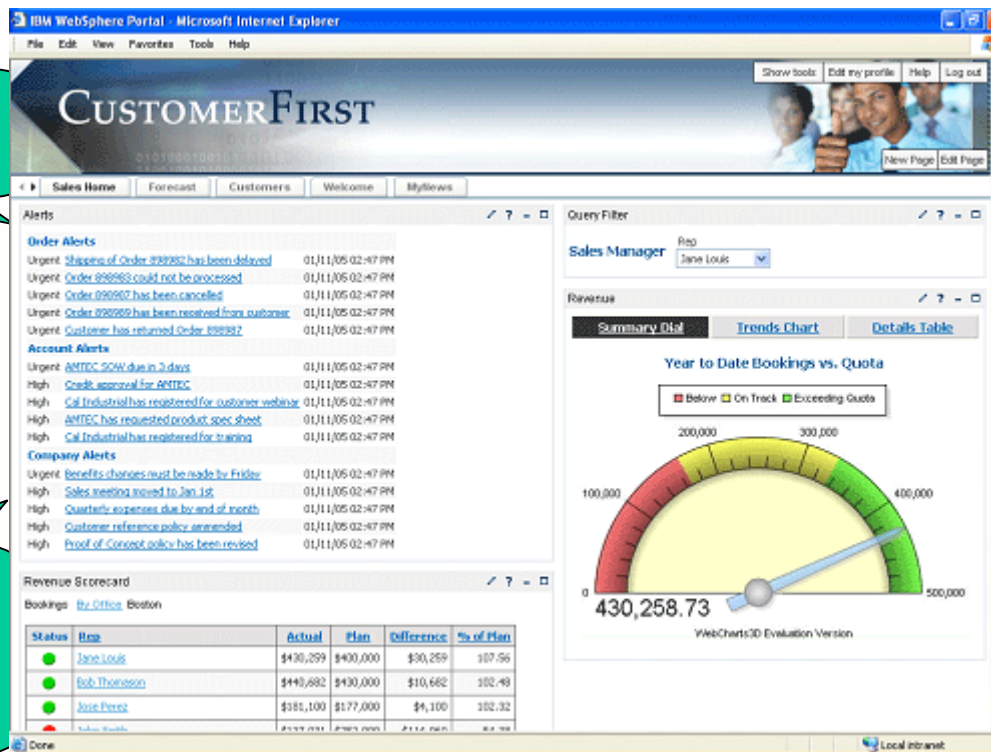
通过 Portlet Factory 的自动化和预设功能创建高度客户化的门户。根据用户的角色和个人偏好，门户可以通过对现有 Portlet 模型的重复利用，根据它们的结构、表达式、流和访问权限进行调整，无需额外编码。

个人化的报警

销售管理



记分卡只显示地区信息



数据过滤器改编扩展的方法变化

根据角色、合作伙伴类型、地区、语言、品牌等信息，通过选择不同的预设数据，

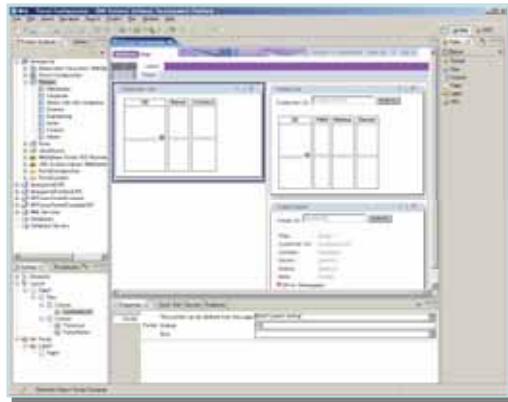
通过定制的图形来显示所选地区的销售收入



Lotus.

Rational Application Developer 7.0

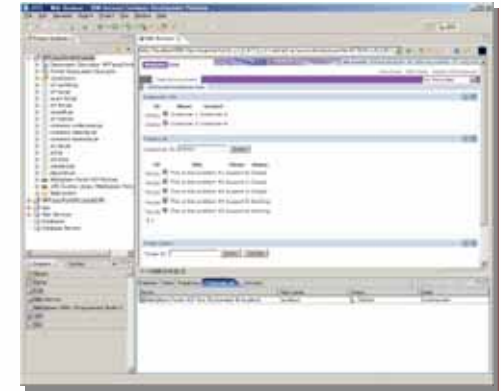
- 面向 Java 专业人士的集成门户开发环境



创建

测试与调试

WebSphere
Portal



Portlet 和 Portal 现场开发

- ✓ Visual Editors for JSF, Struts
- ✓ Portlet Wizards
- ✓ Enterprise Application Integration
- ✓ Portal page Layout
- ✓ Theme and Skin Editors

Integrated
Portal Test Environment
for WP 5.1 and 6.0

导入与部署



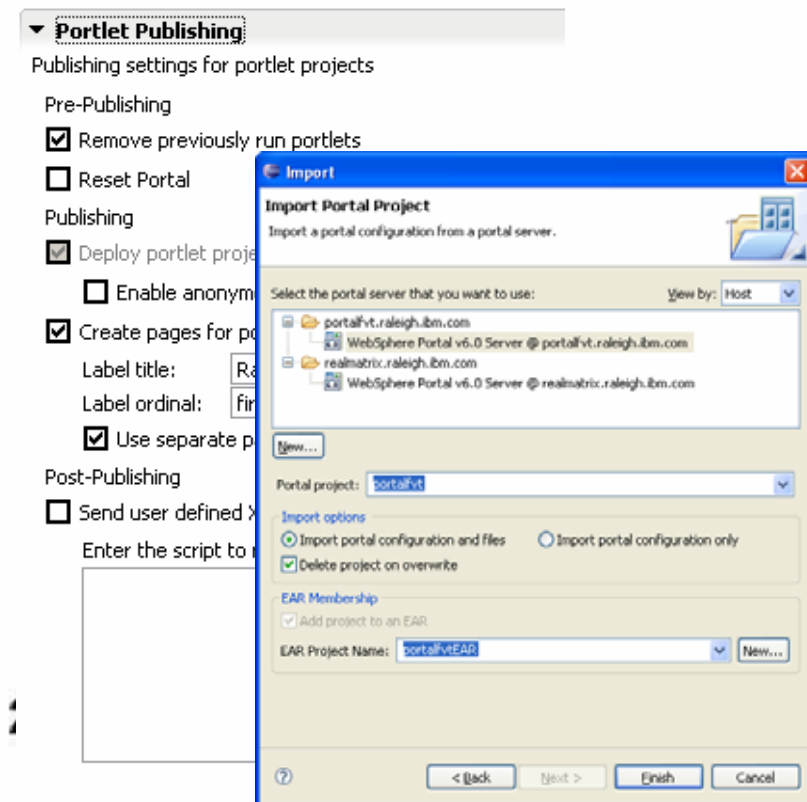
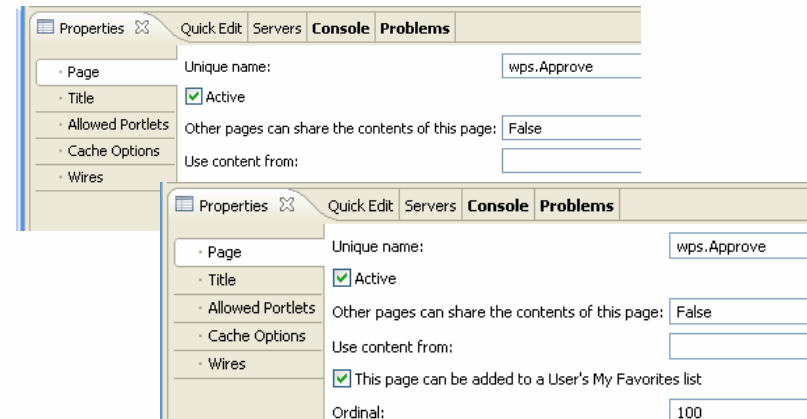
Portal Import & Deploy Wizard

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RAD 7.0 Portal 开发的新特色

- Portal 开发
 - WSRP 使用
 - 业务流程任务页面定义
 - 门户项目团队开发支持
- Portlet 开发
 - 在工作空间内自动部署相关
 - EJBs、Web 服务、数据源、J2C 适配器
 - 自动登录至 “myportal” (WP 5.1) 或 “Home” (WP 6.0)
 - 可配置的发布
 - 创建定制页面
 - 运行用户定义的后发布 XML Access 脚本

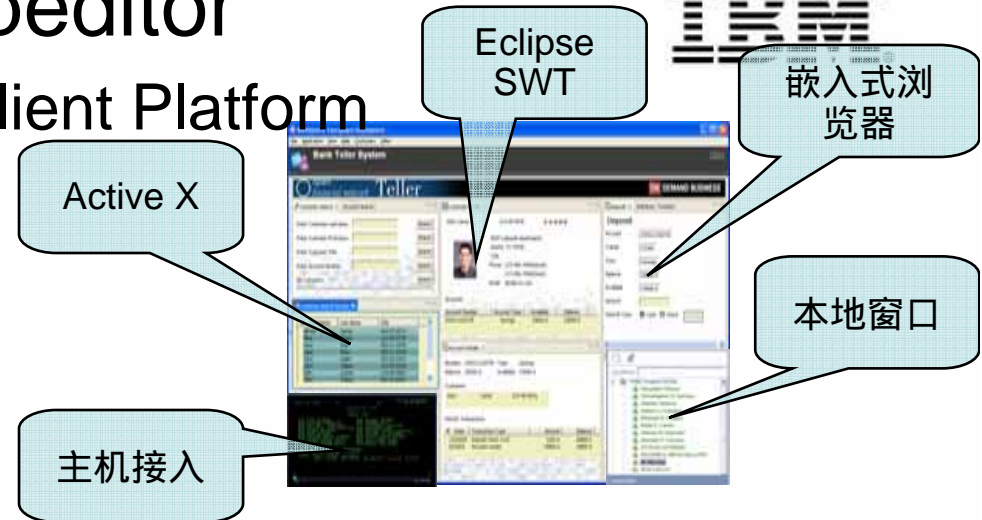


Lotus.

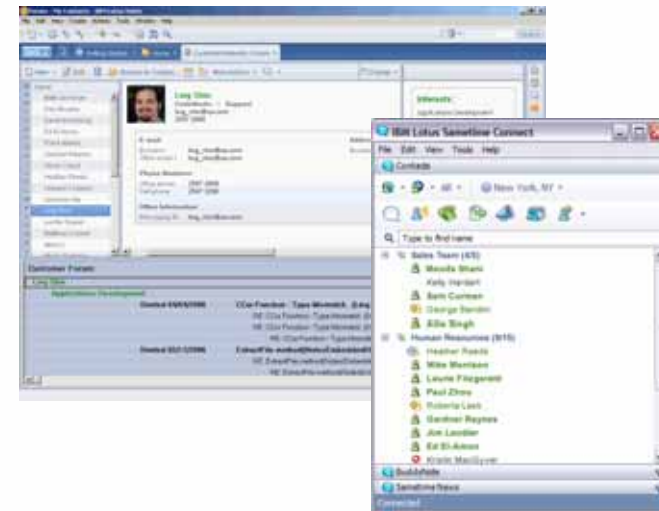
Lotus Expeditor

SOA Managed Client Platform

IBM



- 复合应用
 - 在客户端桌面上对应用进行集成
 - Java, Rich Client, Flash, Forms, Web
- 半连接应用
 - 在带宽不可靠/比较昂贵/不可用的地方使用
 - Off-line Portal, Forms 和 WebSphere 应用模型
- 灵活的用户接口
- Server Managed Client Software
- Notes 8、Sametime 客户端平台



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Portal, Forms, Sametime, Notes 8, WebSphere 客户端平台

WebSphere 门户

内容和应用的单一访问点

- 离线/移动使用的本地 Portlet
- 功能强大/快速响应的本地 UI/复合桌面应用

IBM Workplace Forms

通过基于表格的计算来加速业务

- 表格集成至复合桌面中
 - 离线表格存取
- 面向移动办公人员的电子表格解决方案

Lotus Sametime

实时业务平台

- 将 SOA 链接至 Sametime
 - Sametime / Offline
- 在复合应用中进行管理

Notes 8

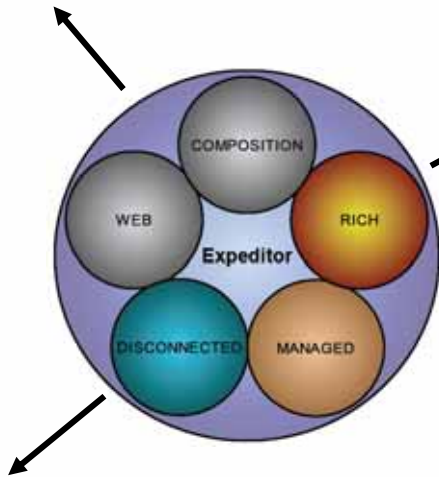
将协同提升至一个新的高度

- 复合桌面应用
 - 将人与流程联系起来
- 将 SOA 扩展至 Notes

WebSphere Application Server

按需应变业务软件

- 将应用扩展至数据中心之外
 - 对称编程模型
- 实现 .NET 的开放方案



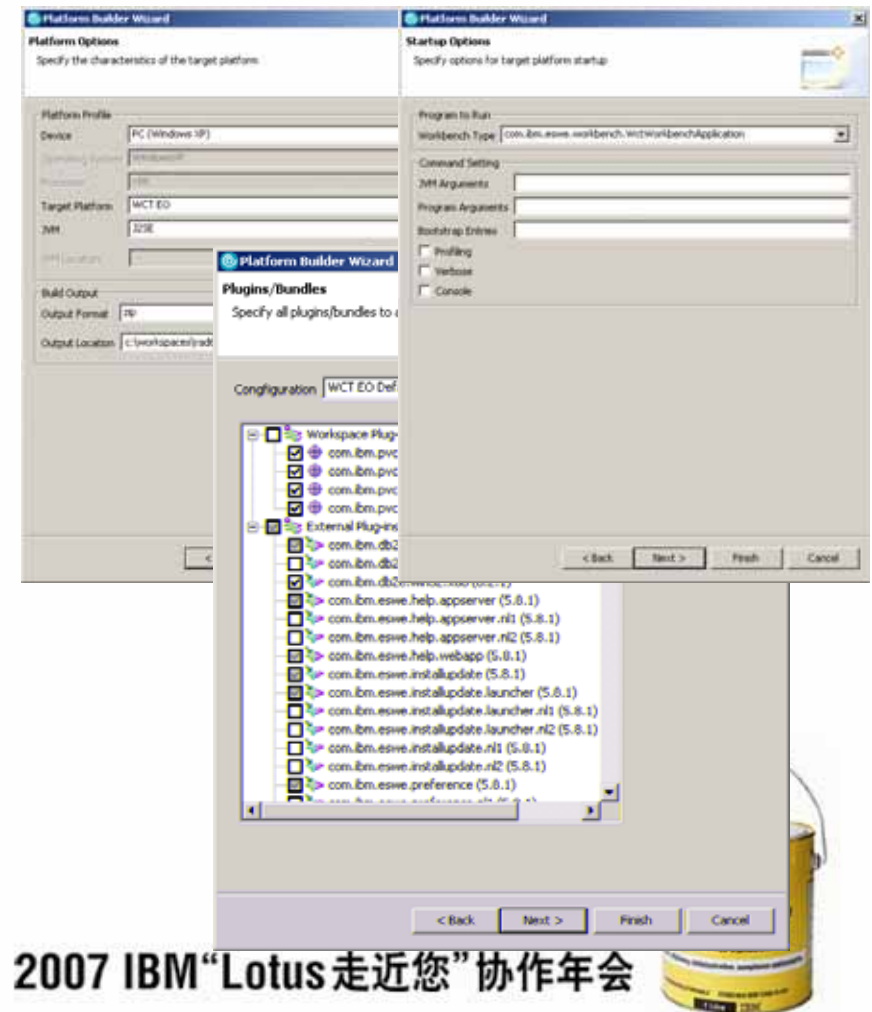
在 Sametime 和 Notes 中
Expeditor 在底层工作

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Eclipse 用于建立、测试、部署 Expeditor 应用的插件工具

- 针对 Java, Eclipse 开发
 - 将 I/T 应用扩展至桌面
 - 经过修改, 用于离线/本地应用
 - 集成本地应用
- 支持平台 API
 - SWT, JSP, Portlets, OSGi 等
- 桌面定制
 - 实现对最终用户透明
 - 对桌面资源/控件进行控制
- Platform Builder
 - 创建适合特定目的的运行时程序
 - 最小化脚印



- Lotus 软件新应用开发网站：
 - <http://www.ibm.com/lotus/appdev>
- 客户教育资源
 - <http://www-142.ibm.com/software/sw-lotus/services/cweeducation.nsf/wdocs/educationhomepage>
 - 教育产品、教育中心、最新产品、新闻信息
 - 提升您技术和价值的最新信息
- 全球合作伙伴虚拟创新中心（VIC）
 - <http://www.ibm.com/isv/welcome/vic.html>
 - VIC 能够让合作伙伴对产品支持和教育进行定制访问：
 - 24/7 访问 IBM 技术方案
 - 通过8种语言实现1对1项目开发开发与结构咨询指导
 - 通过 IBM 创新中心实现互动的在线课程以及虚拟和现实的专题讨论会
 - 在线技术支持，虚拟指导以及在线接口实现和迁移服务
- 复合应用 Blog
 - <http://www.ibm.com/developerworks/blogs/page/CompApps>



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