

Lotus knows.

Smarter software for a Smarter Planet.

It's all about Widgets – Domino Designer and Portlet Factory to Mashups and Portal

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Agenda

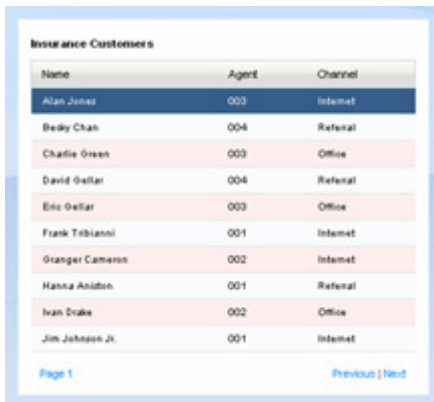
- Overview (5 mins)
- Lotus Domino Designer in Mashups Demo – Chris (15 mins)
- WebSphere Portlet Factory in Portal Demo – Phil (15 mins)
- Mobile Portal Accelerator Demo (10 mins)

Unleashing Your Siloed Enterprise Data

- Domino
 - A fantastic rapid application development environment
 - Traditionally very specific applications found everywhere in the organisation
 - Often used in conjunction with other data sources (spreadsheets, relational databases, etc.)
 - Xpages has revolutionised the way in which Domino functionality can be delivered to the web
- Mashups
 - Prove the concept - quickly deliver aggregated dashboards
 - Turn data into interactive contextual information
 - A low cost proving ground for new business insights
 - Easily identify most popular mashups and feeds
- Portal
 - Promote the good mashups to be Portal managed
 - Extend the user experience to incorporate personalisation and role based security
 - Integrate widgets and mashups with Enterprise App
- iWidget – a reusable client side component that can be deployed in Web applications.
- Portlet – a reusable user interface component managed by a Java Web Portal

What is a Widget ?

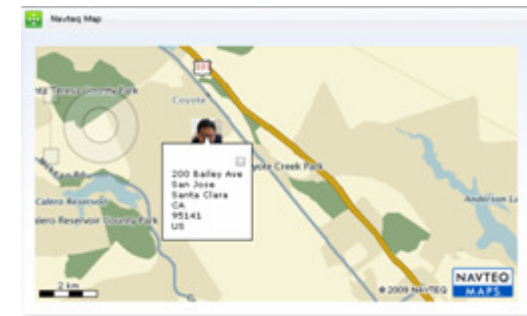
- A widget is a small application or piece of dynamic content that can be easily placed into a web page
- Widgets are called different names by different vendors: gadgets, blocks, flakes
- Widgets can be written in any language or and can be simply HTML
- “Mashable” widgets pass events, so that they can be wired together to create something new



Insurance Customers

Name	Agent	Channel
Alan Jones	003	Internet
Bedy Chan	004	Referral
Charlie Green	003	Office
David Gallar	004	Referral
Eric Oellar	003	Office
Frank Toblanni	001	Internet
Granger Cameron	002	Internet
Hanna Ahlsten	001	Referral
Ivan Drake	002	Office
Jim Johnson Jr.	001	Internet

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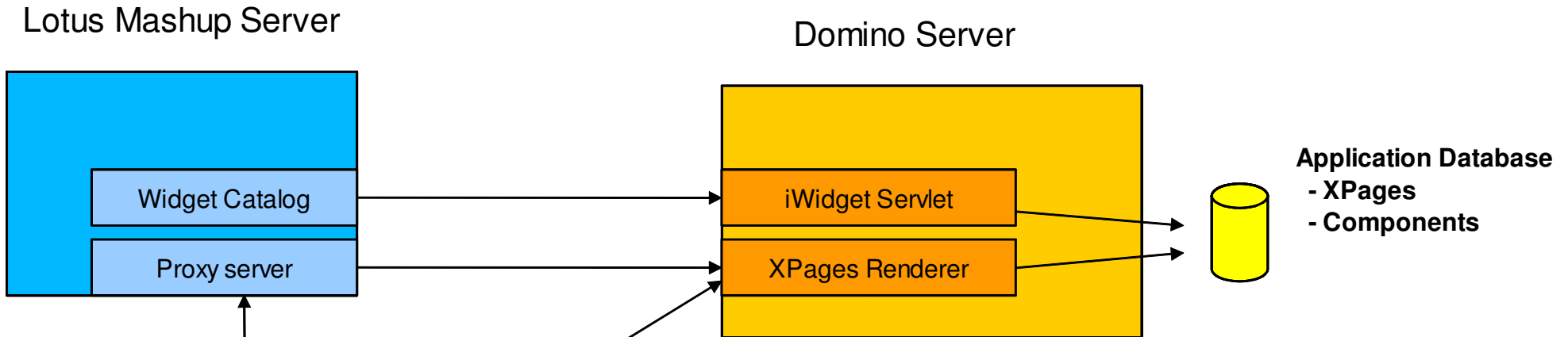
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Domino iWidget

- Being able to run any XPage as an iWidget
 - A developer just needs to register the XPage as an iWidget
 - No changes are requested to the page
 - Add some entry in the Lotus Mashup catalog
 - Share the artifacts with the Rich Client
- Incrementally add iWidget related behaviors
 - Event Publishing/Handling
 - Component parameters
 - Support for modes (view, edit, help...)
- Make the user experience easy through Domino Designer

High Level Architecture



Domino iWidget rendered in an iFrame

- Lotus Mashup and the Domino Server don't have to run on the same machine
- The Domino server serves the iWidget definitions and the XPages markup
 - The iWidget servlet composes the widget.xml "on the fly"
 - XPages content is served by the regular XPages runtime
- The Lotus Mashup proxy server is used whenever necessary
 - Uses HTML 5 extensions when available (FF3, IE8...), else uses the proxy

Domino Designer / Mashups - Demo

The screenshot displays the Lotus Mashups interface. At the top, there is a navigation bar with 'Lotus. Mashups' on the left, 'Welcome Page' in the center, and 'Mashups Admin | Help | Logout' on the right. Below the navigation bar, there is a 'Welcome Page' header with a 'Goto Edit' button and a 'Search All' search box. The main content area features a 'Domino Contacts' widget. This widget contains a table with the following data:

First name	Last name	E mail	City
<input type="checkbox"/> Patsy	Pined	pateng@ibm.com	Westford
<input type="checkbox"/> David	Talib	david_talib@oulum.com	Westford
<input type="checkbox"/> Maria	Donnelly	maria_donnelly@ibm.com	Dublin
<input type="checkbox"/> Michael	Lotard	michael@ibm.com	Westford

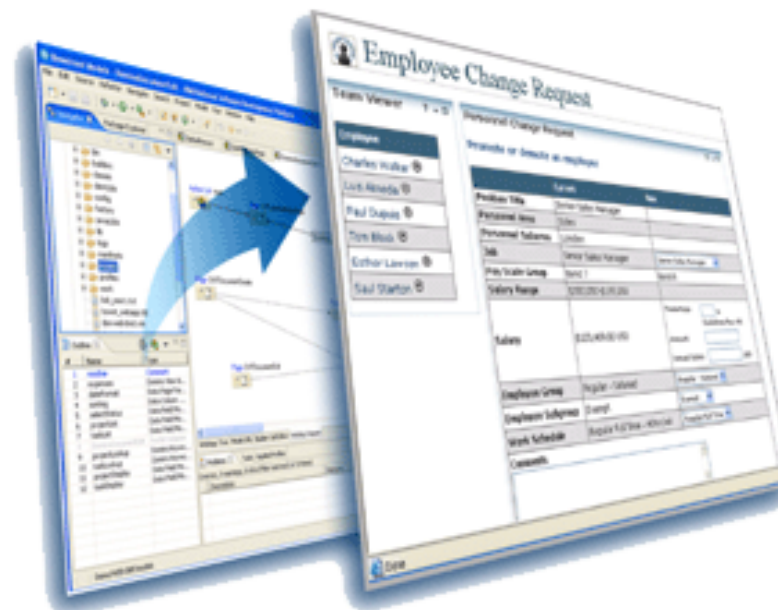
Below the table, there are two buttons: 'New Contact' and 'Delete Selected'. The widget also includes a pagination control at the top: 'Previous | 1 | 2 | 3 | 4 | 5 | Next'.

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WebSphere Portlet Factory – Mashup Center’s Widget Development tool

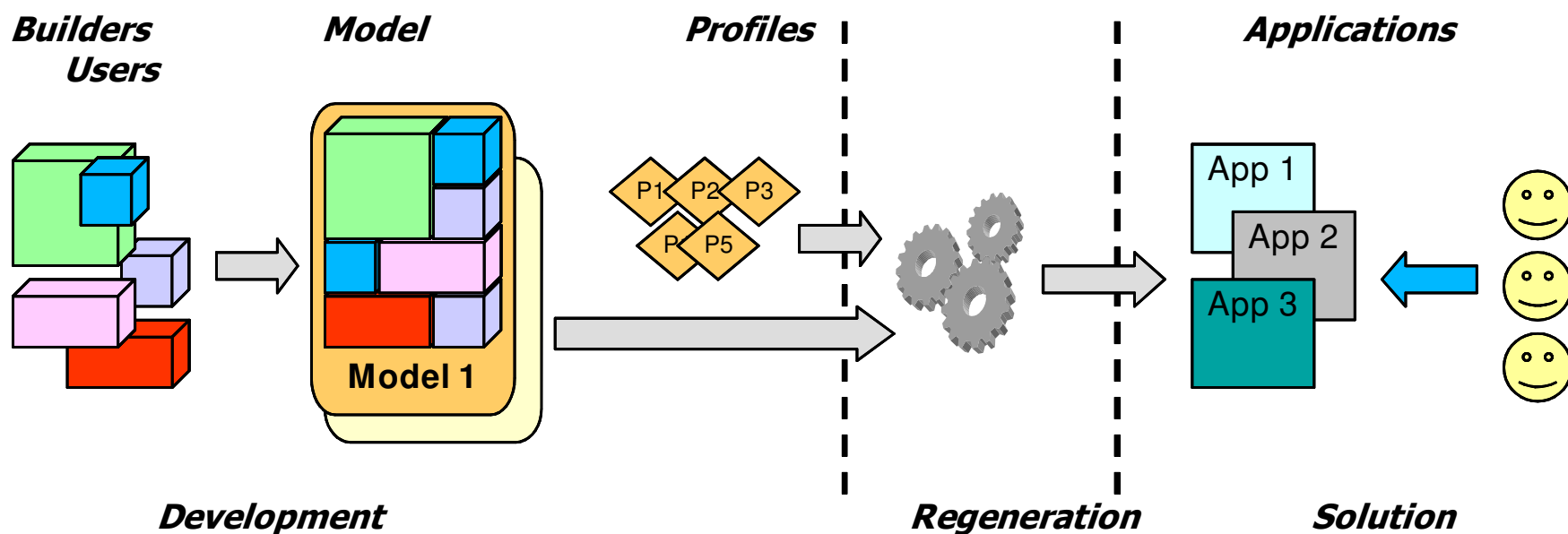
- Websphere Portlet Factory provides an easy-to-use development environment enabling developers of all skill levels to rapidly create dynamic widgets without writing code
 - Rapid development
 - Robust integration capabilities
 - Service-oriented development
 - Seamless deployment to IBM Mashup Center
 - Plug-in to Eclipse, IBM Rational tools, or WebSphere Integration Developer



Supercharge custom widget creation without writing code

WebSphere Portlet Factory

WebSphere Portlet Factory is a system for software automation

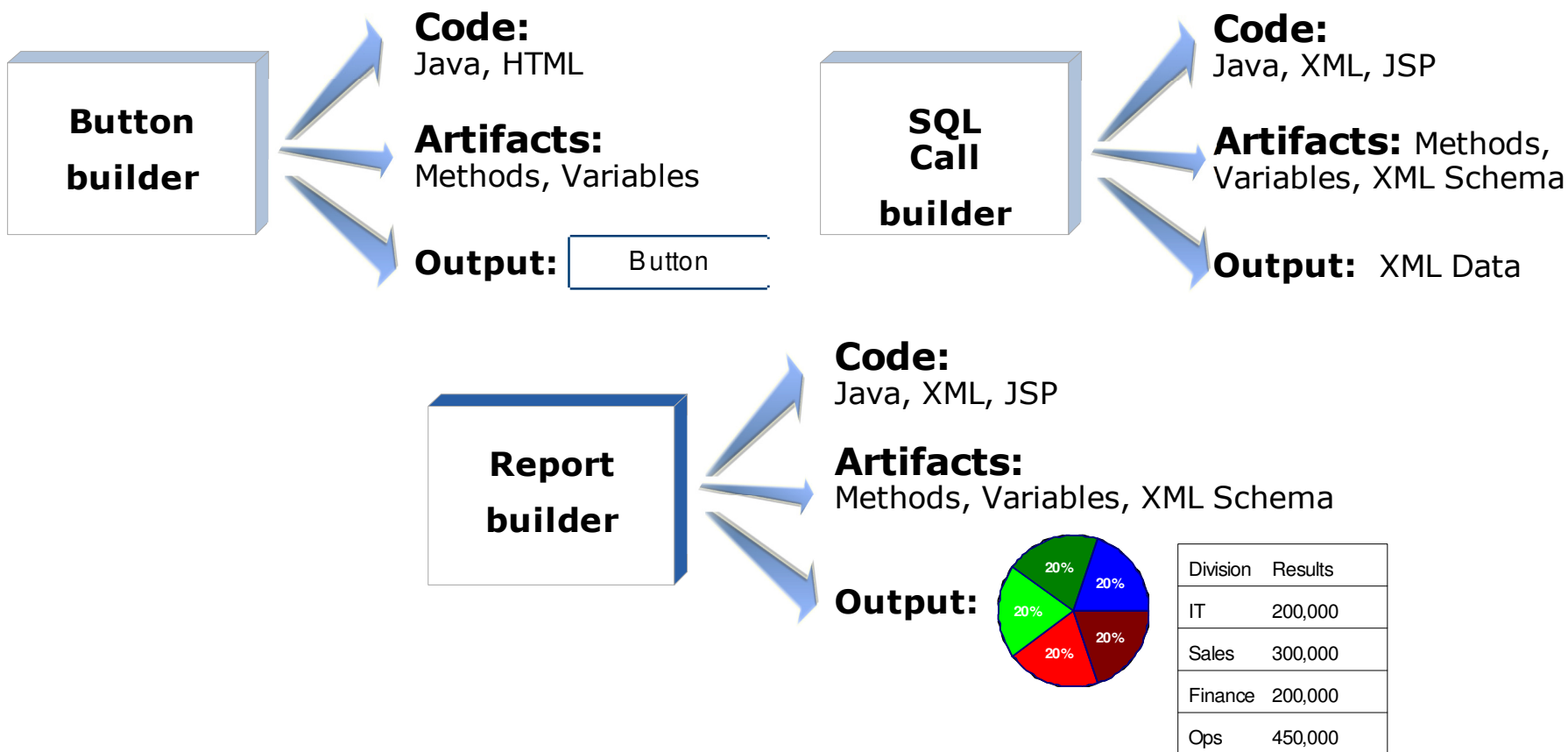


Rapid development of web and portal applications & dashboards

WebSphere Portlet Factory Key Concepts

Builder

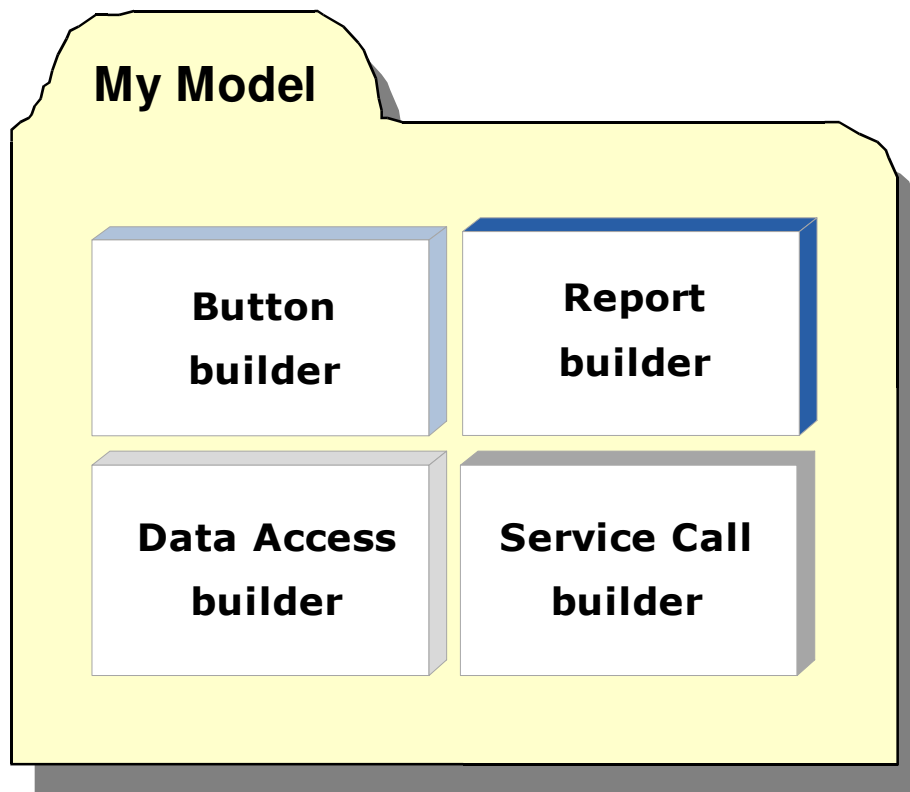
An adaptive, reusable component that generates Java, XML and JSP code for specific application functionality.



Key Concepts (cont.)

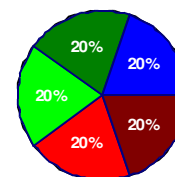
Model

A container of builder calls.



My Application

My Sales Report



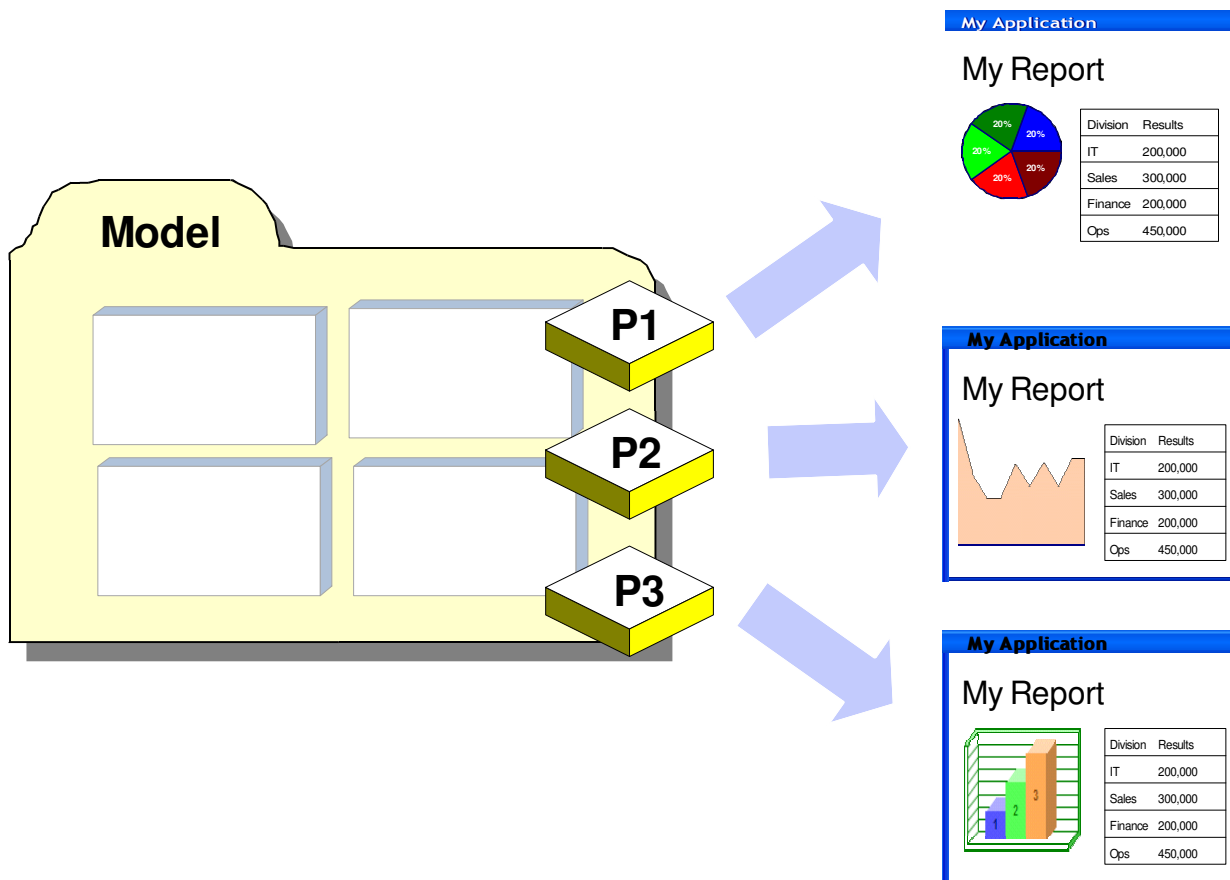
Division	Results
IT	200,000
Sales	300,000
Finance	200,000
Ops	450,000

OK

Key Concepts (cont.)

Profile

A set of parameters that vary Builder inputs to dynamically generate unique versions of the application.



What is the Difference Between a Widget and a Portlet?

- In many ways portlets and widgets are similar:
 - Component models used for aggregation
 - Provide support for configuration of properties
- However, there are key differences:

	iWidget	Portlet
Aggregation:	Client-side	Server-side execution. Generated markup can be aggregated client-side.
Language:	iWidgets can be written in any language, including Java, PHP, .NET, Ruby on Rails, HTML, Javascript, etc.	Java
Standards:	None. Current proposal in OpenAjax Alliance	JSR-168 JSR-286 WSRP 1.0 & 2.0

WebSphere Portlet Factory / Portal – Demo

The screenshot displays the Lotus Symphony WebSphere Portlet Factory interface. On the left, the 'Application Tree' shows a hierarchy of pages: 'orders_ViewPage', 'orders_DetailsPage', 'orders_UpdatePage', and 'addOrder_InputPage'. The main workspace shows a 'search_section' containing a table with the following structure:

Order ID	Date Ordered	Status	Date Shipped	Quantity	Amount	Billing	Shipped
ORDER_ID	DATE_ORDERED	STATUS	DATE_SHIPPED	QUANTITY	AMOUNT	BILLING	SHIPPED

Below the table, there are labels for 'Row_buttonSpace', 'back_button', 'update_button', 'extra_button1', and 'extra_button2'. A 'Create Order' button is visible below the table. The right side of the interface features a 'Palette' with various widget categories, including 'All', 'Applet', 'Attribute Setter', 'Border', 'Breadcrumbs', 'Button', 'Calendar Picker', 'Check Box', 'Client Event Handler', 'Client JavaScript', 'Collapsible Section', 'Cooperative Portlet Source', 'Data Page', 'Dojo Animation', 'Dojo Data Grid', 'Dojo Date/Time Picker', 'Dojo Drag Source', 'Dojo Drop Down Button', 'Dojo Drop Target', 'Dojo Form Dialog', 'Dojo Page Element', 'Dojo Rich Text Editor', 'Dojo Tooltip', 'Dojo Tree', 'File Upload', 'Flash', 'Hidden Input', 'HTML', 'HTML Event Action', 'Image', 'Formatting and Vis...', 'Layout Tools', 'Navigation and Pa...', 'Page Elements', 'Portal Integration', 'Rich UI', and 'Tables and Forms'.

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WebSphere Portal Mobile Portal Accelerator

The Business Problem

My customers want full access to their services from anywhere. How do I enable that?

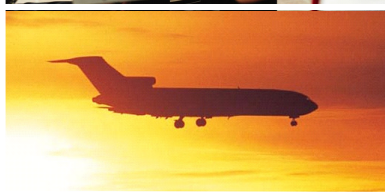
Rich client



Browser



Mobile device



Connected

Disconnected

IBM Mobile Portal Accelerator 6.1

WebSphere Portal Services

Portlets

Web Content

Web Services

REST Services

Feeds

Gadgets & Widgets

Mashups

SOA & Composite Apps

Tasks, Workflow

Documents

Syndicated Content

IBM WebSphere Portal

PCs & full
browsers

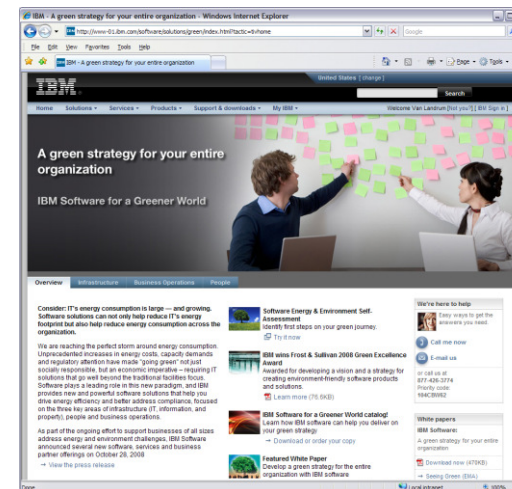
Personalization

Processes

Syndication

Mobile
Devices

IBM Mobile
Portal
Accelerator



Dynamically
Adapted &
Rendered

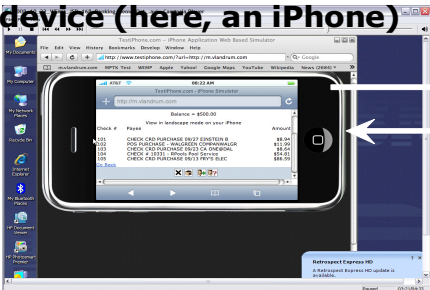


The Portal Mobile Portal Accelerator provides

1. The ability to “Write Once, Deploy Anywhere” on any mobile device, on any browser.
2. All devices (mobile or otherwise) to use the same URL
3. The best possible experience on any device
4. Supporting thousands of devices no more difficult than supporting one
5. Mobile support for all Portal specialties such as personalization, content management, security, scalability
6. Easy management of Mobile Pages from WebSphere Portal Administrator’s Portlets (no special URL for mobile required).
7. Out-of-the-box Mobile RSS Portlets

Mobile Portal Accelerator in WebSphere Portal

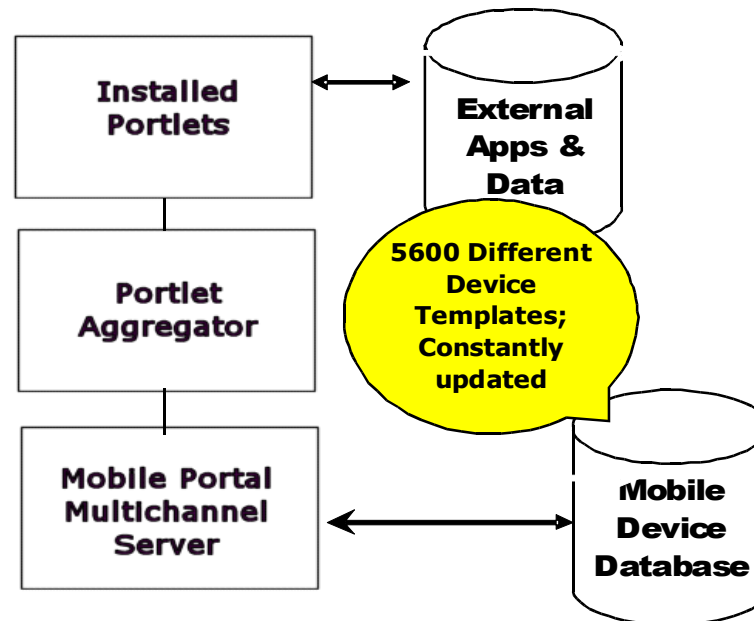
1. The user initiates request to WebSphere Portal from a mobile device (here, an iPhone)



5. The markup served to the devices is formatted for the best possible experience the device can deliver

2. Portal processes the request, sends response to the aggregator

WEBSPHERE PORTAL



4. The MultiChannel Server permits all devices to be served from the same URL, regardless of its characteristics

3. MPA Portal retrieves iPhone specific template from the Database; formats request according to that information; performs image selection and transformation as needed.

Mobile Portal Key Features

1. **CONDITIONAL RENDERING** - MPA controls what content will render, and how it will render, based on device type
2. **NAVIGATION OPTIMIZATION** - MPA will change the navigation format (links, pulldown menu, indented, breadcrumbs) based on what its template indicates will display best on that device.
3. **IMAGE CONVERSION SERVICE** - MPA will select different versions of the image, or change the size and color depth of images, based on what the calling device can render.
4. **ADMINISTRATION** of mobile functions using standard WebSphere Portal administrative interface.



Mobile Portal Demo

- Try this yourself

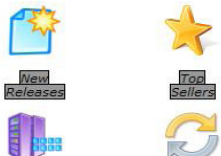
–<http://lotus2010.com>

Mobile Portal Accelerator Drives Increased Productivity

Extend/build vertical business applications for mobile environments

JukeBox Portal

CartDemo



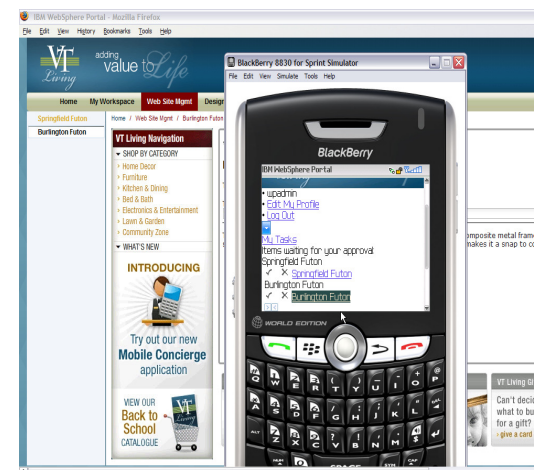
Service Delivery & Commerce



Financial Services



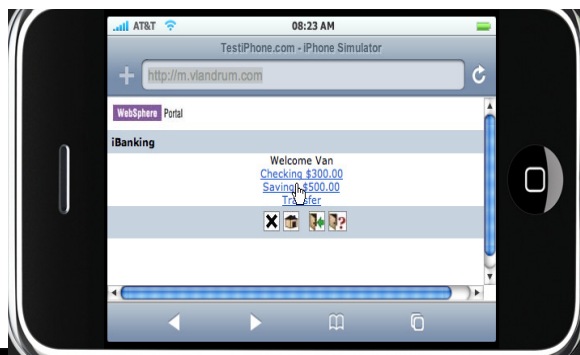
Workflow Tasks



Internal and External Web 2.0 Services



Transactions



The Problem: Reaching users on Mobile Devices can get very complex
There are thousands of makes and models of mobile devices in the marketplace



Different:

- Screen Sizes
- Browsers
- Mark-up Languages
- Keyboards
- JavaScript
- Layout
- Images
- Carriers
- Operating Systems
- Networks



Even if you only consider Smart Phones, there is a lot of diversity...



...and these are only a few of the Smart Phones

Lotus knows.

Smarter software for a Smarter Planet.

BACKUP SLIDE

IBM WebSphere Portal - Windows Internet Explorer

http://mpademo.com:10040/wps/portal/demo

File Edit View Favorites Tools Help

Google lotus Search

IBM WebSphere Portal

WebSphere Portal Home

Home demo Getting Started Web 2.0 Introduc

Conference

Walt Disney World, Orlando, Florida

Welcome to Lotusphere 2010!

This site is powered by WebSphere Portal 6.1 with Mobile Portal Accelerator 6.1. You can view this site on a mobile device browser using the same URL.

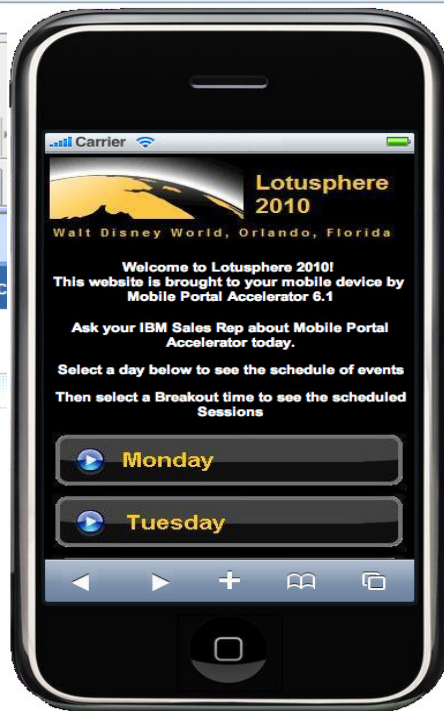
This is a Mobile Portal Accelerator demo site.

Click [here](#) for the Official Site.

Daily Schedule of Events

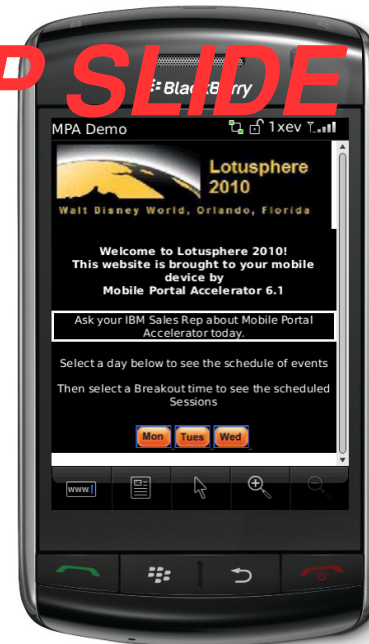
Select a day below to see the schedule of events

- Monday
- Tuesday
- Wednesday



MPA Demo

<http://lotus2010.com>



http://vlandrum.com:100

http://vlan...portal/demo

Lotusphere 2010

Walt Disney World, Orlando, Florida

Welcome to Lotusphere 2010!

This website is brought to your mobile device by Mobile Portal Accelerator 6.1

Ask your IBM Sales Rep about Mobile Portal Accelerator today.

Select a day below to see the schedule of events
Then select a Breakout time to see the scheduled Sessions

- Monday
- Tuesday
- Wednesday

What is Mobile Portal Accelerator?

- Thin Client solution
 - Delivers Web pages to the native browser on the device
 - Standard Web HTTP/s request/response technology
 - No client code to download, install or maintain
 - No data stored on device
 - Server code updates apply immediately to all users
 - No device restrictions
 - No restrictions on Carrier, Device Operating System or Network
 - Requires a device with a browser and a network/data connection

Thank You

- Chris Freestone - chris.freestone@uk.ibm.com
- Phillip De Ridder - pderidde@uk.ibm.com

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