



# Lotus Day

Warszawa, 17. września 2010

## Lotus Mashups

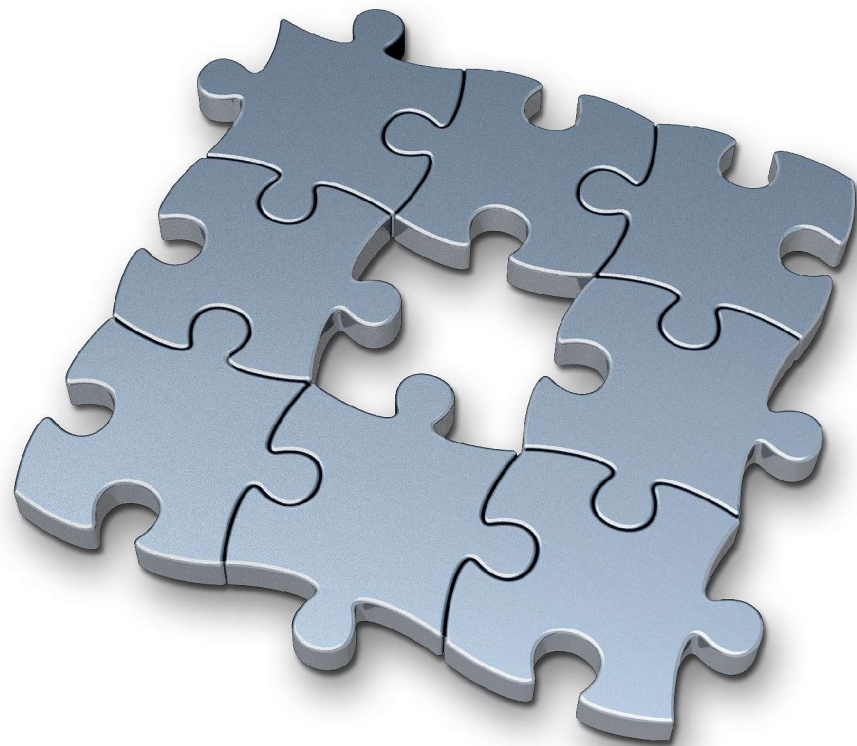
## Ludzie zawsze korzystali ze swoich doświadczeń

- To naturalne...
- „Reuse!” – podstawowe hasło w IT
  - Biblioteki
  - Komponenty
  - Procesy
  - Aplikacje...
- Wchodzimy w nową epokę



## Co to jest mashup?

- „aplikacja internetowa, która łączy dane i funkcjonalności z więcej niż jednego źródła,”
- Szybki w tworzeniu, budowany samodzielnie
- Używa istniejących zasobów, lecz tworzy nową wartość
- Nie wymaga umiejętności technicznych
- Może łączyć wewnętrzne i zewnętrzne źródła
  
- Używane komponenty – to np. widgety

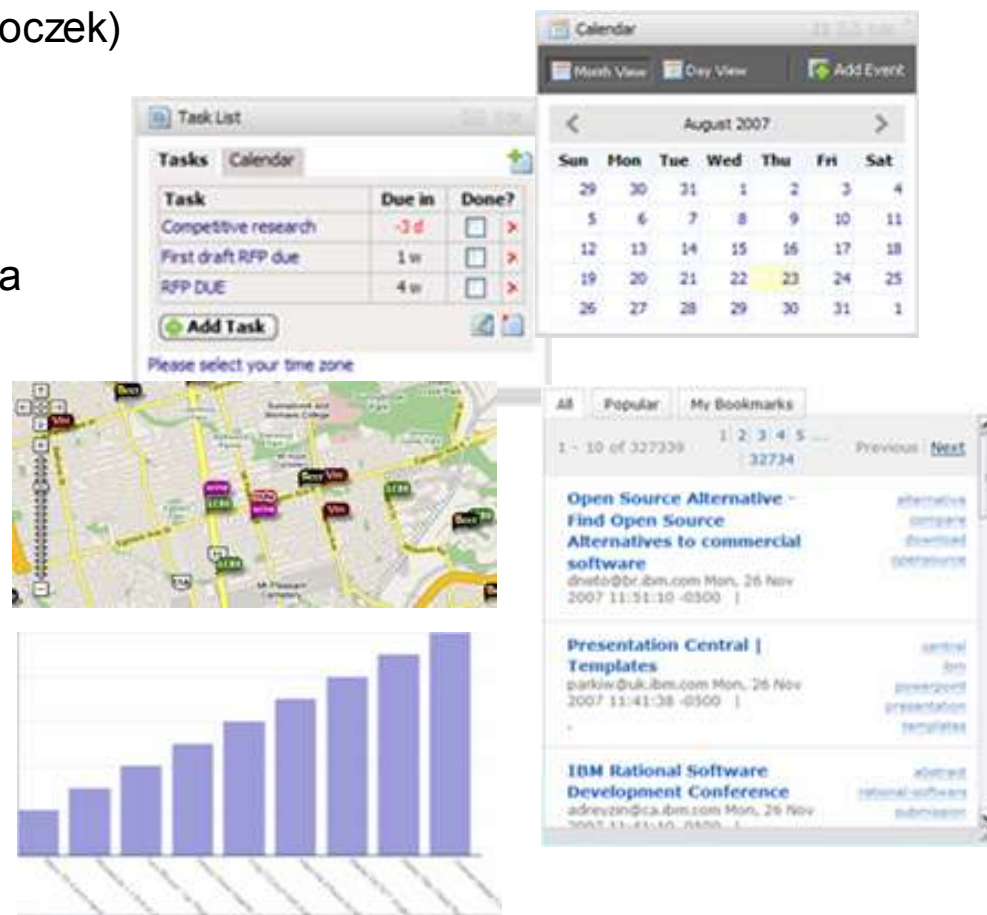


## Źródła informacji

- Skąd czerpiemy informacje?
  - Systemy korporacyjne – bazy danych, hurtownie, systemy klasy ERP, CRM
  - Wewnętrzne aplikacje – raporty, zestawienia itd.
  - Wewnętrznie używane formaty plików – np. arkusze kalkulacyjne
  - ‘Internetowe’ źródła – RSS, ATOM, strony WWW
  - Inne aplikacje

## Co to jest widget?

- Komponent wielokrotnego użycia (gadżet, bloczek)
- Mała aplikacja
- Napisany w dowolnym języku programowania
- Może być łączony z innymi widgetami



## IBM Mashup Center

- Ekosystem
- Dostępny z przeglądarki
- **Zapewnia funkcje biznesowe**
- **Kompletne środowisko do:**
  - tworzenia nowych mashupów
  - nowych stron
  - łączenia widgetów



## IBM Mashup Center

**Boeing Search Form**

Enter airport search criteria:

City: Los Angeles  
State: CA  
Radius (in miles): 50  
Min Runway Length: 8000  
 Show all airports

**Generic Map**

Map Sat Hyb

**Open Airports**

Airport Name	ICAO	Runway
LOS ALAMITOS AAF	KSLI	1
LOS ANGELES INTL	KLAX	1
ONTARIO INTL	KONT	1

**Airport Details**

Airport Name	Location	ICAO	Latitude	Longitude	Elevation
LOS ANGELES INTL	06	KLAX	33.942536	-118.408075	126

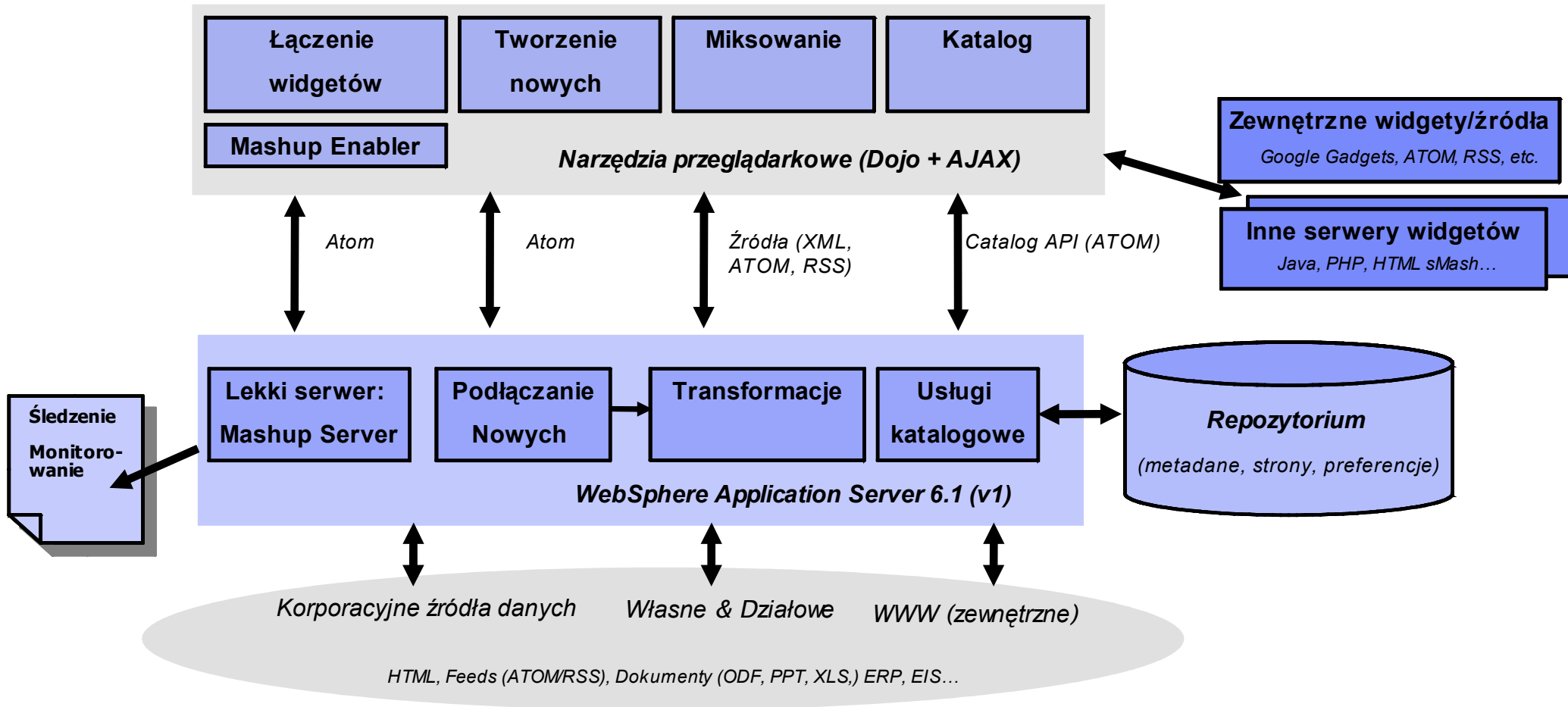
**Runway Details**

Length	Width	Surface type
10285	150	CON

**NOTAM Messages**

Source_id	Account_id	Area_description	Notam_id	Part
K	KL	KKL, CLEVELAND, OH, US, (224245N, 326383W) [CLE] 5/999	1/1	Thu
K	KL	KKL, CLEVELAND, OH, US, (409104N, 831007W) [CLE] 3/877	1/1	Thu

# IBM Mashup Center – architektura

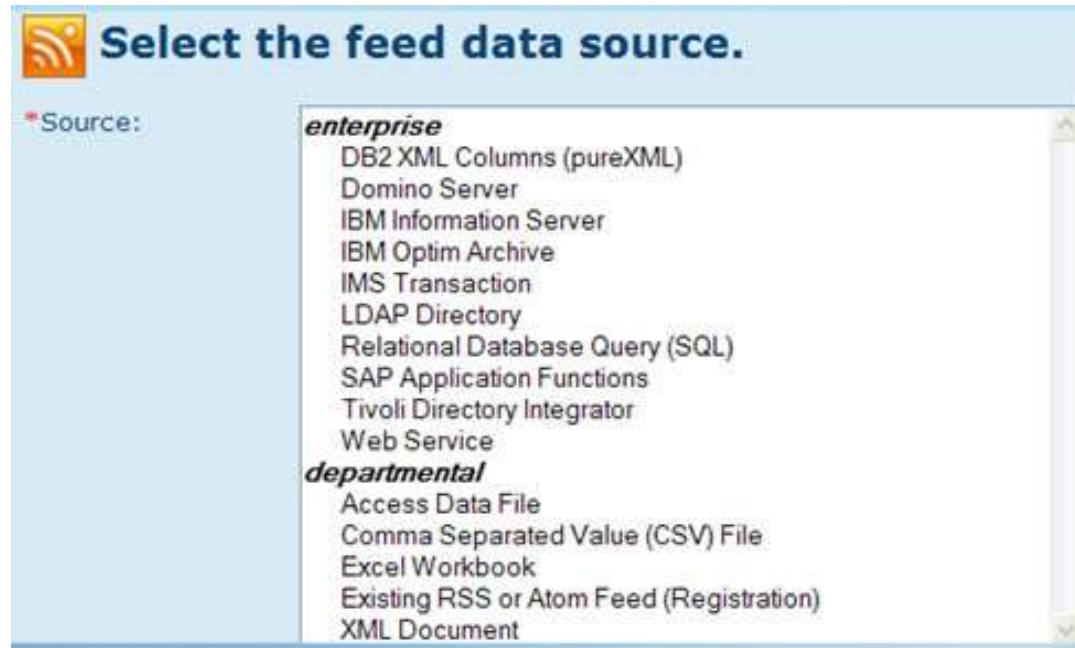




## IBM Mashup Hub – cechy i podstawowe funkcje

- Repozytorium dla źródeł danych (feeds), widgetów, stron
- Możliwość tworzenia nowych komponentów, modyfikacji istniejących, transformowania
- Wersjonowanie
- Z możliwością nadawania etykiet, komentowania, oceniania
- Bezpieczne i skalowalne





## Mashup Hub



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Smarter software for a Smarter Planet.

Home **Everything**

Title	Tags	Updated	Rating	Author
 Aggregate Policies Mashup	aggregate, policy, mashup	5/17/08 12:19 PM	★★★★★	nicole
 Bar Chart (XML)		5/18/08 10:26 AM	★★★★★	nicole
 CD Warehouse	cd, information, xml	5/17/08 12:19 PM	★★★★★	nicole
 CD Warehouse Mashup	cd, mashup	5/17/08 12:19 PM	★★★★★	nicole
 CSV Sample 1	csv, sample	5/17/08 12:19 PM	★★★★★	nicole
 Country GMT Service	country, gmt, time, timezone	5/17/08 12:19 PM	★★★★	nicole
 Country List Service	country, list	5/17/08 12:19 PM	★★★★★	nicole
 Customer List		5/18/08 10:39 AM	★★★★	nicole
 Expiring Policies Mashup	policy, mashup	5/17/08 12:19 PM	★★★★★	nicole
 GPA Query	access, gpa, statistics	5/17/08 12:19 PM	★★★★★	nicole
 IBM Emerging Tech Blog	emerging, technology, blog	5/17/08 12:19 PM	★★★★★	nicole
 Insurance Mashup	weather, insurance, mashup	5/17/08 12:19 PM	★★★★★	nicole
 MyCo Customer list	excel, customer	5/17/08 12:19 PM	★★★★★	nicole
 National Park Forecast Mashup	weather, forecast, mashup	5/17/08 12:19 PM	★★★★★	nicole
 National Park XML	national park, zipcode, xml	5/17/08 12:19 PM	★★★★★	nicole
 New alphaWorks Technologies	alphaworks, emerging, technology	5/17/08 12:19 PM	★★★★★	nicole
 Periodic Table Lookup Service	element, atom, chemistry	5/17/08 12:19 PM	★★★★★	nicole
 Pipeline		5/18/08 10:17 AM	★★★★★	nicole
 Policy Holders	sql, relational, insurance	5/17/08 12:19 PM	★★★★★	nicole
 Policy Holders Mashup	insurance, mashup	5/17/08 12:19 PM	★★★★★	nicole

Showing 1 to 20 of 27

Catalog Atom feed: [XML](#)

### Top Tags

access aggregate  
alphaworks atom blog cd  
chemistry country csv  
emerging insurance  
**mashup** news policy  
sample tdi technology  
weather xml yahoo

See all tags

### Categories

- :: General
- :: Enterprise
- :: Project
- :: CRM
- :: Finance
- :: Sales
- :: Production
- :: Mobile
- :: Human Resources
- :: IT

# Lotus knows.

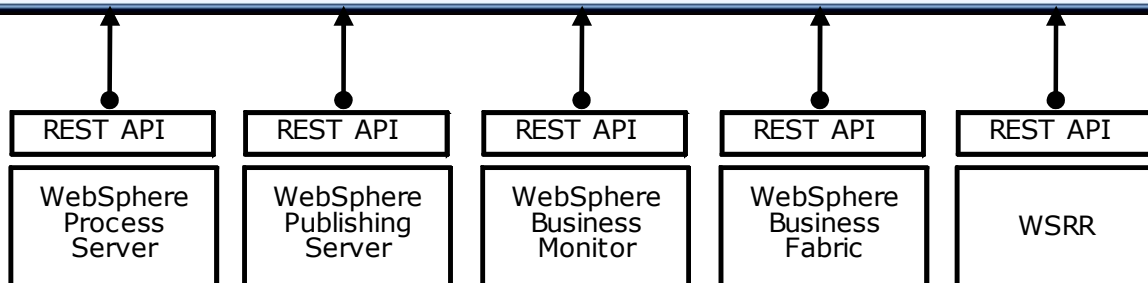
Smarter software for a Smarter Planet.

The screenshot displays the InfoSphere MashupHub interface. At the top left, the title "InfoSphere MashupHub" is visible. To the right, there is a search bar and a "Scope" dropdown menu set to "All". A "Logout" link is located in the top right corner. Below the header, there are navigation tabs for "Home" and "Feed Mashup ...". A toolbar contains buttons for "Save", "Run", "Arrange", and "Clear". On the left side, a panel titled "Operators" lists various actions: Source, Combine, Filter, For Each, Group, Merge, Sort, and Transform. The main workspace shows a workflow diagram with the following nodes: "DB2" and "SAP" are source nodes. "DB2" connects to a "Filter" node, and "SAP" connects to a "Transform" node. Both "Filter" and "Transform" nodes connect to a "Merge" node. Finally, the "Merge" node connects to a "Publish" node.

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The screenshot shows a Mozilla Firefox browser window displaying the WebSphere Business Space interface. The browser's address bar shows 'deljcio.us'. The page title is 'WebSphere Business Space' and the user is logged in as 'XYZ Co. Inventory Space'. The interface includes a navigation bar with 'Home', 'My Tasks', 'My Team's Tasks', 'Monitor', 'Process Review and Publish', 'Business Rules', and 'Add New Page'. The main content area is divided into several widgets: 'Sametime' (showing a list of team members), 'My Team's Tasks' (showing progress bars for four team members), 'My Monitor' (displaying a pie chart with segments of 14.70%, 27.16%, 11.31%, 10.40%, and 9.09%, and a bar chart for months January through June), 'My Alerts' (listing several 'Urgent Sample Alert' messages), and 'My Google Calendar' (showing the date 'Thu MAR 6'). A 'Widget Palette' on the right side offers categories like 'Monitoring Widgets', 'Tasks Widgets', 'Modeler Widgets', 'Publishing Widgets', and 'Google Widgets'. The footer of the browser window includes the IBM logo, copyright information for 2008, and links for 'Terms', 'Contact', and 'About'.



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Welcome

Go to View



Tools

Tools ▾

Content Feeds ▾

Favorites ▾

Collaboration ▾

Toolbar

logged in as bquinn | Role: Supervisor ▾

Help | Preferences | Log out

Actions ⚙



Working 9

Matching 9

My work 0

Review 4

Collected 214

Work item detail

Case number: 2976-281

Add attachment

Customer name: Smith, Jane

Add policy checklist

Priority

Account number

Company

Designated Rep

Effective date

Contract amount

Received date

Save

Cancel

Accept ▾

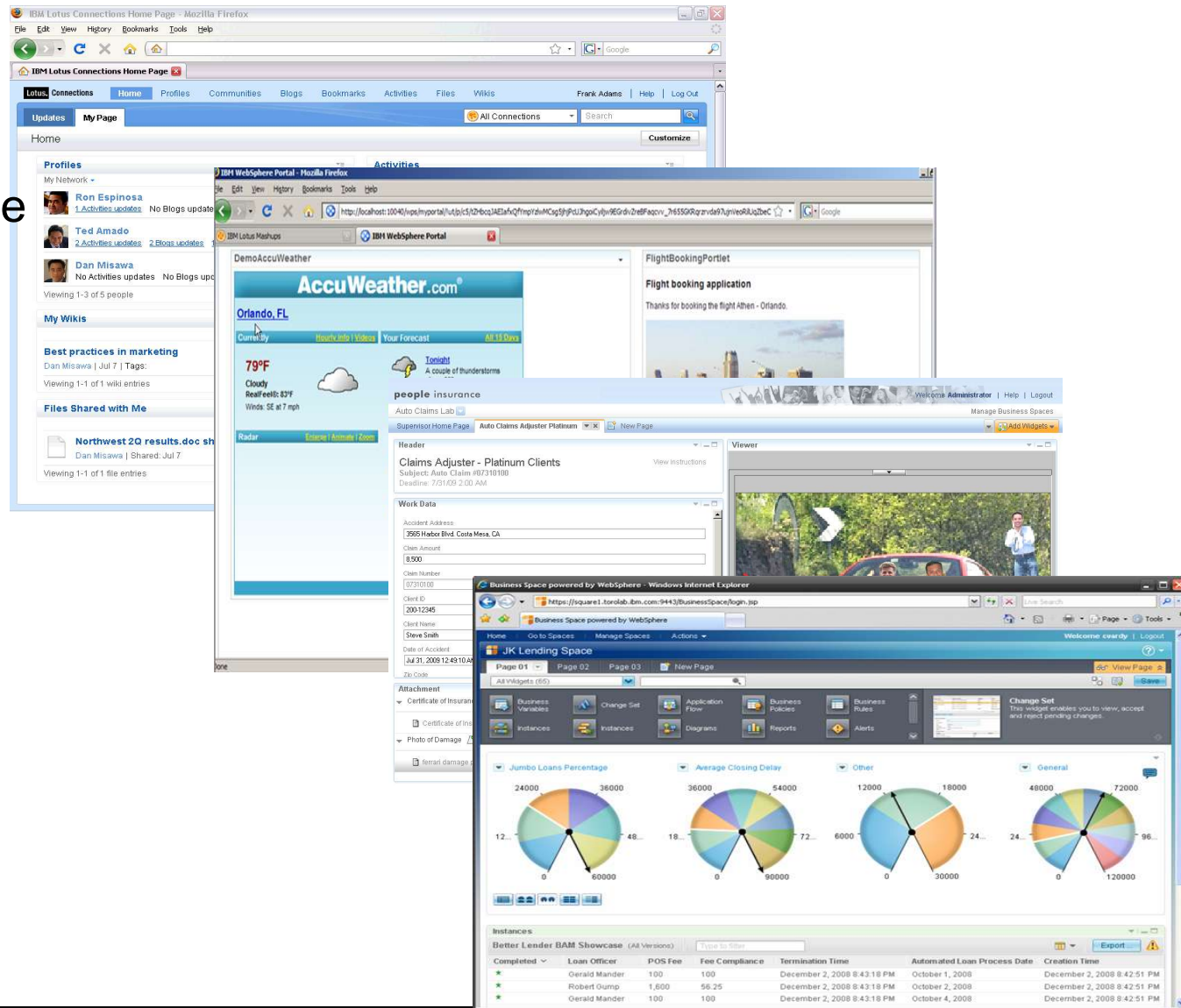
Document viewer

Map

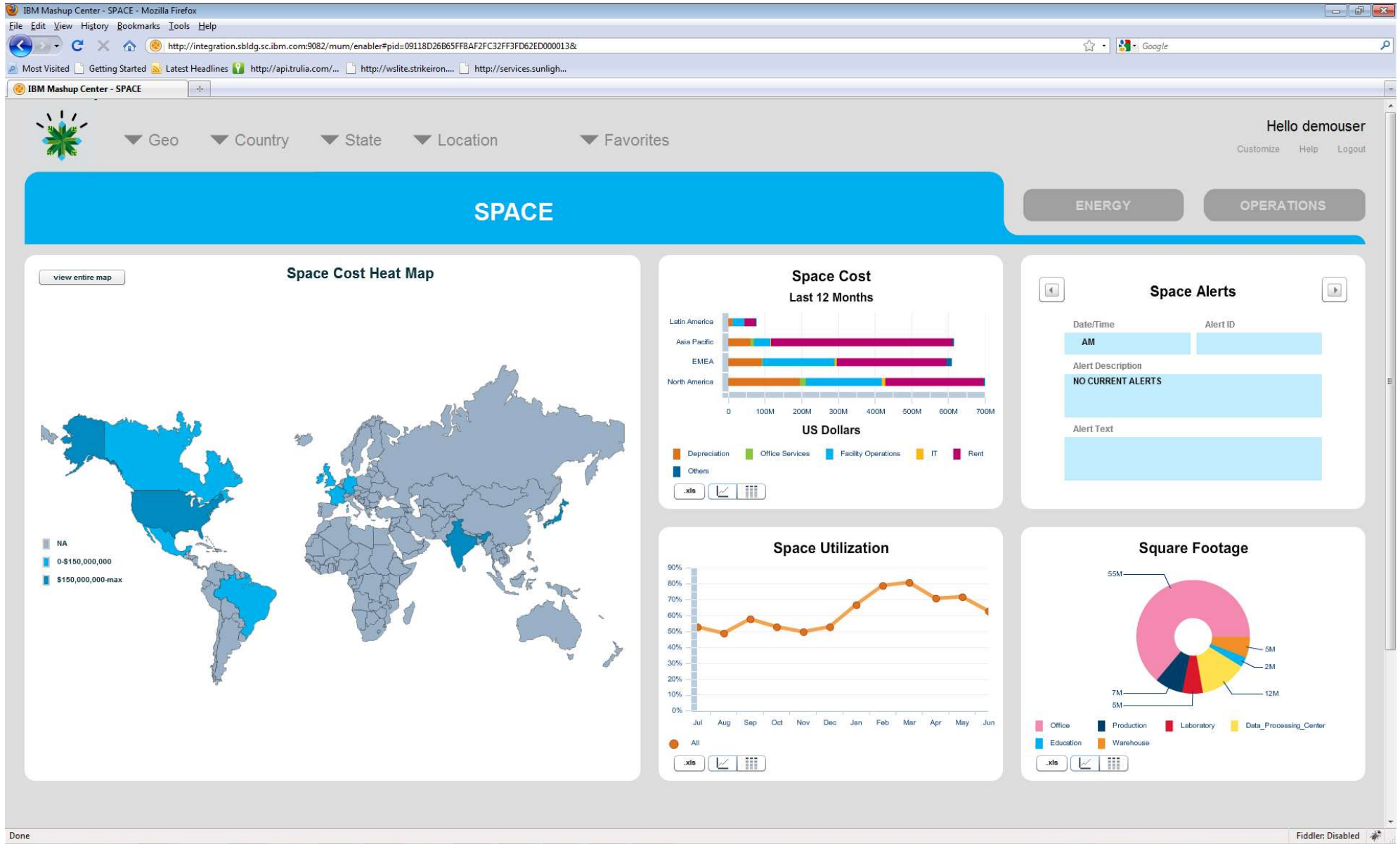


## Gdzie jeszcze są mashupy?

- Lotus Connections
- WebSphere Portal
- WebSphere Business Space
  - ▶ Process Server
  - ▶ Business Modeler
  - ▶ Business Monitor
  - ▶ Business Services Fabric
- Filenet P8
- Cognos
- Optim Data Archive
- ECM
- ACM (Polaris)
- RAD and JAZZ
- Tivoli (in work)
- ...and many others



## Przykład - Smart Building Appliance, Armonk





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Spaces

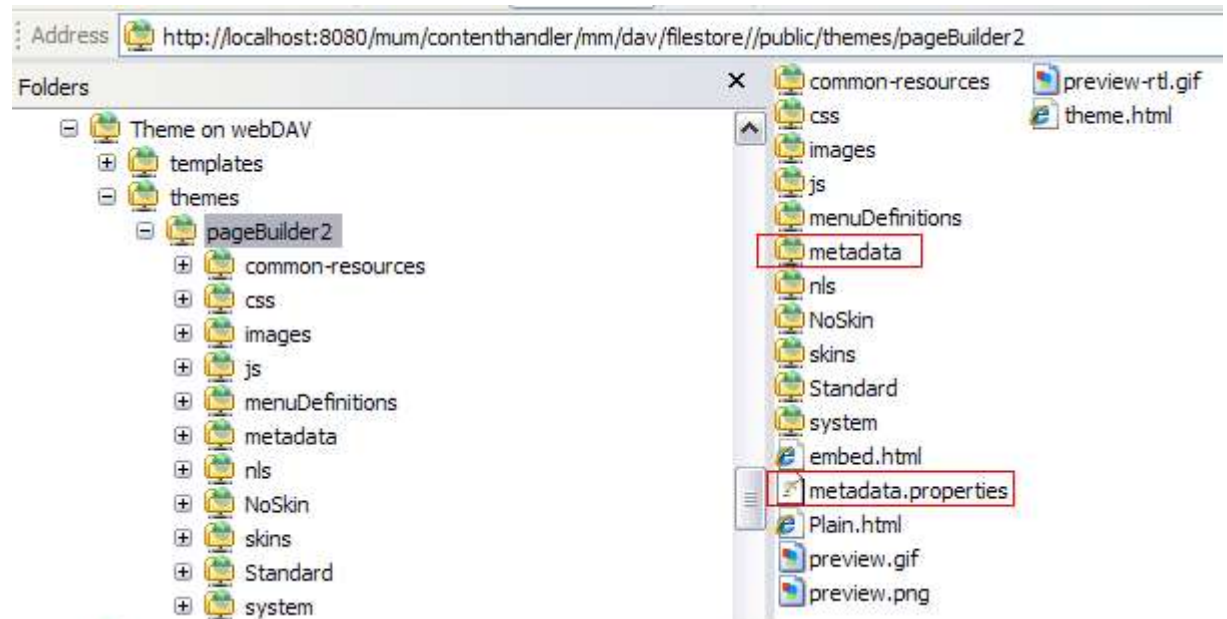
Pages

Palette

The screenshot shows a web browser window displaying the Lotus Symphony interface. The browser title is "page3 - Mozilla Firefox" and the address bar shows a URL from IBM. The interface includes a top navigation bar with "IRM Mashin Center", "My Mashin Apps", and "Space Manager". Below this is a "space1" header with tabs for "page2", "page1", "page3", and "New Page". A "Customize" button is visible. The main content area is divided into a left sidebar and a main grid. The sidebar contains "Add Content", "Change Style", and "Change Layout" options, along with a "Search Widgets" field and "Browse Content" sections for "Widgets" and "Feeds". The main grid contains several widgets: "AccuWeather", "Action Timer", "Chart", "Customer List", "Data Editor", "Data Viewer", "Event Explorer", "Feed Reader", "Hello World Widg...", "HTML Markup", "Image", and "JavaScript Adapt...". Below the grid is a "Timeline" widget showing a calendar view with events like "Rosebuds" and "Brett Dennen". At the bottom, there is a "Customer List" table with columns for "Customer\_Name", "Address", and "Zip". The table contains one entry for "IBM" at "New Orchard Rd Armonk, New York" with zip "10504". On the right side of the main grid, there is a large "AccuWeather.com" widget for "Orange, CA" showing a current temperature of 75°F, a "Sunny" icon, and a 5-day forecast. The forecast includes: Tonight (Clear, -Low 60°), Tomorrow (Clear, High 88°/Low 57°), Thursday (Clear, High 98°/Low 59°), Friday (Clear, High 95°/Low 61°), and Saturday (Clear, High 94°/Low 62°). A radar map is also visible below the weather widget. The bottom of the browser window shows "Page 1 of 2", "Jump to page 1", and "Previous | Next" navigation. The status bar at the very bottom indicates "Done" and "Fiddler: Disabled".

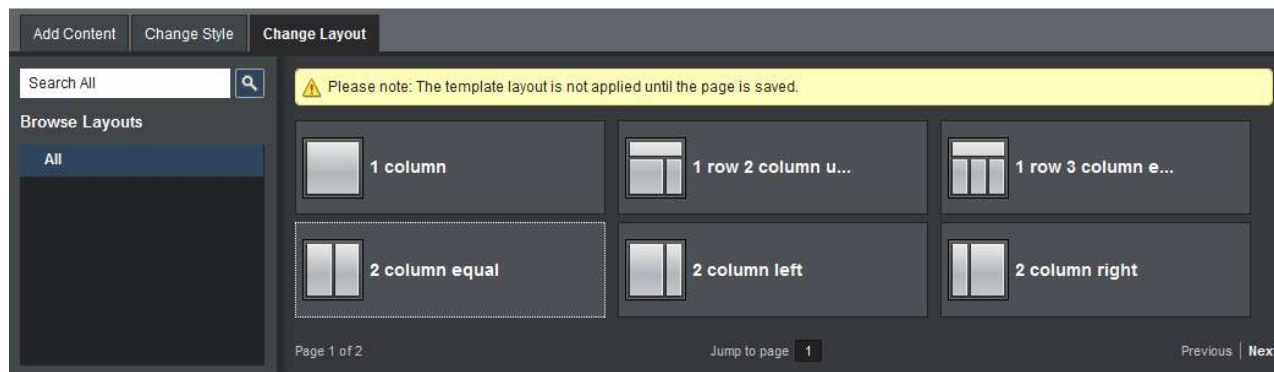
Widgets

## 3.0 – Nowa kompozycja



## 3.0 – nowe układy

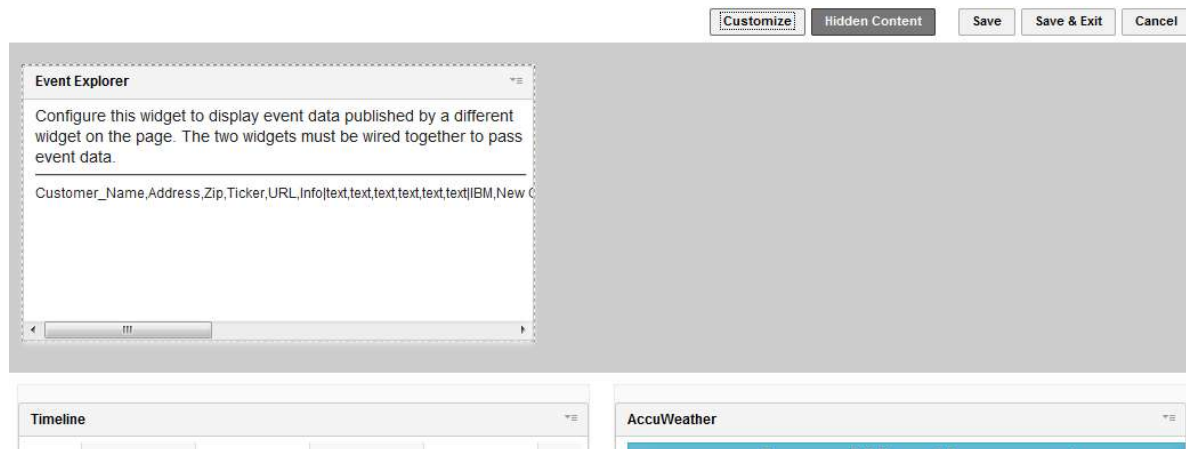
- Dowolny układ zapisany w html
- Statyczny html
- Wymienne z portalem v7!



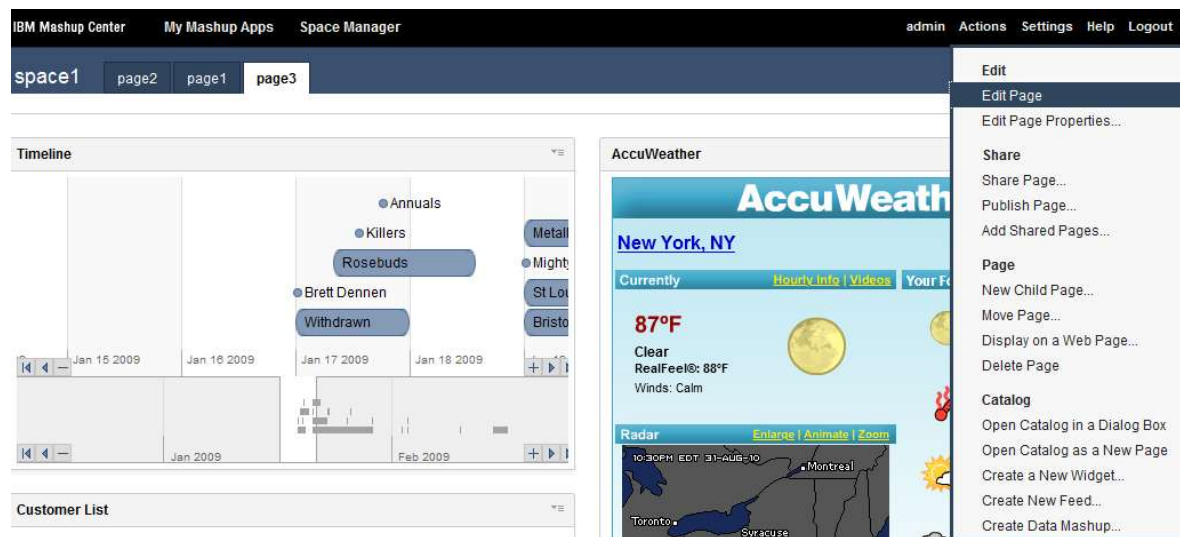
```
<div class="hiddenWidgetsDiv">
  <!-- widgets in this container are hidden in the UI by default -->
  <div class="component-container hiddenWidgetsContainer ibmDndRow" name="ibmHiddenWidgets"></div>
  <div style="clear:both"></div>
</div>
<!-- this layout has two fluid equal sized columns -->
<div class="component-container ibm2Col ibmDndColumn" name="ibmMainContainer"></div>
<div class="component-container ibm2Col ibmRightCol ibmDndColumn" name="right"></div>
```

## 3.0 – edycja strony

- Nowy widok ukrytych widgetów

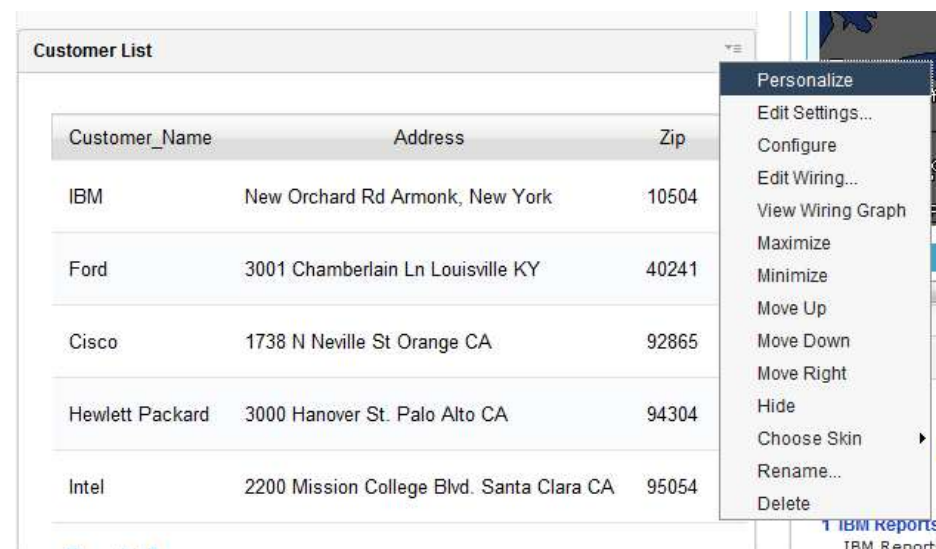


- Nowe menu
- Nowe możliwości...



## 3.0 – IWidget 2.1 Specification

- Personalizacja widgetów
- Stan okienek
- Współdzielone zasoby



```
<!-- one per resource -->
<iw:resource id="{resourceName}" globalid="{resourceName}"src="{uri}"
blockInit="{boolean}" version="{version}"
mimeType="{mimeType}" callback="{function name}" skipLoad="{javascript
expression}" >
  <iw:skipLoad>
    <![CDATA[
      <!-- more complex javascript expressions -->
    ]]>
  </iw:skipLoad>
</iw:resource>
```

## 3.0 – Open Social Gadget

- Fiesta 2.0 OpenSocial container w ramach Lotus Mashups 3.0
- Wsparcie dla OpenSocial dodanych do Mashup Center i Katalogu po URL

## 3.0 – Open Social Gadget

The screenshot shows the IBM Mashup Center interface with the following components:

- Header:** IBM Mashup Center | My Mashup Apps | User One | Actions | Settings | Help | Logout
- Navigation:** V3.0 World
- Widgets:**
  - Sample PubSub Publisher:** A widget with a "Publish a random number" button. Labeled as "Gadget".
  - Event Explorer:** A widget with a search icon and text: "Configure this widget to display event data published by a different widget on the page. The two widgets must be wired together to pass event data." Labeled as "iWidget".
  - Todos:** A widget showing a yellow notepad with the text "1. Type new task here". Labeled as "Gadget".
  - Sample PubSub Subscriber:** A widget with "Subscribe" and "Unsubscribe" buttons. Labeled as "Gadget".

Wszystkie mogą się komunikować ze sobą!

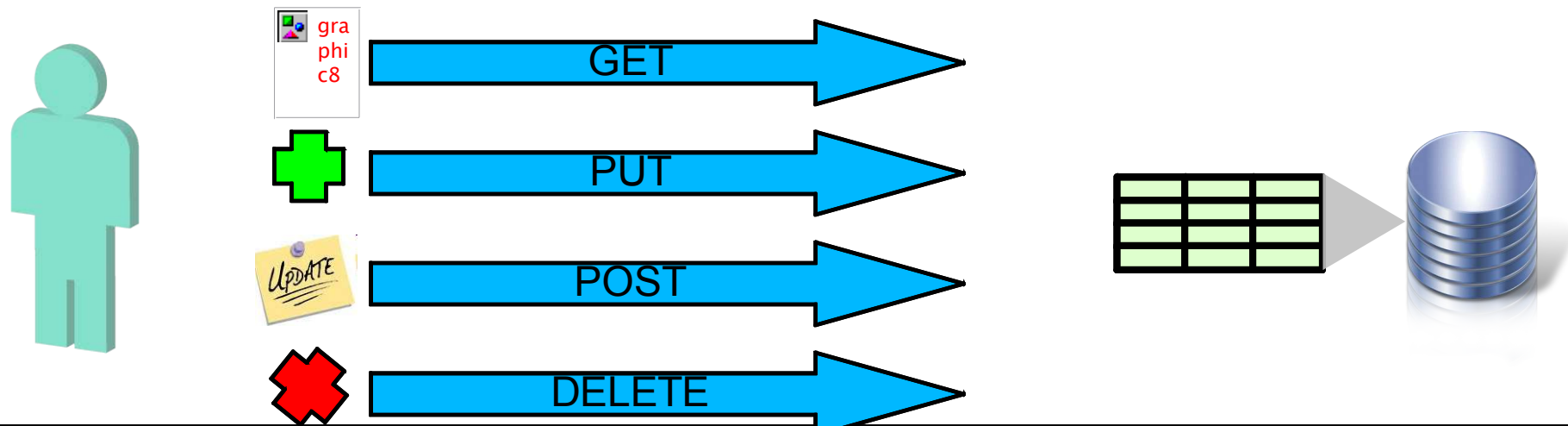
## Katalog, Źródła danych, Mashupy danych

- **Cognos – raporty, foldery**
- **Infosphere Data Architect, Optim Data Growth**
- **Integracja z WSRR**



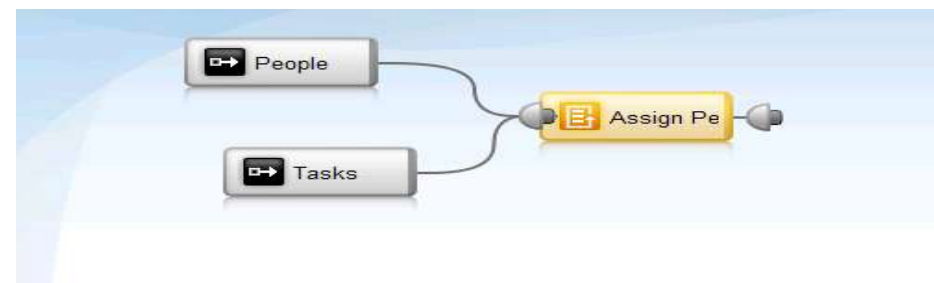
## Interaktywne Mashupy: Data Collection

- Read - write
- Data Collection – zestaw usług wokół RBD
  - Używany standard ATOM Publish Protocol (APP) dla modyfikacji
    - HTTP Methods: GET, POST, PUT and DELETE
- Tworzone automatycznie



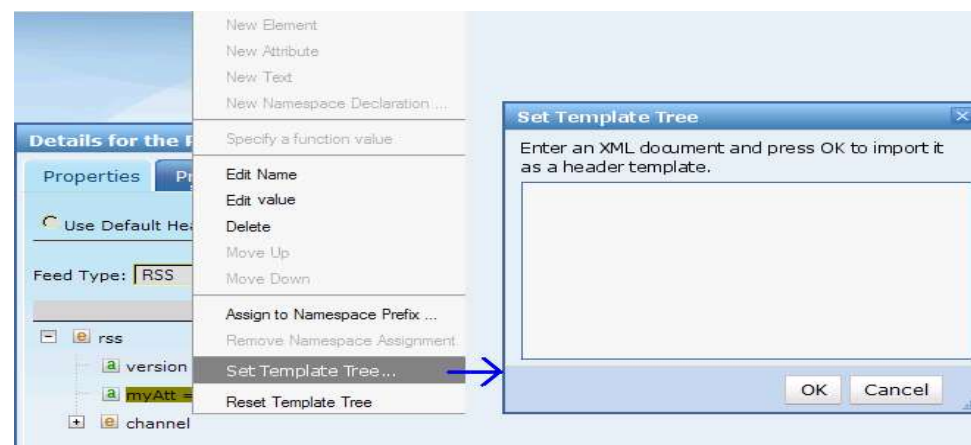
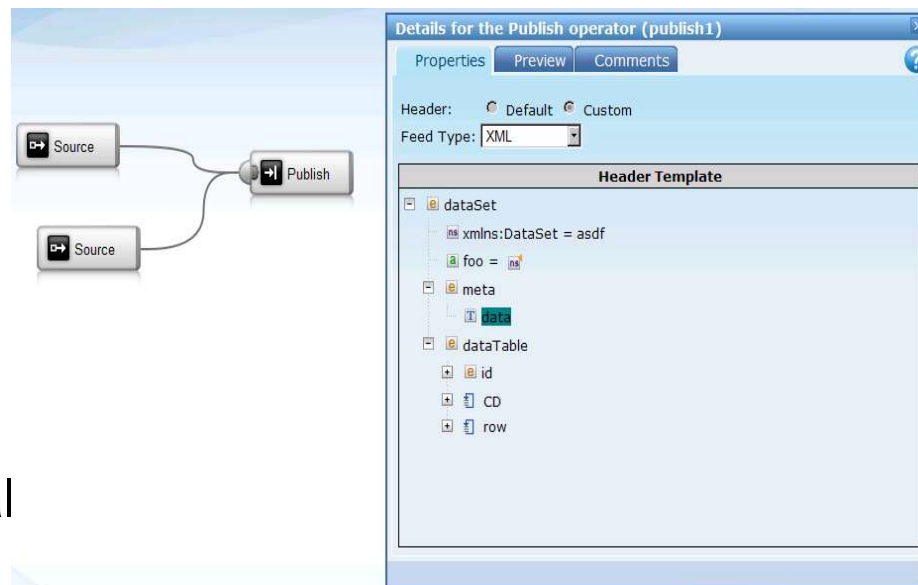
## Interaktywne Mashupy: w warstwie danych

- Wprowadzanie zmian.
  - Np: SQL and REST Services poprzez POST, PUT, and DELETE
- Przykłady?
  - Import danych między źródłami – ładowanie xls do Db2



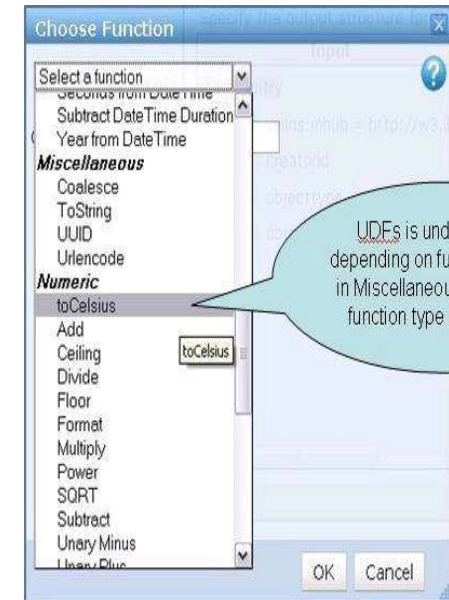
## 3.0 – nowe opcje publikacji

- Dowolny format wyjściowy
- Metadane
- Dynamiczne elementy
- Nowe formaty:
- GeoRSS, DataSet, LDX, GCal



## 3.0 – Własne funkcje

- Transform Operator:
  - Własne funkcje oparte o java



### Manage User-Defined Functions

Add, replace or delete a user-defined function package (.zip file)

Required fields marked with \*

- \* Action
- Add a UDF package
  - Replace a UDF package
  - Delete a UDF package

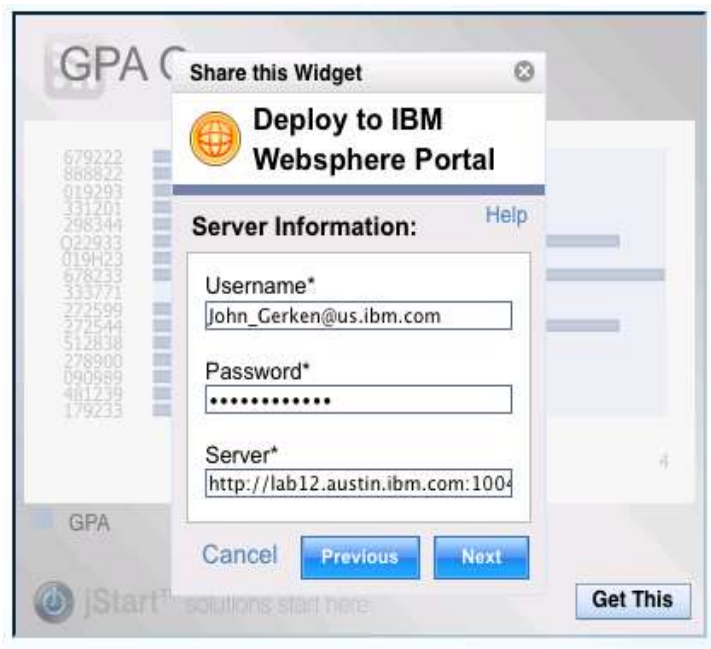
\* File Path

Browse...

Specify the location of the new .zip file

Add

## 3.0 – iWidgetAdd



Click the "Get This" button below to deploy or bookmark this widget.



## 3.0 – Tworzenie widgetów

- Szablony:
  - Feed Reader
  - Chart
  - NavTeq Map
  - ScatterPlot
  - Table Data
  - Tabbed Widget
- Inne
  - Flash
  - Java Applets
  - Web Videos and Photos

IBM Mashup Center

Home: Catalog **Widget 171**

HubAdmin | Settings | Logout | Help

Select a widget type to begin:

Required fields marked with \*

Widget Types: \*

- Generic Text Feeds
  - Feed Reader
- Media Feeds and Web Content
  - Flash Content from a Web Page
  - Java Applet from a Web Page
  - Web Photos
  - Web Videos
- Numeric Data Feeds
  - Chart
  - Navteq Map
  - Scatter Plot
  - Table Data
- Other Widget Types or Content
  - Bank Widget Example
  - Flash Content (Advanced)
  - Hello World Sample
  - Import an Open Social or Google Gadget
  - Import an iWidget
  - Java Applet (Advanced)
  - Tabbed Widget Container

Preview:

Customer List Map Overlay

Map Hybrid Satellite

Canada Saskatchewan Manitoba Newfoundland

USA Texas

Mexico

NAVTEO MAPS

jStart™ solutions start here.

Use this widget type to display data on a map. The widget can be customized and skinned, and once created, can be moved and mashed as desired.

Previous Next Cancel

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## 3.0 – Wersjonowanie

### Specify the following information

Required fields marked with \*

\* Title:

Description:

\* Version:

Revision: 1  Create New Revision

Revision Comment:

Tags:

Permissions:  Public (All users can view the Data Mashup)

client/plugin/generate/entryid/41/pluginid/10

Version	Revision	Creation Date	Last Save	Revision Comment
2	4	6/25/2009	7/19/2009	This is the fourth version of this object
1.2	3	5/24/2009	6/24/2009	This is the third version of this object
1.1	2	4/23/2009	5/23/2009	This is the second version of this object
1	1	2/28/2009	4/22/2009	This is the first version of this object

View Revert Make New Object Delete

## Lotus Connections i Mashupy

The screenshot displays the Lotus Connections i Mashupy interface, which is a dashboard with four main panels. At the top, there are navigation tabs for "Sales prospects", "Sales network", and "New Page". On the right side of the dashboard, there are buttons for "Share", "Customize", and "More Actions".

**My Sales Team**

Salesperson	Location
Gary McBride	Austin, TX
Michael Logan	Houston, TX
Mikael Orn	El Paso, TX
Nicole Carrier	Austin, TX

**Search query: construction**

**Send people list**

- [Fiona Sheridan](#)
- [Hendrid Tan](#)
- [Jacques Auguste](#)
- [crystan ganzell](#)
- [Cheri Duchrow](#)

**Topic: construction**

**Submit**

**Search query: construction**

apple architectural\_components architecture assemblies bes bim blackberry building\_systems chemicals collaboration commercial concrete **connections** connections2.5 **construction** contractor customer del.icio.us del.icio.us-import **domino** e20 electricity equipment folksonomy forrester-research from\_my\_del.icio.us gettingstarted heritage interoperability ipd **joplin** kenjiro kinderdijk linkedin lotusconnections mac model models **notes** open oracle oriented os\_x quickr sametime sandvik sce service soa social-networking socialsoftware solar tools travel unesco useradoption vcc water web20 wiki wind windmills

**Search query: construction**

Filtered by: **construction**

- Welding skills puts career power into your hands!**  
Guest User | 3 May
- Welcome**  
Will Raabe | 9 Mar 2007
- Models, Model, or Unifomat**  
Jim Summers | 2 Feb 2008
- John R. Rymer on WEB 2.0**  
Stephen Booth | 12 Oct 2007
- What am I doing here?**  
Jenny Pilkington | 11 Mar 2008

**Search: construction**

Filtered by: **construction**

- Construction**  
Hazel Oetjen | 10 Aug 2008
- Joplin Construction**  
Burke Strand | 4 Nov 2009
- Construction - 03 Concrete**  
Gabi Abdo | 1 Apr 2008
- Joplin Weather**  
Burke Strand | 4 Nov 2009
- Online Buyers Guide for the Concrete Construction**  
Gabi Abdo | 16 Nov 2007



## Więcej informacji.....

- Visit our IBM Mashup Center website
- <http://www-306.ibm.com/software/info/mashup-center/>
- Try out IBM Mashup Center on Lotus Greenhouse
- <https://greenhouse.lotus.com/home/product.jsp?p=mashups>
- IBM Mashup Center – Pay by the hour on Amazon Web Services
- [http://developer.amazonwebservices.com/connect/entry.jspa?categoryID=229&externalID=2744&utm\\_source=ibm&utm\\_medium=catalog&utm\\_campaign=link](http://developer.amazonwebservices.com/connect/entry.jspa?categoryID=229&externalID=2744&utm_source=ibm&utm_medium=catalog&utm_campaign=link)
- Visit our Wiki
- <http://www-10.lotus.com/ldd/mashupswiki.nsf>
- Adding Mashup Center widgets to business space:
- [http://www-10.lotus.com/ldd/mashupswiki.nsf/dx/Adding\\_Mashup\\_Center\\_widgets\\_to\\_business\\_spaces](http://www-10.lotus.com/ldd/mashupswiki.nsf/dx/Adding_Mashup_Center_widgets_to_business_spaces)
- Widget Generation Plug-in for IBM Mashup Center – Tech Preview:
- <http://www-01.ibm.com/software/ebusiness/jstart/widgetgen/>
- Check-out demos & videos (ItsMashtastic YouTube channel)
- <http://youtube.com/user/ItsMashtastic>

# Lotus knows.

Smarter software for a Smarter Planet.

# Dziękuję!

Rafał Skirzyński

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