

IMS and IBM Mashup Center – Getting more from your data

IMS Web 2.0 Solution for IBM Mashup Center V2

Agenda

- Overview and Offer
- Background and Terminology
- IMS & Mashup Center Solution Overview
- Examples of Mashups with IMS

Mashup Center Free to IMS customers

- Offer for IMS Customers
 - Mashup Center V2 to IMS 10 & IMS 11 customers for free
 - Use limited to IMS and two SQL data servers in support of IMS solution
- Enable new/expanded use of IMS TM and DB assets to new sets of users
- Distribution
 - Simple download of Mashup Center from <u>www.ibm.com/IMS</u>
- Expands on the IMS Web 2.0 Solutions

What is Web 2.0?

Achieve Growth, Efficiency, and Collaboration with Web 2.0

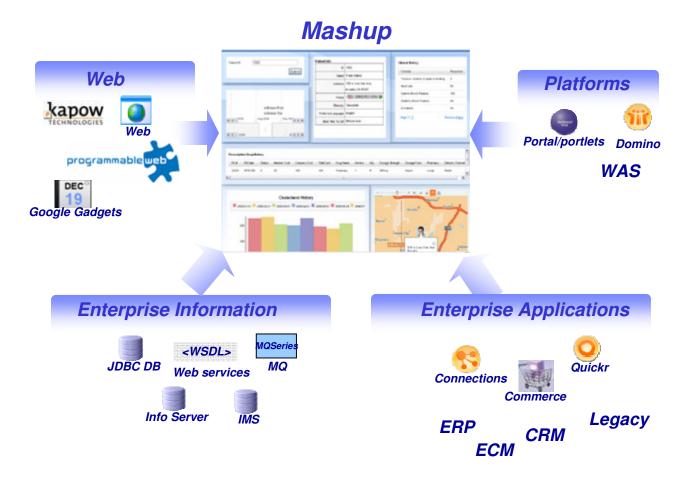
- Enabling employees to be more productive, more knowledgeable, faster
- From a technology perspective, Web 2.0 uses AJAX, mashups, and feeds predominantly
- Collaboration: Social networking (Facebook, LinkedIng)
- Simplification: Mashups, RIAs, Web services

Personalization becomes collaborative!

What is a Mashup?

A "mashup" is a lightweight web application created by combining information or capabilities from more than one existing source to deliver new functions & insights.

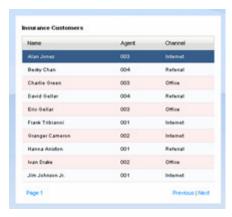
- Rapid creation (days not months)
- Reuses existing capabilities, but delivers new functions + insights
- Requires less technical skills
- Often mixes internal and external sources



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

IMS & MashUp Center Offer





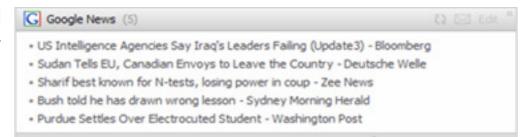






What is a Feed?

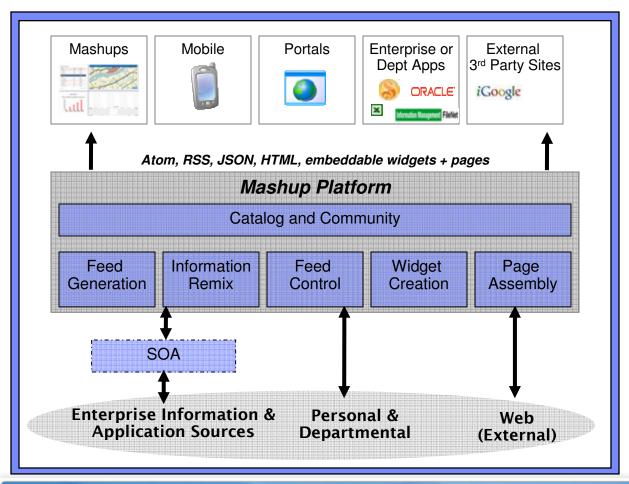
- A web feed is a data format used for providing users with frequently updated content
- Users can subscribe to RSS or ATOM to read or subscribe to via the feed readers in browsers
- Feeds emerging as a common way for organizations to expose existing enterprise data to be consumable
- Feeds can be created from Enterprise, Departmental, personal sources like Excel, or the Web





What is a Mashup Platform

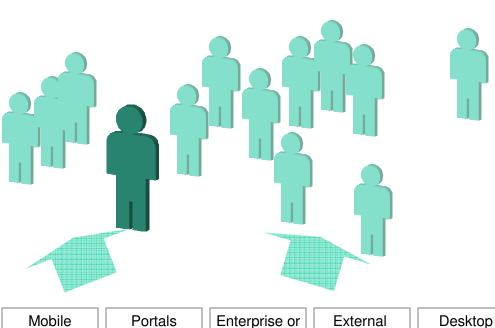
A mashup platform enables the rapid creation, sharing, and discovery of reusable application building blocks (widgets, feeds, mashups) that can be easily assembled into new applications or leveraged within existing applications, like Websphere Portal.



Mashup Platforms Enable:

- Rapid application delivery thru a virtuous cycle of reuse
- Design and Delivery paradigm, helping to better align solutions to business needs
- Agility and flexibility to quickly assembly new apps to meet new requirements or situations
- Self-service app development, helping to lower IT backlog
- Innovation through community contribution
- Improved insights from assembling disparate information into one view

"They would need to consume the information "in context" – within the tools and workflows that currently support their work















Extending SOA with Web 2.0

Personalizing SOA for efficiency and innovation

Simple to use and quick to develop and deploy

- Rapidly assemble mashups
- Simply create widgets, feeds
- Reuse information and services
- Unlock enterprise and web contents
- Increase effectiveness with rich interface

Simple to access

- Access resources with simple RESTful interface
- Reduce development time and skills needed
- Quickly transform and mix information
- Wider access from a variety of consumers (web apps, outside partners, etc.)

Web 2.0 Interface

Enterprise Content

IMS inventory app
DB2 finance application
SAP product data

..

Web-based Content

Stock market data
Competitor customer
references

Competitor product information

How do Mashups lower the cost curve?

Design and Delivery

Build the prototype! and deliver it instantly

Access in Place

Use data where it is, as it is without making changes

Reduce Project Uncertainty

Business knows they're getting what they need -instant feedback as its built Virtuous Cycle

Developing a set of reusable building blocks let you build mashups faster than first one

Now combined in Mashups



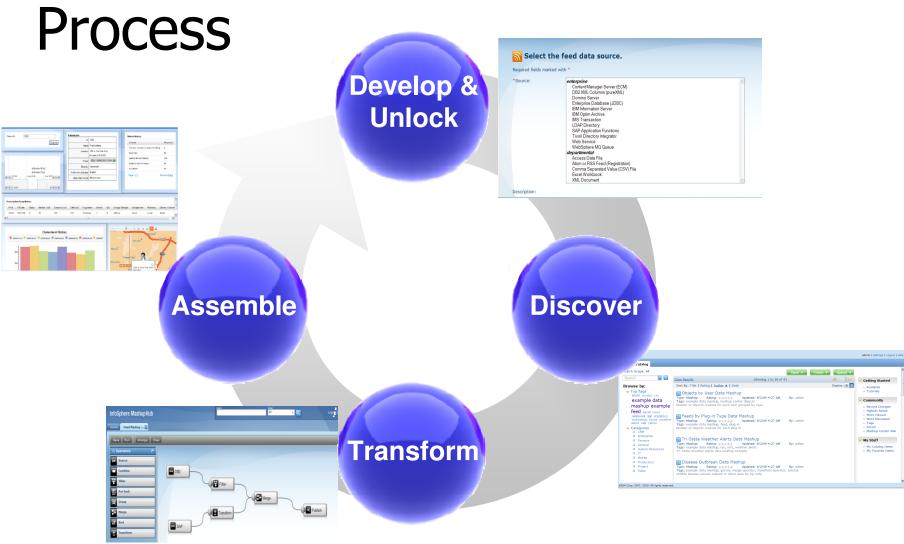
IBM Mashup Center

A end to end enterprise mashup platform, supporting rapid assembly of dynamic applications - with the security, governance and ROI that IT requires.

- **Create** new applications by reusing existing data and services
- **Unlock** Enterprise, Web, Personal and Departmental Information
- **Develop** widgets from enterprise systems
- **Discover** and share mashups, widgets, feeds, and services
- **Transform** information into new feeds



Speeding the Development



Reuse existing assets in new combinations

Customer Patterns

Quick Applications



- Rapid creation of tactical or opportunistic applications
- Quick iterations for application agility
- Data Aggregation "on the fly"
- Quick solutions to automate repeatable tasks

+

Enterprise "Mashability"

Many sources of enterprise information, applications, and SOA being generated/transformed into feeds and widgets









External 3rd Party Sites iGoogle



Being consumed in many places

IMS and Web 2.0: Unleash and Reshape IMS

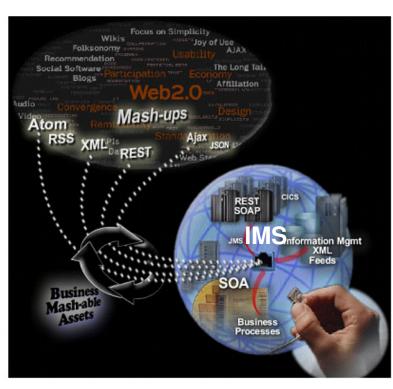
I want my IMS Assets to be mashable...

Enterprises will be exposing more services to the web, transforming the web into a platform...

...and consuming more services and feeds from the web

...what should I keep in mind?

IMS & MashUp Center Offer



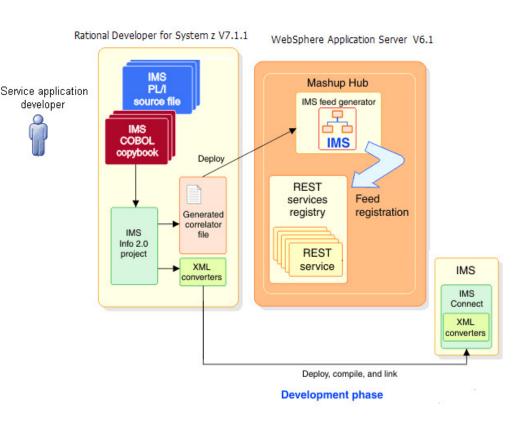
Mashup Scenarios:

- * Compose services (data or function) into a composite service
- * Compose widgets / HTML segments into a composite UI or an application template
- * Binding service (data or function) to the composite UI

Web 2.0 Support for IMS Transactions

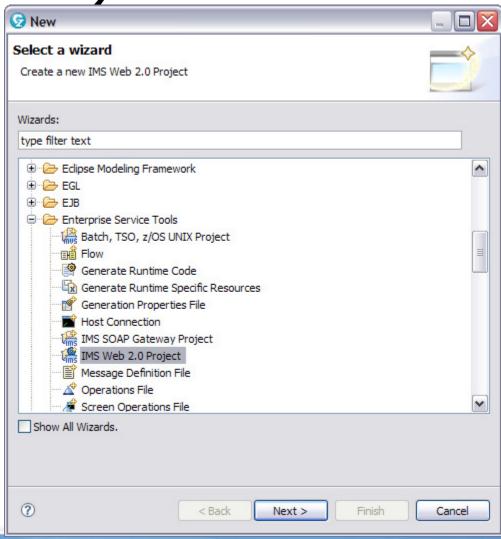
Developing a RESTful service / feed for IMS Transactions

- Generate correlator
 file and XML converters
 in Rational Developer
 for System z
- Create IMS Transaction feed in IBM Mashup Center



Web 2.0 support for IMS Transactions (RDz)

- Rational Developer for System z
 - Includes a new launch point for IMS Web 2.0 project as of V7.5
 - Creates IMS Web 2.0 metafiles



Web 2.0 support for IMS Transactions (IBM Mashup Center)

- IMS Transaction Editor
 - 1. Specify Connection Properties
 - Optional Security Settings
 - 2. Specify Transaction
 Parameter Properties
 - Default Values

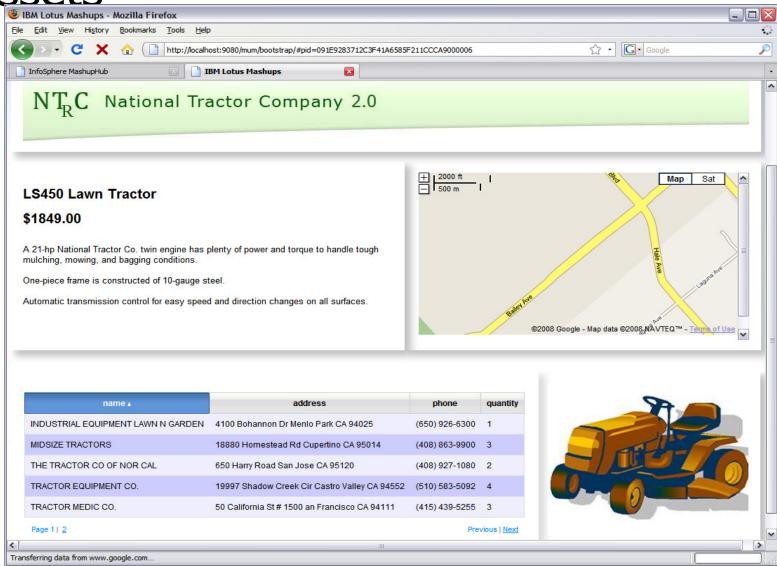


Web 2.0 Support for IMS Transaction – ATOM Output

IMS Web 2.0 service adapter for Phonebook application on Firefox Web browser

```
🐸 Source of: https://localhost:9444/mashuphub/client/plugin/generate/entryid/35/pluginid/7... 💂
File Edit View Help
<entry xmlns="http://www.w3.org/2005/Atom">
  <title type="text">Item 1</title>
  <id>urn:uuid:1</id>
  <updated>2009-06-19T22:13:53.437Z</updated>
  <author>
    <name>HubAdmin</name>
  </author>
  <summary type="text">Atom Feed entry 1</summary>
  <content type="application/xml">
    <RepeatingElement xmlns="http://www.ibm.com/xmlns/atom/content/imsrecord/1.0">
      <cbl:OUTPUTMSG xmlns:cbl="http://www.IMSPHBKO.com/schemas/IMSPHBKOInterface"</pre>
        <out 11>93</out 11>
        <out zz>768</out zz>
        <out msg>ENTRY WAS DISPLAYED</out msg>
        <out cmd>DISPLAY</out cmd>
        <out name1>LAST1</out name1>
        <out name2>FIRST1</out name2>
        <out extn>8-111-1111</out extn>
        <out zip>D01/R01</out zip>
        <out segno>0001</out segno>
      </cbl:OUTPUTMSG>
    </RepeatingElement>
  </content>
</entry>
</feed>
Line 29, Col 36
```

Example - Web Mashup leveraging IMS Assets

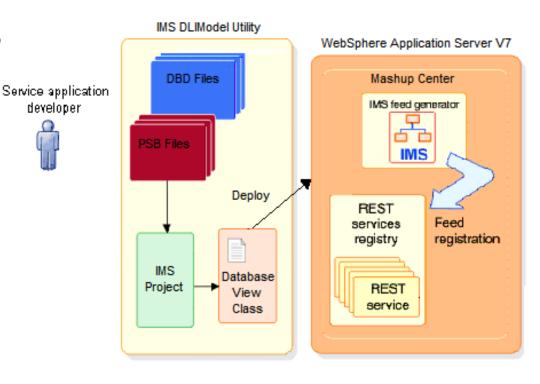


Web 2.0 Support for IMS Data

developer

Developing a RESTful service / feed for IMS Data

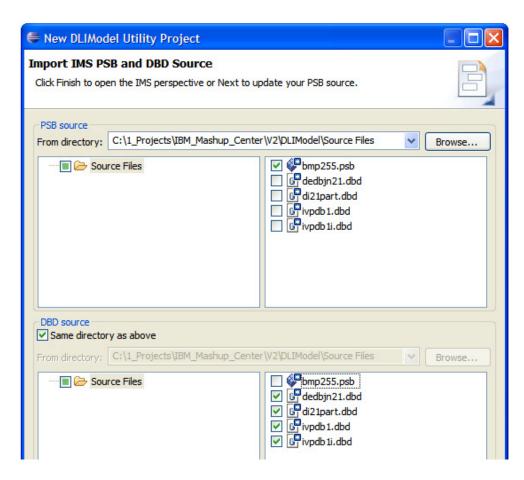
- Generate meta files from IMS DB in DLIModel Utility (IMS Enterprise Suite)
- Create Enterprise Database feed from IMS source in IBM Mashup Center



Web 2.0 Support for IMS Data (DLIModel Utility)

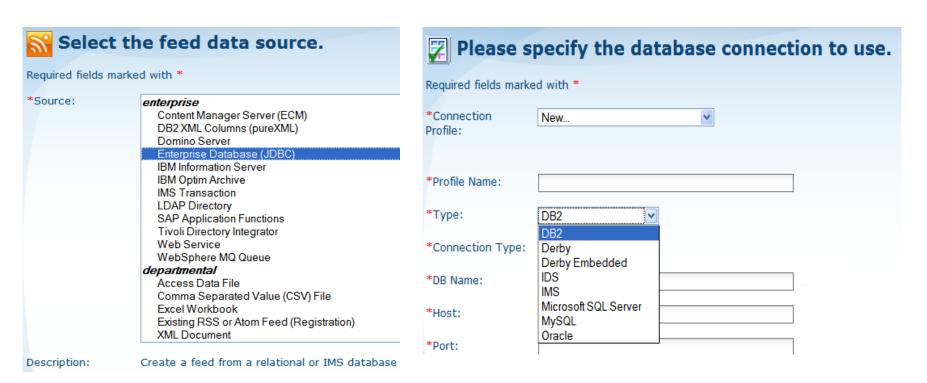
- IMS DLIModel Utility (IMS Enterprise Suite)
 - Generates DatabaseView class files
 - DatabaseView files provide a relational view of an IMS database

IMS & MashUp Center Offer



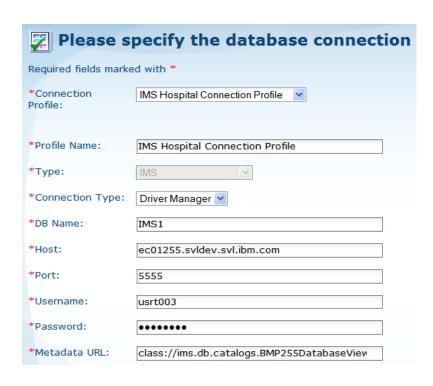
Web 2.0 Support for IMS Data (IBM Mashup Center)

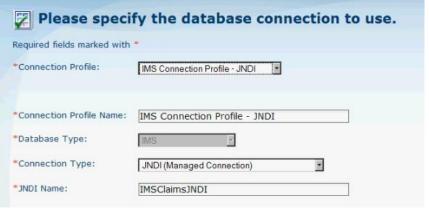
- Enterprise Database Plugin
 - Allows users to create feeds from any Database that supports a JDBC driver
- Supports the following databases:
 - DB2, Derby, IDS, IMS



Web 2.0 Support for IMS Data (IBM Mashup Center)

- Features:
 - Support both managed and unmanaged connections
 - Can store connection profile information for reuse

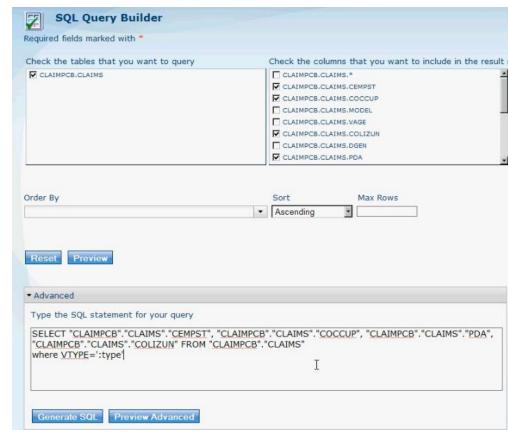




Web 2.0 Support for IMS Data (IBM Mashup Center)

- Supports generating SQL queries via a GUI interface
- Supports manual entry of SQL statements
- SQL Statements with Parameters deliver Dynamic Feeds
- A list of IMS supported SQL statements can be found at http://dzictestsrv.svl.ibm.com: 8035/help/index.jsp?topic=/co m.ibm.ims11.doc.apg/ims_jdb cspecificsemantics.htm

IMS & MashUp Center Offer



Web 2.0 Support for IMS Data – ATOM Output

IMS Web 2.0 service adapter for Hospital database on Firefox Web browser

```
💆 Source of: https://localhost:9444/mashuphub/client/plugin/generate/entryid/38/pluginid/15 - Mo... 📘 🔲
File Edit View Help
  </author>
<entry xmlns="http://www.w3.org/2005/Atom">
  <title type="text">Item 1</title>
  <id>urn:uuid:1</id>
  <updated>2009-06-19T22:55:33.625Z</updated>
  <summary type="text">Atom Feed entry 1</summary>
  <content type="application/xml">
    <row xmlns="http://www.ibm.com/xmlns/atom/content/datarow/1.0">
      <hospname>ALEXANDRIA
                                  </hospname>
      <wardname>GENERAL
                               </wardname>
    </row>
  </content>
</entry>
<entry xmlns="http://www.w3.org/2005/Atom">
  <title type="text">Item 2</title>
  <id>urn:uuid:2</id>
  <updated>2009-06-19T22:55:33.625Z</updated>
  <summary type="text">Atom Feed entry 2</summary>
  <content type="application/xml">
    <row xmlns="http://www.ibm.com/xmlns/atom/content/datarow/1.0">
      <hospname>ALEXANDRIA
                                 </hospname>
      <wardname>SPECIAL
                               </wardname>
    </row>
  </content>
</entry>
<entry xmlns="http://www.w3.org/2005/Atom">
 <title type="text">Item 3</title>
  <id>urn:uuid:3</id>
  <updated>2009-06-19T22:55:33.625Z</updated>
  <summary type="text">Atom Feed entry 3</summary>
```

IMS Insurance Demo

Scenario:

In the Insurance industry, Actuaries are responsible for building and changing Insurance policies. In doing so, they require to analyze internal claim data and external information based on a variety of statistics. In particular, for auto insurance Actuaries compare Demographic claim information from the Insurance Industry with the existing internal Claim data. Many Insurance companies capture claim information in the IMS system. Actuarial work is very valuable to the profitability of the company as Actuaries need to manage risk and maximize return.

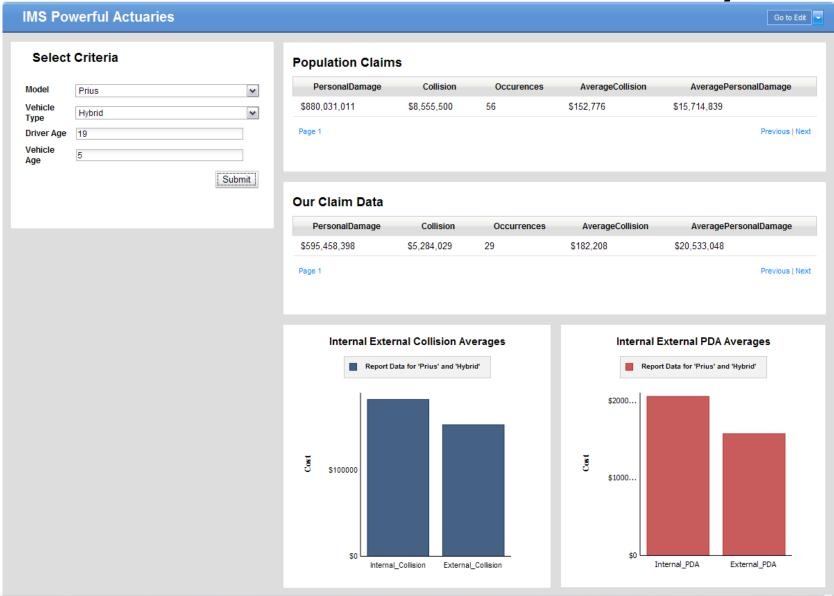
Powerful Actuaries - IMS

Challenges

This process is iterative and highly data centric. In many cases today, this information is downloaded into Excel or Access to do the Actuarial analysis which is difficult to share and re-populate if new analysis is needed.

Our Powerful Actuaries have hunch that some styles of car identify with certain styles of drivers. In particular the Hybrid a relative new style of car may present opportunity for the Insurance company to differentiate itself. Using a Mashup the Actuary can work with the data from multiple sources to provide statistical proof that this is the case.

Powerful Actuaries Made Easy



Prerequisites

- IMS Transaction
 - Software Requirements
 - IMS V10+, IMS Connect V10+
 - IBM Mashup Center V1+
 - Tooling Details
 - Rational Developer for System z (RD/z) V7.5+
- IMS Data
 - Software Requirements
 - IMS V11, IMS Connect V11
 - IBM Mashup Center V2
 - Tooling Details
 - IMS DLIModel Utility

Mashup Center Free to IMS customers

- Offer for IMS Customers
 - Mashup Center V2 to IMS 10 & IMS 11 customers for free
 - Use limited to IMS and two SQL data servers
- Enable new/expanded use of IMS TM and DB assets to new sets of users
- Distribution
 - Simple download of Mashup Center from <u>www.ibm.com/IMS</u>
- Expands on the IMS Web 2.0 Solutions

Thank You for Joining Us today!

Go to www.ibm.com/software/systemz to:

- Replay this teleconference
- ▶ Replay previously broadcast teleconferences
- Register for upcoming events