

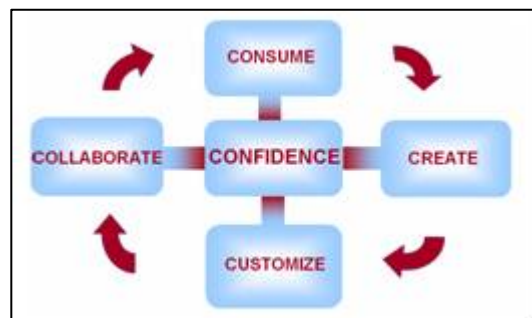
## Presto 1.4 New Features Overview

Enterprise Mashups are a revolution and they are bringing user-centric features like interactivity, data mashups, and collaboration to center stage. Leveraging the technological innovations of this Web 2.0 paradigm shift, forward-thinking enterprises are finding ways for their knowledge workers to quickly leverage internal and public data and share insights to achieve competitive advantage.

The complexity of ad-hoc data integration inherent in large organizations is compounded by the quantity of disparate applications and business processes needed to complete a task. Important data can be spread across CRM, billing, operations, ERP, ECM, and other repositories. Knowledge workers need a solution that streamlines long-winded, manual data mashup activities by utilizing the collaborative nature of Web 2.0 solutions. They need an approach that makes them the center of the solution.

JackBe has met these needs with Presto, an Enterprise Mashup Platform that allows enterprises to enable user-focused business-unit mashup solutions via the Five C's of enterprise mashups: Consume, Create, Customize, Collaborate, and Confidence.

- **CONSUME:** Secure, on-demand access to data services from enterprise SOAs, partner, and public data services.
- **CREATE:** Powerful, flexible, and intuitive driven data integration capabilities meeting the needs of advanced developers and power users.
- **CUSTOMIZE:** Rapid customization of mashups via user-specified business rules and formatting preferences for perfecting mashup data results.
- **COLLABORATE:** Easy tagging, classification, and sharing of data mashups across relevant users, teams, departments, or communities.
- **CONFIDENCE:** Compliance with enterprise security & governance policies for data access and collaboration.



Presto is composed of three primary components: the Presto Edge enterprise mashup server, Presto Studio for mashup RIA development, Presto Dash; a user-driven Web 2.0 mashup portal. More information about Presto can be found online at <http://www.jackbe.com/products/index.php>.

### What's New in Presto 1.4

Presto 1.4 debuts APIs and supporting documentation and code samples that are designed to open up new and powerful data integration possibilities through existing enterprise portal infrastructures and Rich Internet Application (RIA) toolsets. The Presto Connect API allows you to quickly incorporate mashups into

your enterprise RIAs while the Presto Portal Integration Guide allows you to incorporate mashups into corporate portals to better serve your users. Presto 1.4 also includes significant enhancements to the Presto Edge enterprise mashup markup language (EMML) for implementing dynamic expression templates and data selection clauses within your mashup scripts. Finally, improvement has been made to improve usability and efficiency in building Mashup RIAs using Presto Studio.

The remainder of this document summarizes the new capabilities of Presto 1.4:

#### **Easy Enterprise Mashup Integration**

- Presto Connect Mashup API
- Presto Portal Integration Guide
- Improved LDAP and SSO Support
- Expanded Operating System Support

#### **Mashups for Better Business Decisions**

- Easier EMML Readability and Scripting
- Dynamic Filtering & Expressions
- More Powerful JOIN's
- Basic Web-Clipping Support

#### **Rich Mashup Visualization**

- Flash Charts & Google Map Mashlets
- Enhanced IDE Navigation & WYSIWYG
- Improved Data Binding
- Rules Validation for Mashup RIA's

### **Easy Enterprise Mashup Integration**

COLLABORATE

CUSTOMIZE

#### **Presto Connect Mashup API**

Presto Connect is a JavaScript library that allows any 3rd-party RIA web application toolset to integrate Presto Mashups. Presto Connect provides APIs to connect to the Presto Server and invoke mashups and other data resources. Our JSON-based 'JUMP' protocol is used to access Presto Mashups and other individual data services via the widely accepted SOAP and REST protocols.

CONFIDENCE

COLLABORATE

CUSTOMIZE

#### **Presto Portal Integration Guide**

The Presto Portal Integration Guide features suggested portal integration architectures and examples for consuming Presto mashups in a portal environment. The portal integration guide provides general design guidelines that can be referenced when planning Presto mashup integration with portals. Approaches based on JSR-168 Portlet and Web Services for Remote Portlets (WSRP) are covered.

Integrating Presto into a portal environment provides a simple but powerful way to consume mashups, integrating disparate data regardless of varying technologies (such as RSS, REST, SOAP, RDBMS, etc.) and subsequently delivering ad-hoc, user-

specific mashup applications into portal environments, while operating within a single security/governance environment.

CONFIDENCE

### Increased LDAP and SSO Support

As part of our integration with Oracle WebCenter and Oracle Portal, we have validated Presto's ability to work with the Oracle LDAP and SSO components that power Oracle's application infrastructure.

CONFIDENCE

### Expanded Operating System Support

Presto 1.4 now runs on Windows Vista and Sun's Solaris 5.10 operating systems. Support for these two platforms means that Presto is now even more ready for enterprise mashup deployment in your organization.

## Mashups for Better Business Decisions

CREATE

### Improved EMML Readability and Ease of Use

The Presto Enterprise Mashup Markup Language (JMML) is a sophisticated method for developers to create powerful data mashups for use in business applications. With this release, we are increasing the EMML's ease of use and power. It is important to note that these JMML enhancements not only help technical developers code Presto data mashups, they also make it easier for JackBe and other software vendors, OEM's, partners, etc to create different user-driven mashup interfaces that leverage Presto enterprise mashup server. EMML readability/usability enhancements include:

- Standard approach to namespaces
- Easier declaration of output variables
- Implicit creation of output variables
- Eliminate need to delimit service invocation data with CDATA tagging

CREATE

### Improved Data Mashup Capabilities

Presto 1.4 improves Presto's ability to address two key enterprise mashup requirements:

1. Ad-Hoc, Dynamic Mashups
2. Inconsistencies in Source Services/Data

Through the use of dynamic expressions for filtering, Presto now has a very flexible method for building mashups that are ready to receive input variables. This means that a Presto mashup can be built to execute based on a variety of user-defined or situational events (e.g. changes in a stock value on a website or user input of a date range).

Presto 1.4 includes a new capability for developers to leverage powerful Xpath functions and logical operators in JOIN statements. By using functions in JMML commands such as JOIN, Presto supports requirements such as renaming column

fields (e.g. ADDR to Address) or replacing records values (Walmart to Wal-Mart) thereby allow JOIN mashups to take place. Other new MML enhancements include:

- Dynamic Expression Templates for Filtering Mashups
  - Create dynamic parameters or strings on the fly to filter data
  - Integration of filtering commands within the Invoke Statement
- Select Statement for faster vertical refinement of data
- More Powerful Join Mashups
  - Xpath functions are supported within the JOIN statement
  - Conditional Joins using logical operators

These features will become a framework for more powerful data normalization capabilities in future Presto releases.

#### CONSUME

### Web-Clipping Support

Presto's basic web-clipping feature allows Presto to consume data from web pages to be included in mashups. The feature is attained through the use of JMML.

## Richer Mashup Visualization

#### CUSTOMIZE

### Flash Charts & Google Map Mashlets

- Charting: Adobe Flash-based charts now available for richer, more compelling visualization of Presto data within Dash. Presto supports any type of UI, including Ajax and Flash. Users can select between the existing simple graphics (bar, line and pie charts) or the new Flash-based charts. You can also choose Flash or Basic charting use for individual mashlets.
- Google Map Mashlet: Google Maps are now supported, in addition to OGC's Web Mapping Service for more flexibility when creating map-based Mashlets.
- Colored Toolbar Tabs support further personalization by allowing users change the color of the tabs on their Web 2.0 desktop.

#### CUSTOMIZE

### Enhanced IDE Navigation & WYSIWYG

- The Preview tab in the JBML Model Editor can now be used as a visual design canvas. You can drag and drop widgets and their properties automatically update. If you change view and layout properties, this also updates the Preview.
- Drag & drop nodes in the JBML Model Editor to reorganize widgets.
- Expand All, Collapse All and Clear All buttons have been added to the Service Inspector view.
- A <jbform> node automatically added when starting a new JBForm.
- Drag and Drop widgets from the Gallery to the design area

CUSTOMIZE

### Easier IDE-Based Data Binding

- Bind operations or datasets automatically to the `onClick` property for Buttons. Simply drag either to the Button node.
- You can automatically add an operation to a JBForm by binding an output node in the Service view to a widget. This will add binding information as well as adding the operation.
- Drag operations anywhere in the Design tab canvas to add it to a JBForm. You no longer have to drop it on the JBForm node.
- Many new features have been added for Mashup Scripts.

CUSTOMIZE

### Pre-Population and Configuration Information Display

- Pre-population of server-alias information for operations added to a JBForm pointing to the local host.
- Binding information is now shown in the Design tab for operation input parameters and JBTable columns.
- The Design tab has improved its display of widget nodes as you add them. It now automatically expands to show children widgets. In addition, the Property tab automatically loads the properties for the current widget.
- The Presto License Manager now displays license expiration information when you open this with an existing license. You can choose to update the existing license with a new license.
- You can see Presto and Studio version information in the About Presto Studio window available from the Help menu.

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### Binding Framework Enhancements

- Binding always creates asynchronous connections.
- Use of relative binding expressions in widgets by defining the beginning portion of the expression in parent or ancestor container widgets.
- The `dataPath` property for JBTable columns has moved into cell editor elements to better support the variety of binding requirements based on the column type.
- The JBML Migrator will properly relocate binding expressions for JBTables in existing projects.
- A new syntax is available for binding one input parameter to an entire dataset (for complex object parameters).
- `PrestoOperation`, `DwrPrestoOperation` and `HttpOperation` APIs available through `JKB.delegate.JBFormDelegate`.
- The addition of Presto Connect APIs including:
  - `JKB.connect.Connection`
  - `JKB.connect.HttpConnection`



CUSTOMIZE

## Rules Validation & Other EAF Changes

- The Business Rule Engine has been added to EAF. Business rules are used to perform validations across a set of forms or objects. For example, a business rule can perform calculations or change the enabled or editable state of widgets. They are applied only when all required widgets for the rule have a value.
- Widget Groups, <widget-groups>, can now be used with JBForms. Widget groups allow you to define sets of widgets to which business rules should be applied. Widgets do not have to be contiguous.

*Please refer to the Presto 1.4 Release Notes for additional detail on enhancements, exceptions, and information related to resolved issues and known issues in Presto 1.4.*

## About JackBe

JackBe provides a new user-driven tier of integration technology to power enterprise mashups. The resulting value is increased business unit freedom to access and integrate data & collaborate in a new style featuring rich Web interaction. JackBe's standards-based Presto mashup platform unites the strengths of Ajax, SOA, & existing IT investments to help enterprise users be the killer app.