## **Delivering** Smarter Commerce



Social Commerce - Functions and Architecture

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### Outline

- V7 Social Commerce Function Overview
- Architecture



### Social Commerce Function Overview

- Social Community Integration in eCommerce
  - Product and category blogs
  - Photo gallery
  - Social profiles
  - Product reviews and ratings
  - Precision marketing Integration
- Prebuilt integration



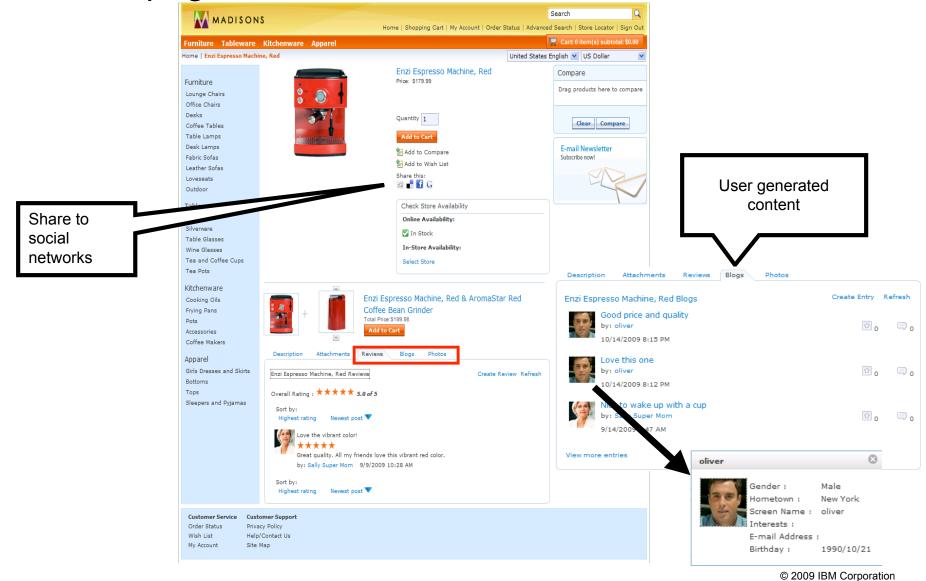
🎖 Pluck.



Customizable & Extensible



### Product page with social commerce



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### **Precision Marketing Integration**

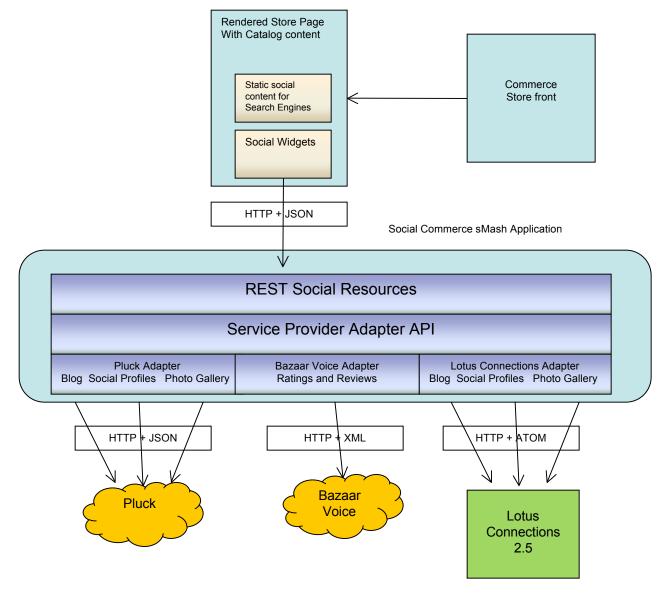
- Social participation events are published whenever registered shoppers create social content.
- These events will be used to provide input into the precision marketing engine.



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### **Social Commerce Architecture**



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### Back Lounge Chairs Blog **Social Widget Declaration** White Chaise is a great buy! 9/25/2009 6:38 AM The White Chaise chair is very comfortable and works with just about any decorating style. Great value for the money Inappropriate Content? Comments <div dojoType="ibm.social.Blog" This blog entry has been recommended 0 times. Recommend this entry? Thumbs title="Item Mode Blog" Write a comment resourceId="Sample Store Item Id"> • Built with Dojo 1.3 </div> reate The administrative policy of this site prevents content from displaying immediately. Dynamically rendered Enzi Espresso Machine, Red Reviews Create Review Refresh Overall Rating : \*\*\*\*\* 5.0 of 5 <div Sort by: dojoType="ibm.social.Reviews" Highest rating Newest post V Highly interactive with no page resourceld="Product SKU" Love the vibrant color! resourceType="items" \*\*\*\*\* transitions. Great quality. All my friends love this vibrant red color. itemDescription="Product Reviews"></div> by: Sally Super Mom 9/9/2009 10:28 AM Sort by: Highest rating Newest post 🔻 Opaque resource ids to map social content with a store item Upload Photo Refresh Fabric Sofas Photo Gallery <div dojoType="ibm.social.PhotoGallery" - category, product, wish list, etc. title="Item Mode Blog" Outstanding quali Just got it from . resourceId="Sample Store Item Id"> </div> Sally Super Mon Customizable with CSS 10/19/2009 3:16 PM 10/15/2009 9:52 AM 🖸 o 🗔 o 🖸 o 🗔 o <div Create an Online Community profile: dojoType = "ibm.social.Profile" \*indicates required fields profileAction = "Create" submitElementId="UserRegistrationAddLink" \*Screen Name: productionModeSubmit = "true"</div> \* E-mail Address: Hometown Birthday: <div yyyy/mm/dd dojoType="ibm.social.BookMarks" Gender: title="Sample Page Bookmark"> select one 💙 </div> Interests: Share this: 🗚 📑 🖬 G

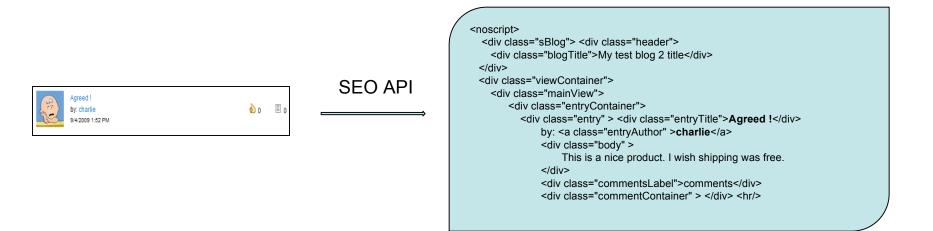
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The maximum character length is 150



### **SEO** Integration

- Cached social content
- Rendered in <noscript> tags
- Stylized for higher page ranking
- Can be indexed by search engines.
- Provides an accessible view of the data for screen readers, etc.





### **REST API**

- Isolates the widgets from the service providers.
- Provides multiple service types
  - Blogs, Photo galleries, Ratings and reviews, User profiles
- Defines a RESTful interface with HTTP and JSON
  - Stateless server
  - Uniform interface (GET/PUT/POST/DELETE)
  - Readable URLs
  - Allows caching of social content
  - JSON representation of resources

Blog					
REST API					
HTTP method	URI	Description	Data type	Query params	Authenticated user
GET	/blogs/ <blogid></blogid>	Retrieve a blog with a page of entries.	blog	pageSize, onPage	
POST	/blogs/ <blogid>/entries</blogid>	Create a new blog entry.	entry		x
GET	/users/ <userid>/entries</userid>	Retrieve a page of entries created by the user.	entryPage		
GET	/blogs/ <blogid>/entries/<entryid></entryid></blogid>	Retrieve an entry from a blog.	entry		
PUT	/blogs/ <blogid>/entries/<entryid></entryid></blogid>	Recommend a blog entry <b>OR</b> Report an entry as inappropriate	recommendation <b>OR</b> inappropriate		×
DELETE	/blogs/ <blogid>/entries/<entryid></entryid></blogid>	Delete a blog entry. Only valid for the user who created the entry.			×
POST	/blogs/ <blogid>/entries/<entryid> /comments</entryid></blogid>	Create a new entry comment.	comment		x
GET	/blogs/ <blogid>/entries/<entryid> /comments</entryid></blogid>	Retrieve a page of entry comments.	commentPage	pageSize, onPage	
GET	/blogs/ <blogid>/entries/<entryid> /comments/<commentsid></commentsid></entryid></blogid>	Retrieve a single entry comment.	comment		



### Service Adapter API

- Java API that can be implemented for multiple service providers
  - Provides a clean interface between the REST API and the individual service providers.
  - Allows developers to plug-in the adapter implementation without modifying the widgets or the REST API.
- Supports configurable user profiles
  - Each profile implementation is different.
  - This feature allows the adapter implementation to define the user profile fields that are presented to end users.



### Adapter Implementations

- We provide adapter implementations for three different service providers.
- Pluck
  - Blog, Photo Gallery, Profile
- Bazaarvoice
  - Reviews
- Lotus Connections 2.5
  - Blog, Photo Gallery, Profile



### **Useful Links**

- http://www.pluck.com/
- http://www.bazaarvoice.com/
- http://www.ibm.com/lotus/connections
- http://www.projectzero.org/
- http://dojotoolkit.org/
- http://en.wikipedia.org/wiki/Representational\_State\_Transfer



# Thanks !

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