

OpenAjax Face to Face

October 23, 2008

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Agenda at a Glance

■ Early morning

- Welcome - 9:00-9:30
- General/Admin - 9:30-10:00
- 2008 InteropFest - 10:00-11:15

BREAK - 11:15-11:30

■ Late morning

- OpenAjax Hub 1.1 and mashable widgets - 11:30-12:30

LUNCH - 12:30-1:30

■ Early afternoon

- OpenAjax Metadata - 1:30-2:15
- Registry/Conformance - 2:15-2:45

BREAK - 2:45-3:00

■ Late afternoon

- Mobile Ajax - 3:00-3:30
- Mashup single-signon - 3:30-4:00
- Other future activities - 4:00-close

Agenda: Early morning

- **Welcome: 9:00-9:30**
 - Welcome and orientation
 - Mutual introductions
 - Introducing the new Steering Committee
- **General/Admin: 9:30-10:00**
 - Short slide deck summarizing current activities
 - Discussion: WG Charters all expire in December 2008
- **2008 InteropFest 10:00-11:15**
 - Review who did what
 - Show and tell

Welcome

- Welcome and orientation
- Introducing the Steering Committee
 - Just elected (2008-2010)
 - *Kevin Hakman, Aptana*
 - *Kris Zyp, Dojo Foundation*
 - *Mike Milinkovich, Eclipse Foundation*
 - *David Boloker, IBM (chair)*
 - Elected last year (2007-2009)
 - *Bertrand Le Roy, Microsoft*
 - *Coach Wei, Nexaweb (transitioning to ...)*
 - *Howard Weingram, TIBCO*
- Mutual introductions

General/Admin: 9:30-10:00

- Short slide deck summarizing current activities
- Discussion: WG Charters all expire in December 2008

Summary of recent & current activities: Specifications

■ OpenAjax Metadata

- For IDEs (IDE WG)
 - *XML format to describe JavaScript APIs from an Ajax library*
 - *XML format to describe widgets from an Ajax library*
- For mashups (Gadgets TF)
 - *Extends the widget format to support “mashable widgets”*
 - Markup: <topic>, <property publish= subscribe=>, jsClass=, ...
 - APIs: getHubConnectionHandle(), publish(), subscribe(), getPropertyValue(), setPropertyValue(), adjustDimensions(), ...

■ OpenAjax Hub 1.1

- Builds on Hub 1.0 to provide client-side engine for secure mashups
 - *Sandboxes widgets (IFRAMEs in different domains)*
 - *Plugin providers for cross-widget communication*
 - *Plugin security manager for mashup host*

Summary of recent & current activities: Open Source

- **OpenAjax Hub 1.1**
- **OpenAjax “Reference Implementation”**
 - Open source mashup editor (very simple)
 - Implements “mashable widgets” features from OpenAjax Metadata
 - ~20 sample widgets of various types
 - Includes Hub 1.1
 - Includes Google Gadgets adapter
 - Includes widget repository (based on OpenSearch)
- **OpenAjax Metadata schema and validator**
- **OpenAjax Metadata generators**
 - JSDoc to OAM
 - YUI to OAM

Summary of recent & current activities: Mobile Ajax

- Mobile Ajax = Full Ajax running on mobile phones
- White paper: Introduction to Mobile Ajax for Developers
- Mobile Device APIs
 - Open source JavaScript to access GPS, camera, address book, SMS, ...
 - OpenAjax fast-track efforts in April-June, followed by “technology transfer” to OMTP
 - http://www.openajax.org/member/wiki/Mobile_Device_APis
 - Now is close collaboration with OMTP
 - http://www.openajax.org/member/wiki/Mobile_Device_APis_Style_Guide

Shaping the Future of Ajax Ecosystem

- **Ajax industry browser wishlist initiative**
 - April – July, 2008
 - 222 participants, including many industry leaders
 - 55 separate feature requests described and discussed on wiki
- **Top feature requests**
 - 2D Graphics
 - Security (better prevention of XSS and CSRF)
 - Improved low-level DOM hooks for visual layout
 - DOM performance
 - Rich text editing
 - Server push (Comet)
 - Video and audio

Marketing, Education and Evangelism

- **White papers (republished in AJAXWorld online & print)**
 - Introduction to Mobile Ajax for Developers
 - Good News for Ajax – the Browser Wars are Back
- **Industry conferences**
 - JavaOne, OSCON, Mobile Widget BarCamp, OSiM, RWE, Ajax Experience, AJAXWorld, ...
- **Press release this week about InteropFest**
 - Quotes from 12 companies
 - *Including Adobe talking about using OpenAjax widgets as its native widget format in Dreamweaver CS4*
 - Articles by eWeek, Infoworld and others
- **OpenAjax Pavillion at Mashup Camp on Nov 17**

General & Administrative Topics

■ Working Group Charters

- Charters for Marketing WG, Interop WG and IDE WG all expire at end of 2008

■ Proposals

- Don't extend Marketing WG
 - *Demote to a task force*
 - *Can restart at any time when needed*
 - *Preserve marketing@openajax.org*
 - *Move OpenAjax Conformance into Interop WG*
 - *Each WG needs to address its own marketing needs*
- Recharter Interop WG to finish Registry and Hub 1.1
 - *Through end of 2009*
- Recharter IDE WG to finish OpenAjax Metadata spec
 - *Through end of 2009*
- Charter a new Mashup WG?
 - *Depends on later discussion*

■ Other possible WGs: Security (single sign-on) and Mobile

2008 InteropFest

2008 InteropFest

■ What & when

- Implementation experience with OpenAjax Metadata and OpenAjax Hub 1.1
 - *IDE workflows*
 - *Mashup workflows*
- August – October, 2008

■ Participants

- Adobe, Aptana, the Dojo Foundation, the Eclipse Foundation, Google, IBM, ILOG, Lightstreamer, Nexaweb, ProgrammableWeb, SAP and TIBCO
- Motivation: help make OpenAjax more successful (and maybe in some cases, participation in press release)

InteropFest: OpenAjax open source

- **OpenAjax Hub 1.1**
- **OpenAjax “Reference Implementation”**
 - Open source mashup editor (very simple)
 - Implements “mashable widgets” features from OpenAjax Metadata
 - ~20 sample widgets of various types
 - Includes Hub 1.1
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 - Includes widget repository (based on OpenSearch)
- **OpenAjax Metadata schema and validator**
- **OpenAjax Metadata generators**
 - JSDoc to OAM
 - YUI to OAM

InteropFest show&tell

BREAK

Agenda: Late morning

- OpenAjax Hub 1.1 and mashable widgets: 11:30-12:30
 - Review current status
 - Discuss topics that have come up during InteropFest
 - Discuss next steps

Hub 1.1 topics from InteropFest

- **Server-side widgets**
 - How to listen for client-side events and send to server
- **Latecomer widgets missing earlier events**
 - Solved if you use <property> instead of <topic>?
- **Scope for callbacks**
 - Refimpl uses dojo.hitch()
- **An initial set of standardized event names?**
 - Are there 5-10 commonly used topics we can standardize?
- **What about widgets that require login and authentication**
 - Proposal: punt on this for now (makes widget developers do the work)
- **Reconciliation with Google Gadgets 0.8 rpc**
 - Emulate rpc in future version of OpenAjax Hub?
- **How to package Hub 1.1**
 - Core (<3K) plus optional mashup runtime engine? (~50K)
- **Would help to implement a recommended security manager**
- **Rename to Hub 2.0?**

Hub 1.1 tasks to completion

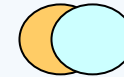
- **Providers**
 - window.name support
 - postMessage support
- **Complete the test suite, including various tests to verify security**
- **Review against feature requirements of existing mashup products**
 - E.g., Lotus Mashups
- **Review against Gadgets/Shindig open source to make sure we aren't missing any key features**
- **Review timeout logic to make sure it is suitable for commercial products**
 - In refimpl, sometimes error message comes up when adding widgets if server is slow
- **Analyze performance**
- **Complete Hub 1.1 spec**

Next steps: Proposal

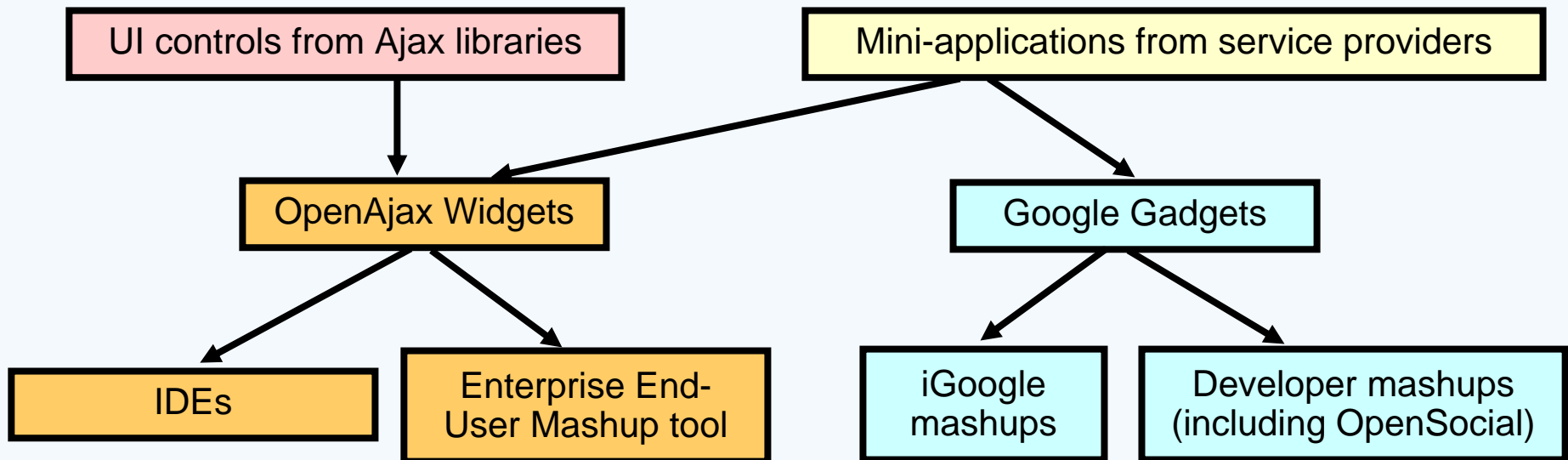
- **Fast completion of Hub 1.1**
 - Accelerated discussion and resolution of technical issues that have come up during InteropFest
 - Accelerated completion of tasks (window.name and postMessage) and test suite
 - Drive to completion in early 2009
- **Work towards reconciliation of OpenAjax mashable widgets with Google Gadgets**
 - Separate out "mashable widgets" into a separate add-on spec versus "standalone widgets" (used by IDE workflows)
 - Analyze relationship and develop reconciliation strategy with similar work at Google Gadgets, OpenSocial, and Shindig

Reconciling OpenAjax with Google Gadgets

For mashable widgets, large feature overlap



But there are non-trivial differences in primary target workflows and historical constraints:



High-level features shared by GGadgets 0.8 and OAWidgets

- Gadget can be either an HTML snippet (i.e., a DIV) or a URL (with urlparams passed to the given URL)
- Usually requires a server to manage the mashup (Shindig in the case of GG)
- Support for additional resource files referenced from the main XML file
- Gadget properties, with automatic generation of a property editor dialog to customize each gadget instance, and property persistent across sessions
- "RPC-like" Pub/sub APIs - APIs to send and receive cross-widget messages (OpenAjax does this using Hub 1.1)
- Localization using message bundles (OpenAjax adopted the GG localization technology)
- Multiple views (OpenAjax designed its view features to align with GG views)
- Metadata (OpenAjax metadata attempts to be a superset of GG metadata)

Features in GGadgets 0.8 that are not in OAWidgets

- They have features around OpenSocial integration.
- They have both a Java and PHP versions of the server logic. (We just have a PHP version last I heard.)
- GG has OAuth support.
- GG has a series of optional "features" that provide advanced functionality, such as tabs and Flash integration.
- They have test cases to verify the correctness of their PHP and Java code. (We just have PHP code so far.)
- They have implemented cross-widget message transport using FIM, HTML5 postMessage and window.name. (OAA has implemented FIM and inline and plans to implement postMessage and window.name shortly)

Features in OAWidgets that are not in GGadgets 0.8

- Various mashup security features, such as anti-phishing logic and hooks for a mashup-tool-specific security manager. (This area needs further research. Didn't see anything about subdomain isolation.)
- Inline provider for high-performance option for trusted widgets (e.g., widgets developed by your company's IT department)
- XML declarative info about topics so that a tool can present a GUI to user to control message passing among the widgets (GG appears to make all properties "shareable")
- Custom property editors
- Passing any sort of object as the message payload. (I believe GG only supports strings, but this needs to be checked)
- APIs to help query and adjust width/height of gadget
- Declarative `<require>` framework to identify the resources needed by the gadget
- Ability to share one version of an Ajax library (e.g., Dojo) across multiple gadgets
- More bells and whistles for properties
- Inclusion mechanism to share gadget XML across a group of widgets
- OpenSearch integration for attaching to other widget repositories

Reconciling OpenAjax with Google Gadgets

- Industry wants us to unify
- But we need to keep OpenAjax “standalone widgets” as is
 - Already shipping with Dreamweaver
- Proposals
 - Separate out the “mashable widgets” features into a separate add-on spec
 - *Supplemental spec for “mashable widgets” on different schedule than “standalone widgets”*
 - *Would require chartering a WG (e.g., Gadgets TF -> Mashups WG)*
 - Work on detailed proposals for how to reconcile OpenAjax Widgets versus what’s going on with Google Gadgets, OpenSocial and Shindig
- Some initial thoughts on how to reconcile:
 - Specs:
 - *Mods to OpenAjax mashable widgets spec to increase alignment with Gadgets*
 - *Enhance Google Gadgets to support OpenAjax “Enterprise features”*
 - *For remaining differences, namespace extensions to Google Gadgets and OpenAjax widgets*
 - Open source:
 - *Shindig adds OpenAjax widget support as alternative format*
 - *OpenAjax open source improves support for Gadgets*

LUNCH

Agenda: Early afternoon (1 of 2)

- **OpenAjax Metadata: 1:30-2:15**
 - Review current status
 - Discuss next steps
- **Registry/Conformance: 2:15-2:45**
 - Review current status
 - Discuss Jon's proposal about turning Registry into a self-service utility

OpenAjax Metadata: Proposal

- **Rename to OpenAjax IDE Metadata Specification (NO!)**
 - Focused on Ajax library metadata that feeds into Ajax IDEs
 - *JavaScript API metadata (align with what Aptana/JSDT support)*
 - *UI controls from Ajax libraries (align with what Dreamweaver supports)*
- **Put mashable widgets feature into separate follow-on spec**
- **Drive to quick completion (early 2009)**
- **Tasks before completion**
 - Careful review of how leading Ajax toolkits map into OAM (e.g., YUI)
 - Review Tom Trenka's XML format for Dojo (might result in changes to metadata spec)
 - Review which features from metadata spec are actually getting used, drop the ones that won't be used
 - Complete editorial work on the spec

Registry/Conformance: Proposal

- Turn Registry into a self-service utility
- Move OpenAjax Conformance into Interoperability WG
 - From Marketing WG
- **Next steps**
 - Tweak Registry and Conformance specs to reflect self-service idea
 - Implement self-service web service software (mediawiki extension?)
 - Review, discuss, fix the software
 - Review, discuss, finalize, approve Registry and Conformance
- **Timeline: As time permits (vs Hub 1.1 & Metadata tasks)**

BREAK

Agenda: Late afternoon

- **Mobile Ajax: 3:00-3:30**
 - Review Mobile Device APIs status (particularly, BONDI and W3C liaison)
 - Introduce and discuss Mobile Ajax Ready idea
- **Mashup single-signon: 3:30-4:00**
- **OpenAjax future activities: 4:00-close**

Mobile Ajax White Paper

- Collaboration of experts from ~15 companies
- For Web/Ajax developers who are new to the Mobile Web
- Describes special issues
 - Small screen size, limited keyboard, slower processors, etc.
- Describes new possibilities
 - Web access any place, any time
 - Location-aware, telephony integration, PIM integration, camera, ...
- Substantial discussion of “tips for success”

Mobile Device APIs

- **Workshop on Mobile Ajax**
 - <http://www.w3.org/2007/06/mobile-ajax/>
 - Co-sponsored by W3C and OpenAjax Alliance
 - Key takeaway about device APIs
 - *Industry wants to use Web Runtime on mobile devices*
 - *Need to integrate with device resident services (phone dialer, current location, address book, etc)*
 - *Many proprietary device APIs today – we need to bring industry together*

- **Mobile Device APIs at OpenAjax**
 - Fall 2007: due diligence on what exists today
 - March-May 2008:
 - *Fast track effort to collect use cases, requirements, and security implications*
 - June 2008 and after
 - *Collaborate/partner with OMTF*
 - *Mobile Device APIs style guide: how Ajax world wants its APIs to look*
 - http://www.openajax.org/member/wiki/Mobile_Device_APIS

Mobile Ajax Ready

IBM and Vodafone will be hosting a half-day meeting the morning of **Nov. 5 in San Francisco** where industry leaders will present ideas and work towards consensus about how best to shape the future of the Open Web on mobile devices such that:

- (1) the next-generation of innovative mobile applications building on open technologies will get to market as quickly as possible
- (2) mobile developers (web, widget, and installed applications) will realize as close to a **write-once, run-anywhere value proposition** across a wide range of mobile devices

The goal is to raise the least-common-denominator Ajax functionality, push the mobile industry towards interoperability, and do all of this on an accelerated timeline. One of the proposals that will be discussed is whether it makes sense for the industry to establish a **"Mobile Ajax Ready" conformance brand, along with a series of "acid tests" that can be used to verify conformance.**

The ultimate "customer" to benefit from this work would be Ajax developers: the people who are creating Ajax-powered web pages, Ajax-powered widgets, or installed mobile applications that use HTML and JavaScript to deliver the user experience.

Mashup single-signon

- IBM is interested in developing industry solutions around single-signon and delegation
- Enterprise mashups need features beyond what OAuth provides
- Comments?

OpenAjax future activities

- **Going forward**
 - Continue to work on Ajax tooling initiatives
 - *OpenAjax Metadata for (standalone) widgets and JavaScript APIs*
 - *Maybe: Open source refimpl that consumes JavaScript APIs?*
 - Continue to work on mashup initiatives
 - *OpenAjax Hub 1.1*
 - *OpenAjax Metadata for mashable widgets*
 - Finish Registry and Conformance
 - Continue to collaborate with OMTP on device APIs
 - Perhaps an initiative around single sign-on
 - Perhaps an initiative around Mobile Ajax Ready
 - Anything else?
- **Otherwise, wait for activity proposals from the industry**

THANK YOU!!!