RIA Meets Enterprise SOA

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Rich Internet Applications

Rich Internet applications (RIA) are web applications that have the features and functionality of traditional desktop applications. RIAs typically transfer the processing necessary for the user interface to the web client but keep the bulk of the data (i.e maintaining the state of the program, the data etc) back on the application server.

http://en.wikipedia.org/wiki/Rich_Internet_application# History_of_RIAs

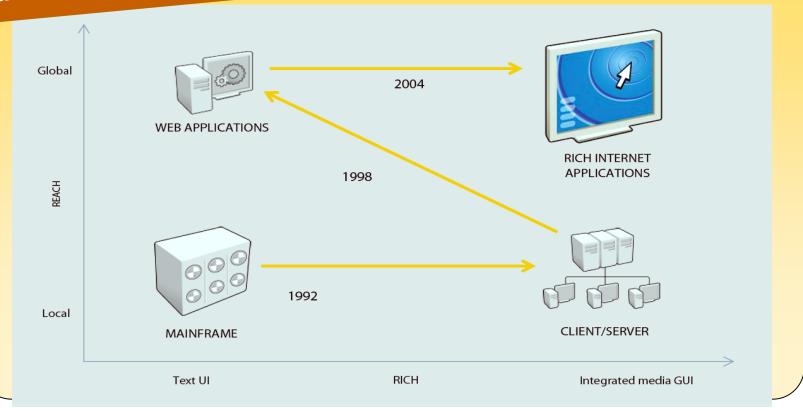


What are Rich Internet Applications

- Expressiveness
- Rich media integration
- Performance / Responsiveness
- Real time
- Offline
- Deep back-end integration
- Web deployment model



Evolution: RIA



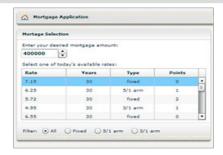
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Few RIA Examples



Data visualization



Business applications



Collaborative media experiences



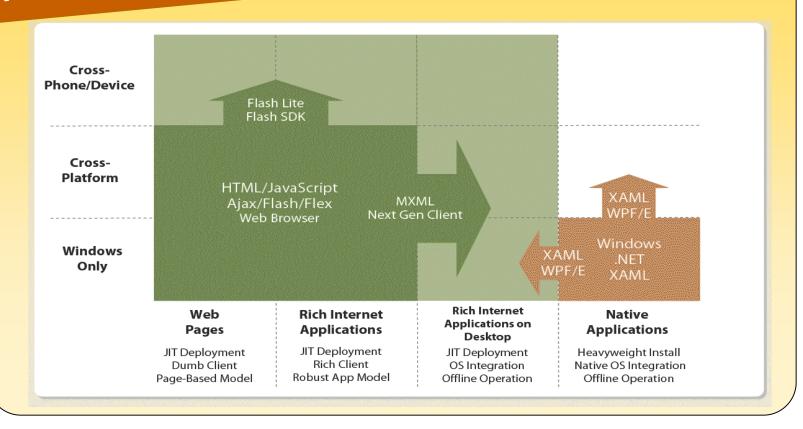
Guided self-service

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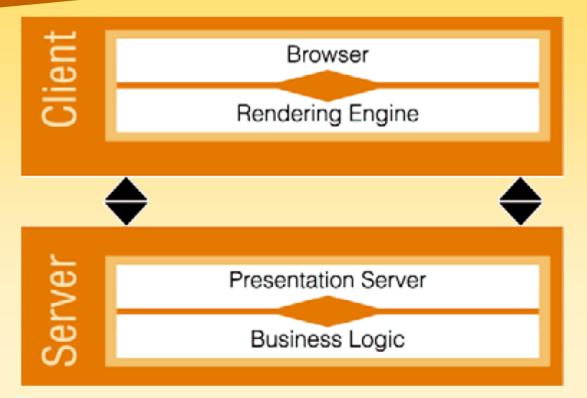


RIA Technology Trends





Typical RIA Structure



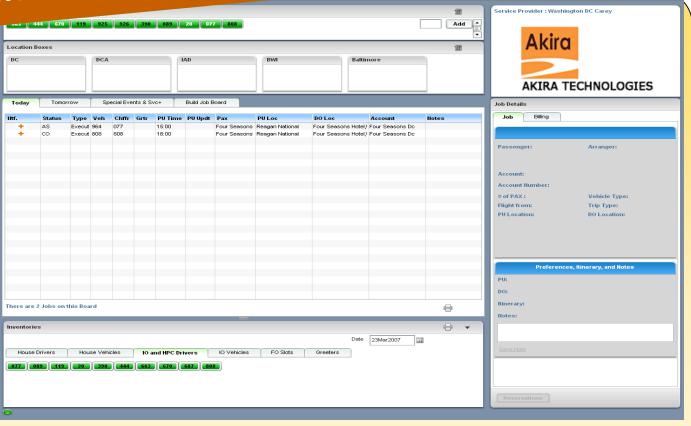


New Possibilities

- RIA as the face of SOA
- RIA as SaaS (Software as Service) enabler
- Defining UI Capabilities of MASHUPS



RIA as the face of SOA



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RIA as SaaS Enabler ppexchange Sales Setup · Help & Training · Logout v nues Reports Dashboards Documents Products Forecasts Srinivas Chennamaraja at Akira Technologies, Inc Friday March 23, 2007 Search Search All Dashboard Customize Page Limit to items I own As of 3/23/2007 11:24 AM Advanced Search... # Completed Activities Information Added to Salesforce Users Logged In Last 7 Days # of Accounts Create New... . Record Count Assigned Recent Items © 00001002 **Custom Links** Add/Remove Users March 2007 Created Date • Import Contacts Sum of Active Outlook Edition • Email Templates My Email Settings Mass Email Edit Custom Links Overdue Messages and Alerts Edit Message and Alerts You have no open tasks scheduled for this period. Recycle Bin Calendar Today 3/23/2007 ■ March 2007 Sun Mon Tue Wed Thu Fri Sat You have no events scheduled for the next 7 days. 25 26 27 28 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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So what's a SOA and where does RIA fit?

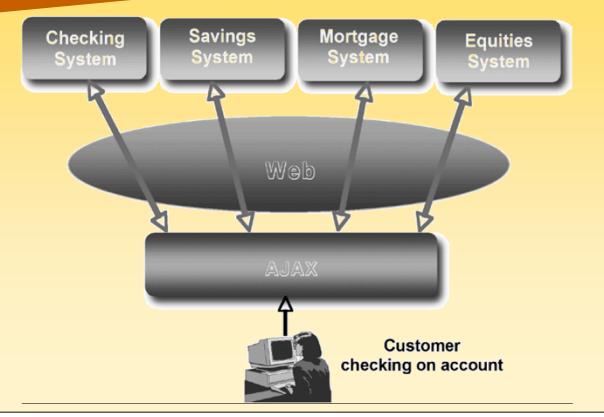
- SOAs are like snowflakes
 No two are alike.
- -SOA is strategic framework of technology that let all interested systems, inside and outside an organization, expose and access well-defined services, and information bound to those services, that may be further abstracted to orchestration layers, composite applications, and interfaces to solution development.



SOA Logical Architecture Interface Orchestration/Processes Enabling Technology Standards **Abstract Services Data Services New Services Legacy Services Platforms and Messaging** Network



Interface Layer





RIA Platforms: The Major Choices

- Java Applets
- Adobe Flex
- OpenLaszlo
- Microsoft Windows Presentation
 Foundation (WPF)
- Ajax



Adobe Flex 2

Flex 2 apps run cross-platform in a ubiquitous Flash Player 9 that's a lightweight virtual machine. The platform includes:

- MXML
- ActionScript 3.0
- Flex Data Services
- Charting and Multi MediaComponents
- Eclipse-based IDE



Ajax

- Stands for Asynchronous JavaScript and XML
- The term was Coined By Jesse James Garret in 2005
- XmlHttpRequest Object



Ajax Toolkits: Commercial

- Backbase
- JackBe
- Tibco General Interface
- Nexaweb
- ICESoft
- Bindows



Ajax Toolkits: Commercial

Four Aces of AJAX These four SDKs are closely matched in capabilities. The main differences lie in server-side support and fine points such as visual editing and debugging.

	Browser support	Server platforms	Visual editing tool	Debugging support
Backbase 3.2	Internet Explorer 5+ on Windows, Firefox 0.8+ on any platform, Mozilla 1.5+ on any platform, Netscape 7.2+ on any platform, Camino 0.8+ on Mac OS X; support for Opera and Safari forthcoming	Client application works with any stan- dard Web server; additional integration with Java-based frameworks, including JSF and Struts available	Basic interactive Web page compiles and displays Backbase XML	Integrated
Bindows 2.5	Internet Explorer 5.5+ (on Windows), Mozilla 1.4+, Netscape 7.1+, Firefox, K-Meleon, Camino, Opera (partial support); Safari support forthcoming	Static XML, HTML, and JavaScript can be delivered from any standard Web server	Basic interactive Web page compiles and displays Bindows XML	None; Firebug recommended
JackBe NQ Suite 4.6.1	Internet Explorer 5.5 and later, Firefox, Netscape, Safari	Basic client works with any standard Web server; forthcoming Presto will link together Web services in the server farm and translate them into JackBe's JSON protocol	Yes, Eclipse-like IDE	None; Firebug recommended
Tibco General Interface 3.2	Internet Explorer 6 and Firefox 1.5; IE 7 support forthcoming	Web services and Tibco's Web service bus	Yes, Eclipse-like IDE	New step-through debugger for Internet Explorer; Venkman recommended for Firefox

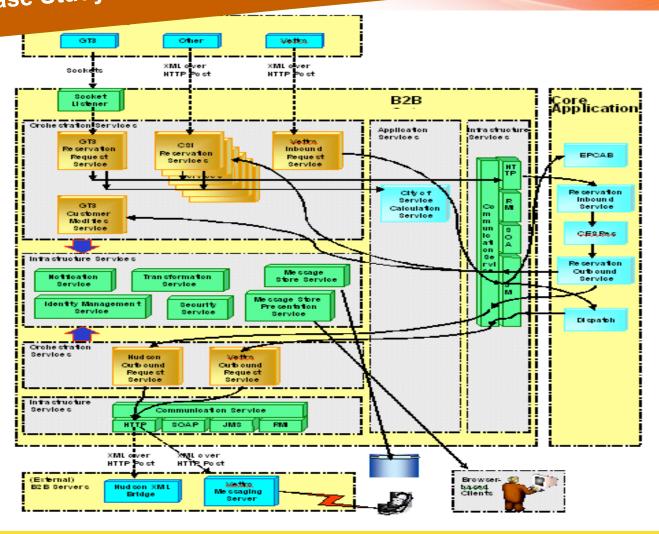
Source: InfoWorld



Ajax Toolkits: Open Source

- Dojo Toolkit
- Google Web Toolkit (GWT)
- Microsoft Atlas
- Open Rico
- Yahoo Ajax Library
- Zimbra Kabuki

Case Study: Transportation Company



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