



Lotus Connections – The WebSphere Perspective

UK WebSphere User Group - 17th September 2008

Adrian Spender, Karim Heredia – Lotus Connections Development

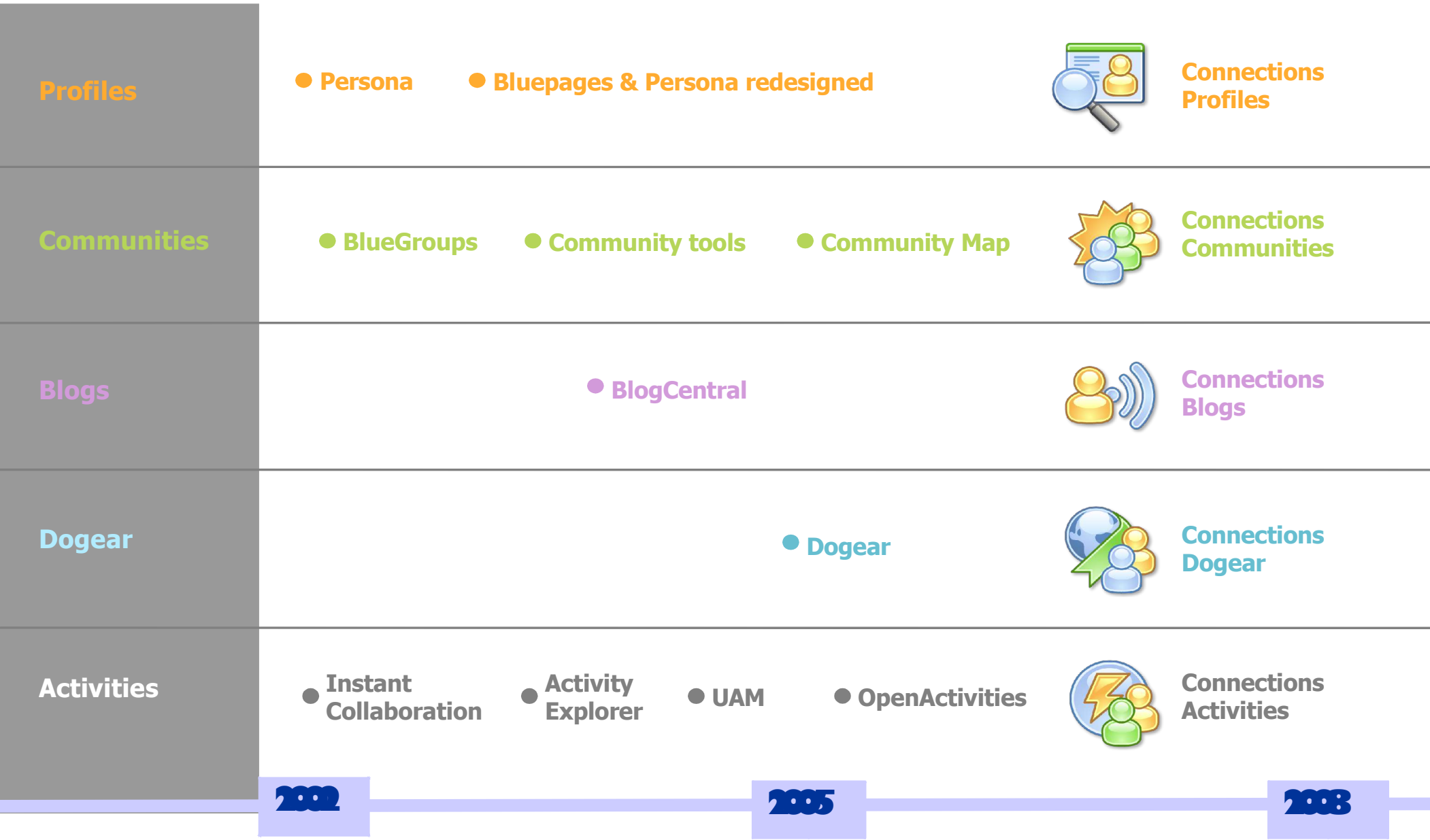


Agenda

- Introduction to Lotus Connections
- Deployment
- APIs and extensions



IBM's internal innovations





Increasingly, workers of all roles and ages find themselves “virtual”

- 83% of IT Executives consider their company to be a **virtual workplace** (up from 57% in 2006)
- 91% of employees work in **locations** other than headquarters
- The number of **virtual workers** has increased by 800% from 2000-2005



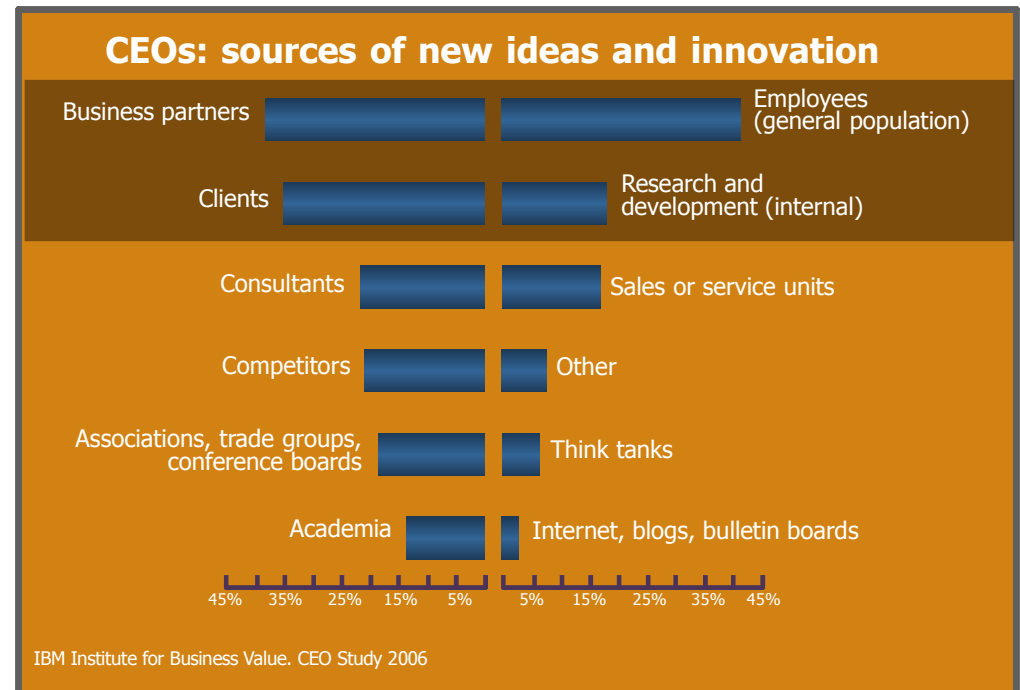
**We connect more often across the Web than
across the table**

Source: Building the Successful Virtual Workplace, 2007,
Getting a Grip on Collaboration, 2005
Nemertes Research Inc.



Demand for growth drives social software adoption

- Survey show innovators grow faster
- 75% of CEOs indicated that collaboration was important to innovation
- Top sources of innovation were business partners, employees and customers
- To thrive in this environment companies must:
 - ≡ Weave communities into the product development process
 - ≡ Execute those innovative ideas quickly

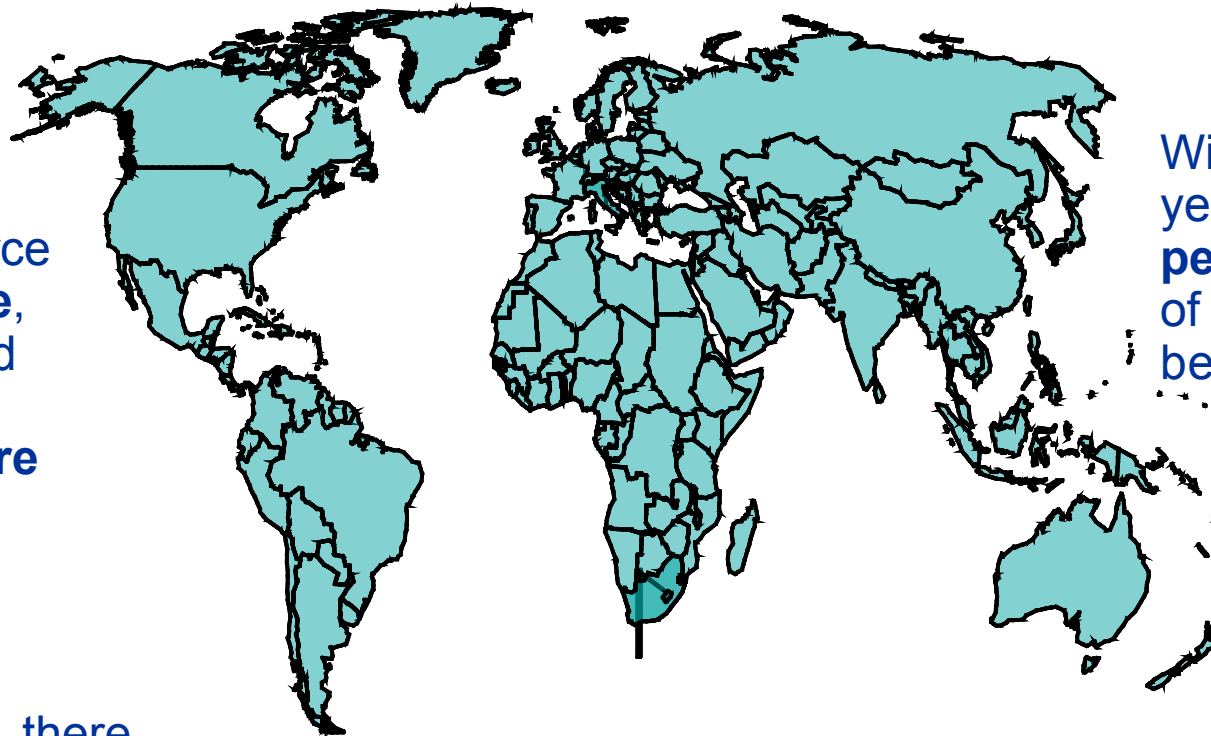


“Six months after a management consulting firm lost a lucrative contract with a large financial institution, it learned that another internal group had worked on a project with the prospective client and had in-depth knowledge of its business operations....”

—Kate Ehrich, IBM Research



Changing demographics



19% of the entire American workforce holding **executive, administrative and managerial positions will retire in the next five years**

In the year 2000, there were more people **receiving pensions in Italy than people working** (22 versus 21 million)

Within the next seven years, **33 million people** in Japan (26% of the population) will be **over 65 years old**

Source: Beazley, et. al, *Continuity Management*, Mackay, Alan. "Mature Age Workers: Sustaining Out Future Labor Force." An Ageless Workforce - Opportunities for Business' Symposium Conference Paper. August 27, 2003. www.ageing.health.gov.au/foa/wlplan/aawpapers.htm, Time to act quickly on aging." The Japan Times Online. August 23, 2002 www.japantimes.co.jp/cgi-bin/getarticle.pl5?ed20020823a1.htm, A. Paulli, "Pension systems and gradual retirement in Italy", September 2000, p.17.



How to find the right people and information?

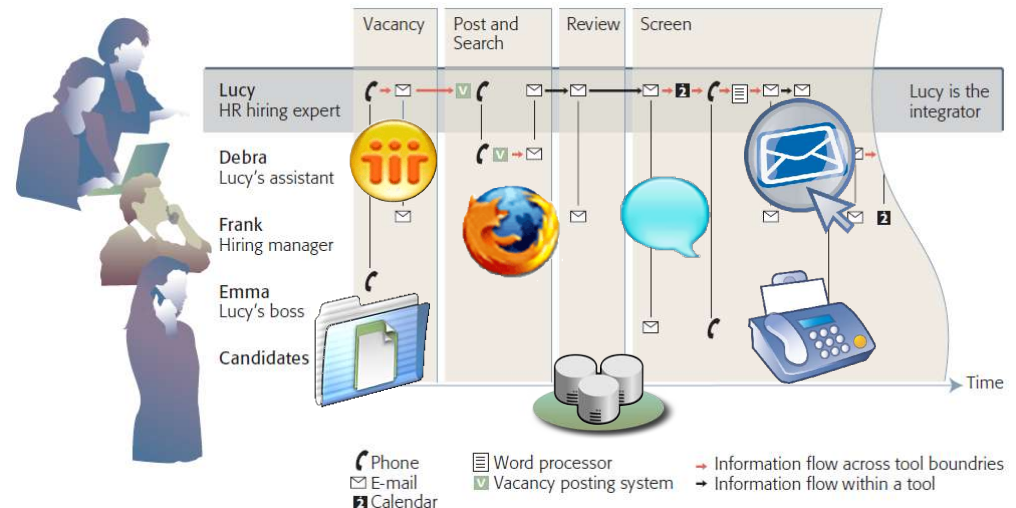
- Work environments are more complex
- Work environments are more disconnected
- More interactions with unknown people





Need to improve business execution and reuse best practices

- Most work today involves **dynamic processes** being delivered by **dispersed groups** of people
- Making **business decisions** involves more than just traditional IT applications
 - ≡ Emails / Faxes / Forms
 - ≡ Instant Message Chats
 - ≡ Team Discussions
 - ≡ Web Pages, Documents, Presentations, or Spreadsheets
 - ≡ Web Conferences
- People need **simple ways** to structure **adhoc activities** and **harvest best practice** templates for the future

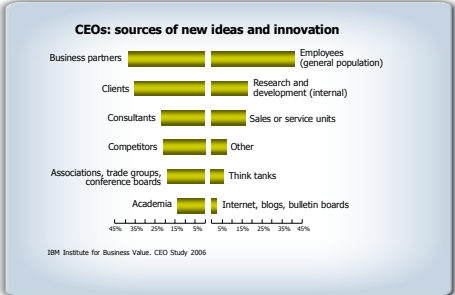


Adapted from: *C. Hill, R. Yates, C. Jones, S. Kogan, *Beyond predictable workflows: Enhancing productivity in artful business processes*, IBM Systems Journal, Vol. 45, No. 4, 2006, <http://www.research.ibm.com/journal/sj/454/hill.html>



If these are the needs, what's the solution?

Need for Innovation

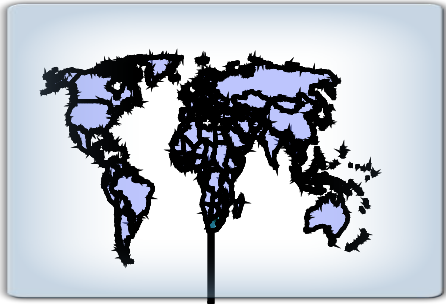
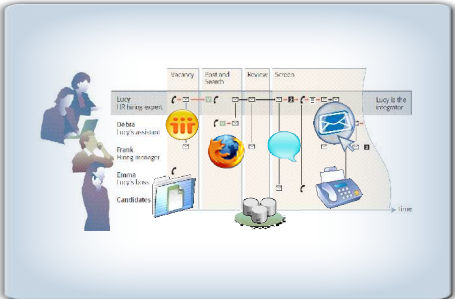


Need to Connect



Enterprise social software will be the biggest new workplace technology success story of this decade. 30% of enterprises will openly sponsor internal...social sharing spaces to help employees find others with similar interest, skills, backgrounds and experiences.

- Gartner, "Predicts 2007 – Big Changes Ahead in the High Performance Workplace", Dec 5, 2006

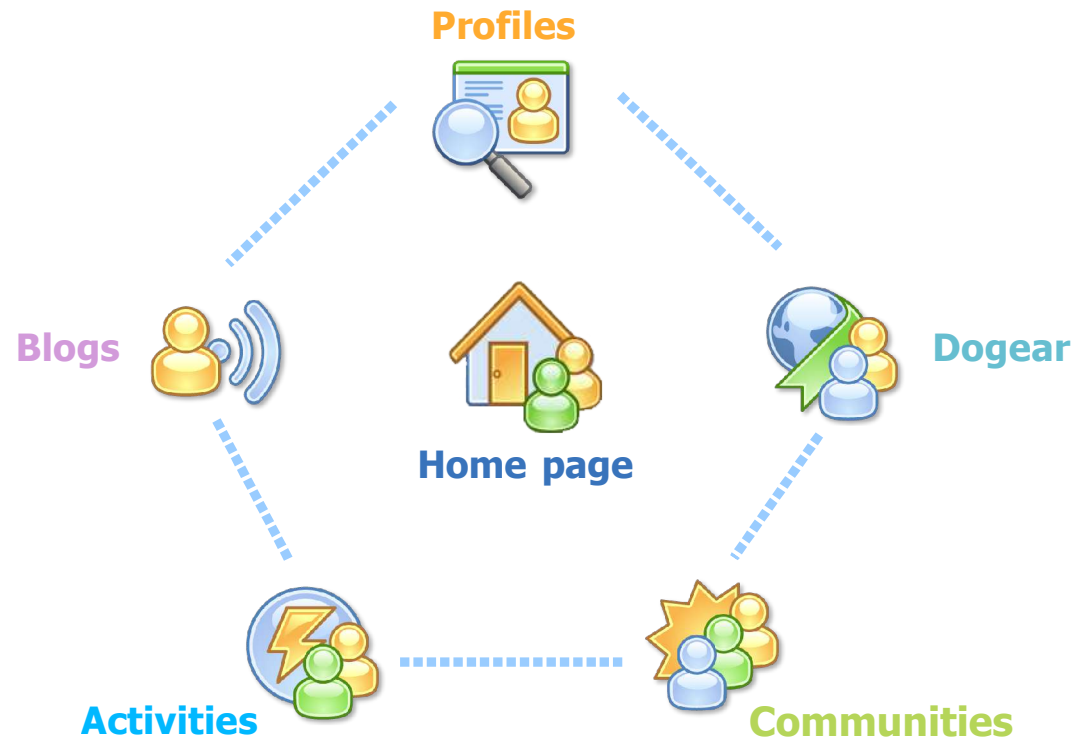




Lotus Connections social software

Lotus Connections social software for business **empowers you** to be more **innovative** and helps you **execute** more quickly by using dynamic networks of **coworkers, partners** and **customers**.

Lotus Connections





Lotus Connections provides five key services



Profiles

Quickly find the people you need by searching across your organization using keywords that help identify expertise, current projects and responsibilities



Communities

Create, find, join, and work with communities of people who share a common interest, responsibility, or area of expertise



Blogs

Use a weblog to present your idea and get feedback from others; learn from the expertise and experience of others who blog



Dogear

Save, organize and share bookmarks; discover bookmarks that have been qualified by others with similar interests & expertise



Activities

Organize your work, plan next steps, and easily tap your expanding professional network to help execute your everyday deliverables, faster



Lotus Connections at work in IBM

COMMUNITIES

Houses **361 public communities**, **154 private communities** with over **3,800 unique members**.



DOGEAR

Home of over **364,351 bookmarks** with **917,562 tags**. Serving a contributor population of 11,597 with enterprise search access to all IBMers.



PROFILES

Holds over **514,000 profiles** and is the hub of user requests & all applications authentication for IBM.



HOME PAGE



ACTIVITIES

Enables ad hoc collaboration with over **29,735 active activities** for **56,633 users**.



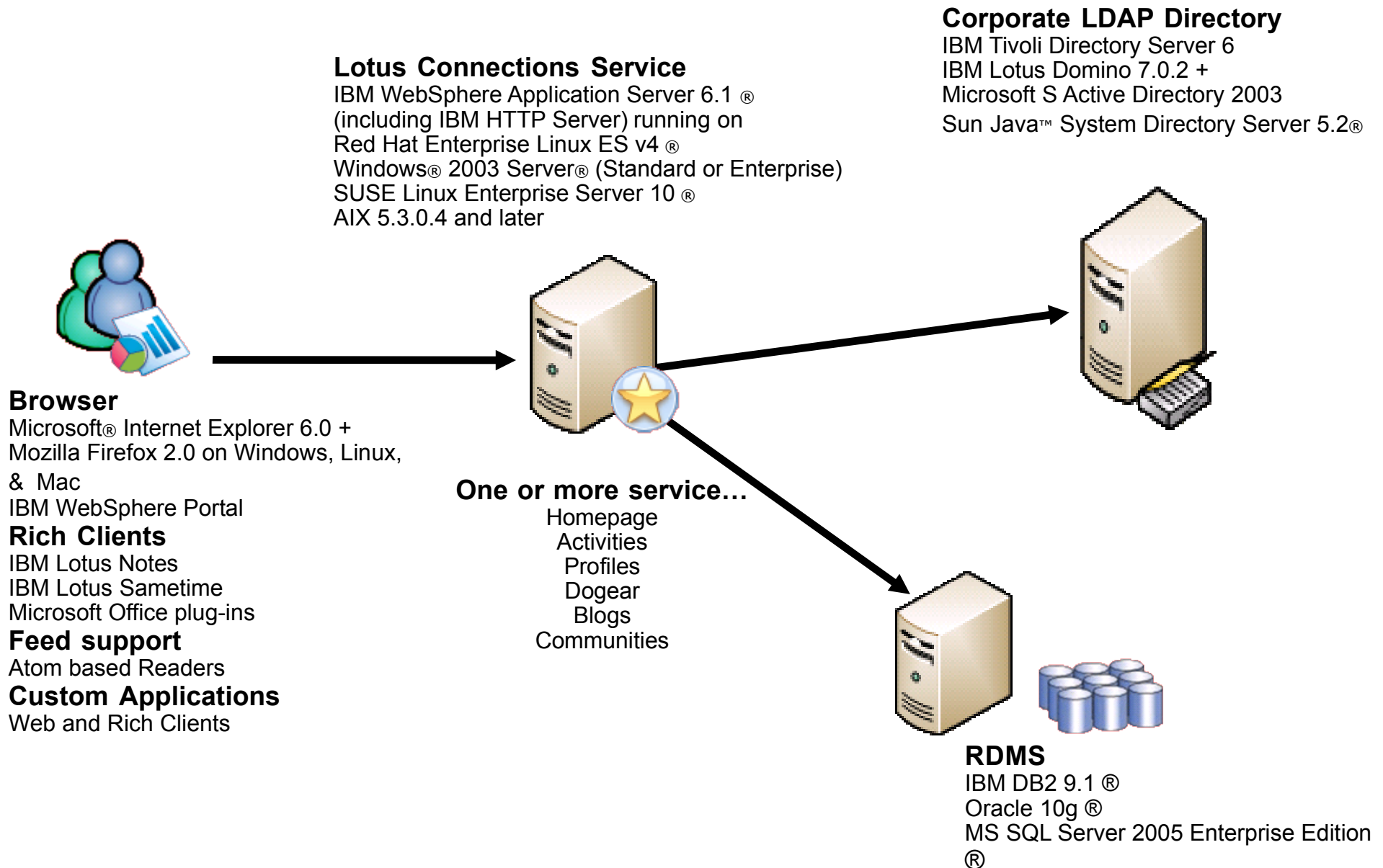
BLOGS

Hosts **10,847 weblogs**, **89,682 entries** with **37,349 users** and **18,758 tags**. Used by IBMers as a source of idea and information sharing.

**Connecting and empowering IBMers
so they can respond faster using innovative solutions**



Lotus Connections functional topology



Self contained pilot

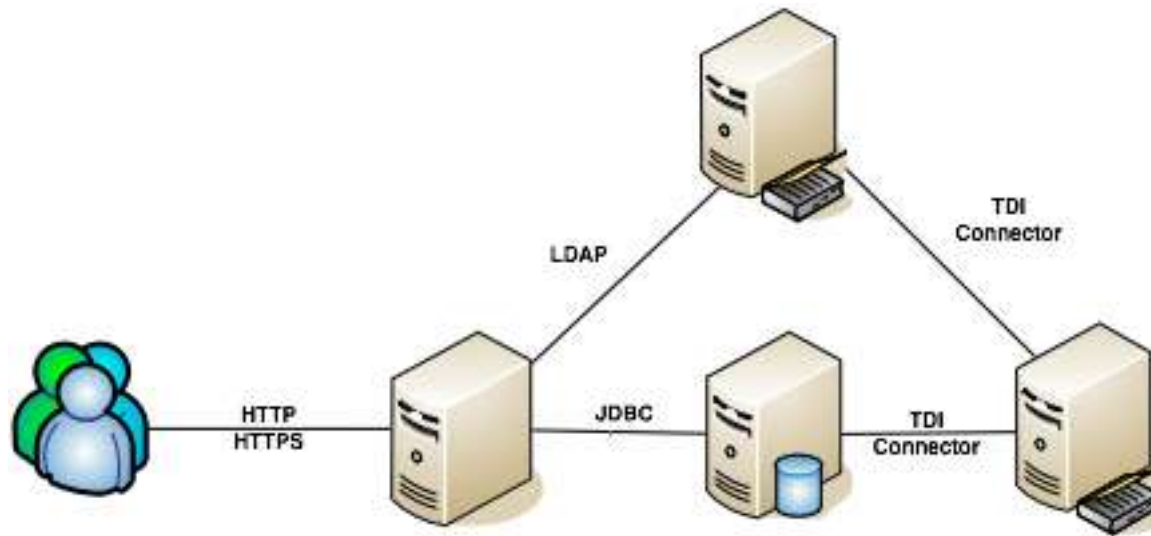


- Supports only Windows 2003.
- Installation installs WAS 6.1.0.3 and DB2 Express.
- No LDAP is installed, and no integration with existing LDAP.
- Registered users are imported into the Self Contained Pilot via a text file.
- Maximum of 100 concurrent users.

- Support for migrating data from this pilot to a production deployment.



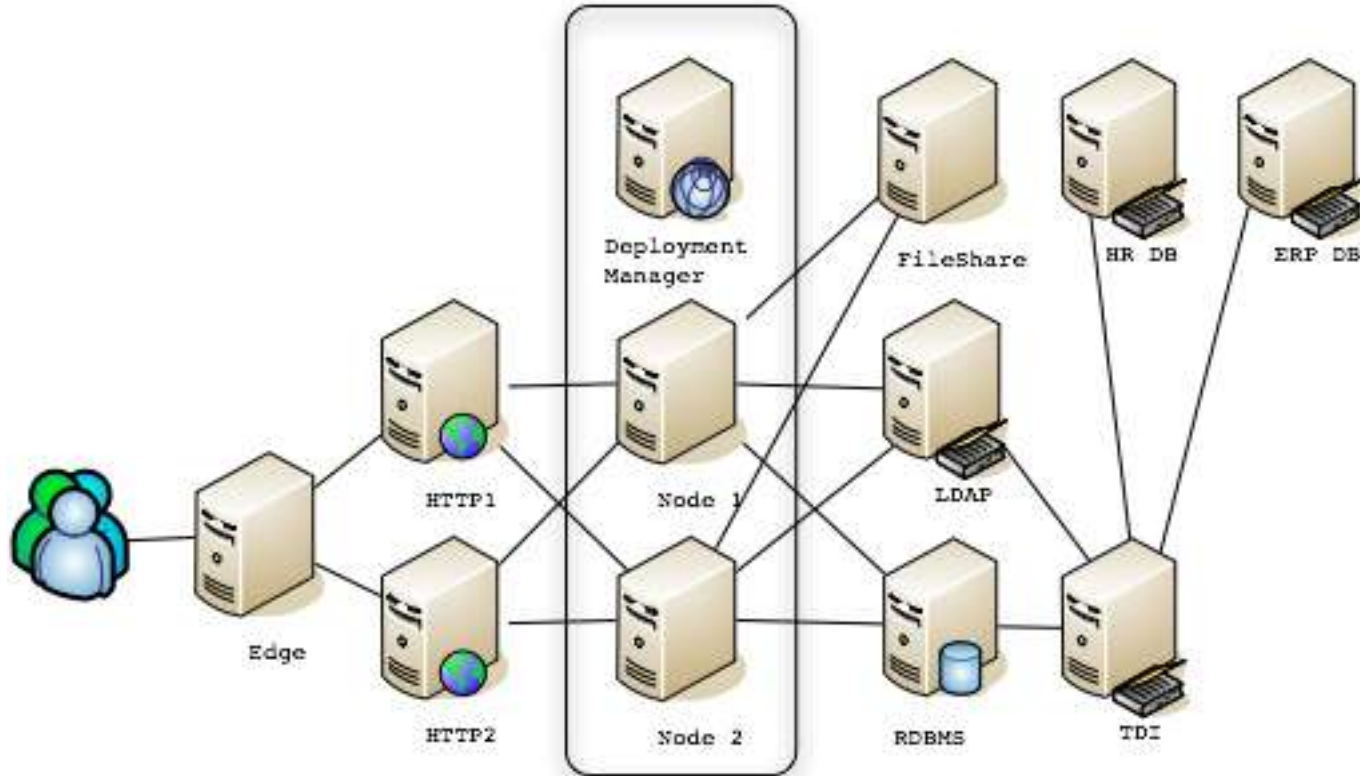
Small system / pilot deployment



- Appropriate for deployment to workgroup, small business, small deployment



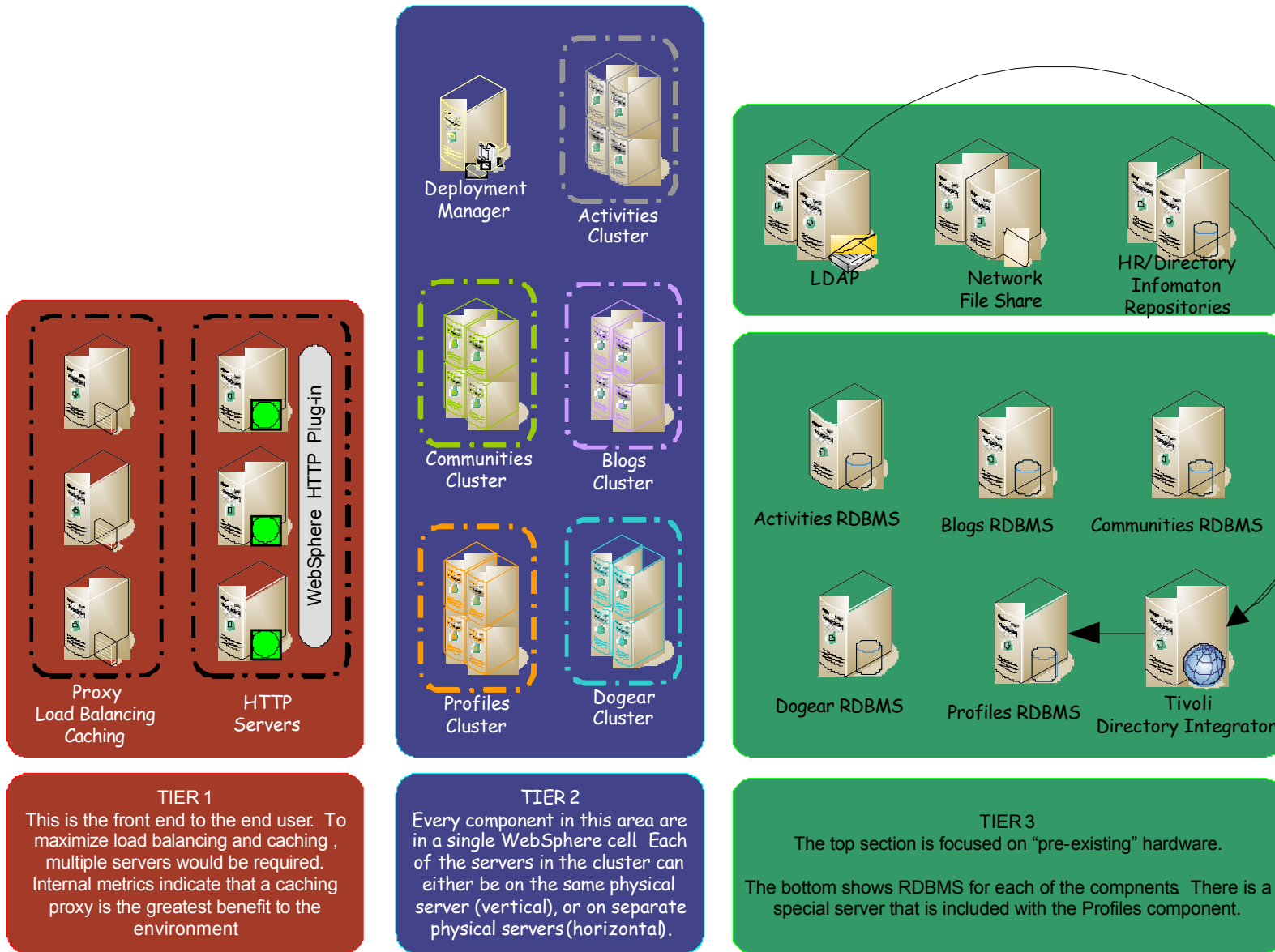
Clustered system



- Appropriate for enterprise deployments



Complex large deployment topology





Lotus Connections APIs

- **Simple**
 - ≡ Easy to learn – REST-style HTTP based API with XML, Javascript and HTML formatted output
 - ≡ Standard Web 2.0 web development methodology
 - ≡ Atom style is “follow the links”
- **Open**
 - ≡ Access for all users to all functionality, regardless of client or platform
 - ≡ Based on Open standards: XML, HTTP, JavaScript, atom feeds
- **Extensible**
 - ≡ Leverages open standards extensibility (XML, HTTP, atom feeds, etc...)
 - ≡ Used internally by our own plugins, mashups and partners



What is Atom?

- An open, standard means for creating, managing and accessing Web resources
- Entries are created in *collections*
- Resources presented as *feeds*
- Feeds consist of *entries*
- Typically used as Web feeds for *blogs* etc. via subscription
- Supported by IBM, Google, Sun, ...



What is Atom?

- A pair of related standards
 - ≡ Atom Syndication Format (ASF): Defines format for syndication of Web content, typically via feeds
 - ≡ Atom Publishing Protocol (APP, AtomPub): Defines ways to add and edit this Web content
- Uses HTTP protocol as transport
- Uses XML syntax as format
- Various language libraries/helpers available for parsing Atom feeds and creating publishing protocol requests
- Utilized by all Lotus Connections services as the API
- Used by Lotus Connections “*clients*”
 - ≡ Notes 7/8, Sametime 7.5, Portlet, Microsoft Office



Integration with Notes, Sametime and Portal



IBM Lotus Notes

Powerful activity sidebar, Search Profiles, Dogear databases and documents

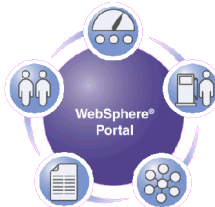


IBM Lotus Sametime

Save chats to Activities or Communities, Profiles plug-in



Lotus Connections Services



IBM WebSphere® Portal

Multi-service Portlet allows access to all 5 Connections services from your portal pages and sites



Integration with Microsoft



Microsoft Outlook

Search profiles, store emails to activities

Microsoft Communications Server

Add presence awareness and additional features to profiles



Lotus Connections Services



Microsoft Office & Windows Explorer

Upload files to Activities, search profiles, create a blog, and make Activity To Do's



Additional extensions

- Home Page and Profiles widgets
 - ▶ Based on the IBM iWidget standard
 - ▶ Build and add widgets to extend HP and Profiles
- Business card
 - ▶ Add additional data sources into the business card
 - ▶ Expose the business card in other applications
- Snippets
 - ▶ Expose Lotus Connections data in other web applications
- Lot's more
 - ▶ The full power of our APIs at your disposal

Existing web page

File Play Help

IBM developerWorks : New to Java

File Edit View History Bookmarks Tools

file:///C:/Documents%20and%20Settings/Brendan/Desktop/intranet%20home/3_dogear-onrealpage-withstyle.html

Ron's Bookmarks Dojo Bookmarks dogear - All Bookmarks dogear this

IBM developerWorks : New to Java tech... file:///C:/Documents.../0_just-snippet.html IBM developerWorks : New to Java tech... IBM developerWorks : New to Java...

Country/region [select] Terms of use

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New to Java technology

- What is Java technology?
- Why is Java technology important?
- What are the Java component technologies?
- How does Java technology relate to SOA/Web services?
- How does Java technology relate to open source software development?
- How can I improve my Java programming skills?
- What IBM tools and products are available for Java programmers?

The developerWorks Java™ technology zone contains hundreds of articles, tutorials, and tips to help software developers make the most of the Java platform and related technologies. But when you're looking for a place to get started, sifting through the volume of resources available on the Web today can be overwhelming. developerWorks offers this page to provide an overview of Java technology basics within the overall context of the language. It includes starting points for further investigation in the form of links to relevant introductory developerWorks content, other educational resources, and IBM downloads and products.

What is Java technology?

Java technology is both a high-level, object-oriented programming language and a platform. Java technology is based on the concept of a single Java virtual machine (JVM) -- a translator between the language and the underlying software and hardware. All implementations of the programming language must emulate the JVM, enabling Java programs to run on any system that has a version of the JVM.

The *Java programming language* is unusual because Java programs are both *compiled* (translated into an intermediate language called Java bytecode) and *interpreted* (bytecode parsed and run by the JVM). Compilation occurs once, and interpretation happens each time the program runs. Compiled bytecode is a form of optimized machine code for the JVM; the interpreter is an implementation of the JVM.

The *Java platform* is a software-only platform that runs on top of various hardware-based platforms. It comes in three versions (see [Multiple editions of the Java platform](#), below). It consists of the JVM and the Java Application Programming Interface (API), a large collection of ready-made software components (classes) that ease the development and deployment of applets and applications, including robust, secure, and interoperable enterprise applications. It spans everything from basic objects, to networking and security, to XML generation and Web services. The Java API is grouped into libraries of related classes and interfaces; the libraries are known as *packages*.

Along with the Java API, every full implementation of the Java platform includes:

- Development tools for compiling, running, monitoring, debugging, and documenting applications.
- Standard mechanisms for deploying applications to users.
- User interface toolkits that make it possible to create sophisticated graphical user interfaces (GUIs).
- Integration libraries that enable database access and manipulation of remote objects.

Java technology was developed by Sun Microsystems. The Java Community Process (JCP), an open organization of international Java developers and licensees, develops and revises Java technology specifications, reference implementations, and technology compatibility kits. In August 2006, Sun Microsystems announced its intention to open source the Java platform in stages and began soliciting feedback on the best approaches for licensing and governance.

← Back to top

Why is Java technology important?

Document options

Set printer orientation to landscape mode

Print this page

Email this page

E-mail this page

More resources

- Eclipse.org
- Sun's official timeline
- Java SE
- Java EE
- Java ME
- Java Community Process (JCP)
- Java certification
- XP.org

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About the Java

start

Lotus Connections ... Technical Talk_v2.ppt Final backup movies Dogear Demo - Part... 8% 10:41 AM

http://connections.renovations.com - Add to your site - Mozilla Firefox

Snippet LiSnippet

You may embed a view of the current Dogear page in your own web page, by copying the following snippet and pasting it into the HTML source code of your page.

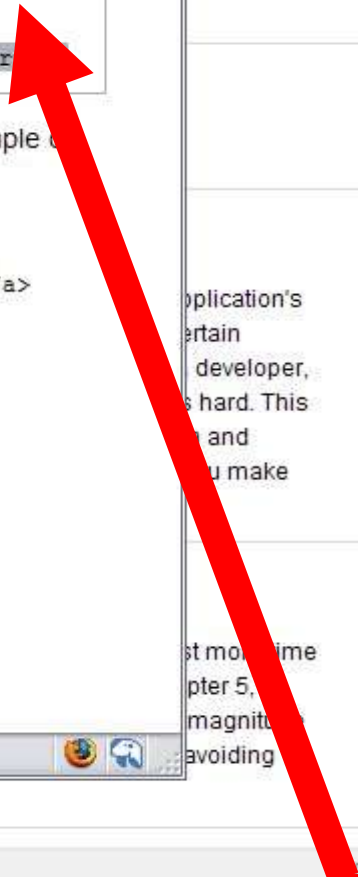
```
<script language="javascript" type="text/javascript" src="http://connections.renovations.com/dogear/snippet?tag=java&lang=en_US"></script>
```

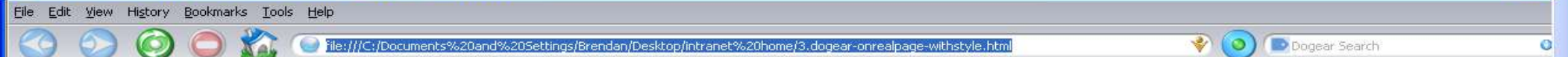
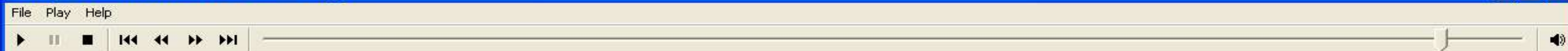
You can change the appearance of the resulting HTML by applying CSS styles. Here is a sample of the output:

```
<div class="dogearlinks">
  <div class="dogearlink">
    <a href="http://sampleurl.com/" title="Description of URL">"Title of URL"</a>
  <br />
  <span class="dogearperson">Firstname Lastname</span>
  <span class="dogeartags">
    <a href="http://url.of.tag1">tag1</a>
    <a href="http://url.of.tag2">tag2</a>
    <a href="http://url.of.tag3">tag3</a>
  </span>
</div>
</div>
```

[close this window](#)

Code Snippet





- Java™ technology
 - New to Java™ technology
 - Downloads & products
 - Open source projects
 - Technical library
 - Training
 - Forums & community
 - Events
- Linux
- Open source
- Power Architecture™
- SOA and Web services
- Web development
- Wireless technology
- XML
- Feedback

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Why is Java technology important?

The main benefit of the Java language is the portability of Java applications across hardware platforms and operating systems. Each platform understands the same bytecode.

The Java language and platform are impressively scalable. At the low end, existing applications can easily scale up. Scaling up, the language is an ideal framework for server-side Web programming. Because it was designed for security when operating over the Internet. In essence, Java technology extends a user's computing environment. Web components are supported by runtime platforms called *Web containers*, whose services include request management, and access to APIs such as naming, transactions, and e-mail. At the high end, Java applications can interact with databases and provide dynamic Web content; they also provide applications, with capabilities for transaction management, security, clustering, performance, availability, and scalability.

The Java language was one of the first technologies to support open standards in the enterprise, opening up information and applications across business lines (see [How does Java technology relate to SOA/Web services](#)). Many IBM products and technical consulting services (see [What IBM tools and products are available for SOA](#)) are based on Java initiatives:

- Learn more about the IBM [Service Oriented Architecture - SOA](#) philosophy and how SOA helps you integrate multiple sources within and beyond the enterprise to support horizontal business processes.
- The IBM [Business Innovation and Optimization](#) offers a component-based, comprehensive approach to flexible, extensible, open standards-based software -- including Java technology -- and hardware infrastructure.

Multiple editions of the Java platform

Three editions of the Java platform make it easier for software developers, service providers, and device manufacturers to target specific markets:

- Java SE (Java Platform, Standard Edition).** Formerly called J2SE, Java SE lets you develop and deploy Java applications on desktops and servers, as well as on embedded devices.

Integrated Dogear bookmarks with matching 'java' tag

- Java EE
- Java ME
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- XP.org

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Questions?



Learn more about how Lotus Connections can work for you



Latest product info, research, podcasts, and more

<http://www.ibm.com/lotus/connections>

Product demonstration

<http://docs.dfw.ibm.com/lotusconn/>

IBM developerWorks®

<http://www.ibm.com/developerworks/lotus/products/connections/>

Product documentation

<http://www.ibm.com/developerworks/lotus/documentation/connections/>

Lotus Greenhouse – experience the software ‘live’

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