



Open Source in the Enterprise: Benefits & Risks

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Agenda

- Introduction
- Global Open Source Adoption
- Open Source Benefits
- Open Source Risks
- Mitigating Open Source Risks
- Summary



The Source for Apache, Tomcat, Geronimo & Axis

- Covalent is the leader in products and services for ASF technologies including Tomcat, Geronimo, Axis, & Apache, the world's leading Web server*
- Covalent is one of the few sources of full Commercial Support for Apache, Axis, Geronimo & Tomcat
- Covalent currently supports more than 50% of Fortune 500 and 20% of Global 2000 companies

**62% global Web server marketshare ~Netcraft April 2006 Web Server Survey*



Covalent & Chariot Solutions

- Strategic partnership formed in 2006



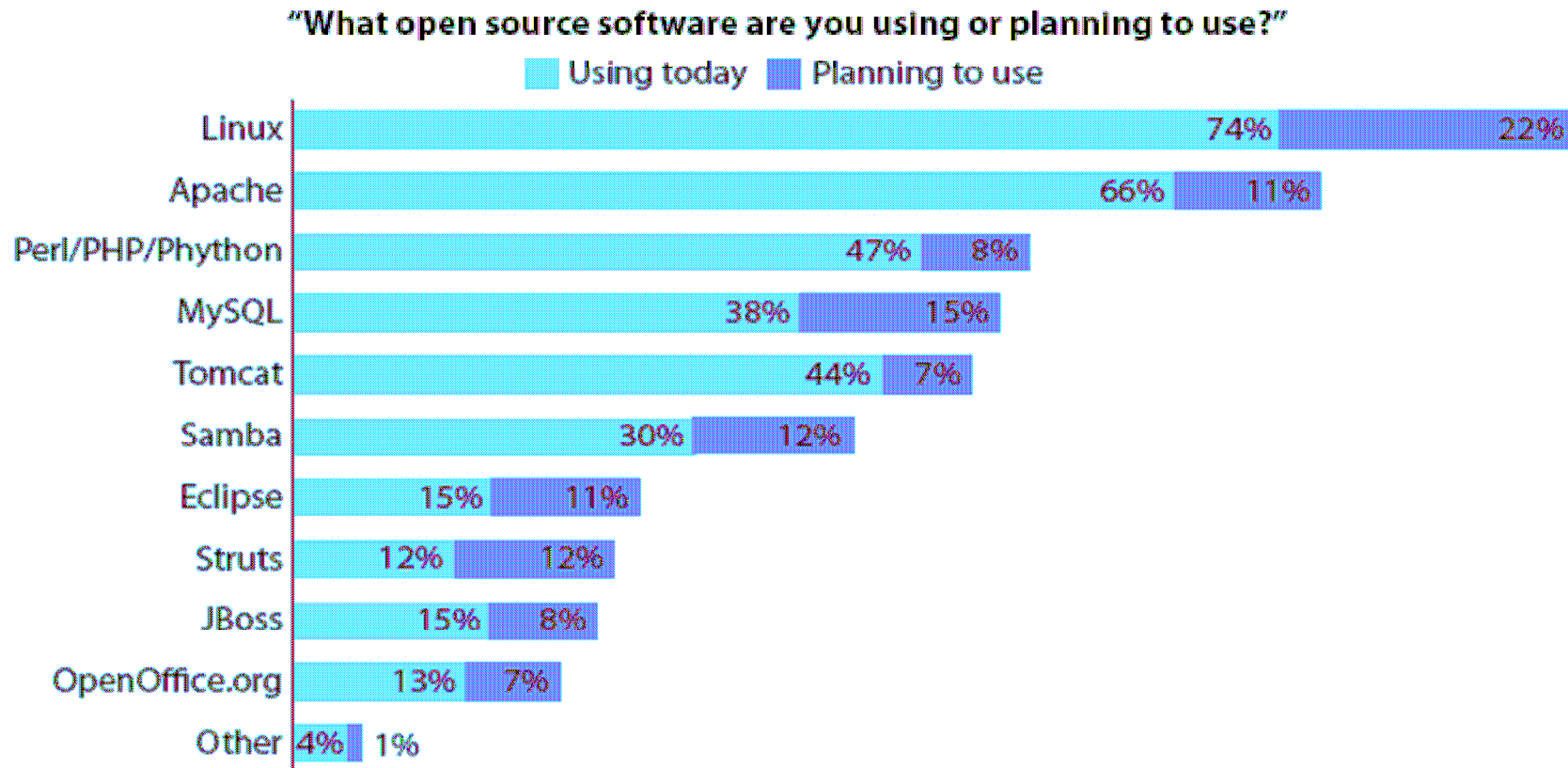
Global Open Source Adoption

- Open source software is being used by 71% of the developers in the world and is in production at 54% of their organizations
- 50% of the global developers claim that the use of open source is increasing in their organizations



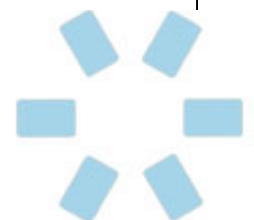
Open Source Usage

Figure 1 Open Source Use And Planned Use



Base: 95 IT decision-makers using or planning to use Linux or open source software
(multiple responses accepted)

Source: Forrester Research, Inc.



Open Source Benefits



- **Low Acquisition and Support Costs**
 - Open source technologies are easy to acquire → No license fees
 - No license negotiations required
 - Availability of informal support from community
 - Commercial support is usually lower cost than comparable proprietary solutions



- ## Availability of Source Code

- Accessibility of code appealing to developers who gain insight into how code is architected → helps with debugging efforts
- IT managers like the ability to update and improve the code without being dependent on a vendor
- More developers looking at source code means more opportunities to discover and resolve bugs



Open Source Benefits

- **Use of Open and Popular Standards**
 - Open source software is largely based on standards → helps enterprises implement standards in vendor-neutral way
 - Even if open source product is weak on standards support, availability of source code makes it possible for IT organizations or others to add the support
 - Collaborative development means more individuals and companies are involved → Better Products



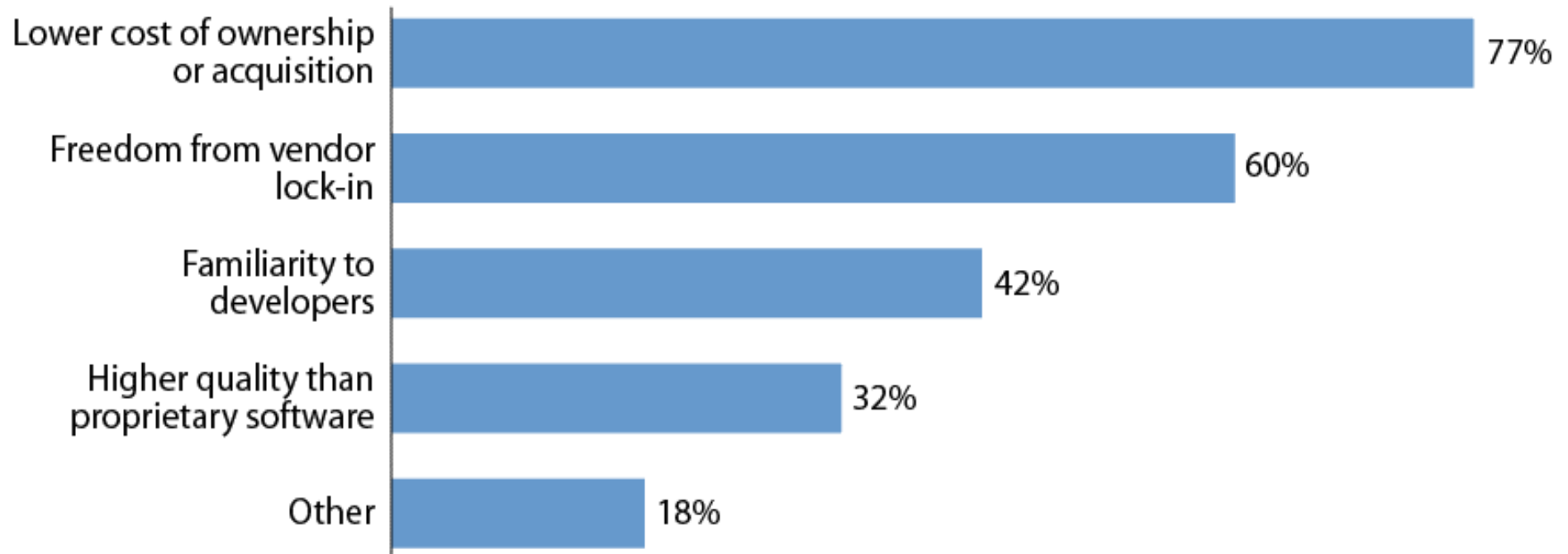
Open Source Benefits

- **Vendor Independence**
 - Greater freedom of software choice
 - helps enterprises avoid “vendor lock-in”
 - Availability of source code means firms with access to proficient coders can update and maintain code themselves, without the requirement of vendor involvement
 - Use of open, published standards in open source means that firms can readily substitute one product for another



Open Source Benefits

“What are the primary reasons for adopting open source software?”



Base: 383 decision-makers at North American and European enterprises
(multiple responses accepted)

Source: Business Technographics® November 2005 North American And European Enterprises Software And Services Survey



Open Source Risks



- **Open Source Software is Hard to Integrate**
 - OS developers tend to focus on developing software that addresses a specific need, ensuring that the need is well met
 - As a result, open source is highly componentized and projects may be developed in relative isolation from one another
 - Can be difficult for IT organizations to integrate multiple OS projects into an application



- **Lack of Knowledge and Skills**
 - Installing, configuring, and maintaining open source is often more complicated than proprietary software
 - Usually due to limited documentation
 - Information about an OS project is often limited, making it harder for IT departments to find, evaluate, and select the open source projects that best meet their business requirements



- **Inconsistent Support by ISVs for OS Software**
 - Some vendors do not support an OS technology for use with their products
 - Management products may not completely support OS technologies
 - Frequent releases of open source software versions presents challenges for IT organizations and proprietary software vendors, alike



- **Limited Support Resources**

- Experienced OS developers have no problem relying on email lists to get questions answered → this approach does not scale and is not economical for a large enterprise
- For some OS projects there is little activity on mailing lists where you can get support
- Frequently there are not enough IT staff with sufficient knowledge to support the different open source technologies they use
- Some open source projects only have a couple (or possibly only 1) developers working on it



Open Source Risks

- **Open Source Licenses may Conflict with Corporate Policy and Process**
 - Open source software can be acquired at no cost, therefore bypassing normal licensing and policy controls
 - Corporate lawyers are not familiar with open source licenses to identify potential legal liabilities and mechanisms for controlling those risks
 - Firms lack the policies necessary to set open source adoption standards and manage the risks of open source licenses



- **Open Source Project Viability**
 - Difficult for enterprises to know if project is viable
 - Project may have very few developers
 - There may not be any commercial support available for the project
 - Project roadmap might not be published
 - Unstable community



Mitigating the Risks



- **Create Internal Policy around Open Source**
 - Define open source objectives
 - Investigate agreeable license options
 - Define requirements for commercial support
 - Establish internal champions & experts with community



- Understand the Different License Options
 - BSD/Apache
 - GPL/LGPL
 - MPL
- Note: See White Paper: “Free and Open Source Licensing,” Simon Phipps, Sun Microsystems, December 2006



Mitigating the Risks

- **Get Involved!**
 - Get to know the projects and community
 - Understand project history and where it's being used
 - Identify what vendors are supporting it
 - For both commercial support and technology integration
 - Does project have roadmap/vision?



- **Work with Appropriate Vendors, Service Providers and Consultants**
 - Hire or contract expertise for development and deployment
 - Obtain skills or assistance with integration
 - Commercial support from experienced vendor
 - Service level agreements with fix guarantees
 - Use commercial distributions of OS technology
 - Indemnification
 - Fully tested and certified



Summary

- Open Source is ready for the enterprise
- Enterprises will be successful if they follow these simple steps to mitigating risks



Questions?

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