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Oracle and Open Source

Oracle Strategy on Open Source and Open Standards



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What is “Open Source software”?

- Software that exhibits these qualities:
 - Free Redistribution (encourages sharing of software)
 - Source code must be included or freely obtainable
 - Derived works must be allowed
 - Distributed under an Open Source Initiative (OSI) approved license
 - + 7 other requirements (largely semantics)
 - See <http://www.opensource.org/docs/osd> for full details
- Does NOT restrict patents or trademarks.
- Is not “shareware” or “freeware”. (as source code not included in those)

Oracle View of Open Source

- A label for the community of developers, organizations and companies that create and distribute software (the ecosystem).
- a (sometimes collaborative) way to develop software
 - and software “quality” varies, just like private source software
- a way to distribute and market software under a variety of licenses
- NOT itself a business model
- NOT monolithic or uniform – many “microclimates” in the ecosystem

Bottom line: open source software & companies
are “no different” from private source

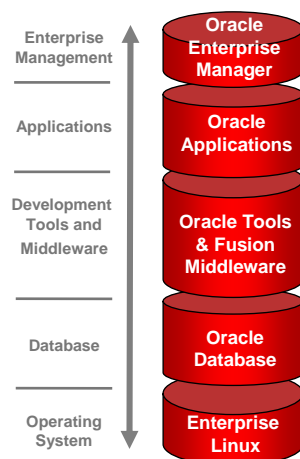
Oracle's Business

- Oracle is in the software and services business
 - Database, middleware and related infrastructure technology
 - Application suites (horizontal and industry-specific)
 - Available as licensed products or as hosted services
- Oracle strives to meet customer requirements
 - Lower IT costs, reliability, interoperability, scalability, integration, support, long-term viability, vendor relationship ...
 - Oracle drives industry standards and implements them
- Oracle offers customers choice
 - **private** source AND open source
 - not just Linux ... it's Windows, Unix, Solaris, AIX, ...
 - not just Eclipse ... also JDeveloper
 - and we offer FREE software too: Oracle XE, Java Edition, Oracle Enterprise Linux, BerkeleyDB, etc.

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Oracle: Most Complete, Open, Integrated Enterprise Software Stack



Customer Benefits

- Standard components
 - Certified configurations
 - Synchronized releases
 - Easier to manage
 - Greater security
 - Higher reliability
 - Rich partner ecosystem
 - Hot-pluggable
 - Lowers cost of ownership
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- Open and standards compliant
 - Integrates open source components

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Oracle and the Open Ecosystem

- Increasingly, our customers deploy our products alongside open source products and technologies
 - Gartner's June 2007 market share report suggests open source is growing the database market, and not eroding Oracle's share
- Open source, private source and open standards coexist
 - Oracle adopts, integrates, develops, distributes and supports **open source**
 - We do the same with **private source**
 - Open **standards** remain crucial: "no lock-in" with open source is a myth
- Oracle adopts, integrates, develops, distributes and services open source technologies to help drive sales of Oracle products
 - Customers value integrated, supported solutions that work
 - Linux is strategic for Oracle and we offer open source technologies in our products
 - Oracle's product breadth, market share and access to open source technology give us a sustainable advantage

Bottom line: "It's business as usual" ...
Compete by best meeting customer requirements

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Market Leadership

- #1 Linux Database with 82.6% market share (Gartner, June 2007)
- More than \$1.95 Billion in Linux RDBMS revenues (Gartner, June 2007)
- More than 30% of Oracle E-Business Suite 11i applications ship on Linux platform (Oracle internal, 2007)
- More than 50% of recent middleware shipments on Linux (Oracle internal, 2007)

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Oracle's Long-term Investment in Linux

- **1998** Oracle first commercial database on Linux
 - Other ISV's then began porting their applications to Linux
- **1999** Investments in multiple Linux startups
 - Red Hat, Miracle Linux, VA Linux
- **2002** Contributes cluster file system to Linux
 - Key enabling technology for high-performance Linux grids
- **Unbreakable Linux program**
 - Oracle fixes Priority 1 Linux Bugs for Oracle customers
 - Free Linux patches to customers and vendors
- **2004** Oracle sponsors Linux security certification
 - Linux gets EAL certified for use in secure systems
- **2006** Offers enterprise-class support for Linux
 - Ongoing technical contributions to Linux community

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Significant Open Source Contributions

- **Oracle Cluster File System 2** – The first default cluster file system in Linux (kernel 2.6.16 onwards)
- **Btrfs** – New file system featuring error detection, correction, and tolerance which will provide enhanced scalability and simplified management for large storage configurations
- **T10 DIF** – A first-of-its kind initiative for Linux that will bring enterprise-class data integrity (T10 Data Integrity Field standard) to the Linux platform.
- **Asynchronous I/O** – New interface reduces complexity
- **YaST** – Ported popular YaST (Yet another Setup Tool) to Oracle Enterprise Linux and Red Hat Enterprise Linux

More Community Contributions at oss.oracle.com

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Why Is Oracle Providing Linux Support?

- Customers are demanding enterprise-quality support
 - No pressure to update to the latest Update release
 - Timely bug fixes
- Linux is strategic to Oracle and its customers
 - We sell a lot of our software running on Linux
 - Linux provides an open standards alternative
- Oracle understands enterprise support
 - More than 30 years supporting enterprise customers
 - Efficient, low cost provider

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Oracle Products and the Open Ecosystem



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Oracle and Open Source

- We *adopt*:
 - Oracle runs on Linux.
- We *integrate and contribute*:
 - Linux, PHP, Perl, Ruby on Rails, Eclipse, Apache, ...
- We *develop and distribute*:
 - Linux, PHP, Eclipse, Apache, Berkeley DB, InnoDB
- We *service*:
 - Unbreakable Linux, Berkeley DB, InnoDB, ...

Oracle is committed to supporting, developing, promoting, and adopting viable open source technologies that complement our other software and service businesses

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Support For Open Standards

Integrating Oracle Private Source And Open Source
























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Oracle and Open Source Database

- Berkeley Database (BDB)
 - Three database products(C, Java, XML editions)
 - Fast, embeddable, zero admin
 - All open source, dual license
 - Widely embedded in many open source projects
- InnoDB (transactional storage subsystem for MySQL)
 - Transactions, referential integrity
 - Completely open source
 - Distributed and supported by MySQL
 - Oracle has been a (surprisingly?) good partner to MySQL

Oracle Berkeley DB in Open Source

Operating Systems	Infrastructure	Applications	Email	Tools	Programming Languages
 All versions of Linux	 Apache Web Server, Directory, et al	 Productivity suite	 Mail server (MTA)	 Text editor	 Perl
 All versions of BSD UNIX	 LDAP Directory	 Chandler email/PIM	 Mail server (MTA)	 Internet search	 Python
	 LDAP Directory	 Website traffic analysis	 Spam blocker	 Red Hat Package Manager	 PHP
	 Kerberos Network Authentication		 SquidGuard spam blocker	 Subversion version control system	 GNU C library

Oracle Berkeley DB

Oracle and Open Source Middleware

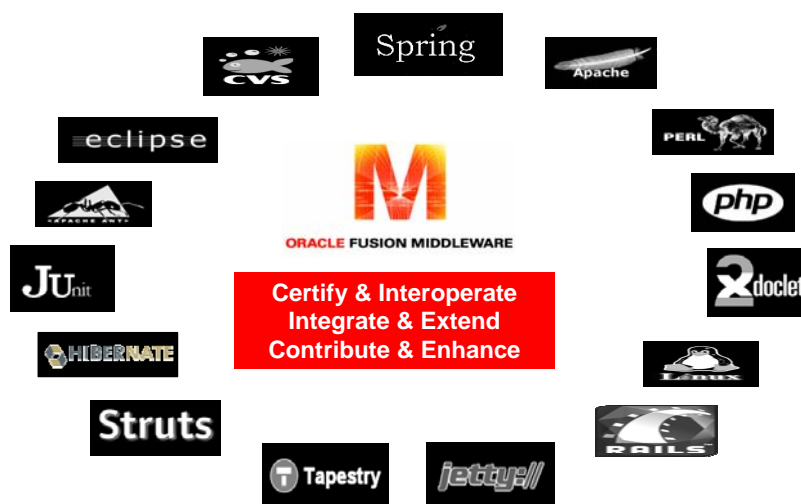
- Adopt
 - Adopt leading open source technologies within our product offering
 - Incorporate as new or replacement component in Oracle app server
 - Reduces investment, increases appeal with developers
- Co-opt
 - Certify Oracle mid-tier components work w/ key open source projects
 - Make it easier for developers to adopt Oracle middleware
- Compete/migrate
 - Ensure Oracle middleware components are technically differentiated
 - Make it seamless to migrate from open source to Oracle
- Contribute
 - Selectively make components available for open source
 - Drive mind share and broader adoption of key technologies
 - Use as competitive tool vs. other major platform vendors

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Oracle Fusion Middleware

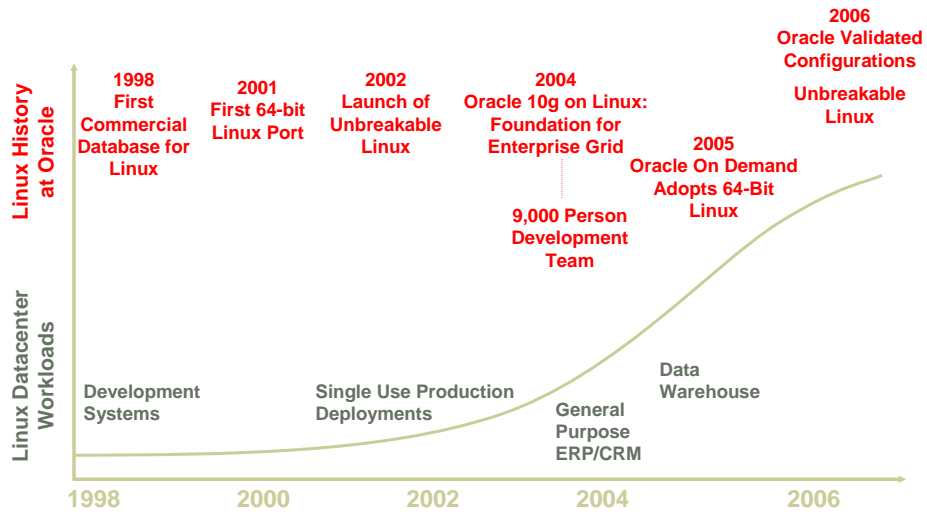
Hot-Pluggable with Open Source



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Oracle's Involvement with Linux



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Oracle Unbreakable Linux Support

- Support for the Linux operating system
- Available to any customer; not just Oracle users
- Dedicated development, test, and delivery teams
- Backed by world's largest software support team
- Ready 24x7 in 145 countries and 27 languages
- Enterprise-quality support at lower price
- Adoption has exceeded our expectations



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Oracle's Open Source Strategy

- Promote and support popular open source projects
 - Examples: Linux, Apache Web Server, Eclipse
- Continually enhance customer support experience
 - Provide a single source for popular enterprise OSS
- Speed up time-to-innovation
 - Embrace complementary OSS projects that provide creative new software ideas
- Expand the developer community
 - Commitment to open standards, interfaces
 - Support use of open source tools

Resources

- Oracle and Open Source
 - <http://www.oracle.com/technologies/open-source>
- Oracle Open Source Projects
 - <http://oss.oracle.com>

Thank You



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