Oracle Optimized Solution for Secure Oracle Database

A Software in Silicon Platform Solution

Advanced data security, extreme efficiency, and the industry's leading performance make Oracle systems the best infrastructure choice for running Oracle Database. Oracle's new microprocessors deliver breakthrough value enabled by Oracle's Software in Silicon technology, and they represent a key milestone in Oracle's strategy of deep integration between software and hardware products.

Built with Oracle's SPARC T7 and SPARC M7 servers, Oracle Solaris, and Oracle's database-aware storage, Oracle Optimized Solution for Secure Oracle Database provides a pretested, proven architecture and solution to realize the full benefits of these new capabilities.

Secure by Design

Oracle delivers the capabilities required to address a full spectrum of security risks to protect cloud and enterprise-class application environments. Integration of security features across the IT layers is the key to delivering a secure environment and protecting common vulnerabilities. Capabilities include:

» Secure data while in motion and at rest. With the leading data encryption performance, SPARC M7-based solutions protect data at rest and in motion with negligible performance loss.

» Protect data in memory from corruption and attack. Silicon Secured Memory provides always-on memory intrusion protection that stops unintentional or malicious access to sensitive data in memory.

» Prevent data snooping during VM migration. Live migration is critical to managing workloads on your cloud, but only Oracle provides hardware-enabled secure live VM migration, which fully encrypts data during moves.

» Stop malware before it gets in. Read-only systems and virtual machines coupled with simplified patching help ensure that if a breach occurs, hackers can't install software or change settings to compromise systems.

» Enable security verification and compliance auditing. Use integrated security auditing tools to ensure systems remain protected and demonstrate compliance with security policies and regulations like the Payment Card Industry Data Security Standard (PCI DSS).

Extreme Efficiency

Capitalizing on the latest business opportunity requires analyzing trends on the latest emerging data; however, performing analytics on transactional systems often

KEY BENEFITS

- Comprehensive information security to protect your systems and data
- Up to 11x faster reporting and analytics than systems without Software in Silicon acceleration
- Full encryption 3x to over 15x faster than competitive options enabling end to end encryption with negligible performance impact
- Always-on memory intrusion protection with Software in Silicon
- 2x to over 4x faster online transaction processing results than the latest competitive offerings

degrades performance to unacceptable levels. This forces organizations to deploy multiple systems and resort to complex processes for refreshing data. Now, with Oracle Database In-Memory in Oracle Database 12*c* coupled with Software in Silicon query and inline decompression acceleration, organizations can run reports and analytics while freeing cores and licenses to support their transaction processing and other workloads. Oracle takes efficiency to a new level with the following components:

» Software in Silicon-accelerated database query and data decompression

» Zero-overhead virtualization for efficient consolidation

» Integrated Oracle storage-based database cloning to facilitate development and test

Leading Performance

With more than 20 performance world records, Oracle's SPARC M7 and SPARC T7 servers allow you to rethink what is possible and how to best deliver services to users. Compared to other leading processors, Oracle's SPARC M7 delivers 2x to over 4x greater OLTP database performance. For reporting and analytics, SPARC M7 runs up to 11x faster than alternatives without Software in Silicon technologies. Faster performance across database, middleware, and application workloads enables higher user and business productivity.

Oracle's SPARC M7 and SPARC T7 Servers

Complete Oracle-on-Oracle Solution

Oracle Optimized Solution for Secure Oracle Database combines state-of-the-art Oracle products and technologies in an architecture that consolidates, simplifies, and accelerates Oracle Database system deployments. The solution incorporates Oracle components—storage, networking, servers, virtualization, Oracle Solaris operating system, Oracle Database, and related options. Complete management is provided with Oracle Enterprise Manager 12*c* managing the database environment through an intuitive administrative interface while Oracle Enterprise Manager Ops Center 12*c* provides management and monitoring of Oracle server hardware, firmware, operating systems, virtual servers, and updates.

Getting Started

The Oracle Advanced Customer Support and Oracle PartnerNetwork teams have tremendous experience and can help you assess your current environment, create the business justification for new investments, and develop a comprehensive migration plan that addresses your organization's specific needs. For upgrading and consolidating legacy hardware systems, Oracle Financing can accommodate your purchasing cycles or budgetary needs, and Oracle's Upgrade Advantage Program provides upfront trade-in discounts and environmentally friendly disposal of legacy hardware.

For More Information

Learn more about this and other solutions:

» www.oracle.com/us/solutions/oos/database

» www.oracle.com/optimizedsolutions

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