Oracle Buys Xsigo
Extends Oracle’s Virtualization Capabilities with Leading Software-Defined Networking Technology for Cloud Environments
September 12, 2012
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The Announcement

• Oracle buys Xsigo Systems
  • Extends Oracle’s virtualization capabilities with leading software-defined networking technology
  • More information can be found at oracle.com/xsigo
  • The transaction has closed

• About Xsigo Systems
  • Private company, founded in 2004 and headquartered in San Jose, CA
  • Xsigo’s network virtualization technology simplifies cloud infrastructure and operations by allowing customers to dynamically and flexibly connect any server to any network and storage, resulting in increased asset utilization and application performance while reducing cost
  • The company’s products have been deployed at hundreds of enterprise customers including British Telecom, eBay, Softbank and Verizon

• The combination is expected to deliver a complete set of virtualization capabilities for cloud environments
  • Xsigo for network virtualization benefits cloud deployments with over 100 Gbps throughput per server at less than 50% of the cost
  • Oracle VM for server virtualization benefits cloud deployments with 4x the scalability of VMware at 25% of the cost
Cloud Computing Demands Dynamic Provisioning
Xsigo Data Center Fabric for Network Virtualization Reduces Cost and Complexity

Virtualized servers must have virtualized infrastructure
- Virtualized servers need far more network and storage connections
- Creation and migration of virtual machines requires on-demand network and storage resources that can be relocated seamlessly

Xsigo connects any server to any network and storage
- Eliminates the cost and complexity of fixed server connections to multiple, sole-purposed networks
- Captures the untapped value of underutilized LAN and SAN resources
- Enables dynamic virtual server I/O creation and migration
- Simplifies management of cloud infrastructure and operations

Clouds deploying Xsigo:
- Reduce network infrastructure complexity by over 70%
- Reduce connectivity costs by over 50%
- Reduce power consumption by over 30%
Xsigo Product Overview

Xsigo Data Center Fabric for Network Virtualization Includes the Following Components

**Fabric Directors**
- Xsigo’s Fabric Directors dynamically connect servers to all cloud resources instead of manually connecting servers to multiple network and storage devices resulting in fewer switches, cards and cables
- High performance, low latency InfiniBand connectivity
- Over 100 Gbps connectivity to each server
- Scalable with up to 15 I/O modules per Director

**Fabric Accelerator**
- Fabric Accelerator dynamically connects VMs and servers to networks, storage and other VMs through Xsigo’s Private Virtual Interconnect, a software-defined link between two resources

**Fabric Manager**
- The Fabric Manager interface allows the creation, monitoring and management of network and storage connections across all servers from a single management point
Oracle and Xsigo
The Most Complete Technology Portfolio for Cloud Deployments

Oracle Enterprise Manager
OPS Center
Oracle VM Manager
Xsigo Fabric Manager
Hardware Management

Operating Systems
Oracle VM
Xsigo Network Virtualization

Virtualization
Oracle VM

Operating Systems
- SOLARIS
- LINUX

Hardware
- Storage
- Fabric
- Engineered Systems
- Servers

Xsigo Fabric Director

Oracle VM Manager

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Xsigo’s Customers Include Leaders Across Industries

- Deployed in mission-critical cloud environments
- Over 300 enterprise customers across key industries

* Customer information and logos provided by Xsigo.
Customer Success Story
Increased Performance and Flexibility with Reduced Power, Space and Cooling Utilization

COMPANY OVERVIEW:
• CARFAX is the most trusted provider of vehicle history information used by millions of consumers each month. CARFAX maintains a comprehensive database with over 10 billion records

XSIGO AND ORACLE SOLUTIONS:
• Two Xsigo VP780 Fabric Directors, InfiniBand Fabric
• Oracle VM
• Oracle RAC

RESULTS:
• Achieved 40Gb of bandwidth that is dynamically allocated to maximize network utilization
• Xsigo helped boost Oracle RAC performance by 20%-30%
• Latency reduced to as low as 100 nanoseconds
• Backup time was reduced by 33%
• Accelerated deployment of Oracle Database from hours to 15 minutes

CHALLENGES:
• Improve server connectivity, create isolated test and development environments and create a more efficient and agile R&D environment while saving power, space and cooling by standardizing on blade servers to remain in the existing data center footprint

* Customer information and logos provided by Xsigo.
Customer Success Story
40% More Usable Bandwidth per Server with 97.5% Fewer Networking Devices

COMPANY OVERVIEW:
• Bluelock is an enterprise cloud hosting provider that helps companies get started with projects quickly while delivering the freedom to change as IT needs evolve

XSIGO SOLUTIONS:
• Two Xsigo VP780 Fabric Directors, InfiniBand Fabric

CHALLENGES:
• Complexity and increased cost of traditional networking did not meet Bluelock’s growth objectives
• Needed to decrease the time required to migrate a virtual machine from one host to another
• Traditional networking also made it difficult to add compute capability or new resources

RESULTS:
• 17x more virtual machines per hardware device
• 66% less cabling
• 97.5% fewer network devices
• 8x greater virtual machine capacity
• 40x more usable bandwidth per server
• Improved power consumption and uptime

* Customer information and logos provided by Xsigo.
Customer Success Story
6x More Bandwidth per Blade Chassis with 50% Less Infrastructure Equipment

KROLL
Factual Data

COMPANY OVERVIEW:
• Kroll Factual Data provides credit reporting and independent verification services to lenders, investors, government agencies and other institutions and responds to over 300,000 information queries a day

XSIGO SOLUTIONS:
• Two Xsigo VP780 Fabric Directors, InfiniBand Fabric

CHALLENGES:
• Bottlenecks arising from increasing server-to-server traffic crossing the network
• Needed redundancy on all connections to meet stringent uptime requirements
• Sought to complete virtualization landscape with network virtualization

RESULTS:
• 6x more bandwidth to each blade chassis
• Full redundancy on all Fibre Channel and Ethernet network connections
• 50% less compute cost, $15,000 saving per blade chassis
• Bottleneck issues resolved in 2 hours vs. 5 days

* Customer information and logos provided by Xsigo.
Summary of Combination
Oracle + Xsigo = Increased Performance, Simplicity, Agility and ROI

Oracle Servers
The Best Systems for Any Enterprise Requirement

Oracle Storage
Architected for Optimal Application Performance

Oracle VM
4x More Scalable at ¼ the Price of VMware

Xsigo Network Virtualization
Built for Any Cloud Environment

For more information please visit oracle.com/xsigo