

# *Enterprise Server Consolidation for OpenVMS Systems*



Optimize service levels, resource use  
and system management



**COMPAQ**

*NonStop*<sup>™</sup>

Can you provide the computing resources necessary to support your company's strategic business objectives — while at the same time improving the efficiency of your IT operation? The answer is yes — through enterprise server consolidation.

With the introduction of the newest members of the *Compaq AlphaServer GS* series — coupled with *OpenVMS Galaxy* architecture software — Compaq has further expanded the unparalleled enterprise capabilities of its *OpenVMS AlphaServer™* platforms. This strong platform offering — combined with the Enterprise Network Storage Architecture, seamless integration with Windows NT®, UNIX®, and Linux®, along with world-class service and support — make the *Compaq AlphaServer* platform the outstanding choice for *OpenVMS* server consolidation.



## Server Consolidation... Compelling benefits for the enterprise

### Improved service levels

Consolidation on today's newer, more powerful servers dramatically increases performance. And the cost of installing and operating high availability configurations is significantly lower. The next-generation capability of the *Compaq AlphaServer GS* series, the *OpenVMS* operating system, *OpenVMS Galaxy* software, and the Enterprise Network Storage Architecture will allow you to take advantage of this trend.

### Better use of IT resources

Consolidating staff, processes, and equipment can reduce your overall management costs since it is proven that traditional server and storage deployments use only about 30% of their available resources.

### Look at these benefits:

- *IDC studies have shown a 7:1 cost saving in people management resources for storage with similar gains possible for servers*
- *Consolidating your hardware resources can dramatically improve utilization of these resources — often up to 70% or 80%*
- *System utilization with OpenVMS is optimized with its clustering capability and its award-winning Galaxy technology\* that allows multiple instances of the OpenVMS operating system to run on a single system*

### Greater business flexibility

In today's era of mergers and acquisitions, new applications, and ever-changing customer needs, flexibility is essential for business survival. A server consolidation solution with the *AlphaServer GS*



series and the *OpenVMS* OS, *OpenVMS Galaxy* technology lets you deploy new applications and features faster — giving you greater flexibility to meet changing business demands.

## OpenVMS server consolidation opportunities

Consolidating your servers on the *OpenVMS* platform is ideal within multiple application environments such as enterprise applications, business intelligence, Web hosting, messaging and collaboration, and custom applications — especially in the healthcare and communications industries.

With a *Compaq AlphaServer GS* series, the *OpenVMS* OS, and *OpenVMS Galaxy* solution, you get more out of a single computer running multiple coordinated copies of the *OpenVMS* OS in the same system. For example, you could run production applications on one partition — while doing development, testing, quality assurance, or batch processing on other instances.

*A government agency chose AlphaServer systems as the platform for consolidation because of the increased application availability offered by clustered systems. The agency replaced 40 servers with five OpenVMS servers, supporting more than 7,000 users. This solution achieved the goal of making a mission-critical application available to end users at all times. As a secondary benefit, the agency has seen its application performance increase by 80%.*

## The unstoppable AlphaServer GS series for the enterprise

### A pillar for *Compaq NonStop™* eBusiness solutions

For Internet commerce and communications, the *Compaq AlphaServer GS* series enhances the high availability and flexibility for which the proven 64-bit *OpenVMS* OS has long been acclaimed. With the addition of the new *Alpha 21264 700 MHz* processor, you can get the fastest performance available anywhere. Because the system architecture is modular, you can start with a system that will meet your immediate needs, then grow — without needless disruption — into fully loaded systems as your requirements change. This allows you to make the expenditure as you add

capacity, instead of having to purchase the entire system infrastructure at one time. *AlphaServer GS* servers transform high end computing — making them a pillar for *Compaq NonStop™* eBusiness solutions.

*AlphaServer GS* servers are available in entry-level configurations with up to 8 CPUs and 2 system partitions to an expanded configuration with up to 32 CPUs and 8 system partitions. They offer unprecedented:

- *High availability and reliability — unstoppable computing delivered through single-system availability and reliability, including future hot-swap capabilities of all system components and subsystems and through Compaq leadership clustering*
- *Lowest total cost of ownership — with reduced system management costs and overhead*
- *Business flexibility — offers the system, storage, and configuration flexibility needed to balance your IT workload on the fly — accommodating multiple applications and changing resource demands*
- *Scalability — allows you to scale the system over time to meet the growing needs of multiple application consolidation... with higher performance than any other system*

## OpenVMS — The next generation

*OpenVMS Galaxy* software lets you balance your IT workload on the fly — accommodating multiple applications and changing resource demands. When you consolidate your *VAX™* or older *AlphaServer* systems onto today's more powerful *AlphaServer* systems, you can take full advantage of *Galaxy* technology which combines the best of cluster technology and SMP technology in a system solution based on software partitioning. *Galaxy* software lets you achieve orders of magnitude improvement in performance.



### Making the most of OpenVMS

As a proven enterprise-class operating system, *OpenVMS* leads the market in industries that demand the highest levels of availability. It's the number one operating system in the healthcare industry, and more than 50% of the world's cellular phone billing systems run the *OpenVMS* OS to name a few of its achievements. A new feature, the *OpenVMS Management Station* provides a Windows®-based, simplified storage management capability that supports your consolidation projects. And now, with the unsurpassed capabilities of the *AlphaServer GS* series, the *OpenVMS* OS is better than ever.

### Seamless integration with Windows NT®

More and more, enterprise solutions need to take advantage of the cost benefits and application availability of Windows NT — while gaining the performance, reliability, and security of the *OpenVMS* OS. When it comes to integrating Windows NT with your current environment, you can count on Compaq to deliver the solutions that will improve usage and simplify management.

### High availability through premier clustering

One of the best ways to ensure high availability is through *OpenVMS* Clusters, the undisputed leader in cluster technology. An *OpenVMS* Cluster is a group of *OpenVMS Alpha* and *VAX* systems, storage subsystems, interconnects, and software that work together as a virtual system — sharing resources, data storage, tape drives, and queues. The *OpenVMS* OS provides disaster-tolerant capabilities with nodes that can be separated by up to 500 miles.

When it comes to installing clustering solutions, Compaq has more experience than anyone else does — almost 20 years — plus more than 200,000 *OpenVMS* Clusters worldwide.

### Now's the time to trade in your older servers

Compaq Financial Services — Compaq's leasing and financing solutions organization — offers a complete, turnkey solution for moving to new, more powerful *Compaq AlphaServer* systems. This solution includes disposal of older systems, flexible leasing solutions for new Compaq equipment, and financing the old equipment's remaining book value.

### Do it right the first time with Compaq Services

The key to successful Server Consolidation is experience. With Compaq, you can leverage our global experience to ensure that your Server Consolidation effort is a success from day one. Compaq gives you proven mechanisms for analyzing your current IT environment and changing the environment to meet your particular Server Consolidation objectives including:

- *Seminar* — describes the value of Server Consolidation, explores dos and don'ts, and explains Compaq's Server Consolidation Services and process flow.
- *Assessment* — includes a workshop to explore your business drivers/interests and IT environment. Potential Server Consolidation scenarios are identified and alternatives are considered.
- *Design and Architecture* — includes the creation of a requirements document, a pilot if needed, and transition plans.
- *Implementation* — includes test and validation plans and implementation. This phase can include any of these services: Migration, Upgrade, Physical Consolidation, Backup and Recovery, and more.

### Learn more

To learn more about Enterprise Server Consolidation through *OpenVMS AlphaServer* systems, please contact your local Compaq Sales Office, Authorized Reseller, or call 1-800-344-4825. You can also find more information at [www.compaq.com/solutions/serverconsolidation](http://www.compaq.com/solutions/serverconsolidation)

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