



HP Insight Software and the Adaptive Infrastructure

With businesses cutting costs, reducing risk and leveraging technology resources to seize greater economic advantage, HP's [Adaptive Infrastructure](#) (AI) initiative offers an integrated product set that delivers comprehensive management and 24/7 lights out operations. AI provides a proven methodology that enables customers to move from high-cost IT islands to an agile technology infrastructure that drives more value to their businesses. HP customers can maximize their current investments to allow them to capitalize on opportunities during economic uncertainties and emerge stronger as conditions change.

Part of the AI portfolio, [HP Insight Software](#) helps companies achieve next-generation computing by providing an efficient, in-depth way to understand, manage and optimize the technology infrastructure. HP Insight Software allows data center managers to make more informed business decisions by supplying detailed information and increased visibility into the technology infrastructure in real-time. Additionally, advanced infrastructure management capabilities allow physical and virtual resources to be managed in the same way. This ongoing optimization and flexibility helps customers continuously align infrastructure services to business demands. Key products include:

- [HP Insight Dynamics - VSE](#) is advanced infrastructure management software to analyze and optimize physical and virtual resources in the same way, bringing the benefits of virtualization to physical servers. HP Insight Dynamics - VSE accelerates data center project schedules by weeks or months, allows resources to be quickly repurposed to match business priorities and extends the life of data centers. It is the industry's first infrastructure management suite with integrated energy-aware capacity planning, which helps reduce costs on key data center tasks by as much as 40 percent.
- [HP Insight Control](#) (ICE) suite allows essential management and control of data centers onsite or remotely. A single pane of glass console proactively monitors server health and performance to decrease downtime. Servers also can be deployed more quickly and the increased flexibility that comes with the ability to manage both physical and virtual machines translates to a faster response to changing business needs. The savings are tangible – up to \$48,380 per 100 users.⁽¹⁾ HP ICE also includes integrations with HP Dynamic Power Capping technology to potentially triple data center capacity by reclaiming trapped power and cooling capacity. This can save up to \$16 million for a typical 1-megawatt data center.⁽²⁾
- [HP Dynamic Power Capping](#), included in the HP Insight Control suite, is the industry's first solution designed to triple capacity in constrained data centers by better allocating the energy usage of HP servers. This allows customers to direct significant

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cost savings to other business growth areas. Built into several models of HP ProLiant rack and blade servers, Dynamic Power Capping controls power consumption of individual servers or enclosures to allow customers struggling with power and cooling resources to reclaim lost capacity.

- [The HP Virtual Server Environment \(VSE\)](#) for HP Integrity servers provides an automated virtual infrastructure that can adapt in seconds with mission-critical reliability. HP VSE allows customers to double resource utilization by creating virtual servers that automatically grow and shrink based on business priorities and service-level objectives. Additional server resources are automatically allocated to the most critical applications based on the service-level objectives for each application. Through industry-leading integration of intelligent control with partitioning and high availability, HP VSE – with HP-UX 11i as its development platform – lets enterprises maintain continuous service levels in the event of downtime. With utility pricing solutions such as Instant Capacity, enterprises can pay for spare capacity on an as-needed basis.

HP VSE includes breakthrough logical server technology that brings the flexibility of virtualization to physical HP Integrity blade servers. Logical servers enable administrators to easily create best practice templates of standard server deployments. Because these physical or virtual server profiles are stored as a file, they can be easily created, copied and moved. Administrators can now manage physical machines and virtual machines using the same management tools.

More information on HP Adaptive Infrastructure is available at <http://www.hp.com/go/adaptiveinfrastructure>.

More information about HP's Insight Software offerings is available at <http://www.hp.com/go/insightsoftware>.

⁽¹⁾ IDC White Paper sponsored by HP, "Gaining Business Value and ROI with HP Insight Control," Document #210479, February 2008.

⁽²⁾ "HP Performance Engineering Team, 2008 Benchmark." Percentage increase in server density compares the number of servers that can be deployed using Dynamic Power Capping with the number of servers that can be deployed using server face plate values. Density improvements may vary based on how customers budget power and cooling resources.