



HP Converged Infrastructure

Delivering the Data center of the Future

The [Instant-On Enterprise](#) is built on technology that can rapidly and reliably scale up and down to meet changing needs. It neither over- nor under-provisions technology, but instead instantly meets enterprise demands.

For many enterprises, rigid infrastructure along with both physical and virtual sprawl has created an infrastructure that inhibits enterprise agility. As a result, ongoing IT operations and maintenance consumes more than 70 percent of IT resources, leaving only 30 percent dedicated to innovation.

[New research](#) from HP⁽¹⁾ indicates that 19 percent of workloads are currently on mainframes, however, almost 20 percent of them are designated to be moved off of mainframes. Additionally, senior technology executives say that only 31 percent of their organizations' workloads are virtualized today, and this number will increase by 20 percent in the next two years.

The research further revealed a disconnect between senior business and government executives and their IT counterparts. 21 percent of senior technology executives strongly agreed that their infrastructure was optimized and aligned to meet current enterprise demand. To the same question, only 13 percent of senior business and government executives agreed with them.

The [HP Converged Infrastructure](#), an architectural blueprint for the data center of the future, is designed to close this gap between what the enterprise requires and what IT can deliver. It enables clients to eliminate technology silos, while integrating servers, storage, networking, and power and cooling into shared pools of interoperable resources. A common management platform manages and provisions these pools of resources.

Innovation vs operations

HP enables enterprises to build an efficient infrastructure that can deliver any workload, anywhere, anytime, with a new level of simplicity, integration and automation.

HP provides a Converged Infrastructure Reference Architecture built on four technology foundations that enable clients to:

- Reduce complexity, risk, resource requirements as well as costs with a common modular infrastructure of virtualized server, storage and I/O resources delivered through [HP Virtual Resource Pools](#).

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- Extend the life of their data center, while reducing power consumption and cooling requirements with the [HP Data Center Smart Grid](#). This provides intelligent energy management across systems and facilities.
- Simplify and increase flexibility from the data center to the network edge with the [HP FlexFabric Network](#). This creates a common, wire-once, virtual I/O network fabric to connect servers to switches to storage.
- Improved productivity by running IT infrastructure as a shared service with the [HP Matrix Operating Environment](#). This establishes a common platform to manage and automate multiple vendors' technologies from infrastructure to application.

The HP Converged Infrastructure is supported by the innovation power of [HP Labs](#) – the company's central research arm – leading interoperability and heterogeneous management with [HP Software](#), the strength of [HP's partner ecosystem](#), as well as unmatched economics derived from an industry-leading, optimized supply chain.

HP client Resource AG has applied these principles and now leverages an HP Converged Infrastructure to offer its customers standardized IT services with individual customizations options. This allows Resource AG to better meet the needs of their customers. With HP, Resource AG can produce binding quotes for potential customers within seven days, with production rollout for new customers within one week. In standard sourcing models this takes typically six to seven weeks. They are also able to do this at a lower cost, which they are able to pass onto their customers – offering up to 35 percent better than usual market prices.

HP can help clients pick the right model for their converged infrastructure. Leading enterprises recognize that there is no "one" singular model of delivery that can be optimized to meet all core service needs. Enterprises will continue to operate in environments containing traditional, outsourced and cloud services for the foreseeable future. [HP Hybrid Delivery](#) helps clients build, manage and consume services using the right delivery model for them.

For additional information, please visit: www.hp.com/go/ci.

(1) "HP Research: The Instant-On Enterprise," Coleman Parkes Research Ltd., October 2010.

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