



HP Management Technology Eliminates Millions in Overprovisioning Costs

[HP Intelligent Power Discovery](#) automates management and control of energy usage across the data center

Overview

In an industry-first advancement for green data centers, HP announced [HP Intelligent Power Discovery](#) management technology that creates an automated, energy-aware network between IT systems and third-party facility management tools. It integrates HP Intelligent Power Distribution Unit (PDU), HP Platinum power supplies and [HP Insight Control](#) software to provide a graphical map of power usage across the data center.⁽¹⁾ As a result, clients can reclaim millions of dollars in wasted power capacity.

To take energy efficiency to the next level, clients must be able to visualize, automate and manage power across the data center. They must have insight and control from deep within each individual IT system through to the overall management of the power grid and for the data facility.

[HP Intelligent Power Discovery](#) complements enhancements to HP's [Data Center Smart Grid](#), which includes new collaborations with data center infrastructure management software vendor nlyte Software and Foreseer facilities software vendor Eaton Corporation. Through these collaborations, [HP ProLiant servers](#)⁽²⁾ can now communicate directly with power distribution systems and third-party facility management software for comprehensive control of power and cooling resources.

Eliminate wasted energy and extend the life of the data center

With increased insight into power usage, clients can extend the life of the data center by reclaiming up to three times the capacity of their facilities with exact provisioning. This has the potential to save clients up to \$5 million per every 1,000 servers in one year.⁽³⁾

Through automatic verification of power redundancy and identification of proper connections, the technology prevents errors in electrical configurations. It further identifies equipment connections and potential circuit overloads to eliminate human errors in power distribution.

HP Intelligent Power Discovery provides a real-time, graphical map of total energy usage across the data center and facilities. Analytics are obtained by measuring power and heat at peak load and at rest. Measurement cycles every half second are faster than any other solution on the market today to optimize energy use per

Editorial Contacts

Dayna Fried, HP
+1 949 422 7206
dayna.fried@hp.com

Christina Dalit
Burson-Marsteller for HP
+1 415 591 4008
christina.dalit@hp.com

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304
www.hp.com



server.⁽⁴⁾

HP Intelligent Power Discovery also provides a view of each server's physical location, the server rack and an analysis of power, thermal and electrical configurations. Data collected by HP Intelligent Power Discovery is communicated to HP Insight Control's power management software, as well as third-party facility management tools, for greater control over energy usage.

Pricing and availability⁽⁵⁾

The new HP Intelligent Power Discovery is available in HP ProLiant DL series G7 servers, with prices starting at \$2,279 and \$3,499, which vary based on specific configurations. HP Intelligent PDU pricing starts at \$1,200 depending on configuration, while HP Insight Control software is available for \$549.

More information on HP Intelligent Power Discovery is available at www.hp.com/go/intelligentpower.

- (1) Automation component is offered only with HP ProLiant DL series servers.
- (2) Intelligent Power Discovery supports only HP ProLiant G6 and G7 servers with iLO technology.
- (3) Assumes capping and recovering 200 watts per server on average. 1,000 servers in a midsize data center. 200 watts per server = 200 kw. Uptime Institute states 1 MW of redundant infrastructure equates to \$25 million. 200 kw = \$5 million. 1 percent accuracy = approximately \$50,000 per rack and provides higher confidence in the data. 1 percent of \$5 million = \$50,000 per rack.
- (4) Based on HP internal testing of built-in instrumentation accuracy vs. separate mechanical system measurement.
- (5) Estimated U.S. street prices. Actual prices may vary.

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