Improving the efficiency & capability of end-user computing platforms...

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Moore's Law

In 1965, Intel co-founder Gordon Moore predicted that the number of transistors on a piece of silicon would double every two years—an insight later dubbed "Moore's Law." His prediction held true, as ever-shrinking transistor sizes have allowed the growth in the number of transistors on a single chip.

Moore's Law is now a basic premise of the electronics industry, and the company has come to be known as the "father of computer science." Whole new worlds have been opened up for people to play, learn, and work. And the company has come to be known as the "father of computer science." Whole new worlds have been opened up for people to play, learn, and work.
Integration to Solve Business Problems

What Drives Up Maintenance Costs?
- Manual inventories
- Undiscoverable assets
- Desk-side visits
- Inability to manage systems that are powered down or OS is inoperable
- Manual security patches
- Systems not in ‘off’ state

Revolutionary
Embedding IT into silicon

Innovation
9%

Maintenance
91%

Source: Gartner

Proactive Security
Built-in Manageability
Energy Efficient Performance

Discovery & inventory
Remote boot & repair
Agent assurance
System defense
Network admission control
Power state control
Client Virtualization
**Intel® vPro™ Technology ROI Summary**

### Indiana Office of Technology

- Centralized IT organization for the State of Indiana
- Responsible for support of 20,000 desktop PCs across the state

#### Statewide charter increased expensive and time consuming travel for support calls

- Remote remediation resolves issues faster while drastically reducing travel costs
- Travel for HW/SW support calls reduced by 80%<sup>1</sup>
- Projected CO₂ reduction: 856k lbs over 4 years<sup>2</sup>

#### Software patching and distribution not meeting saturation goals

- Remote management with power on/off capability enables rapid patch distribution
- Patching during off hours accelerated saturation meeting 48 hr goal<sup>1</sup>
- $1.2M savings in energy costs over 4 years achieved with remote on/off<sup>3</sup>

#### Manual asset tracking process was complicated and reduced end-user productivity

- Flash based HW/SW configuration info enables automated asset tracking
- Manual inventory process virtually eliminated<sup>1</sup>
- 7 day automated asset tracking in place meets the State mandate<sup>1</sup>

**4 Year Return on Investment: 415%**

**Break-Even Point: 13 Months<sup>3,4,5</sup>**
Emerging Compute Models

End Users

Desires Freedom and Flexibility
- Anywhere/Anytime Access
- Device Independence
- Consumerization
- Productivity/Performance

Desires Security and Manageability
- Controlled Network Access
- More controlled OS
- Data Security
- Predictable Configurations

IT Pros

Mobile Capable Off-Network Option

Network Connected Only

Server Compute
Centralized Management
Centralized Data Storage

Client Compute
Centralized Management
Centralized & Local Data Storage options

Thin Client
Terminal

Dynamic Virtual Client
Centralized apps & data

Managed Rich Client
DT & NB Clients

Security Foundation to Build and Maintain A Chain of Trust to Protect the Platform
- Verified Launch – ensures only trusted hypervisor code is launched
- Memory Isolation – prevents malicious access to hypervisor memory region
- Memory Scrub – removes residual data from system memory at shutdown

Personal VM
Corporate VM
Client Hypervisor
Measured Launch Environment
Client Hardware

Verified Launch – ensures only trusted hypervisor code is launched
Thank you