

# INTEL® VPRO<sup>™</sup> PLATFORM INTEL® AMT USE CASES VALUE PROPOSITION AND CONFIGURATION

Alexander Melnikov

Field Application Engineer

## Disclaimers

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No product or component can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

Cost reduction scenarios described are intended as examples of how a given Intel- based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

Intel® Active Management Technology requires the computer system to have an Intel(R) AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes. With regard to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating or powered off. KVM (Keyboard, Video, and Mouse) Remote Control is only available with Intel® Core™ vPro™ processors with active integrated graphics. Discrete graphics are not supported. For more information, visit intel.com/AMT.

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

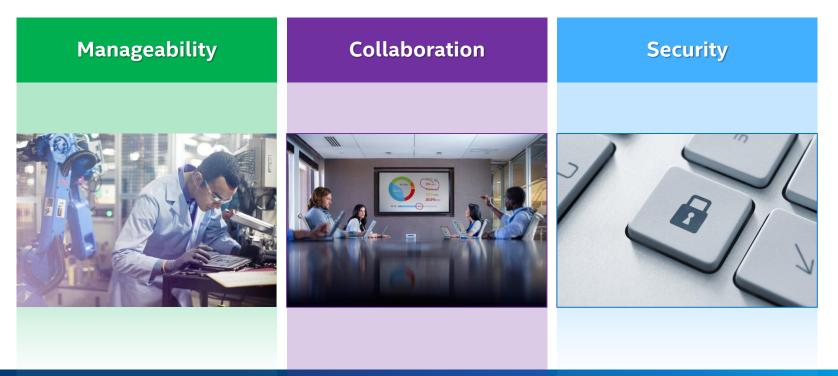
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# **WORKPLACE TRANSFORMATION**





### **THE INTEL<sup>®</sup> vPRO<sup>™</sup> PLATFORM** The Foundation for Business Computing

The Intel® vPro™ platform is a set of hardware, technologies and solutions utilized to build business-ready computers

### **BUILT FOR BUSINESS**

Systems enabled with features that enable, accelerate or complement Windows\* 10 Pro/Enterprise

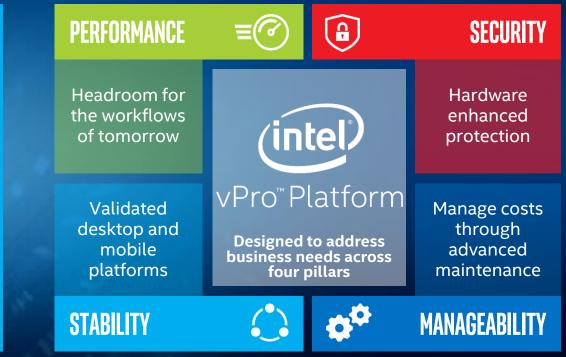
#### **BROAD MARKET SUPPORT**

Over 100 new systems every year from top manufacturers

#### **VERIFICATION PROGRAM**

Formal brand requirements and testing program to verify functionality

MORE INFO at intel.com/vpro



# INTEL<sup>®</sup> VPRO<sup>™</sup> PLATFORM HW & FW COMPONENTS



### INTEL® ACTIVE MANAGEMENT TECHNOLOGY (INTEL® AMT)

### INTEL® IPT PKI & DAL FOR SECURITY SOLUTIONS

**INTEL® HARDWARE SHIELD** 



### **10+ YEARS OF INTEL VPRO**





\* Other names and brands may be claimed as the property of others 1) requires ME FW preconfiguration (USB or OEM in factory)

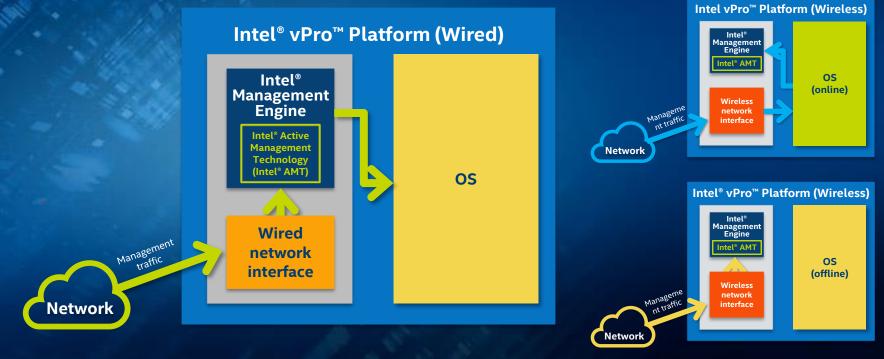
2) requires ME FW OEM preconfiguration in factory 3) Enabled via 3<sup>rd</sup> party independent software vendors (ISV)

## INTEL® CONVERGED SECURITY AND MANAGEMENT ENGINE Hardware-enhanced capabilities for intel platforms

The Intel® CSME is an energy efficient computing subsystem inside Intel chipsets that enables hardware-		VALUE PROPOSITION	Dedicated and isolated execution of low-level security and manageability algorithms and protocols (i.e. it is a <b>Trusted Execution Environment</b> )
	• 6 <sup>th</sup> Gen CPUs and newer	WHAT IT DOES	<ul> <li>Enables OS-independent functions</li> <li>Provides hardware root of trust and protection for OS, virtual machines and other software</li> <li>Performs essential platform initialization</li> <li>Security key generation and storage</li> </ul>
INTEL <sup>®</sup> PERIPHERAL Controller Hub	<ul> <li>Minute IA core</li> <li>Integrated storage</li> <li>Crypto services</li> <li>Out-of-band networking</li> <li>Firmware</li> <li>Services app loader</li> </ul>	KEY INTEL USE CASES	<ul> <li>Intel<sup>®</sup> Active Management Technology</li> <li>Intel<sup>®</sup> DAL (Dynamic Application Loading) &amp; Intel<sup>®</sup> Authenticate Solution</li> <li>Intel<sup>®</sup> Boot Guard</li> <li>Intel<sup>®</sup> IPT-PKI<sup>1</sup> with FIPS L1 certification</li> <li>Intel<sup>®</sup> Platform Trust Technology (firmware TPM<sup>2</sup>)</li> </ul>
INTEL <sup>®</sup> CSME		WHY IT MATTERS	<ul> <li>Foundational to the Intel<sup>®</sup> vPro<sup>™</sup> platform</li> <li>Enables differentiation versus consumer PCs</li> <li>Future innovations</li> </ul>
		A CONTRACTOR	<ol> <li>Intel<sup>®</sup> Identity Protection Technology with Public Key Infrastructure</li> <li>Trusted Platform Module</li> </ol>

# OUT-OF-BAND MANAGEMENT WITH INTEL® ACTIVE MANAGEMENT TECHNOLOGY

Works via Intel<sup>®</sup> wired LAN network interface directly or Intel<sup>®</sup> wireless LAN routed from the host wireless driver



# Intel<sup>®</sup> AMT: Take Control of Your Company's Devices

**REMOTE POWER CONTROL** 

## HARDWARE ALARM CLOCK



#### Manage your entire PC fleet with remote power-on

Power on a single system—or multiple systems across every work site—for remediation or patching.

### Set wake-up times and schedule updates

Save energy by powering devices during business hours only. Ensure maintenance happens even when users aren't in front of devices.

### HARDWARE KVM



### See it remotely—even when it's down

Keyboard-video-mouse (KVM) provides visibility and control of the device, even during an OS failure, as if you were sitting in front of the system.

### **REMOTE ACCESS**



## Recover faulty systems without sending a tech

Repair devices that are far away or difficult to access, like hard-to-reach digital signage. Remotely control and reimage devices, at scale.



# **INTEL® AMT SAVES TIME AND SIMPLIFIES MANAGEMENT**



### MANAGE GROWING NUMBER OF DEVICES

Discover, repair, and help protect networked computing assets even when the system is off

### REDUCE OPERATING COSTS AND COMPLEXITY

Cut the cost of an IT service call from \$187 to \$60 with out-of-band remote diagnosis<sup>1</sup>

### EASE PLATFORM LIFECYCLE MANAGEMENT

Remotely monitor installations and upgrades with out-of-band management capabilities

1. Sources: 2014 CompuCom whitepaper, Intel<sup>®</sup> vPro™ IT customer data, and 2013 Gartner benchmarking hardware support costs.



