

# A Foundation for Digital Transformation

## Devices built on the Intel® vPro™ platform enable digital transformation and become strategic assets to a business



According to a 2016 survey from Forbes Insights, digital transformation is a priority for businesses around the world. Intel defines digital transformation as the strategic application of technology in order to improve business operations. To that end, the Intel vPro platform delivers capabilities that transform computing endpoints into better trusted and well-maintained productivity tools.

### Built for Business

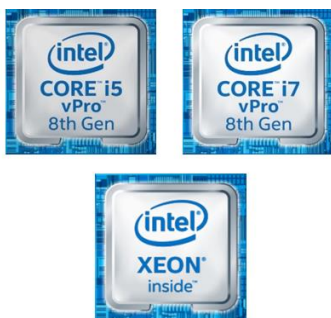
The Intel vPro platform is comprised of Intel hardware, technologies and solutions that form the building blocks for premium business computing. System manufacturers utilize these building blocks and contribute computing expertise to deliver notebooks, desktops, workstations and other computing appliances that are verified "ready for business".

### The Heart of the Platform

The Intel vPro platform features the latest Intel processors and the specification is updated on a yearly basis to provide continuous innovation. With 8<sup>th</sup> Generation Intel® Core™ vPro™ processors, business users benefit from optimized architectures for desktop and mobile, with the headroom to support the workflows of today and tomorrow.

### Specification Components

Complementing the processor, Intel vPro platforms incorporate specific chipsets, management-optimized networking, plus high-end memory and I/O components designed to improve business productivity. As shown on Table 1, Intel vPro brand-compliant systems also enable a wide variety of Intel technologies and solutions that improve manageability, security and stability for business devices.



### Premium Solution

As Figure 1 indicates, the Intel vPro platform sits atop Intel's product offerings for business clients. The platform is a superset of underlying products and technologies, making it a premium solution for business computing. The Intel vPro platform is designed for managed IT environments where the business aims to enforce corporate policies across its computing infrastructure. This may include imaging, enabling security features, configuring and maintaining machines. This type of asset control can benefit businesses of all sizes, whether the computing infrastructure is managed internally or by a service provider.

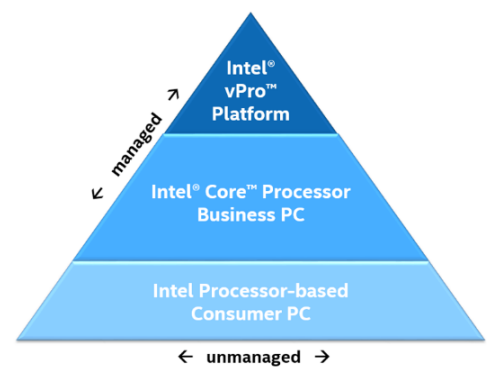


Figure 1: Business Computing Tiers

## Value Proposition

The Intel vPro platform simplifies computer purchase decisions with platforms verified ready for business. As shown in Figure 2, the value proposition extends across four categories, each with its own value statement.



Figure 2: Intel vPro Platform Value Proposition

### Performance

Maximizing employee productivity is a desired outcome of digital transformation. A fully-realized Intel vPro platform combines the top end of Intel's processor product line with high speed wired and wireless networking, Thunderbolt™ 3 I/O, and Intel® SSD Pro Series drives or Intel® Optane™ memory for fast data access. This comprehensive offering results in amazingly responsive systems that increase productivity for all workers but especially for those with more complex tasks.

### Manageability

Businesses that deploy Intel® Active Management Technology (Intel® AMT) with full PC remote control can lower operational costs a number of ways. First, OS-independent remote control, over wired or wireless connections, reduces the cost of deskside and PC service center visits, increases employee PC up time, and extends IT's reach to distributed workforces. Secondly, efficient imaging of PCs is possible when Intel AMT is activated prior to PC deployment. This saves cost by reducing image installation time and increasing the number of migrations possible on a given day. In addition, energy savings are achieved when desktops are remotely powered-down when not in use, while routine maintenance of machines, including OS updates and patches, is much easier with Intel AMT scheduled updates. Intel AMT features are enabled in popular management consoles and Intel provides tools to facilitate integration of these capabilities into a managed IT environment.

Manageability use cases are increasingly important to a business because a well-maintained PC is a more secure PC.

### Security Features

The Intel vPro platform delivers hardware-enhanced security features that are harder to break than software-only solutions. For example, Intel® Authenticate technology enables a business to define a PC login policy requiring two or more proofs of identity. The login policy and identity proof points are stored in hardware. Applications that use Intel® Software Guard Extensions can store critical data in hardware enclaves. Intel vPro platforms also require Intel® Virtualization Technology (Intel® VT-x and Intel® VT-d, see Table 1) and a discrete Trusted Platform Module, both key components used by security services within Microsoft Windows\* 10. Finally, specific versions of 8<sup>th</sup> Gen Intel Core vPro processors provide stronger protection against firmware attacks via Intel® Runtime BIOS Resilience. Security-enabled endpoints are essential for digital transformation as businesses must trust the devices being deployed.

### Stability

The Intel® Stable Image Platform Program helps businesses manage lifecycle complexities by stabilizing key components and drivers for 15 months or until the next platform release. This helps a business avoid network or software compatibility problems that may arise when deploying less stable computing infrastructure. New with 8<sup>th</sup> Gen Intel Core vPro processors, Intel® Transparent Supply Chain helps a business comply with internal or external regulations by providing a method for confirming the authenticity of system components. These solutions instill greater confidence in hardware purchases.

## Summary

End user computing is essential to a comprehensive digital transformation strategy. The devices people use directly impact productivity, nurture core competencies, and drive collaboration that produces business results. The Intel vPro platform enables devices that meet the needs of the user and the needs of the business, hence transforming computing end points into strategic corporate assets.

| HARDWARE   | TECHNOLOGIES  | SOLUTIONS   |
|--|---|---|
| <b>INTEL® vPRO™ PLATFORM REQUIREMENTS</b>                    |   |   |
| Intel® Core™ i5 and i7 vPro™ Processors and Chipsets         | Intel® Active Management Technology (Intel® AMT)  | Intel® Authenticate Solution (validation)                                 |
| Intel® Xeon® Processors and Chipsets                         | Intel® Trusted Execution Technology (Intel® TXT)  | Intel® Remote Secure Erase (or equivalent)                                |
| Intel® Ethernet Controller                                   | Intel® Software Guard Extensions (Intel® SGX)   |   |
| Intel® Wireless-AC   | Intel® Virtualization Technology for IA-32, Intel® 64 and Intel® Architecture (Intel® VT-x) |   |
| Discrete Trusted Platform Module (via 3 <sup>rd</sup> party) | Intel® Virtualization Technology for Directed I/O (Intel® VT-d)                             |   |
| <b>INTEL® vPRO™ PLATFORM RECOMMENDATIONS</b>                 |   |   |
| Intel® Solid State Drives Pro Series                         | Intel® Identity Protection Technology with Public Key Infrastructure (Intel® IPT-PKI)       | Intel® Stable Image Platform Program (Intel® SIPP)                        |
| Intel® Optane™ Memory  | Intel® Runtime BIOS Resilience *  | Intel® Transparent Supply Chain *   |
| Intel® Thunderbolt™ 3 Controller                             |   | Intel® Manageability Commander<br>Intel® Setup and Configuration Software |

\* selected systems

Table 1: Intel vPro Platform Components



All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps. Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. For more complete information about performance and benchmark results, visit [www.intel.com/benchmarks](http://www.intel.com/benchmarks). No computer system can be absolutely secure. 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, vPro, Core, Xeon, Optane, Thunderbolt and the Intel logo are trademarks of Intel Corporation in the U.S. and other countries. \*Other names and brands may be claimed as the property of others. © Intel Corporation