



# Evolving the Workplace for a Streamlined Experience

Enable elevated security, performance, and manageability with 7th generation Intel® Core™ vPro™ processors for businesses and IT organizations.



Modern businesses know the challenge of keeping pace with advancing technology and growing data. In fact, the number of managed employee devices has increased by 72% since 2014.<sup>1</sup> As this number grows, companies often struggle with security and manageability. The same goes for their IT organizations. A study revealed that up to 50% of all help desk calls are for password resets, which cost an average of \$70 per incident.<sup>2</sup> More than ever, businesses are looking for an efficient solution that strengthens security, reduces time-consuming tasks, and amplifies their ability to focus on important workloads.

That solution is possible thanks to 7th gen Intel® Core™ vPro™ processors, providing companies with built-in protection, premium performance, and remote manageability for a more streamlined experience.

## Hardware-Enhanced Security

With misused and stolen user credentials causing 63% of confirmed data breaches, grounding identity protection in hardware is one of the smartest ways for IT to defend business.<sup>3</sup> Devices based on 7th gen Intel® Core™ vPro™ processors using the Intel® Authenticate Solution deliver a robust multifactor solution that is protected in hardware, reducing exposure to software-level attacks such as key logging, phishing, and screen scraping.



**Misused or stolen user credentials cause 63% of confirmed data breaches.<sup>3</sup>**

The Intel® Authenticate Solution is designed to verify no less than two factors for maximum coverage. In addition to fingerprints, Bluetooth proximity, protected PIN, and Intel® Active Management Technology location, 7th gen Intel® Core™ vPro™ processor-based devices now also support additional factors from OEMs and hardware vendors, giving businesses more choices for policy customization.



## Breaches cost businesses more than \$1.6 billion in damages in 2016.<sup>4</sup>

Data is also protected with Intel® Remote Secure Erase—powered by Intel® Active Management Technology—a feature exclusive to Intel® Core™ vPro™ processors. When a PC is retired or repurposed, IT security policies often require that data be wiped from the drive. With Intel® Remote Secure Erase, data is wiped in seconds. This isn't just an effective way to keep data secure—it also saves IT valuable time and gives businesses peace of mind.

### Next-Level Productivity

Businesses get a productivity boost with 7th gen Intel® Core™ vPro™ processor-based devices. Intel® Speed Shift Technology delivers serious business compute with steady load balancing across highly demanding workloads. Performance automatically adjusts to focus frequencies where they're needed most while applications running in the background reserve power.

Devices based on these processors achieve up to 65% faster multitasking than a five-year-old device, giving uptime a whole new meaning.<sup>5</sup> From advanced Excel\* macros to sophisticated CAD animations, Intel® Hyper-Threading Technology handles demanding applications by running multiple threads on each core to deliver cutting-edge responsiveness.



## Up to 65% faster multitasking than a 5-year-old PC<sup>5</sup>

**Brilliant Performance** – For even greater productivity, 7th gen Intel® Core™ vPro™ processor-based devices are available in a range of versatile form factors—from 2 in 1s and All-in-Ones to desktops and mini PCs—and support impressive graphics and memory capacities up to 64GB, empowering businesses to envision new worlds.

- Stunning visuals with Intel® HD Graphics and Intel® Iris™ Plus Graphics
- Excellent entertainment with 4K UHD streaming capabilities
- Clock speeds up to 3.6GHz
- Battery life up to 10 hours—enough for the whole work day<sup>6</sup>

## Remote Manageability

Manageability improvements in Intel® Active Management Technology for 7th gen Intel® Core™ vPro™ processor-based devices can help businesses lower TCO with wireless support for high-resolution reimaging that can be executed remotely through Keyboard-Video-Mouse (KVM) remote control.

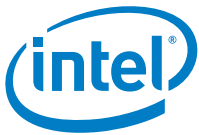
In addition to strengthened security, new remote technology enhancements also bolster manageability capabilities. With Intel® Remote Secure Erase for the Intel® SSD Professional Family, IT can remotely wipe drives and delete encryption keys in seconds—from anywhere in the world—and put time back in the bank.



Remote desktop diagnosis can cut the cost of an IT service call by **more than half.**<sup>7</sup>

## Drive Workplace Transformation

Collaboration is key for any successful company. There's no reason for device incompatibility or connectivity issues to get in the way of business and IT productivity. With 7th gen Intel® Core™ vPro™ processors, businesses simplify collaboration so they can spend time on what matters.



## Deliver Tools Everyone Can Use with Intel Unite®

- Cut meeting setup time from minutes to seconds.<sup>8</sup> The Intel Unite® solution eliminates tangled cords and simplifies setup for IT with wireless connectivity, easy installation, and remote manageability.
- The Intel Unite® app also connects the conference room to devices across the globe for smarter meetings and real-time collaboration.

## Enable Quick Connectivity with a Thunderbolt™ 3 Port

- Support for the Thunderbolt™ 3 interface streamlines connectivity to billions of USB devices and peripherals, including up to two 4K displays.
- With 40Gbps transfers, Thunderbolt™ 3 technology moves massive CAD files, data sets, and videos in a matter of seconds—eight times faster than USB 3.0.<sup>9</sup>

## Modernize with the Latest Intel® Core™ vPro™ Processors

Thanks to 7th gen Intel® Core™ vPro™ processors, businesses and IT organizations can strengthen security, maximize productivity, and simplify management—all while improving workplace collaboration.

Discover elevated performance at [intel.com/vpro](https://www.intel.com/vpro)

Software and workloads used in performance tests may have been optimized for performance only on Intel® microprocessors. Performance tests, such as SYSmark® and MobileMark®, are measured using specific computer systems, components, software, operations, and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information, visit [intel.com/performance](https://www.intel.com/performance).

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 computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [intel.com](https://www.intel.com).

1. "7 Enterprise Mobility Statistics You Should Know." Citrix, 2015.

2. "Safestone Technologies White Paper." IBM Systems Magazine, 2014.

3. "2016 Data Breach Investigations Report." Verizon, 2016.

4. "2016 Cost of Data Breach Study: Global Analysis." Ponemon Institute, 2016.

5. As measured by SEG562, which is an office productivity and multitasking workload using Word® (save to PDF), Excel® (recalc), PowerPoint® (slide sort), and NXPowerLite Desktop (to shrink contents with Office® documents, kind of like compression), all while playing video in the background (simulating the watching of a business training or webcast). Configuration: Intel® Core™ i5-7300U processor vs. Intel® Core™ i5-2540M processor.

6. As measured by Windows® 10 1080p 24fps local video playback test: USB devices disconnected, local Wi-Fi access connected, screen brightness 200 nits. Launch Tears of Steel (1080p H264 10MBps 24fps) video using the Windows® Movie & TV app. Measure and calculate average power for the duration of the video.

Estimated on Intel® Core™ i7-7500U processor, PL1=15W TDP, 2C4T, Turbo up to 3.5GHz, Memory: 2x4GB DDR4-2133, Storage: Intel® SSD, Display resolution: 25x14, Intel® HD Graphics 620, OS: Windows® 10 TH2. Battery size 42Whr.

7. Comparing desk-side vs. out-of-band repairs. Based on CompuCom 2015 internal estimates, Intel® vPro™ technology IT customer data, and "Gartner Benchmarking Hardware Supports Costs" (Gartner, 2013).

8. "Conference Room Collaboration Using Intel® vPro™ Technology." IT@Intel White Paper, 2015.

9. As compared to other PC I/O connection technologies including eSATA, USB, and IEEE® 1394 FireWire®. Performance will vary depending on the specific hardware and software used. Must use a Thunderbolt™ technology-enabled device.

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