intel® Security

Enterprise-Ready Solutions for Comprehensive Data Security

All-inclusive drive support fuels both the performance of hardware-based encryption and the flexibility of software-based encryption

As an IT professional, you support a large variety of endpoints, drives, machines, and software. You work long hours to secure and encrypt the enticing data sitting on those increasingly mobile devices. The headache of juggling these moving parts has you dreaming of a simple, unified solution to both easily manage and effectively safeguard your current environment.

But what about effectively maintaining and securing your future environment as well? How will you support the constant flow and flux of new technologies? You want to upgrade machines from traditional hard disk drives (HDD) to newer solid-state drives (SSD) and purchase new SSD-enabled endpoints, but you might wonder if the impressive throughput and reliability of SSDs will be able to justify the investment. Will your ever-changing, often mismatched infrastructure render endpoint encryption impossible? Will an incremental upgrade require the purchase of new management software at each stage? All of these questions are enough to turn support, security, and encryption into a professional nightmare.

Now your vision of a simple, unified security solution has become a reality. McAfee® Complete Data Protection Suites, managed by McAfee® ePolicy Orchestrator® (McAfee ePO™) and

complemented with Intel® Solid-State Drive (SSD) Pro 1500 Series, offers just such an answer. With comprehensive support for a broad range of various solution combinations, the benefits are numerous. You get great performance, high-level information security, ease of management, comprehensive endpoint encryption, and proven reliability—all at a lower cost of ownership.

Optimized Security: Where Great Performance Meets High Flexibility

Great Performance with Hardware-Based Encryption

Introducing Intel's advanced SSD client solutions built for business: the Intel SSD Pro 1500 Series delivers consistently amazing performance with its transparency and speed in performing tasks such as boot-ups, restarts, and system resumes. In addition to faster computing, encryption can now execute within mere seconds instead of several minutes, all because these automatically self-encrypting drives rely on hardware.

Intel® SSD Pro 1500 Series

Features: The Intel SSD Pro 1500 Series is optimized for flexibility, reliability, integrated unified solutions, and easy power management.

Flexibility in Size
Available in both thin 2.5-inch and smaller M.2 form factors, the Intel SSD Pro 1500 Series was designed for the latest Ultrabook™ 2 in 1 devices and can also fit into more traditional PC platforms such as servers in data centers. The drive capacities range from 80 GB to 480 GB.

Enterprise-Ready Quality and Reliability
The Intel SSD Pro 1500 Series is designed to meet an annualized failure rate (AFR) of less than 1 percent, a significant decrease from HDD's 5 percent AFR.[1] More reliability means less downtime, thereby increasing user productivity—all of which helps dramatically reduce the total cost of ownership.

Integrated, Unified Solutions
By combining the Intel® SSD Pro 1500 Series with the powerful software stack from McAfee, your storage solution will be comprehensive and all-inclusive of both your existing and future infrastructure.

Power Management Aspect
The Intel SSD Pro 1500 Series accelerates platform performance with sequential read/write speeds of up to 540 megabytes per second (MB/s) and up to 80K random input/output operations per second (IOPS). In addition to strong performance gains, the Intel SSD Pro 1500 Series provides extended battery life through advanced low power modes reducing idle power by over 90 percent in comparison to a typical HDD.[1] When the Intel SSD Pro 1500 Series is coupled with a 4th generation Intel® Core™ vPro™ processor, power consumption is reduced another order of magnitude—from milliwatts to microwatts.

High Flexibility through Software-Based Encryption

McAfee Complete Data Protection Suites integrate a variety of tools to protect your data and prevent data loss. Managed by the McAfee ePO console, McAfee Complete Data Protection Suites provide the highest flexibility for delivering security and ease of management present in the self-encrypting Intel SSD Pro 1500 Series. However, McAfee Complete Data Protection Suites also integrate seamlessly with many other drive technologies, including Opal drives and traditional HDDs.

With your endpoint estate growing increasingly more diverse and mobile, devices and sensitive enterprise data are highly vulnerable. The varied configurations of storage and security solutions present on these endpoints demand smart software that can detect and automatically act upon threats. McAfee ePO can do just this. If McAfee ePO detects an incompatible or unsupported combination, it will continue the activation process using software encryption instead of the native HDD functionality. This management can be accomplished remotely whether the platform is powered on or off, lessening the need for costly in-person remediation.

Offering ease of management, McAfee ePO provides a single pane of glass console provides end-to-end visibility, real-time reports, simplified security operations to streamline workflows, and an open architecture connecting management of both McAfee and third-party solutions.

McAfee ePO also helps to simplify discovery and provisioning of Intel® Active Management Technology (Intel® AMT). McAfee ePO takes advantage of Intel AMT to let security administrators remediate compromised systems, enable energy-saving initiatives, wake systems, and apply proactive security to reduce security operations costs while enhancing security posture.

Proven Reliability at a Lower Cost of Ownership: Better for Less!

McAfee Complete Data Protection Suites combined with the Intel SSD Pro 1500 Series helps provide both enhanced information security and better business value. With no moving parts, SSDs reduce the risk of data loss while consuming less power than a traditional HDD. The Intel SSD Pro 1500 Series was designed specifically to reduce employee downtime and to fit into both newer and more traditional platforms—working with what you have to help ensure easy deployment and lower the cost of ownership.

Additionally, the open platform of McAfee ePO can help you retain current operability and provide for the quick adoption of future security innovations. Without the need for new management software, there won't be drawn-out installation, down-time, or user training to impede productivity. Your company's dollars and employee hours are maximized, all while retaining data security.
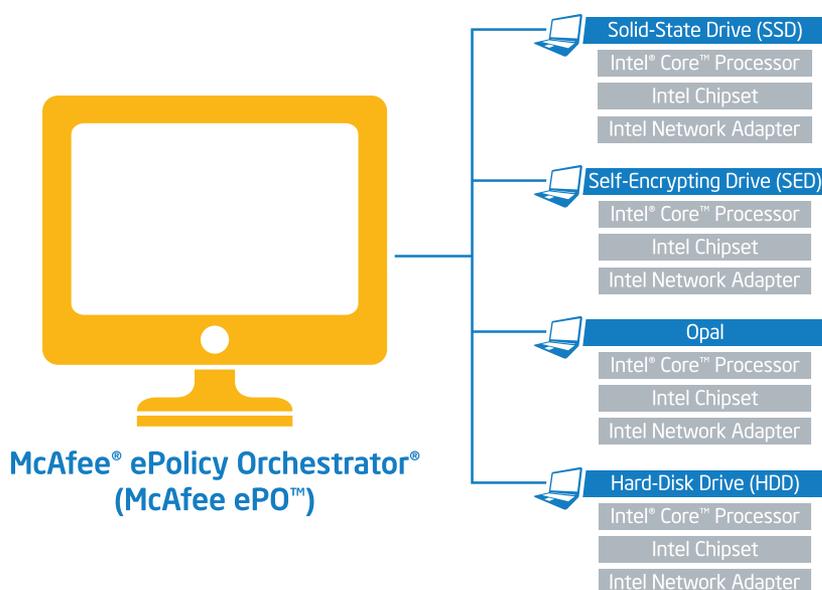
Figure 1. McAfee software integrates seamlessly with many drive technologies, including solid-state drives, self-encrypting drives (SEDs), Opal drives, and traditional hard-disk drives (HDDs).

Better Together

Your vision of a security solution that can easily and effectively manage your dynamic environment has arrived. With the exciting combination of Intel SSD Pro 1500 Series and McAfee Complete Data Protection Suites, you can confidently proceed with upgrades, adoption, and endpoint encryption. Let the comprehensive security solutions provided by McAfee Complete Data Protection Suites and the Intel SSD 1500 Pro Series make your professional dream come to life.

Opal Drives

Developed by the Trusted Computing Group (TCG), a not-for-profit international standards organization, the Opal specification defines how to apply hardware-based encryption to hard drives (rotating media), solid-state drives, and optical drives. Drives designed to the Opal specification essentially offload the burden of encryption from software to hardware. Opal drives inherently initialize quickly, requiring just minutes due to self-encryption at the hardware level, compared to software-based encryption of the drive's contents, which can take up to several hours.

McAfee® Drive Encryption provides the capability of performing software encryption for drives outside of the Opal specification, in addition to initialized drives that do run Opal.

Self-Encrypting Drives

What can self-encrypting drives do for you?

Because the drives default to encrypt on the hardware level, you can effectively reduce cost and minimize impact and liability. Self-encrypting drives (SEDs) do this through two real-world solutions: Auto Lock and Instant Secure Erase.

Auto Lock: When power is removed, SafeStore* local key management maintains and controls the encryption keys unlocking SEDs at power-up, secures user-selected volume groups, and authorizes the drives to encrypt and decrypt data with pass phrase and security key management.

Instant Secure Erase: Quickly and easily renders all data on the drive indecipherable, enabling secure drive returns, reuse, or resale.

How do you manage self-encrypting drives?

Self-encrypting drives can be managed by McAfee ePO™, which comes standard in both the McAfee® Complete Data Protection Suites and in the McAfee® Complete Endpoint Protection—Business Suite.

Enterprise-Ready Solutions for Comprehensive Data Security

Learn More

For more information on comprehensive security solutions from Intel and McAfee, visit the following websites:

Websites

McAfee® Complete Data Protection Suites
www.mcafee.com/us/products/data-protection/index.aspx

Intel® Solid-State Drives
www.intel.com/content/www/us/en/solid-state-drives/solid-state-drives-ssd.html

White Papers/Solutions Briefs

Improving Data Protection with McAfee® Drive Encryption
www.intel.com/content/www/us/en/it-management/intel-it-best-practices/improving-data-protection-with-mcafee-drive-encryption.html

Keep Your Client PCs Safer, Wherever They Go
www.mcafee.com/us/resources/solution-briefs/sb-keep-your-client-pcs-safer.pdf

Protect Your Company's Data with Efficient Encryption and Secure Remote Management
www.mcafee.com/us/resources/white-papers/wp-protect-your-companys-data-with-efficient.pdf

Top Reasons to Standardize on 4th Generation Intel® Core™ vPro™ Processor Family
www.intel.com/content/dam/www/public/us/en/documents/sales-briefs/high-performance-computing-4th-gen-core-vpro-sales-brief.pdf

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