



A background image showing a laptop on a desk with a speedometer overlay. The speedometer has markings from 0 to 7.0 and a needle pointing towards 4.0. The scene is dimly lit, suggesting an office or laboratory environment.

Trend Micro Endpoint Security

Immediate Protection. Less Complexity. 

 High Performance for
Everyday Usage
Scenarios as Tested
by NSS Labs

A Trend Micro Perspective | March 2009

TREND MICRO ENDPOINT SECURITY

HIGH PERFORMANCE FOR EVERYDAY USAGE SCENARIOS

I. INTRODUCTION

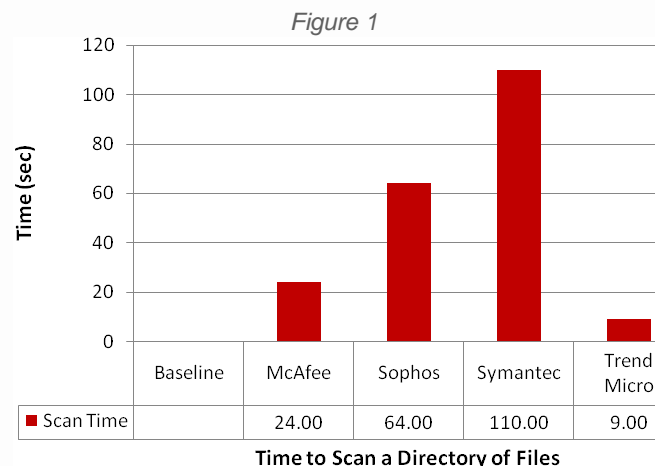
An exponential growth in malware is driving the need to add more technology to endpoint security to protect users from complex threats. This has resulted in many endpoint security products having an increasing impact on user productivity.

Endpoint security can affect the performance of several everyday operations, including opening and closing applications several times per day, and retrieving and storing data on several locations. Overall resource consumption, especially memory and CPU, can also have a direct impact on a user's ability to simultaneously run multiple applications at acceptable speeds. If the impact on performance is too severe, users begin to look for ways to circumvent the security, exposing the enterprise to serious threats.

NSS Labs, an independent third party testing lab, conducted a series of comparative tests to assess the performance and the resource impact of leading endpoint security suites. These tests simulated everyday user activities to assess the impact of security on user productivity. Trend Micro's results in these tests speak for themselves. Our continuous efforts to lower endpoint resource consumption have been extremely successful and the NSS test results showed that in the categories that truly impact everyday endpoint usage and user productivity, Trend Micro OfficeScan™ 8.0 outperforms competitor's solutions. To learn more about the NSS anti-malware testing, please visit www.nsslabs.com/anti-malware or see [full report](#).

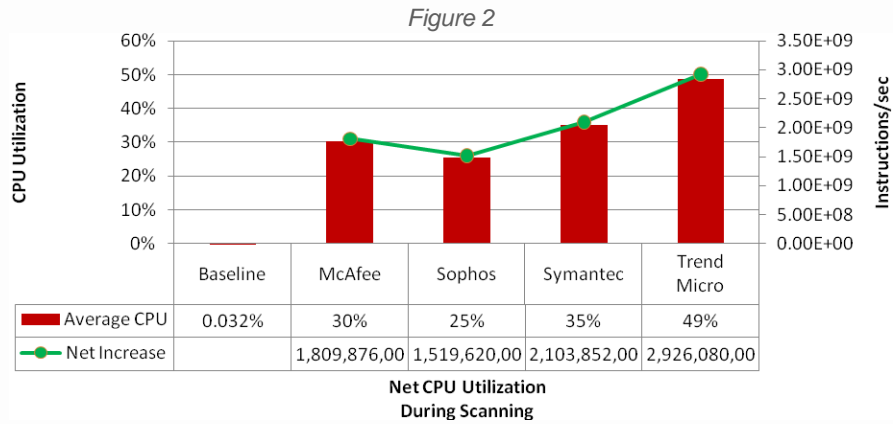
II. EVERYDAY USE CASE 1: SCANNING THE SYSTEM FOR MALWARE.

While all of today's anti-malware solutions provide real-time on-access scanning, running full scans on endpoints is still a best practice for many enterprises. Typically, these full scans need to be scheduled at times where most of the endpoints are up and running, generally during business hours. Thus the resource consumption and duration of this operation has a significant impact on a user's ability to perform regular duties. Trend Micro OfficeScan has a slightly higher impact on CPU utilization during full scans, but it finishes scans in just a fraction of the time needed by competitor's products.

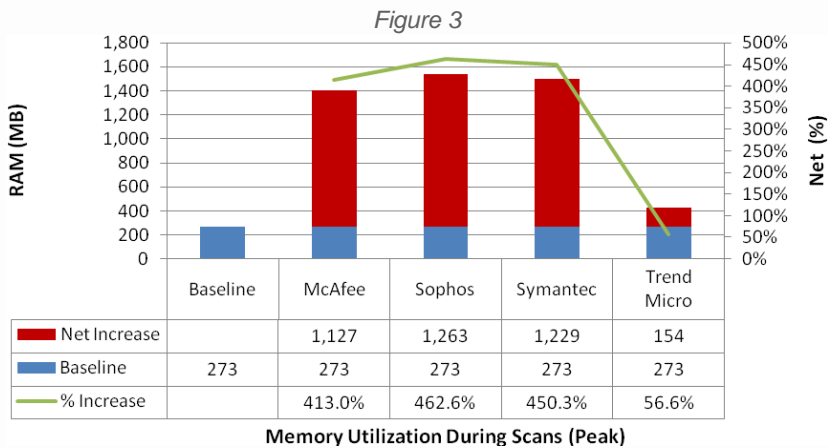


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During the full scan, Trend Micro OfficeScan requires significantly less memory than the other products in the test. This means that users are able to continue to work and be productive while a scan is running. For endpoints using McAfee, Symantec, or Sophos endpoint security, a full scan is virtually impossible, as the software alone consumes about 1GB of memory during that scan operation.



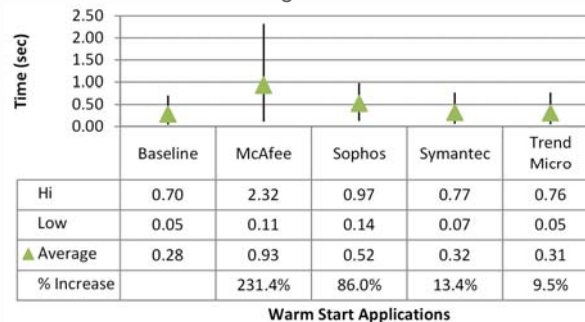
III. EVERYDAY USE CASE 2: STARTING APPLICATIONS

In today's enterprises, users are required to work with various applications, sequentially or simultaneously. Users open and close applications, or have one application invoke key components from another application (for instance, Microsoft™ Outlook uses Microsoft™ Word as the default editor for emails). If endpoint security causes a delay in opening a program, it has a significant impact on the user's capability to easily switch from one working context to another, thus impacting overall productivity. Of all tested endpoint security products, Trend Micro OfficeScan adds the least delay during application warm-start, contributing to increased overall productivity and user experience. See [full report](#).

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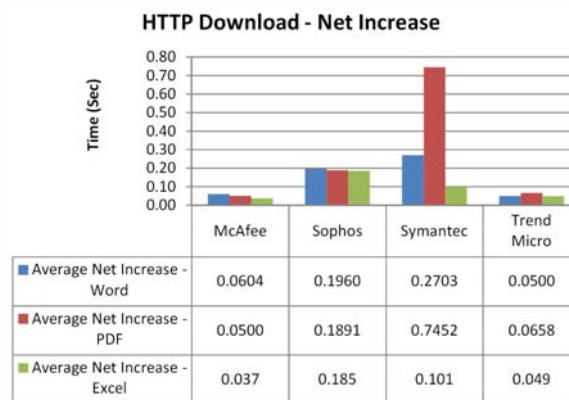
Figure 4



IV. EVERYDAY USE CASE 3: DOWNLOADING FILES

It is often necessary for users to access and quickly review data found on the Internet. The ability to do so without the security solution adding significant delay is important. New Web 2.0 technologies and internal portal applications can also delay web downloads, impacting a user's ability to access and work with shared files. In the average of several tests conducted with various formats and file sizes, Trend Micro OfficeScan adds the least overhead, thus contributing to easy access and uninterrupted flow of work.

Figure 4



V. SUMMARY

Out of four leading endpoint security solutions Trend Micro OfficeScan performs best in common everyday operations. These operations were chosen from a variety of tests performed by NSS-labs to best illustrate the real-life scenarios most likely to impact a user's productivity. With the least impact on the most common everyday business actions, Trend Micro OfficeScan enables enterprises to support productivity, increase user efficiency, and save on the cost of administration. See [full report](#).

TREND MICRO INCORPORATED

Trend Micro Incorporated is a pioneer in secure content and threat management. Founded in 1988, Trend Micro provides individuals and organizations of all sizes with award-winning security software, hardware and services. With headquarters in Tokyo and operations in more than 30 countries, Trend Micro solutions are sold through corporate and value-added resellers and service providers worldwide. For additional information and evaluation copies of Trend Micro products and services, visit our Web site at www.trendmicro.com

TREND MICRO INC.

10101 N. De Anza Blvd.
Cupertino, CA 95014
US toll free: 1+800-228-5651
phone: 1+408-257-1500
fax: 1+408-257-2003
www.trendmicro.com

