

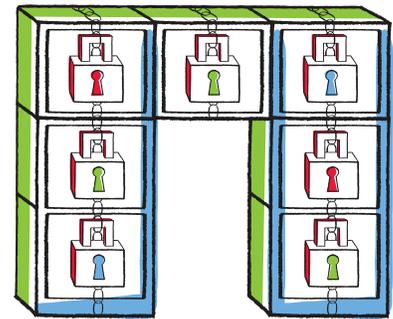


NetApp®



## Joint Solution Brief

# NetApp and McAfee On-board Storage Security: Safeguarding Your Data Center



### KEY BENEFITS

#### Simpler Management

- Manage antivirus from the storage management interface
- Single point of control for both storage and antivirus
- Eliminates the external server required for antivirus scanning

#### Flexible Scanning Options

- Option for real-time, scheduled, or manual scanning during off-peak hours

#### Broader Protection Environment

- Support for data access from both Windows® and UNIX®

#### Higher Availability

- Take advantage of storage cluster architecture for failover of multiple scan engines

#### Performance

- Removes the overhead of off-box protocol and data copy
- Only scans modified files during on-access scanning

### The Challenge

Anti-malware solutions are the de facto standard in today's enterprise environments worldwide. Network-attached storage is constantly exposed to malware if it remains unprotected. In its simplest form, an infected file could get onto the networked storage and spread to client computers throughout the environment.

Off-box storage anti-malware solutions available today have several drawbacks:

- Require a separate anti-malware scanning server, increasing IT overhead
- Become a performance bottleneck since they use network protocol to communicate to storage
- Offer limited failover, leaving storage systems exposed to malware during downtime

An integrated approach is needed to make sure anti-malware works in lock-step with the storage system.

### The Solution

Over 50 million enterprise users worldwide rely on the McAfee anti-malware technology for endpoint protection. McAfee VirusScan® Enterprise (VSE) On-board for NetApp® extends the

proven McAfee VSE technology to the data center by providing on-board, real-time threat protection to NetApp unified storage systems. Since the product is fully integrated with the NetApp Data ONTAP® 8.1 (Cluster-Mode) software platform, it does not require any installation, downtime, or hardware maintenance.

Every time a user uploads a file to the networked storage system, there is a potential for proliferating malware infections throughout the storage system, the data center, and the rest of the network. McAfee VSE On-board for NetApp stops malware in its tracks before it ever reaches the mission-critical data. It scans files in real-time when they are added or modified on the storage system. Scanned file information is persistent, eliminating load during on-access scanning as only modified files are scanned. If an infected file is detected, it is immediately deleted and/or quarantined, safeguarding the massive amounts of data stored in the data center.

The solution offers a choice of on-access or on-demand scanning, enabling organizations to back up and restore storage hardware at will while

keeping the data secure. On-demand scanning can scan a single file or the entire cluster and anything in between and can be run manually or on schedule.

Scalability is a key design consideration in clustered storage systems. The McAfee anti-malware solution takes advantage of the NetApp cluster architecture to support failover of multiple scan engines.

It supports data access from both Windows (CIFS) and Linux® or UNIX (NFS), a choice organizations need to future-proof their storage environments.

McAfee VSE On-board for NetApp is administered by the NetApp storage management console. The common management interface makes sure of a coordinated, proactive defense against malicious threats and attacks on the enterprise. Different security policies can be set for different volumes or shares. With the NetApp storage management interface, the security for your storage system is easy to configure and easy to manage.

### NetApp Data ONTAP 8 Operating in Cluster-Mode

The NetApp® Data ONTAP® 8 operating system operating in Cluster-Mode helps you achieve results and get to market faster by providing a scalable, unified storage platform that enables you to build a shared IT infrastructure foundation. It provides a non-stop operating environment that offers the highest level of flexibility to support the most diverse workloads and an ability to respond on-demand as your needs change. Data ONTAP 8 operating in Cluster-Mode extends the storage domain of a high availability (HA) pair of controllers to multiple pairs of controllers. Your storage is virtualized across as many as twelve HA pairs, managed

as a single pool of resources and name space. In Cluster-Mode, your capacity scales from a few petabytes up to 10's of petabytes. Virtualizing your storage across multiple pairs of controllers provides nearly limitless scalability for even the most data intensive environments, thus providing maximum flexibility and operational efficiency.

### About McAfee

McAfee, a wholly owned subsidiary of Intel Corporation (NASDAQ:INTC), is the world's largest dedicated security technology company. McAfee delivers proactive and proven solutions and services that help secure systems, networks, and mobile devices around the world, allowing users to safely connect to the Internet, browse and shop the Web more securely. Backed by its unrivaled Global Threat Intelligence, McAfee creates innovative products that empower home users, businesses, the public sector and service providers by enabling them to

### SOLUTION COMPONENT

NetApp Products	McAfee Products
Data ONTAP 8.1 Cluster-Mode	VSE On-board for NetApp

prove compliance with regulations, protect data, prevent disruptions, identify vulnerabilities, and continuously monitor and improve their security. McAfee is relentlessly focused on constantly finding new ways to keep our customers safe. <http://www.mcafee.com>

### About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at [www.netapp.com](http://www.netapp.com).

Go further, faster®

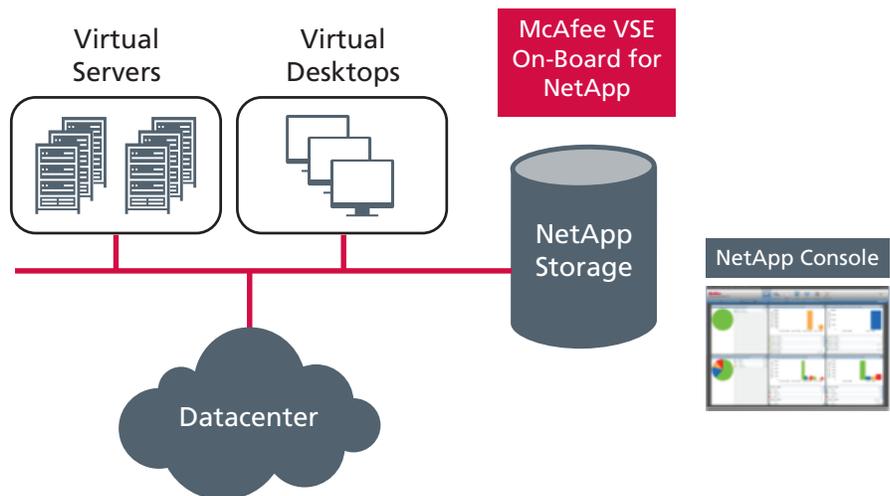


Figure 1) McAfee VirusScan Enterprise On-board solution for NetApp unified storage systems. (graphic supplied by McAfee)