



NetApp™
Go further, faster



Infrastructure Solutions

Protecting Your Company's Sensitive Data

Keep your most valuable assets safe from internal and external threats

KEY BENEFITS

Maintain Your Competitive Advantage

Keep your trade secrets and other intellectual property from falling into the wrong hands.

Protect Your Reputation

Avoid the loss of credibility that comes from a security breach.

Minimize Risk by Controlling Access

Strengthen control over your sensitive data by providing access only to properly authorized individuals.

Reduce the Cost of Securing Your Data

Deploy NetApp storage security solutions transparently, without costly changes to existing storage infrastructure, applications, databases, servers, or user workflows.

Secure data at rest across all applications and storage with a single security platform.

Protecting your sensitive data is top priority. The challenge is to provide strong security for your sensitive data while simultaneously becoming more collaborative and nimble in your datacenter processes. You want to share your data, but only with the right people, so you probably already have a perimeter security system in place. While perimeter systems, such as firewalls and intrusion prevention systems, are good at protecting against outside attacks, they do very little to protect against curious or malicious insiders who can easily gain access to your most sensitive data. Disgruntled or irresponsible employees, compromised VPN connections, and service or contractor staff can easily circumvent your perimeter security systems. In a recent study by the Computer Security Institute/FBI, 67% of companies reported insider attacks.

The answer? Encryption.

MAINTAIN YOUR COMPETITIVE ADVANTAGE

Data is your most valuable asset. It's the lifeblood of your business, and, in many cases, it's what gives you your competitive edge. Your source code, engineering diagrams, and customer database all set you apart from your competition, and losing

any of them could have disastrous results—damage to your reputation and brand; loss of customer, partner, and investor trust; and loss of business to competitors.

KEEP YOUR REPUTATION INTACT

Your business is built on a foundation of trust. Your customers and employees trust you will keep their personal information safe. You trust that your employees will keep your trade secrets and other intellectual property from falling into the wrong hands. Shareholders invest in your company because they trust you will keep your intellectual property safe and build a thriving business. Having to publicize a security breach can compromise those foundations and threaten your company. Not only do you risk losing your competitive advantage, you also open yourself up to damaging lawsuits that could severely impact your bottom line and the survival of your business.

SECURE ALL DATA TYPES WHEREVER THEY ARE STORED

To maintain your competitive advantage and keep your reputation intact, you need a data security solution that allows you to more effectively manage business risk, works seamlessly with your current IT environment,

is easily deployed and managed, and protects against internal and external attacks. With NetApp storage security solutions you can lock down stored data with strong encryption and route access for your safeguarded data through secure hardware. Our storage security solutions are designed to maximize security without impacting performance or user workflows. As a result, you can confidently and automatically encrypt all your sensitive data, whether it resides on NAS file servers, SAN and IP-SAN storage systems, or tape media (FC and SCSI). Even if you send tapes offsite for storage or send a disk in for repair, you can be confident that the sensitive data they contain is safe from unauthorized access.

MINIMIZE RISK OF UNAUTHORIZED DATA ACCESS

To get the most from your information you need to share it, but only with the right people. To prevent users from accessing the data of other workgroups, you can compartmentalize data in shared storage. Using our Cryptainer storage vaults, you can compartmentalize data in vaults and encrypt each vault with a different key. So while engineering data and HR data share the same storage, perhaps in a virtualized

environment, each data set can only be accessed by the department that created it. By assigning role-based access, engineers can access their engineering data, but they cannot access the HR data. Similarly, network and storage administrators can manage data but not read it.

For added security, you can protect your NetApp storage security system from unauthorized administrative access by requiring two-factor authentication with smart cards. For sensitive recovery operations, a quorum of cards is required to ensure no single administrator can compromise your security environment. And with support for up to 10 million keys, the system has the scalability to protect all your data.

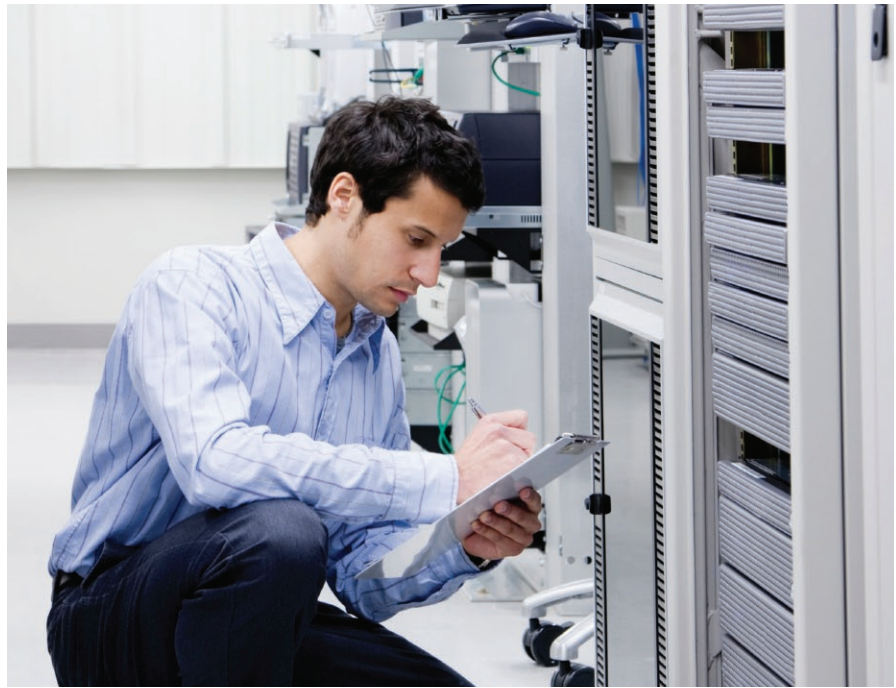
MAXIMIZE SECURITY

NetApp storage security systems help protect your data from a broad range of internal and external attacks. You get strong protection for your sensitive data as a result of our layered security model—even if someone breaks through all of your other levels of defense and gains access to the encrypted data, they will not be able to access the data without breaking the encryption.

At the heart of our storage security systems is our storage encryption processor (SEP), which enables fast, non-disruptive encryption and key management and has been awarded one of the highest levels of certification for security products from the National Institute for Standards and Technology. To maximize security, our SEP uses the Advanced Encryption Standard (AES) 256-bit encryption algorithm as well as SHA-256 and SHA-512 hashing algorithms. In addition, all NetApp storage security solutions use a hardware-generated number generator to create truly random, unpredictable keys. We are helping create the standards for key management in the IEEE P1619.3 community. You can rest assured that your data is safe with us—now and in the future.

Protect against theft and tampering

To provide you with maximum security, our encryption keys are generated, managed, and maintained inside secure hardware. Each key is encrypted using the same AES-256 encryption algorithm and keys never leave the secure hardware in cleartext. Keys are stored securely inside the appliance and can be backed up to the NetApp Lifetime Key Management system for centralized key management and disaster recovery.



Your NetApp storage security solution remains secure, even if it is stolen, if you configure it to power up only when the appropriate system card is inserted. If someone tries to physically probe it in an attempt to access encrypted data, all encryption and decryption services are automatically disabled and all encryption keys deleted, making your protected data unavailable.

DEPLOY QUICKLY WITHOUT DISRUPTING WORKFLOWS

You can install NetApp storage security solutions—in-line or connected to a switch—in a matter of hours. Our storage security solutions support all standard storage protocols to integrate transparently into your existing environment. Your authorized users can read, write, and modify files as before, without changing how they work. This transparency translates into a lower total cost of ownership and minimizes your deployment risk.

PARTNER FOR SUCCESS

A data security solution requires more than just technology. You are only as secure as the people, processes, and products you utilize. We've been offering industry-leading storage solutions for over seven years. To

help you succeed using our technologies, we offer worldwide services and support from deployment to ongoing management.

Our fixed-price, fixed-scope DataFort Design and Implementation service can help you quickly and efficiently deploy your NetApp storage security solutions with minimal impact to ongoing operations. Our service provides an optimal design that facilitates a smooth and efficient deployment into complex, distributed environments. Our highly-trained and experienced NetApp or partner Professional Services engineers can help you reduce the risk of downtime and performance problems that may result from storage or software misconfiguration.

When you partner with NetApp's Professional Services and Global Support teams, you gain access to our extensive storage expertise, innovative technologies, and best practices. You can accelerate the return on your infrastructure investments and get the most business benefit from them. We respond quickly to your problems, no matter where in the world they occur, and with one of the most flexible support programs in the industry, you always get just the support you need for your unique IT and business requirements.

ACT NOW TO PROTECT YOUR DATA

When it comes to protecting your most valuable assets, you can rely on NetApp. We have a proven track record of successfully providing critical data security for leading companies and government agencies worldwide. To get started protecting your company's sensitive data, contact your local NetApp representative or request a security audit from the experts at NetApp Professional Services.

CUSTOMER EXAMPLE

Recently, a global high-tech company realized the need to protect their intellectual property data (chip designs, product road maps, etc.) that they share with various partners. Their primary objective was to protect this data, especially when it is located at off-shore partner sites, with minimal performance impact and no significant management overhead.

After investigating a number of storage security solutions, they selected a NetApp solution that includes both DataFort and KM500 appliances. This decision was based on our manageability and key management features. Our DataFort appliances make certain

only encrypted data is written to disk. Detailed and secure audit logs allow centralized record keeping of what data was accessed by which users, and when. By centrally storing and managing encryption keys, they have the ability to effectively shred data, even data residing at the off-shore partner site, quickly and efficiently when required.

Our unique combination of security features enables them to share IP with international partners while remaining confident the data

can only be accessed by authorized individuals. In case the data becomes vulnerable, they have the ability to instantaneously lock down and remove data in the event of a loss of security at the remote site.

Because our initial installation was so successful, they have expanded the project to protect their data throughout the world.

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



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