

Seagate NAS

Marketing Bulletin

What's Driving Data Security and Remote Access Inside

Asian CIOs have identified mobility as their number one strategic technology initiative as more organizations push out applications to connect and engage more effectively with customers, according to IDC. Additionally, by 2016, in the mature markets of Asia Pacific excluding Japan, over 60% of enterprise-class storage can be located at cloud service providers.

However, as a Ponemon Institute study shows, 54% of respondents have reported an average of five data breach incidents involving the loss or theft of a mobile device containing sensitive and confidential data that they are legally required to keep safe and secure. Earlier data breach studies by Ponemon estimated that the average total per-incident costs in 2009 were US\$6.75 million, compared to an average per-incident cost of US\$6.65 million in 2008.

Ponemon's findings highlight the need to centrally store and protect business-critical information while securing anytime-anywhere remote access. To this end, network attached storage (NAS) that controls file access from a centralized repository addresses this need.

In NAS systems that use the Seagate® portfolio of NAS drives—NAS HDD, Terascale™ HDD, Constellation® CS and Constellation ES.3/Enterprise Capacity 3.5 HDD—the encryption, redundant array of independent disks (RAID) protection and data transfer capabilities of the drives establish data security and reliable data access in cloud or mobility implementations.



Efficient encryption, disk retirement

Many NAS systems now feature government-grade hardware encryption technology that protects mission-critical data stored on the hard drive. Users can choose the level of security—from single to entire volume encryption—to match business requirements.

Unlike software-based encryption, Terascale HDD, Constellation CS and Enterprise Capacity HDD with Instant Secure Erase (ISE) or Self-Encrypting Drive (SED) options rely on the drive itself to encrypt data, so NAS system performance will not be compromised. Although the SED allows businesses to safely protect data at rest, it is not intended to replace other encryption solutions.

To reduce IT hard drive retirement cost, the Terascale HDD, Constellation CS and Enterprise Capacity HDD leverage ISE that can render as much as 3TB of data on an HDD unreadable in less than a second via a cryptographic erase of the data encryption key.

Non-disruptive RAID redundancy

NAS server software allows easy configuration of the drives in the storage array for different levels of RAID redundancy. For example, a 4-bay NAS supports RAID 1, 5 or 10, which automatically replicates files on multiple drives. If one or even two drives fail or are removed, business-critical data can be easily recovered.

Ironically, RAID configurations can sometimes result in unnecessary business disruption. To maintain business continuity, the Seagate NAS HDD with NASWorks™ software integrates error recovery controls, ensuring drives are not dropped from the NAS array and sent into a time-consuming RAID rebuild. Further, Seagate NAS drives have been designed to easily integrate with and support the most advanced networked storage RAID solutions.

Secure remote access

Seagate offers 6Gb/s SAS or SATA interface drives to enable easy integration into any secure third-party NAS platform and to deliver fast and reliable data transfers that help reduce latency and maximize NAS throughput for remote access.

Beyond the drives' optimized burst performance or high data transfer speed to the NAS operating system, encrypted network connections based on the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols allow files to be served over the local network or the Internet securely. Some NAS systems support Windows Active Directory or the Lightweight Directory Access Protocol, importing the user accounts of the server so the same set of usernames and passwords can be used to log in to the NAS. Pick a NAS solution that enables easy creation and management of user accounts and groups, and allows granular access control through setup of policies based on users, groups, services or time.

The Seagate portfolio of NAS drives supports simple, scalable and cost-effective ways to store and serve files securely over the network. According to IDC, NAS provides one of the best options for growing businesses with security, data redundancy and remote access, all features that will play a vital role in the near term as well as the foreseeable future.

The Seagate portfolio of NAS drives—the NAS HDD, Terascale HDD, Constellation CS and Enterprise Capacity HDD—populate major NAS platforms, bringing the benefits of enterprise-grade encryption and RAID to even the smallest of businesses and enabling users to keep terabytes of business-critical data safe, secure and protected from hardware failure, theft or file corruption.



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