

Data Security at Hitachi Data Systems

The need to apply policy-based data security to the storage environment is more prevalent than ever. Storage and security can no longer remain two separate strategies. Securing your data from its point of conception throughout its lifecycle and into expiration is an imperative.

Ensure Your Data Is Secure as It Grows, Transforms and Changes

Today, data security breaches can cost a company hundreds of millions of dollars in such areas as recovery efforts, brand erosion and customer churn, legal issues and IT infrastructure rebuild, among others. You require data storage solutions that comply with regulatory, industry and your own corporate requirements. To address these challenges, Hitachi Data Systems and its technology partners provide security-enhanced data storage solutions that address key areas of data security across the enterprise (see Figure 1).

Hitachi Data Systems Security Offerings

Data Confidentiality: Leverage data encryption on the Hitachi Universal Storage Platform® V and VM (USP V and USP VM) and on the Hitachi Virtual Storage Platform (VSP) to prevent internal and external threats to sensitive information. Incorporate self-encrypting hard disk drives into your Hitachi Adaptable Modular Storage (AMS) 2000 family system to ensure confidentiality of data at rest with no degradation in throughput.

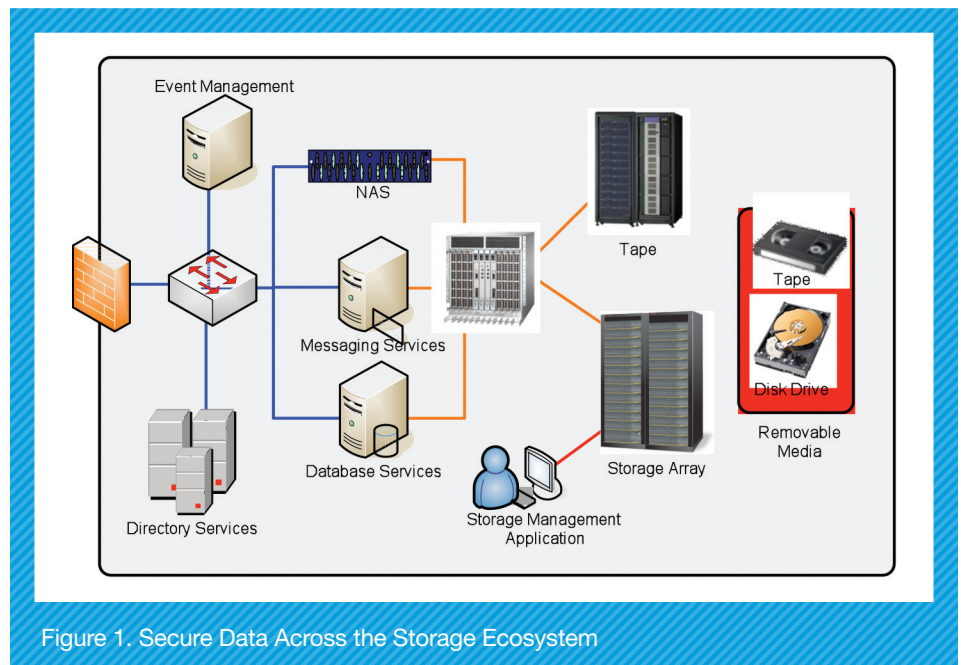


Figure 1. Secure Data Across the Storage Ecosystem

Data Immutability with Hitachi Content Platform: Apply data protection and retention policies to preserve data integrity in support of regulatory requirements.

Secure Partitioning: Logical partitioning (multitenancy) is supported on the VSP, USP V, USP VM and previous generations of Hitachi enterprise storage, and it is common criteria certified.

FEATURE HIGHLIGHTS

Encrypting Back-end Directors for Enterprise Storage

- Controller-based encryption for data at rest on USP V, USP VM and VSP
- Encryption performed on the storage system for enhanced security
- No degradation in throughput and no latency; optimal performance is maintained
- Encryption for both new and existing data for immediate risk mitigation
- Secure data migration with Hitachi Tiered Storage Manager software
- Fully integrated and simplified Hitachi key management; the need for costly external key management systems is eliminated

Self Encrypting Hard Disk Drives for Modular Storage

- Data confidentiality for the AMS 2000 family
- Encryption of data at rest in the hard disk drive
- No degradation in throughput and no latency; optimal performance is maintained
- Encryption for both new and existing data for immediate risk mitigation
- Green offering: encryption adds little-to-no additional power consumption
- Industry compliant: adheres to FIPS 140-2 Level II requirements
- Fully integrated and simplified Hitachi key management; the need for costly external key management systems is eliminated

Audit Logging

- Complies with event correlation clauses in regulations, such as SOX, GLBA, HIPAA, PCI DSS and BASEL II
- Supported on: VSP, USP V, USP VM, AMS 2000 family and previous generation, Hitachi Command Suite and Hitachi Content Platform
- Correlates storage hardware and software security events to single source
- Supports security event management or security information and event management (SEM/SIEM) or other event management solutions

External Authentication

- Supports external authentication of privileged users
- Integrates VSP, USP V and USP VM into your existing data security and compliance infrastructure
- Supports Active Directory and LDAP

Please check with your Hitachi Data Systems representative for detailed feature availability information.

BUSINESS BENEFITS

Comply with Requirements

- Regulatory: Sarbanes-Oxley (SOX), Gramm-Leach-Bliley Act (GLBA), California SB1386, BASEL II, etc.
- Industry: Health Insurance Portability and Accountability Act (HIPAA) and PCI Data Security Standard (PCI DSS), etc.
- Corporate: human resources (HR) and finance department policies, etc.

Reduce Capital and Operational Expense

- Leverage your existing infrastructure: separate security systems not required
- No need for dedicated personnel to enable encryption and key management

Incorporate Secure Storage Flexibly into Your IT Infrastructure

- Hitachi Data Systems offers data security solutions for the storage ecosystem, including those supporting: USP V, USP VM, VSP, AMS 2000 family and previous generation, Hitachi Content Platform, Hitachi NAS Platform (powered by BlueArc®) and Brocade Fabric Security.

Green Benefits

- Industry's first "green encryption"
- Each encrypting back-end director (EBED) consumes less than 2 watts electricity
- Heat load is only about 3% higher than a standard back-end director

Data Sanitization: LUN- and extent-level data sanitization in compliance with U.S. Department of Defense 5220.22-M overwriting guidelines can be performed on the VSP, USP V and USP VM.

Secure Cloud: Hitachi offers transferable functionality from secure storage hardware and software to secure private cloud.

Secure Management: Secure IP-based storage management with role-based access control (RBAC) is offered on the VSP, USP V,

USP VM and Hitachi AMS 2000 family, as well as Hitachi Network Storage Controller and Hitachi Workgroup Modular Storage.

Traceability: With audit logging capabilities on all major Hitachi storage systems, you can maintain accurate recordings of all major activities performed by administrators.

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