



*Integrating People, Process and Technology*

## Consolidation of DAS storage and NetApp Implementation

### At a Glance

#### CHALLENGE

Higher storage cost because of DAS storage and no scope for the flexible storage growth

#### SOLUTION

Consolidate DAS storage silos on NetApp with expandable storage capabilities

#### BENEFITS

- Centrally managed server
- Improved backup and recovery
- Simple, low-headcount remote management with VMware integration
- Expandable storage capabilities

### About Client

Excelsior College, formerly Regents College, was founded in 1971. With over 130,000 graduates, Excelsior College with over 130,000 graduates propels students towards their career goals. Excelsior College helps working professionals earn degrees with its flexible online or traditional course offerings.

### The Challenge

Excelsior College was running their applications in distributed direct attached storage that was resulting in higher storage management cost and also there was no scope for the flexible storage growth. Need to consolidate disparate and widely distributed direct-attached storage (DAS) to reduce storage management cost and complexity and to flexible storage growth of up to 40% data growth per year to support expanding curriculum.

### The Solution

GSS Infotech designed and implemented a unified, single-interface storage architecture by consolidating DAS storage silos on NetApp to streamline storage management and improve efficiencies and provided scalability for immediate needs and flexibility for non-disruptive expansion.

### Methodology

GSS Infotech consolidated DAS distributed among 60 servers into a single centrally managed storage system. Delivered easy integration with a VMware environment consisting of 55 VMs, 4 ESX servers, and virtualized applications including Lotus Domino, Microsoft Office SharePoint Server, and Microsoft SQL Server.

### Solution Components

#### NetApp Components

- NetApp FAS920c storage system
- NetApp FAS3020c storage system
- NetApp FAS3020 storage system
- NetApp SnapManager for SQL Server
- NetApp SnapRestore
- NetApp SnapMirror
- NetApp de-duplication

For more information about storage systems management services:

#### CONTACT SALES

Tel: 877-452-3700

e-mail: [info@gssinfotech.com](mailto:info@gssinfotech.com)

Web: [www.gssinfotech.com](http://www.gssinfotech.com)



## Locations

### HEADQUARTERS

#### GSS Infotech

Cyber Pearl, Block - 2, Level - 5, Wing 05-01,  
HITEC City, Madhapur, Hyderabad - 500 081. AP. India.  
Tel: +91 40 44556600, Fax: +91 40 40028703  
e-mail: [india@gssinfotech.com](mailto:india@gssinfotech.com)

### MIDDLE EAST

#### GSS Infotech

P.O. Box 73030, Dubai Internet City, Dubai, UAE.  
Tel: +97 143 755 710, Fax: +97 143 672 786  
e-mail: [dubai@gssinfotech.com](mailto:dubai@gssinfotech.com)

Al Hafsia Building No:3, Office No:14,  
Extended Dabbab Street, Sulaimania, Riyadh, KSA.  
Tel: +966 1 4164577, Fax: + 966 1 4164576  
e-mail: [saudi@gssinfotech.com](mailto:saudi@gssinfotech.com)

### NORTH AMERICA

#### GSS Infotech

1699 Wall Street, Suite 201, Mt. Prospect, IL 60056, USA  
Tel: +1 847 640 3700, Fax: +1 847 640 3701  
e-mail: [chicago@gssinfotech.com](mailto:chicago@gssinfotech.com)

1762 Central Avenue,  
Albany, NY 12205, USA  
Tel: +1 518 452 3700, Fax: +1 518 452 3939  
e-mail: [albany@gssinfotech.com](mailto:albany@gssinfotech.com)

2842 Main Street, Glastonbury,  
CT 06033, USA  
Tel: +1 860 633 7174, Fax: +1 860 633 7162  
e-mail: [glastonbury@gssinfotech.com](mailto:glastonbury@gssinfotech.com)

655 County Road E  
West, Shoreview, MN 55126, USA  
Tel: +1 651 604 5770, Fax: +1 651 604 5775  
e-mail: [minneapolis@gssinfotech.com](mailto:minneapolis@gssinfotech.com)

11875 Dublin Blvd, Suite # C155, Dublin, CA 94568, USA  
Tel: +1 925 803 1117, Fax: +1 209 879 0162  
e-mail: [dublin@gssinfotech.com](mailto:dublin@gssinfotech.com)

2550 US Highway No 1, NJ-08902, USA  
Tel: +1 888-248-5627, Fax: +1 866-726-0520  
e-mail: [northbrunswick@gssinfotech.com](mailto:northbrunswick@gssinfotech.com)

## Environment

- Applications: VMware, Lotus Notes
- Databases: Oracle 10g R2, SQL Server
- OS: UNIX, Linux, Microsoft Windows
- Protocols: CIFS, NFS, iSCSI

## Benefits

- Consolidated DAS distributed among 60 servers into a single centrally managed storage system
- Substantially simplified storage management, allowing IT administrators to focus on other tasks
- Improved backup and recovery that established the foundation for a DR strategy implemented a year later
- Reduced backup from 30 hours to 3 minutes
- Slashed recovery from 2 days to 20 minutes
- Delivered easy integration with a VMware environment consisting of 55 VMs, 4 ESX servers, and virtualized applications including Lotus Domino, Microsoft Office SharePoint Server, and Microsoft SQL Server
- Provided the flexibility to achieve a non-disruptive upgrade when capacity growth needs were re-assessed

## About GSS Infotech

GSS Infotech is a fast growing Managed IT Service provider and operates globally with its headquarters in Hyderabad (India) and offices in USA, APAC and Middle East. GSS is a CMMI level -3 company with accreditations like ISO 27001, ISO 9001, and ISO 20000 for Quality, Security and Service management. With its 11 year-presence in the IT industry, it provides customized solutions to over 200 Fortune customers across verticals like Telecom, Manufacturing, Financial services, Insurance, Transportation, Healthcare, Legal, and Power, globally.

A Pioneer in managed IT Services, GSS offers a wide range of services to customers across the globe which includes

### Infrastructure Managed Services

- Virtualization Services
- Datacenter Services
- Remote Infrastructure Management Services

### Application Management services

- Application Development and Maintenance
- Testing- Verification and Validation

### Cloud Services

- Cloud Workshop & Visioning
- Evaluation / Proof of Point Services
- Cloud Solutions Engineering & Enablement
- Maintenance, Monitor and sustain on Cloud

GSS Infotech delivers scalable and cost-effective solutions to its customers with its impeccable blend of business expertise and delivery excellence in Enterprise Technology, Methodologies, and Implementation.