StorMagic

CASE STUDY

CAE S.p.A.

LOCATION BOLOGNA, ITALY **INDUSTRY** MANUFACTURING

Updated: 18th June 2025

CAE S.p.A. Reduces Hardware Dependency, Energy Costs and Management Time with SvSAN

BUSINESS CHALLENGE

CAE designs, builds and maintains reliable and effective systems for real-time monitoring, decision-making support and alerts during emergencies.

CAE's solutions are used both to mitigate the risk associated with extreme weather and hydrogeological events and to mitigate the impact of wildfires, as well as monitoring water resources even from the quality point of view.

CAE invests in innovative and interoperable technologies to provide reliable and tough solutions.

CAE's original environment consisted of a traditional Storage Area Network (SAN) connected through SAS and fibre channel. The manufacturer wanted to update its environment with a split virtualized infrastructure in two separate rooms connected over a LAN to reduce overall costs, and remove any single point of failure. While DataCore and VMware vSAN were shortlisted as options to consider, CAE was compelled by StorMagic's competitive price point and successfully tested it first.

"Our StorMagic SvSAN cluster was deployed and fully operational in less than two hours. We are able to remotely manage the entire system, which is a major improvement and time saver over traditional, physical SAN cluster management.

CAE is saving space, money and time: we eliminated four rack units, reduced power supply requirements by at least two kilowatts and are experiencing much faster shutdown and startup times compared to our previous solution."

Fabio Prosperi
Systems Information Manager, CAE S.p.A.

SOLUTION

Following a strategic consultation with value-added distributor, Ready Informatica, CAE chose StorMagic SvSAN to replace its traditional SAN, in a two node VMware vSphere cluster. SvSAN is managed by VMware vCenter plugin and WebGUI. Since installation, the customer has reduced infrastructure complexity, power consumption and hardware rack space consumed by the previous physical SAN. The time required for a complete infrastructure reboot has also been reduced by at least ten minutes. SvSAN is significantly more cost effective than its former solution and eliminates any single point of failure.

Server Configuration (Per Server)

SvSAN License	SvSAN 2TB Gold
Servers	Two Lenovo servers (per site)
CPU	2 CPUs, 8 Cores x CPU
Memory	256GB
Storage Capacity	2TB; 6 x 1.2TB SAS 10K, 4x RAID-1 volumes with hot spare disk
Networking	1Gbe, direct connection; IPSEC VPN through ADSL/ VDSL lines typically 3MBs/30Mbs; 8 network cards per server
Hypervisor	VMware vSphere with vSphere Essentials Plus Kit
Applications	Microsoft SQL Server, Back office database, website and data services
Data Protection	Veeam

WHY STORMAGIC

CAE S.p.A. chose StorMagic SvSAN for several reasons, including:

- **COST EFFECTIVE**
  Eliminates physical SANs by converging compute and storage into a lightweight commodity x86 server footprint, thereby dramatically lowering costs.

- **EASY INSTALLATION**
  SvSAN can be deployed as a single server, simple 2-node cluster, or multi-node cluster, with the flexibility to meet changing capacity and performance needs. This is achieved by adding additional capacity to existing servers or by growing the SvSAN cluster, without impacting service availability.

- **ENERGY EFFICIENT**
  Software-defined SvSAN requires much less power and cooling resources than traditional, physical SANs. CAE SpA reduced its power supply requirements by at least two kilowatts.

StorMagic
The Quadrant
2430/2440
Aztec West
Almondsbury
Bristol
BS32 4AQ
United Kingdom

+44 (0) 117 952 7396
sales@stormagic.com

www.stormagic.com