

### Company Overview

Derive Technologies™ client is “a privately-owned global investment firm with more than \$10-billion USD in assets under management,” focused on hedge fund management, real estate and cash management. Their corporate headquarters is in New York City, with major office locations throughout the globe.

### Challenges

- The Client engaged in a major undertaking at the end of 2007 to move their headquarters, including their entire Data Center, from one high profile location in New York to a new NYC location.
- Comprised in the relocation effort would be the move of some of the company’s existing IT Infrastructure, as well as the implementation of new technologies to improve current services and facilitate new business processes.
- The Infrastructure consultancy/VAR chosen to provide IT specific services during the relocation and Data Center upgrade (mid-2008) would be required to expertly coordinate their activities in a multi-vendor environment—re: additional vendors supplying application, physical architecture, power, heating/cooling, and other services.
- Most important would be to ensure that services to the company’s clients and offices across Asia and Europe – facilitated by existing and new aspects of the corporate IT Infrastructure – would remain uninterrupted. These include and services (e.g. trading, risk management, calculations, etc.) on the SunGard MONIS application suite and other business-critical software (SQL Server), as well as worldwide corporate mail and messaging.
- Among the challenges of the relocation would also be to perform segments of the move and new technology implementation(s) extremely quickly with, again, all key business services remaining continuous.

### Solution Snapshot

- Derive responded to The Client’s requirements with a cutting-edge Information Technology and Project Management solution – comprising, in addition to other elements, designs for Server, Network and SAN – for the Data Center initiative.
- Derive’s value to the initiative consisted of:
  - Vast experience in Data Center design and relocation.
  - Comprehensive, industry best-practices-based, Project Management acumen.
  - Design and implementation of Infrastructure upgrades—consisting of new, more efficient technologies which would better support The Client’s applications and data.
- New solutions proposed by Derive for The Client’s Data Center would include the employment of progressive, cost-effective Blade Server and Storage Area Network (SAN) technologies from Derive’s strategic partner, Hewlett-Packard® (HP®).
  - NOTE: Derive Technologies is a HP Reseller Partner in BladeSystems Servers and Storage.

### Business Needs/Key Benefits

- The result of Derive’s initiative for The Client was:
  - A well-planned, comprehensively documented overall implementation.
  - High Performance/High Availability (HA).
  - A seamless transition to new technologies.
  - Better support for existing applications and the implementation of new applications.
  - Availability of new, faster, more efficient business services.
  - Vastly improved data communications between The Client’s headquarters and their worldwide offices.
  - Also, the implementation of new monitoring /alerting systems (through the use of HP Insight manager).
  - Powerful ROI on the entire initiative.

### Resulting Technology

- HP BladeSystems Arrays & Storage AreaNetwork (SAN).
- SQL 2005.
- Active Directory 2003.
- MS Exchange 2007.
- BlackBerry Server (New).
- VMware Server (virtualization).
- NSI DoubleTech implementation and the repurposing of older DR servers onsite.
- Disaster Recovery (DR) and Citrix® Remote connectivity.

- In addition, Derive proposed other important technology offerings in response to The Client's requirements and to create further efficiencies throughout the project and data lifecycle. These included:
  - Virtualization
  - SQL and Server Consolidation
  - Security
  - Microsoft Exchange migration
  - Mobility (BlackBerry, other Smartphone) services
  - Disaster Recovery (DR) and Citrix® Remote connectivity.
- Derive's technology design included a specific, highly progressive response to The Client's critical requirement for continuous service and data availability during the move. This would be achieved by using Derive's enterprise class Configuration Center, located at 120 Wall Street, NYC.
- In the Configuration center, a complete Proof of Concept would be built wherein testing on the new technologies could be performed by personnel from The Client, Derive and The Client's application vendors in an environment mirroring the power, cooling, physical security, networking environment of the new Data Center. With parallel systems running throughout the relocation, the new technologies were fully configured according to The Client's, Derive's and the application vendors' specifications and moved directly into the new facility.
- Derive's proposed hardware implementation would be a large one, including 60 new HP Blade Servers, high-end HP Storage (Virtual Array 8100), 32T of storage and other cutting-edge technologies such as new DR services (NSI DoubleTech).
- Derive's implementation included deployment, installation, testing of:
  - All application data
  - HP Blade/ProLiant Servers
  - Backup platform—including LAN and SAN
  - MS SQL Cluster
  - MS File and Print Cluster
  - MS Exchange (parallel builds)
  - Fileserver replication
  - BlackBerry Enterprise Server (and device migration)
  - Login scripts—changes, writing new scripts, and additional testing
  - New DR Services
  - Rapid Deployment Pack (RDP)
  - HP Workstations in addition to full testing and rollout of workstation hardware, Derive also fully deployed Workstation images
- The overall offering would involve providing knowledge transfer to The Client's personnel, and all parallel contractors, as well as a full week of onsite Project Management and Engineering support during the actual move.
- Throughout the lifecycle of the project, Derive would also provide a complete suite of Project Management documents – including status reports, Quality Management (QM) documents, and Visio diagrams detailing system components – and application performance, system and network status reports.
- Derive would continuously detail all aspects of service, data and system uptime during the move, as well as milestones for the parallel infrastructure build/testing in Derive's Configuration Center, while also cutting over and performance-testing new infrastructure in The Client's new Data Center.
- Parallel location builds and testing at 120 Wall Street and The Client's new Data Center, and, subsequently, the entire move, were completed in a very timely fashion.

