



Curricuplan Hosting Environment

Developing a strategy to ensure that your access to our hosted applications continue despite a disaster has been a critical part in our IT planning process. Seacliff maintains a hosting operations disaster recovery strategy based on the requirement that your data and applications are available to you 24 hours a day, 7 days per week, 365 days per year. Seacliff has planned for business continuity of both eBoard and Curricuplan by establishing a multiple layers of redundancy in our systems, networks, and processes.

Continuity Type	Our Implementation	Average Recovery
Hot Standby Data copied automatically onto a secondary server or cluster and is transactionally consistent. The secondary server is automatically brought up if the primary fails.	All Curricuplan and eBoard servers are based on the latest technology from Dell Inc. Each server includes redundancy such as dual hot swap power supplies, Error Correcting Memory, Hot Swap Disks with RAID, and each server is minimally clustered with one redundant partner server.	10 seconds to 2 minutes
Warm Standby Data is copied onto a secondary cluster, although the data may not be transactionally consistent up to the minute, it does provide time sliced recovery when required.	Seacliff leverages Operating System Virtualization technology from VMWare Inc and data replication technology from NSI Software. Using these solutions, each Seagate Server and all data is replicated (copied) in real time to stand by server which can be powered on in the unlikely event of a complete cluster failure.	10 minutes to 30 minutes
Offsite Data Backup Storage * Data is frequently backed up onto media and is stored in a secure, offsite location.	Seacliff encrypts and replicates all critical data files offsite to a secure secondary hotsite location which is geographically separated from the primary facility. Using the same VMWare and NSI Software technologies described above, we can implement our plan to systematically recover all business operations in the event of a total co-location center failure or geographically centered disaster.	4 hours to 2 days

Infrastructure Risk Management

Risk management is the discipline and practice of continually assessing risk, determining the risks that are important to deal with and implementing strategies to mitigate those risks.

Seacliff has taken numerous steps to mitigate many of the risks associated with maintaining maximum application and Web site availability. We partner with providers that have constructed their datacenters and network infrastructure specifically to reduce risks associated with power failures, equipment failures, network outages and many other problems common to IT. We have also put in place policies and procedures to help reduce risks involving the human element including stringent security policies and procedures, security cameras, biometric and proximity access controls, and state of the art fire detection and suppression systems.

* Secondary hotsite facility is currently operating in test mode, full production is scheduled for Q1 2006.