
IT Disaster Recovery Budget Impact

— Tom Clark, CTO —

Cost Drivers for IT Disaster Recovery

- The need to ensure that proposed contingency arrangements are efficient and cost-effective
- The need to address all essential and critical infrastructure elements, systems and networks, in accordance with key business activities.

Recovery Time Objective

The recovery time objective (RTO) is the maximum tolerable length of time that a computer, system, network, or application can be down after a failure or disaster occurs.

KEY BUSINESS PROCESS STRATEGY

KEY BUSINESS PROCESS	BACKUP/RESTORE STRATEGY
IT Operations /Help Desk Call Center	Alternate Recovery Facility
Finance/Purchasing - I Visions	Hosted Data Storage facility
Student Information- Synergy	On Premise Restoration
Email	On Premise Restoration
Web Site	On Premise Restoration
Phone System	On Premise Restoration

Data Redundancy Options for Disaster Recovery

- Cloud-Based DR Solutions - Vendor provides application servers and data storage, security, power. Would require a separate, dedicated Internet connection to Vendor's Cloud service
 - Database, Application and Storage Services: \$2,250/month
 - Redundant 100 MBPS Internet connection: \$600/month (Burstable to 1GBPS)
 - Estimated Annual cost: \$34,200

Data Redundancy Options for Disaster Recovery

- Colocation - Vendor-provided rack space in shared data center. District provides own redundant hardware for network, servers and data storage. Would require additional dedicated Internet and wide area network (WAN) connections.
 - Network and server hardware, \$150,000
 - Computer hardware Rack space \$975/Month
 - WAN connection 500 MBPS, \$1,222
 - Redundant 100 MBPS Internet connection: \$600/month (Burstable to 1GBPS)

Data Redundancy Options for Disaster Recovery

- District utilizes existing SUSD facility such as a high school data room.
District would utilize existing equipment for network services. Servers, Data Storage, separate Internet connection would be acquired through emergency procurement in the event of an IT Disaster
- District would allow a 7-10 day window to restore Key Business Processes
 - Minimal “up front” costs - Services restored from established data backup
 - Financial/HR system hosted temporarily by vendor.
 - Emergency procurement - up to \$100,000 at the time of incident
 - Emergency Internet Connection - no upfront cost. Procured at time of incident

Questions and Comments

