

# Architect and Design

## Backup and Recovery

Un-recovered or lost data - it's the frustration of every IT administrator and a danger to every company's bottom line; resulting in possible lost revenue and productivity. Today's competitive marketplace and volatile economic climate cannot withstand the potential loss of customer data and/or business transactions induced by unreliable tape backup and recovery systems.

Today's requirements consist of disparate IT systems with increased dependability on information as a corporate asset. The increase of CRM, and Data Warehousing requires a more comprehensive and far reaching method to minimize the effects of data loss. A great deal of consideration must be given to which application's data is considered mission critical and needs to be restored first – and to which groups of users. This can be an incredibly daunting task for even the most seasoned IT manager.

But not for CDI's experienced consultants. Our Backup and Recovery – Architect & Design service helps your company create the proper backup and recovery architecture, environment, processes and plans that will minimize potential data loss and maximize data availability.

### Architect and Design Service

CDI employs a thorough design methodology where we evaluate your existing IT infrastructure and the amount of data that flows between users, servers, and systems. We architect and build an expert data protection and management system that supports and protects your enterprise operations and data assets. Some of the service tasks are as follows:

- Devise a system backup & recovery administration scheme and plan to mitigate common backup & recovery failures, disasters, and/or emergencies
- Prepare and maintain a backup media tracking system (e.g., tapes, CD-ROM)
- Create a back up process for necessary system files on the appropriate devices or media (e.g., magnetic tape, disks)
- Specify an archiving procedure adhering to industry regulations and control of storage growth
- Architect and Design backup & recovery processes and procedures to:
  - Restore files and system from backup device or media
  - Reinstall and repair operating systems (e.g., corrupt kernel image, volume header)
  - Maintain and reinitialize/repair disk drives
  - Verify and ensure the integrity of backups

Key to the entire system is its storage capabilities – if you can't back it up, then how can you expect to retrieve it? With a multitude of options available: tape, disk, CD-ROM, RAID, SAN, NAS, etc., CDI consultants will recommend the most suitable industry-leading storage devices that best handle specific applications, data and business information – based on the capacity, ease and speed with which data can be retrieved.

Determining which data needs to be recovered first, involves decisions that consider your business dependency and financial impact levels. IT staff, geographic locations, number of users impacted, physical environment, software applications, Web technologies are also considered. CDI consultants then Architect and Design these processes and procedures based on your unique overall requirements; making sure your business needs are aligned with, and supported by, the right IT backup & recovery solution.

### Offering Customers Confidence in Their Data

A properly designed backup and recovery system leaves no stone unturned. Finding out too late that certain applications, users or information have not been backed up can cost your company more than productivity – it could cost you your business.