SaveMyMemories.org

International Imaging Industry Association

The Technology of Disaster Recovery

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Recovering from virus attacks and hard drive failures - when is technology going to be free from failure and security risk?

Disaster Recovery

- Comparison:
  - Traditional photos
  - Digital photos
- Recovery:
  - After virus
  - From backup
- What goes wrong …..

Disaster with Traditional Photos

- Damage is visible
- Photo damage:
  - Mechanical
  - Chemical
  - Fading
- Collection damage
  - Sequence / Envelopes
  - Labels/annotations
  - Missing photos
- Recovery services

Disaster with Traditional Photos

- Damage is visible
- Photo damage:
  - Mechanical
  - Chemical
  - Fading
- Collection damage
  - Sequence / Envelopes
  - Labels/annotations
  - Missing photos
- Recovery services

Digital Disaster

- Damage rarely visible to user
  - Indistinguishable mechanical / media / file format damage
- Photo damage: unreadable
- Collection damage:
  - File structure / sequence
  - Metadata
  - Missing photos
- Recovery services
  - Mechanical / logical

Recovery from Virus

Using latest anti-virus software:

1. ‘Clean’ storage media on computer
2. Connect and ‘clean’ backup medium (if writable)
3. Restore data
4. ‘Clean’ all connected storage media again

Recovery from Backup

- Hard drive
- Optical disks
- Online service

What goes wrong….

1. Backup not readable
2. Problems included in backup:
3. Incomplete backups
4. Overwriting
5. Interruption
6. Online services

What goes wrong….

- Previously discussed:
  - Backup out of date – recent changes not included
  - Files missing (e.g. long file names, Metadata DB)
  - Backup across multiple media

Question

Recovering from virus attacks and hard drive failures - when is technology going to be free from failure and security risk?

Answer

Never!
Stone, Paper, Film, all carry some risk
Need to minimize risk; bring to an acceptable level