4500 Family History Centers Worldwide

- Computer & internet access
- Microfilm distribution
- Training and support
Today We’re Digitizing Microfilm Images
And Capturing New Digital-Born Images

• 250 people worldwide
• 200 specialized cameras
• 800,000 images per week
So You Can Use FamilySearch.org
FamilySearch Indexing Program

- Worldwide, volunteer-based program to index records
- More than 150,000 volunteers index a million names each day
- Internet-based system—work from home
- It only takes a few minutes to index a vital record image
The FamilySearch Digital Pipeline

- Based on the ISO Reference Model for an OAIS
- State-of-the-art software tools

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Unique Preservation Challenges

- Nonprofit organization offering free services
- Goal to publish a BILLION images annually
- Rapid growth of affiliates’ data to preserve
- Scale, scale, scale!
The FamilySearch Archive

Providers

- A variety of sources of digital images, such as cameras and scanners
- Provided by FamilySearch projects and others

Ingest and Processing Center

- Divided between two data centers in the Salt Lake City area
- Provides initial image processing
- Routes results to storage locations

Dissemination Store

- Datacenter located on the east coast
- Primary access repository

Archive Processes

- Processes that use images to generate other archive information

Preservation Store

- Dedicated datacenters
- Geographically dispersed
- Limited access

Archive users

- Researchers using images for genealogical research
Ingesting Data

Providers
- Scanners
- Cameras
- Affiliates
- Community

Image Processing
- 41.4 TB / day
- 1,270,000 Images / day

Image Transfer
- 24.1 TB / day
- 2.1 TB / day to Dissemination
- 23 TB / day to Preservation

SL8500
Dissemination

Routing DB

SL8500

Dissemination

Ingest

Request

Routers

2.1 Gbps
~1000 images / sec

Community
Applications

Internal
Applications

Continuous Backup

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Storage

Servers

Shared
File

Systems

400 Mbps
Interim Preservation

Preservation Ingest

Tape Content Tracking

Validation

Policies

Datacenter

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Dedicated Preservation Site

SL8500

Dedicated Preservation Site
1. Standards driven
2. Multiple copies—at least two media types
3. Geographically distributed
4. Error detecting and correcting (Reed-Solomon across multiple media units)
5. Automated validation, refresh, migration
6. Support tens to hundreds of petabytes
7. Support 100 billion objects
8. Sophisticated access control / DRM
Why Are We Doing All This?

To link families and preserve the heritage of mankind!

We invite you to get involved in FamilySearch initiatives!