Session: Power in Numbers: Digital Preservation Networks
Texas Digital Library and Digital Preservation Networks
#r2e DigiPres session, Pittsburgh, PA
Courtney Mumma, Services Manager

Accessible version in Google slides [here](#)
Session: Power in Numbers: Digital Preservation Networks
#r2e DigiPres session, Pittsburgh, PA
Ryan Steans, Assistant Director, and Courtney Mumma, Services Manager

(Special Halloween edition)
Texas Digital Library

Capacity as a collective
  ● preservation, management, access
FOSS software as a service
  ● Dspace, OJS, Vireo, Dataverse, DuraCloud@TDL, DPN, Chronopolis, DPLA, Hyku
Community programs / working groups
22 regular and affiliate members
9 positions - we’re also HIRING!

tdl.org
Digital Preservation at TDL, a ghost story

RIP: development of “texas preservation network” 2008-10
DPN 2012
DuraCloud 2015
Chronopolis 2017

tdl.org

From Ghostbusters. Full citation in alt-text.
Digital Preservation at TDL reanimated

Added Digital Preservation expertise in the form of Courtney (Archivematica, DPMW, Internet Archive, etc…) to reframe and expand program

From Kanye West—Reanimator, Joshua Chaplinsky’s literary mashup. Full citation in alt-text.
Digital Preservation Services

disclaimer thing

TDL Digital Preservation Services offers only parts of a complete DP “solution” (storage, management, advice, guidance, planning and local program support)

Thing from the Addams Family. Full citation in alt-text.
Digital Preservation Storage Networks

DURA CLOUD™ @TDL

CHRONOPOLIS
tdl.org

DPN
THE DIGITAL PRESERVATION NETWORK
DuraCloud@TDL stabilization & alignment

In-step with DuraSpace development - 6-month process
Update procedure and member communications
Contribute to DuraSpace in sustaining and improving the core software
Digital Preservation Services at TDL

TDL members’ local digital preservation workflows and procedures.

Bride of Frankenstein. Full citation in alt-text.
Clarifying DP Storage choices

https://tdl.org/digital-preservation/

<table>
<thead>
<tr>
<th>Digital Preservation Storage options via DuraCloud@TDL</th>
<th>Chronopolis</th>
<th>DPN</th>
<th>Amazon S3</th>
<th>Glacier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-commercial, rooted in cultural heritage community</td>
<td>Non-commercial, rooted in cultural heritage community</td>
<td>Commercial</td>
<td>Commercial</td>
<td></td>
</tr>
</tbody>
</table>
Clarifying DP Storage choices

https://tdl.org/digital-preservation/

<table>
<thead>
<tr>
<th>Geographic Distribution</th>
<th>Chronopolis</th>
<th>DPN</th>
<th>Amazon S3</th>
<th>Glacier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any three from the following technologically diverse partner nodes: UCSD, TDL, UMIACS, and NCAR</td>
<td>Any three from the following technologically diverse partner nodes: HathiTrust, APTTrust, Chronopolis, Texas Preservation Node (TPN)</td>
<td>Amazon East</td>
<td>Amazon East</td>
<td></td>
</tr>
</tbody>
</table>

tdl.org
## Clarifying DP Storage choices

<table>
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<tr>
<th>File Fixity and Data Integrity</th>
<th>Chronopolis</th>
<th>DPN</th>
<th>Amazon S3</th>
<th>Glacier</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuraCloud@TDL MD5 hashes on upload.</td>
<td>Fixity check type varies per node.</td>
<td>DuraCloud@TDL MD5 hashes on upload.</td>
<td>Amazon does some combination of MD5 hashes and cyclic redundancy checks (CRCs) with unspecified regularity, on upload, and when content is moved.</td>
<td>DuraCloud@TDL MD5 hashes on upload.</td>
</tr>
<tr>
<td>Chronopolis checks SHA-256 hashes every 30 days or as specified by member, not to exceed 6 months.</td>
<td>DuraCloud@TDL MD5 hashes on upload.</td>
<td>Amazon does some combination of MD5 hashes and cyclic redundancy checks (CRCs) with unspecified regularity, on upload, and when content is moved.</td>
<td>DuraCloud@TDL MD5 hashes on upload.</td>
<td></td>
</tr>
<tr>
<td>The Texas Preservation Node (TPN) creates SHA-256 hashes which are checked at least once per year.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

[Source: tdl.org]
Which ones for what stuff?

- **DPN**
  - 20 year commitment
  - Not likely to pull it out unless there is a catastrophe
  - Continuity in perpetuity in case of institutional failure

- **Chronopolis**
  - Shorter commitment (but flexible)
  - May be better for inactive temporary storage, bulk research data, software

- **Amazon S3 and Glacier**
  - Commercial alternatives
DPN TPN - Texas Preservation Node

Currently at ~33 TB with ~167 TB remaining space

Participating in large bag and peer-to-peer business model pilots
Digital Preservation Services = Storage *Plus*

- **Consulting** with digital preservation expert and archivist on digital preservation strategy and workflows
- **Audit** support and assistance
- Prime, discounted access to digital preservation training and special events
- Opportunities for leveraging shared resources and programs, including shared workflows, collection assessment tools and documentation

[tdl.org](http://tdl.org)
Shared resources

https://tdl.org/members/resources#digipres

- New template for Content Inventory and Prioritization
  - Assess content requiring differing levels of preservation actions and storage
- Collecting workflows and use cases from member institutions
  - Help mitigate replication of labor and share options for linking local procedures and systems to shared services
Observation of how TDL members rate functionally using NDSA Levels of Preservation

Based on consultations with 15 members

Help to wisely select areas of collaboration and collective benefit

tdl.org
DPMW@TRINITY
Digital Preservation Management Workshop
July 22 – 28, 2018
San Antonio, Texas

Seats are limited!
Early registration and discount for TDL Members

Presented by Nancy McGovern
in collaboration with:

MIT Libraries
Trinity University Coates Library
TEXAS DIGITAL LIBRARY

Registration coming soon!
Digital Preservation Workflow Curriculum Now Available
July 31, 2017

In response to DPN members’ concerns around the issues of workflow for digital preservation, DPN worked with AVPreserve to develop a digital preservation workflow curriculum to share with DPN members and others in the digital preservation community. The curriculum is being released with a Creative Commons 4.0 Attribution Share Alike (CC-BY-SA) license. (License details here.)
Archivematica Camp

https://wiki.archivematica.org/Community/Camps

- University of Houston
- Fall of 2018
Questions and Discussion

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