

# Test Version of NDSA Large Scale Storage System Survey

The Infrastructure working group of the National Digital Stewardship Alliance is working to better understand how member organizations are approaching storage for their preservation systems. For institutions where preservation and access are coupled at the storage level, the below questions should be answered for the entire system. For institutions that have separate archival storage, the questions should be answered for the archival storage only. This brief survey includes a set of 9 questions about how your organization approaches preservation storage and a set of 15 questions about the details of your collections and your preservation storage needs.

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1. My organization has a plan to meet known preservation storage requirements over the next five years.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Not Applicable
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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2. I expect my organization will have adequate resources to meet projected preservation storage requirements over the next five years.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Not Applicable
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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3. My organization plans to make significant changes in technologies in its preservation storage architecture within the next three years.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Not Applicable
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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4. My organization intends to meet requirements for a trustworthy digital repository according to TRAC (or successor standards) within the next three years.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Not Applicable
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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5. My organization participates in a distributed storage cooperative or system (ex. LOCKSS

Alliance, SafeArchive)

☐ Yes

☐ No

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6. My organization would prefer to contract out storage services to be managed by another organization or company

Strongly  
disagree

☐

Disagree

☐

Neutral

☐

Agree

☐

Strongly  
agree

☐

Not  
Applicable

☐

7. My organization is seriously considering using third-party cloud storage service providers (E.g. Amazon, Rackspace, Azure, DuraCloud) for keeping at least one copy of its content.

Strongly  
disagree

☐

Disagree

☐

Neutral

☐

Agree

☐

Strongly  
agree

☐

Not  
Applicable

☐

8. My organization tends to treat preservation storage as something that should be relatively dumb, sufficiently fast, and swappable/replaceable.

Strongly  
disagree

☐

Disagree

☐

Neutral

☐

Agree

☐

Strongly  
agree

☐

Not  
Applicable

☐

9. My organization prefers using storage systems for preservation that provide block-level (not-just file level) access to stored materials.

Strongly  
disagree

☐

Disagree

☐

Neutral

☐

Agree

☐

Strongly  
agree

☐

Not  
Applicable

☐

10. In general, how many preservation copies of the digital assets are you keeping?

1

☐

2

☐

3

☐

4

☐

5

☐

> 6

☐

11. Does your organization have specific performance requirements for your storage system or systems?

☐ No, and we are not developing them

- ☐ No, but we are in the process of defining them in the next year
  - ☐ Yes, we have some basic general loose performance requirements
  - ☐ Yes, we have very specific targeted performance requirements
  - ☐ Yes, we have extensive detailed performance requirements
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12. Is your organization keeping copies of digital assets in geographically distinct places to protect from regional geographic disasters?

- ☐ Yes, we manage our own copies in a geographically distinct offsite location
  - ☐ Yes, we keep additional copies of our materials in a distributed collaborative partnership, (E.g. MetaArchive)
  - ☐ In some cases, decided on collection basis
  - ☐ No, we would like to but we do not have the resources.
  - ☐ No, we do not and this is not something we are pursuing
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13. Roughly, what percentage of your archived content is dynamic? (i.e., packages that are actively being changed)

14. Approximately, how many terabytes of storage space do you require for all copies of your content that you manage?

15. Approximately, how many terabytes of storage space do you anticipate needing for all copies of your content that you manage in five years?

16. When does your organization check the fixity of the content you are preserving.

- ☐ We do not do fixity checks on our content
- ☐ We do fixity checks before and after transactions like ingest

- ☐ We do fixity checks on all content we are preserving at fixed intervals (E.g. every 9 months)
  - ☐ Both for transactions and at fixed intervals
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17. If your organization performs fixity checks on content you are preserving at fixed intervals, how frequently (in months) do you perform those checks. (I.E, if you perform them monthly enter 1, if every nine months enter 9, if annually enter 12)

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18. What are your requirements for access to the content you store? (If you have different requirements for different collections please check each option that applies to one of your collections)

- ☐ No access requirements, a dark archive
  - ☐ Non-continuous access, eg. need to be able to download files within an hour
  - ☐ Light continuous access, providing access over network to less than 100 users
  - ☐ Moderate continuous public access, available on the web but minimal traffic
  - ☐ Heavy continuous public access, heavily trafficked public files
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19. My organization's storage system uses the following storage media:

- ☐ All spinning disk/ network attached storage
  - ☐ All magnetic tape
  - ☐ A mixture of disk and tape
- 

20. Does your organization use separate storage systems for access-only and preservation-only services?

- ☐ Yes
  - ☐ No
- 

21. Which services does your organization currently provide for files in your preservation storage?

- ☐ secure storage with backup and recovery procedures in place

- ☐ periodic fixity checking
  - ☐ version control
  - ☐ format normalization, format migration, or platform emulation
- 

22. Do you provide different services for different "collections" under preservation storage?

- ☐ Yes
  - ☐ No
- 

23. How significant are the following general features of preservation systems for meeting your organizations objectives. (1 being insignificant 5 being most significant)

	1 (least)	2	3	4	5 (most)
More storage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Higher performance processing capacity (to do processing like indexing on content)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More built-in functions (like fixity checking)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
File Format migration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More automated inventory, retrieval and management services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More security for the content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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24. My NDSA member organization is ...

The survey results will only be reported in aggregate. We are collecting your organization name strictly to keep track which members have responded.

Thank you for taking our survey. Your response is very important to us.

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