

# 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. As part of this effort we are asking each NDSA member institution to respond to this 22 question survey. 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.

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1. My organization's storage system uses the following storage media for preservation storage:

- All spinning disk/ network attached storage
  - All magnetic tape
  - A mixture of disk and tape
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2. In general, how many preservation copies of the digital assets are you keeping?

- |                       |                       |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1                     | 2                     | 3                     | 4                     | 5                     | > 6                   |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
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3. Approximately, how many terabytes of storage space do you anticipate needing for all copies of your content that you manage in three years?

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

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5. 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 one or more geographically distinct offsite locations
- 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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6. 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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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)

7. 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 general performance requirements
  - Yes, we have specific targeted performance requirements
  - Yes, we have extensive detailed performance requirements
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8. 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, E.g. 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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9. Does your organization use separate storage systems for access-only and preservation-only services?

Yes

No

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10. Which services does your organization currently provide for files in your preservation storage? (Check all that apply)

secure storage with backup and recovery procedures in place

periodic fixity checking

version control

format normalization, format migration, or platform emulation

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

Yes

No

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12. How significant are each of 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"/>
Block level access to storage (Not just file level)	<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"/>
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"/>
File Format migration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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13. My organization has a plan to meet our preservation storage requirements over the next 3 years.

Strongly  
disagree

Disagree

Neutral

Agree

Strongly  
agree

Not  
Applicable

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14. In general, how long (in years) is your organization responsible for preserving content? (Enter 999 if your organization has explicit or implicit indefinite responsibility)

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

Strongly  
disagree

Disagree

Neutral

Agree

Strongly  
agree

Not  
Applicable

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16. 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

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17. My organization intends to meet requirements for a trustworthy digital repository according to TRAC or the planned ISO standard 16363 within the next three years.

Strongly  
disagree

Disagree

Neutral

Agree

Strongly  
agree

Not  
Applicable

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18. Is your organization participating in a distributed storage cooperative or system? (ex. LOCKSS Alliance, SafeArchive)

- Yes, my organization currently participates in distributed storage cooperative or system.
- No, but my organization is planning to participate in a distributed storage cooperative or system.
- No, but my organization is currently exploring participating in a distributed storage cooperative or system.

- No, my organization is not considering participating in a distributed storage cooperative or system.
  - No, and my organization is uninterested in participating in a distributed storage cooperative or system.
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19. Is your organization contracting out storage services to be managed by another organization or company?

- Yes, my organization currently contracts out storage services which are managed by another organization.
  - No, but my organization is planning to contract out storage services which are managed by another organization.
  - No, but my organization is currently exploring contracting out storage services which are managed by another organization.
  - No, my organization is not considering contracting out storage services which are managed by another organization.
  - No, and my organization is uninterested in considering contracting out storage services which are managed by another organization.
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20. Is your organization using third-party cloud storage service providers (E.g. Amazon, Rackspace, Azure, DuraCloud) for keeping one or more copies of its content?

- Yes, my organization currently using third-party cloud storage service providers for keeping one or more copies of its content.
  - No, but my organization is planning to use third-party cloud storage service providers for keeping one or more copies of its content.
  - No, but my organization is currently exploring using third-party cloud storage service providers for keeping one or more copies of its content.
  - No, my organization is not considering using third-party cloud storage service providers for keeping one or more copies of its content.
  - No, and my organization is uninterested in using third-party cloud storage service providers for keeping one or more copies of its content.
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21. My organization has a strong preference to host, maintain, and control its own technical infrastructure for preservation storage?

Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Not Applicable
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If your organization does have a strong preference to host and control its own technical infrastructure for preservation storage why does it have this preference?

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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.

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

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