

Digital Preservation Projects, Challenges, and Questions
Duke Digitized Collections
jim_tuttle@ncsu.edu

- 1. Are you working on a digital preservation project? Provide a brief description of your project and its goals.**

NCSU Libraries is responsible for the long-term curation of several digital collections including master digitized images, electronic thesis and dissertations, and geospatial data collected under NDIIIP. Presently, we're reevaluating the infrastructure and policies supporting our digital collections. As part of this project, we are building out our off-site disaster recovery infrastructure and are investigating data replication and validation solutions.

- 2. What is the status of the implementation (planning, just started, in production, etc.)?**

This project is currently being planned.

- 3. What digital preservation challenges are you facing?**

The challenges are numerous and diverse. Some of the considerations are:

- Granular permissions at the storage level to mitigate risk as a result of granting student workers access to digital collections via Samba. A simple interface to these permissions.
- Auditing of actions performed on selected digital collections
- Configurable off-site replication of data including varying levels of concurrency
- Sustainable solutions in light of the current budget climate

- 4. Does iRODS currently play a role in the project? If so, please describe how you are using iRODS.**

We aren't currently using iRODS, but are investigating it as a possible solution.

- 5. What challenges have you faced using iRODS?**

n/a

- 6. What questions do you have for the DICE group about iRODS?**

Please describe how iRODS might address the challenges in this project. What methods or tools are available to manage the permissions of objects and authorizations of people accessing our storage? Considering that question, would we be able to use Active Directory roles to inform authorizations? Is there a GUI interface that would allow departments to manage their own storage permissions? Is iRODS an appropriate technology to manage the replication of data to a disaster recovery site? What is the estimated FTE to manage the average iRODS implementation?