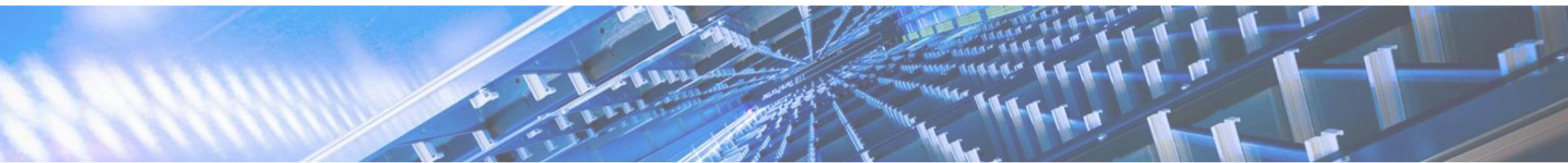


Data Management and Sharing

An NDS Share Project

Kyle Chard, Kenton McHenry, and many others
UChicago, NCSA



AN ENVIRONMENT FOR SHARING DATA

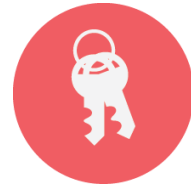
- Dynamic data management and sharing environment
- Reliable storage provided by NCSA
- Towards a “repository of last resort”



FEATURES



NCSA Storage



Federated login using existing identities



Complete control of file and directory structure



Self-service management



Transfer and share with Collaborators



Extensible via programmatic APIs and GridFTP/HTTP



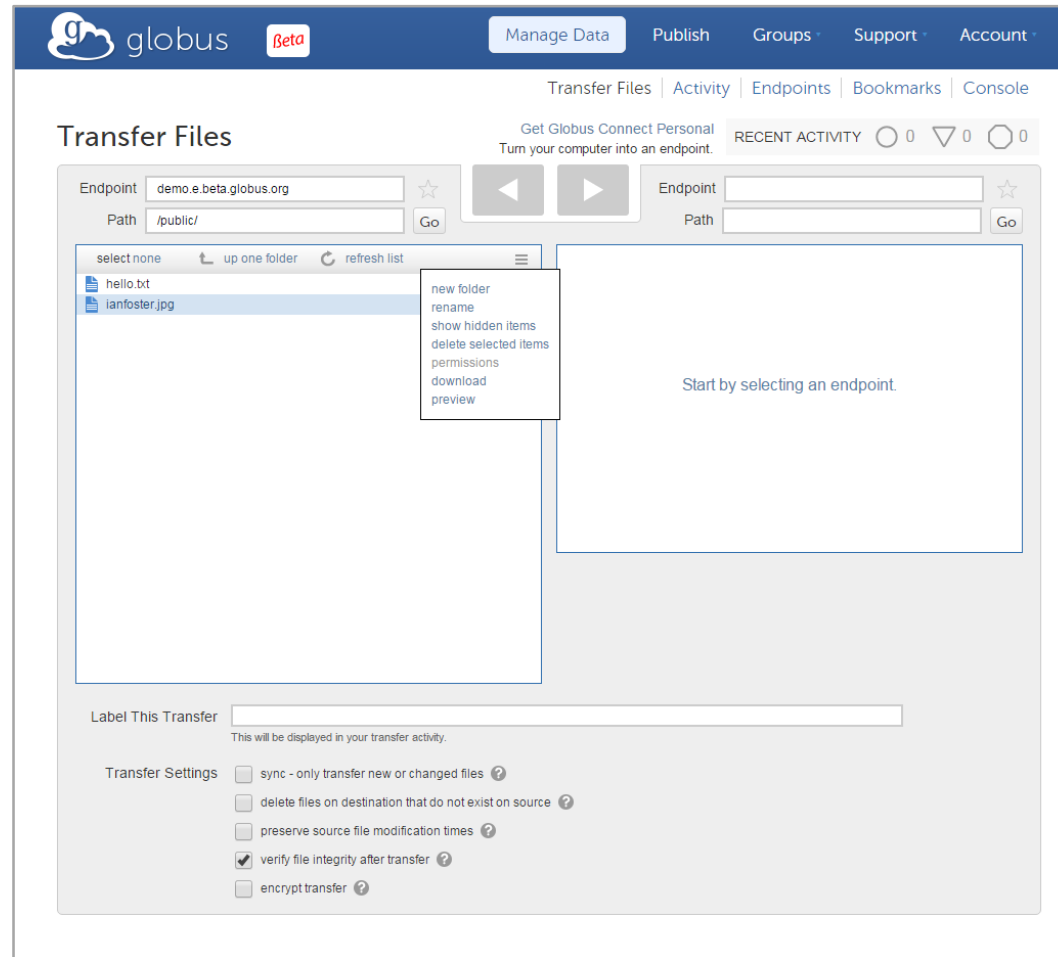
NATIONAL DATA SERVICE




DEMO

data.share.nationaldataservice.org


COMING SOON: HTTP



COMING SOON: A REPOSITORY OF LAST RESORT

 MATERIALS DATA FACILITY



ABOUT • GET STARTED • FEATURES • HOW IT WORKS



WHAT IS MDF?

The Materials Data Facility (MDF) is a scalable repository where materials scientists can publish, preserve, and share research data. The repository provides a focal point for the materials community, enabling publication and discovery of materials data of all sizes.

MDF is a pilot project funded by NIST, and serves as the first pilot community of the National Data Service.

Funded and supported by  and 

GET STARTED

[Publish Your Data](#) [Search for Data](#)


Don't have a Globus account? [Sign up here!](#)

globus Log In Sign Up

To submit a dataset or view datasets that have restricted access, please log in.

Search

Materials Data Facility Community home page

 MATERIALS DATA FACILITY

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MDF is a pilot project funded by NIST, and serves as the first pilot community of the [National Data Service](#).

Contact Ben Blaiszik (blaiszik@uchicago.edu) to begin publishing your data

Browse

Issue Date	Author	Title	Subject
------------	--------	-------	---------

Discover

Author	Issue Date
Fife, Julie L. 5	2016 5
Gibbs, John W. 5	2015 2
Voorhees, Peter W. 5	




NATIONAL DATA SERVICE




QUESTIONS?

AUTHENTICATION



NATIONAL DATA SERVICE

 globus

Globus Account Log In

Log in to use National Data Service Globus Web App


Use your existing organizational login
e.g. university, national lab, facility, project, Google or [Globus ID](#)
(Your Globus username and password used prior to February 13, 2016 is now Globus ID)

Look up your organization

Continue

Why has this page changed?

Didn't find your organization? Then use Globus ID to [sign up](#).

globus  ID

Not Logged-In
[Home](#)

Create a Globus ID [Already have a Globus ID? Log In](#)

The client **Globus Auth** is requesting access to your **globusid.org** account for accessing a third-party website or application located at **auth.globus.org**. If you approve, please create a Globus ID account to continue.

Username

ndsshare-test @globusid.org

Your username will be checked for availability.
Usernames may contain both letters and numbers, but must begin with a letter and be between 3 and 31 characters long.
NOTE: this is an ID you are creating — not a working e-mail address

Password

Better passwords are longer, use mixed-case letters with punctuation and numbers.
This password is **weak**. Please improve it before continuing.
☐ show password

Full Name

NDS Test

E-mail

ndstest@gmail.com

This account will be used for


☒ non-profit research or educational purposes
☐ commercial purposes

Organization


NDS

☒ I have read and agree to the Globus [Terms of Service](#) and [Privacy Policy](#)
☐ please e-mail me updates about Globus


Create ID



NATIONAL DATA SERVICE



REQUEST AN ALLOCATION

 NATIONAL DATA SERVICE

Manage Data ▾ Groups ▾ Support ▾ Account

[My Groups](#) | [Search for Groups](#) | [Create New Group](#)

Hi NDS Test!

This site requires that you become an active member of the group "NDS Share" before you can proceed to use any Globus functionality.

[Logout](#)

NDS Share
[About](#)

[← About](#)

Join Group

Select which username to join as:

NDS Test (ndssharetest@globusid.org) [primary] ▾

Additional information is required to be admitted into this group.
Please complete all of the following fields:

Full Name

NDS Test

E-Mail Address

ndstest@gmail.com

Account Purpose

☒ non-profit research or educational purposes
☐ commercial purposes

Organization

NDS

Current Project

myproject

Institution

NDS

Submit Application to Join


Cancel



NATIONAL DATA SERVICE



DATA MANAGEMENT

**NATIONAL DATA SERVICE**



[Transfer Files](#) | [Activity](#) | [Endpoints](#)

Manage Endpoints

[Endpoint List](#) [+ add Globus Connect Personal endpoint](#)

[recently used](#) [in use](#) [shared with me](#) [shared by me](#) [administered by me](#) [search all](#)

endpoint

 **ndsshare#myproject** 
Shared Endpoint on ndsshare#NDSShare:/

[Manage Data](#) | [Groups](#) | [Support](#) | [Account](#)

**NATIONAL DATA SERVICE**

[Transfer Files](#) | [Activity](#) | [Endpoints](#) | [Bookmarks](#) | [Publish](#) | [Console](#)

Manage Endpoints

[Endpoint List](#) [+ add Globus Connect Personal endpoint](#) [+ add Globus Connect Server endpoint](#)

 **ndsshare#myproject** 
Shared Endpoint on ndsshare#NDSShare:/

 Overview

 Sharing

ndsshare#myproject Shared With

Host Endpoint: ndsshare#NDSShare

Host Path: /

user or group	read	write
Path: / view link for sharing		
NDS Share (ndsshare@globusid.org)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NDS Test (ndssharetest@globusid.org)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Share ndsshare#myproject With

Path * [Browse](#)

Share With * ☒ user ☐ group ☐ all users ☐ public

Identity/E-mail * [Search](#) [Add](#)

Permissions ☒ read ☐ write


[Add Permission](#)



NATIONAL DATA SERVICE



TRANSFER AND SHARING

 NATIONAL DATA SERVICE

Manage Data • Groups

Transfer Files | Activity | Endpoints | Bookmarks | Publish

Get Globus Connect Personal
Turn your computer into an endpoint.

RECENT ACTIVITY 0 0

Endpoint

Path

Endpoint

Path

Start by selecting an endpoint.

Start by selecting an endpoint.

Label This Transfer

This will be displayed in your transfer activity.

Transfer Settings

☐ sync - only transfer new or changed files ?

☐ delete files on destination that do not exist on source ?

☐ preserve source file modification times ?

☒ verify file integrity after transfer ?

☐ encrypt transfer ?

 NATIONAL DATA SERVICE

Manage Data • Groups • Support • Account

Transfer Files | Activity | Endpoints | Bookmarks | Publish | Console

Get Globus Connect Personal
Turn your computer into an endpoint.

RECENT ACTIVITY 1 0 0

Endpoint

Path

Endpoint

Path

select none

README.pdf 48

select all

Transfer request submitted successfully. Task id: 7da0a8e8-f758-11e5-a6f4-22000bf2d559

Label This Transfer

This will be displayed in your transfer activity.

Transfer Settings

☐ sync - only transfer new or changed files ?

☐ delete files on destination that do not exist on source ?

☐ preserve source file modification times ?

☒ verify file integrity after transfer ?

☐ encrypt transfer ?