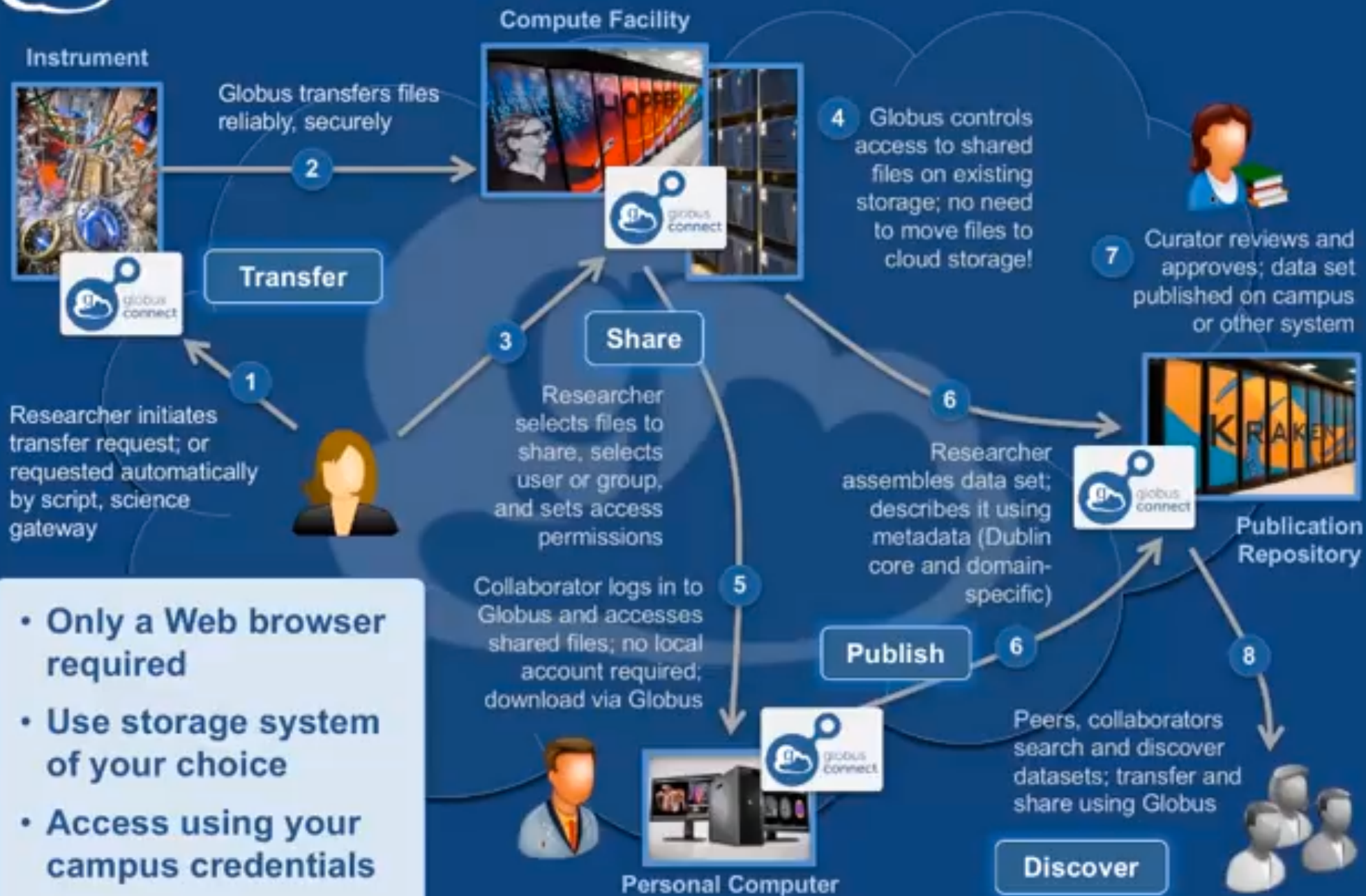




Globus and the research data lifecycle





Why use Globus?

- **Ease of use: consistent UI across systems**
- **“Fire-and-forget” file transfer**
- **Maximized WAN throughput**
- **Secure access w/multi-tier security model**
- **No/low-overhead external collaboration**
- **Rapid deployment w/standard packages**
- **Highly automatable: CLI, RESTful API**



Demo

- Login using existing identity
- Endpoint search
- Transfer
- Globus Connect Personal
- Bookmarks
- Sharing
- Identity linking
- Groups
- Management console

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Log In using Globus

Steve

https://auth.globus.org/p/login?client_name=globus_webapp&state=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyZnAiOiJlVWw3d25a...

100% 1:25

globus

Globus Account Log In

Log in to use 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)

University of Chicago

Continue



Globus uses CILogon to enable you to Log In from this organization. By clicking Continue, you agree to the [CILogon privacy policy](#) and you agree to share your username, email address, and affiliation with CILogon and Globus. You also agree for CILogon to issue a certificate that allows Globus to act on your behalf.

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



Account

[Manage Your Consents](#) [Logout](#)

Identities

[Manage These Identities](#) [Add Linked Identity](#)

Steven Tuecke via University of Chicago

Name: Steven Tuecke

Username: [tuecke@uchicago.edu](#)

E-mail: [tuecke@uchicago.edu](#)

Organization: University of Chicago

This is your **primary** identity.

Steve Tuecke via NCAR RDA

Name: Steve Tuecke

Username: [tuecke@uchicago.edu@rda.ucar.edu](#)

E-mail: [tuecke@uchicago.edu](#)

Organization: Globus

This is a **linked** identity.

Steve Tuecke via XSEDE

Name: Steve Tuecke

Username: [tuecke@xsede.org](#)

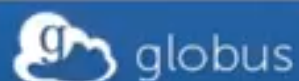
E-mail: [tuecke@uchicago.edu](#)

Organization: University of Chicago

This is a **linked** identity.

Globus Plus

Globus Plus gives you enhanced features on your Globus Connect Personal endpoints.

[Manage Data](#)[Publish](#)[Groups](#)[Support](#)[Account](#)[Transfer Files](#)[Activity](#)[Endpoints](#)[Bookmarks](#)[Console](#)

Transfer Files

[Get Globus Connect Personal](#)
Turn your computer into an endpoint.

RECENT ACTIVITY

Endpoint Path [Go](#)

select all

up one folder

refresh list

	GW Materials Datasets	Folder
	GWT demo	Folder
	GlobusToolkit	Folder
	collection	Folder
	demo	Folder
	florence	Folder
	folder2	Folder
	folder4	Folder
	godata	Folder
	greg	Folder
	myproject	Folder
	project-globus	Folder
	purdue demo	Folder
	scratch-midway	Folder
	xsede16 tutorial	Folder
	1M.dat	1 MB
	file2.txt	4 B
	file5.txt	6 B
	myproject.tar	350.85 MB

Endpoint Path [Go](#)

Start by selecting an endpoint.

[Label This Transfer](#)

Transfer Files | Activity | Endpoints | Bookmarks | Console

Transfer Files

Get Globus Connect Personal
Turn your computer into an endpoint.

RECENT ACTIVITY

Endpoint

Path

Go

select all up one folder refresh list

GW Materials Datasets

Folder

JWT demo

Folder

GlobusToolkit

Folder

collection

Folder

demo

Folder

florence

Folder

folder2

Folder

folder4

Folder

godata

Folder

greg

Folder

myproject

Folder

project-globus

Folder

purdue demo

Folder

scratch-midway

Folder

xsede16 tutorial

Folder

1M.dat

1 MB

file2.txt

4 B

file5.txt

6 B

myproject.tar

350.85 MB

Endpoint

Path

Go

select all up one folder refresh list

folder

Folder

folder2

Folder

folder3

Folder

godata

Folder

myproject

Folder

purdue

Folder

1M.dat

1 MB

20130311-Conductivity-SH-original-4.txt

94.20 KB

file5.txt

6 B

myproject.tar

350.85 MB

Label This Transfer

This will be displayed in your transfer activity.

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

transfer Files | Globus

Steve

https://www.globus.org/app/transfer?destination_id=44e6ddac-e818-11e5-97d5-22000b9da45e&destination_path=%2F~%2Fwebl...

GW Materials Datasets

Folder

GW demo

Folder

GlobusToolkit

Folder

collection

Folder

demo

Folder

florence

Folder

folder2

Folder

folder4

Folder

godata

Folder

greg

Folder

myproject

Folder

project-globus

Folder

purdue demo

Folder

scratch-midway

Folder

xsede16 tutorial

Folder

1M.dat

1 MB

file2.txt

4 B

file5.txt

6 B

myproject.tar

350.85 MB

Label This Transfer

my first transfer

This will be displayed in your transfer activity.

Transfer Settings

☒ sync - only transfer new or changed files where the

checksum is different

?

☒ delete files on destination that do not exist on source

?

☐ preserve source file modification times

?

☒ verify file integrity after transfer

?

☐ encrypt transfer

?

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Add Globus Connect Personal x

Steve

https://www.globus.org/app/endpoints/create-gcp?back=transfer

100% 69° Oct 6 1:37



Manage DataPublishGroupsSupportAccount

Transfer FilesActivityEndpointsBookmarksConsole

Manage Endpoints

[Back to Transfer Files](#)[Endpoint List](#)[add Globus Connect Personal endpoint](#)[add Globus Connect Server endpoint](#)

Add Globus Connect Personal Endpoint

Step 1 Get Your Globus Connect Personal Setup Key



My Macbook created

Setup Key ac04b994-22c6-41cc-ae3-bd95573589b9

Copy the key above to your clipboard.

Step 2 Download & Install Globus Connect Personal

Click one of the buttons below to download and install Globus Connect Personal for your operating system.

for Mac OS X

for Linux

for Windows

Once downloaded, run the installer. When prompted, paste in the Setup Key to complete the installation.

globusconnectperson...dmg
8.7/8.7 MB

Show All

Finder File Edit View Go Window Help

https://www.globus.org/app/endpoints/create-gcp?back=transfer

globus Manage Data Publish Groups Support Account

points Bookmarks Console

Manage Endpoints

Back to Transfer Files

Add Globus Connect Personal

Step 1 Get Setup Key

File Accessibility

General Access Info

Accessible Directories and Files

Directory or File	Shareable	Writable
/Users/tuecke	☐	☒

+ - ☒ Deny access to hidden (e.g. security) files in your home directory

Reset to Defaults

Copy the key above to your clipboard.

Step 2 Download & Install Globus Connect Personal

Click one of the buttons below to download and install Globus Connect Personal for your operating system.

for Mac OS X

for Linux

for Windows

Once downloaded, run the installer. When prompted, paste in the Setup Key to complete the installation.

© 2010–2016 The University of Chicago legal



Transfer Files Activity Endpoints Bookmarks Console

RECENT ACTIVITY 0 0 0

Go

Go

11

3

350.85 MB

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Create Share on UChicago RCC x

Steve

https://www.globus.org/app/endpoints/af7bda53-6d04-11e5-ba46-22000b92c6ec/shares/create?back=transfer&hostPath=%2F~%2F...☆

Manage DataPublishGroupsSupportAccount

Transfer FilesActivityEndpointsBookmarksConsole

Manage Endpoints

[Back to Transfer Files](#)[Endpoint List](#)[add Globus Connect Personal endpoint](#)[add Globus Connect Server endpoint](#)

UChicago RCC Midway
Managed Public Endpoint

ready
expires in 10 days

Overview

Server

My Shares

Extend Activation

Create New Shared Endpoint

Host EndpointUChicago RCC Midway

Host Path ^{*}/~/myproject/

Browse

Share Display Name ^{*}Webinar Share

DescriptionThis is a nice and useful description of my new share endpoint so that others can identify it.

Keywordsfile share, attached storage

CreateCancel

Host Endpoint: UChicago RCC Midway
Host Path: /~/myproject/

read	write
------	-------

[view link for sharing](#)

1

2

Path

Share With ☒ user ☐ group ☐ all users ☐ public

Identity/E-mail

Username vas@uchicago.edu

☒ Send Email

Message

Permissions ☒ read ☐ write

ChromeFile Edit View History Bookmarks People Window Help

Permissions on Webinar Share x

Steve

https://www.globus.org/app/endpoints/f800ddc4-8bf5-11e6-b047-22000b92c261/sharing?back=transfer

OverviewSharing (1)Roles

Webinar Share Shared With

Host Endpoint: UChicago RCC Midway

Host Path: /~/myproject/

user or group	read	write
Path: /	view link for sharing	
Vasilios Vasiladis (vas@uchicago.edu)	☒	☐
Steven Tuecke (tuecke@uchicago.edu)	☒	☒

Share Webinar Share With

Path *

/

Browse

Share With *

☒ user ☐ group ☐ all users ☐ public

Identity/E-mail *

enter username or search for user

SearchAdd

Permissions

☒ read ☐ write

Add Permission

© 2010–2016 The University of Chicago

legal



My Groups Search for Groups Create New Group

Search

My Admin Queue

SJT Secure Dataset

Create New Group =



Use groups to easily manage access to shared data and web resources.

The **My Groups** tab on the left provides instant access to all of the groups that you belong to and manage. Use the **My Admin Queue** link to get a consolidated view of all your outstanding admin tasks in the groups you manage.

Use the [Search](#) tab on the left to quickly locate groups.

Easily create new groups and invite users to join them. Use the link at the bottom of the left panel.

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Google

Permissions on Webinar ShareMembers - Tuecke Project Team

Steve

https://www.globus.org/app/groups/16daed8c-dbef-11e5-a083-22000ab4b42b/members

globus

Manage DataPublishGroupsSupportAccount

My GroupsSearch for GroupsCreate New Group

My Groups (5)

MANAGER OF (1)

My Admin Queue

Tuecke Project Team

MEMBER OF (4)

Globus Publication Trial

Globus Team Plus Sponsor

HTTPS Workspace Group

SJT Secure Dataset

Search

Tuecke Project Team

AboutMembers (2)SubgroupsSettings

Invite people to this group

1 invited2 active1 rejected

Invitation Sent — Awaiting Response

name	username	request sent
Stuart Martin	stu.martin.1d@gmail.com	7 months ago

Active Members

name	username	member since
Rachana Ananthakrishnan	ranantha@uchicago.edu	7 months ago
Steve Tuecke	tuecke@xsede.org	7 months ago

Rejected

name	username	status changed
Steve Tuecke	tuecke@uchicago.edu	7 months ago

Create New Group

© 2010–2016 The University of Chicago legal

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Permissions on Webinar Share x

Steve

https://www.globus.org/app/endpoints/f800ddc4-8bf5-11e6-b047-22000b92c261/sharing?back=transfer&newPath=%2Fexperime...

100%

Oct 6 1:56

Overview

Sharing (1)

Roles

Webinar Share Shared With

Host Endpoint: UChicago RCC Midway

Host Path: /~/myproject/

user or group	read	write
Path: / view link for sharing		
Vasilios Vasiliadis (vas@uchicago.edu)	☒	☐
Steven Tuecke (tuecke@uchicago.edu)	☒	☒

Share Webinar Share With

Path *

/experiment1/

Browse

Share With *

☐ user☒ group☐ all users☐ public

Group *

Select a Group

Permissions

☒ read☒ write

Add Permission

© 2010–2016 The University of Chicago

legal

SafariFileEditViewHistoryBookmarksWindowHelp

globus.org

100%Oct 6 1:58

globus

Manage DataPublishGroupsSupportAccount

Transfer FilesActivityEndpointsBookmarksConsole

Transfer Files

RECENT ACTIVITY

Transfer request submitted successfully. Task id: e27b06c2-8bf5-11e6-b047-22000b92c261

EndpointWebinar Share

Path/experiment1/folder5/

Go

Retrieving Directory Contents

select noneup one folderrefresh list

GlobusToolkit	Folder
dataset	Folder
gt	Folder
9606sort.fin	2.68 KB
Raman-Shutdown-Sphere.png	102.65 KB
Shutdown-Overlay-Plot.png	144.88 KB
Shutdown-Spheres-Dopamine.png	267.23 KB
ShutdownSpheres-1.png	236.67 KB
file1.txt	4 B
file2.txt	0 B
file3.txt	6 B



Manage Data

Publish

Groups

Support

Account

Account

Manage Your Consents

Logout

Identities

Manage These Identities

Add Linked Identity

SJT Demo via Globus ID

Name: SJT Demo

Username: sjt@globusid.org

E-mail: steve@tuecke.com

Organization: University of Chicago

This is your **primary** identity.

This identity is managed by Globus ID, where you can change your password, update your profile, and manage SSH and X.509 keys.

Steven Tuecke via Argonne National Laboratory

Name: Steven Tuecke

Username: tuecke@anl.gov

E-mail: tuecke@uchicago.edu

This is a **linked** identity.

Steve Tuecke via Globus ID

Name: Steve Tuecke

Username: tuecke@globusid.org

E-mail: tuecke@uchicago.edu

Organization: University of Chicago

This is a **linked** identity.

This identity is managed by Globus ID, where you can change your password, update your profile, and manage SSH and X.509 keys.

Steve Tuecke via NERSC

Name: Steve Tuecke

Username: tuecke@nersc.gov

E-mail: tuecke@uchicago.edu

This is a **linked** identity.

SafariFileEditViewHistoryBookmarksWindowHelp

globus.org

Manage DataPublishGroupsSupportAccount

Transfer FilesActivityEndpointsBookmarksConsole

globus

Management Console

endpoints

tasks

pause rules

Search for tasks by endpointownerlocal user task ID

Current Activity for

all endpoints managed by you

endpoints owned by tuecke@globusid.org

endpoints owned by ucrcc@globusid.org

endpoints owned by xsede@globusid.org

XSEDE Comet

XSEDE Data Supercell

XSEDE OSG Virtual Clu...

XSEDE Ranch

XSEDE Stampede

FSG bridges with XSEDE...

umich#mycobacteria

XSEDE Gordon

XSEDE Ranch

XSEDE Stampede

Private

XSEDE XStream*

xse@globusid.org

TOTAL	PAUSED	OK	RETRYING	WITH FAULTS
0	0	0	0	0

tuecke#s3test1

tuecke@globusid.org

TOTAL	PAUSED	OK	RETRYING	WITH FAULTS
0	0	0	0	0

tuecke#s3test2

tuecke@globusid.org

TOTAL	PAUSED	OK	RETRYING	WITH FAULTS
0	0	0	0	0

UChicago RCC Midway

ucrcc@globusid.org

TOTAL	PAUSED	OK	RETRYING	WITH FAULTS
0	0	0	0	0

XSEDE Comet



New Globus CLI

(coming soon)

```
$ globus transfer
```

```
Usage: globus transfer [OPTIONS] COMMAND [ARGS]...
```

Interact with Globus Transfer API. Transfer, Delete, List, and Rename files on Endpoints, manage your Endpoints and Shares, and monitor your ongoing Transfer Tasks

Options:

<code>-F, --format [json text]</code>	Output format for stdout. Defaults to text
<code>-h, --help</code>	Show this message and exit.
<code>--version</code>	Show the version and exit.

Commands:

<code>acl</code>	Manage Endpoint Access Control Lists
<code>async-delete</code>	Submit a Delete Task
<code>async-transfer</code>	Submit a Transfer Task
<code>bookmark</code>	Manage Endpoint Bookmarks
<code>endpoint</code>	Manage Globus Endpoint definitions
<code>ls</code>	List Endpoint directory contents
<code>mkdir</code>	Make a directory on an Endpoint
<code>rename</code>	Rename a file or directory on an Endpoint
<code>task</code>	Manage asynchronous Tasks

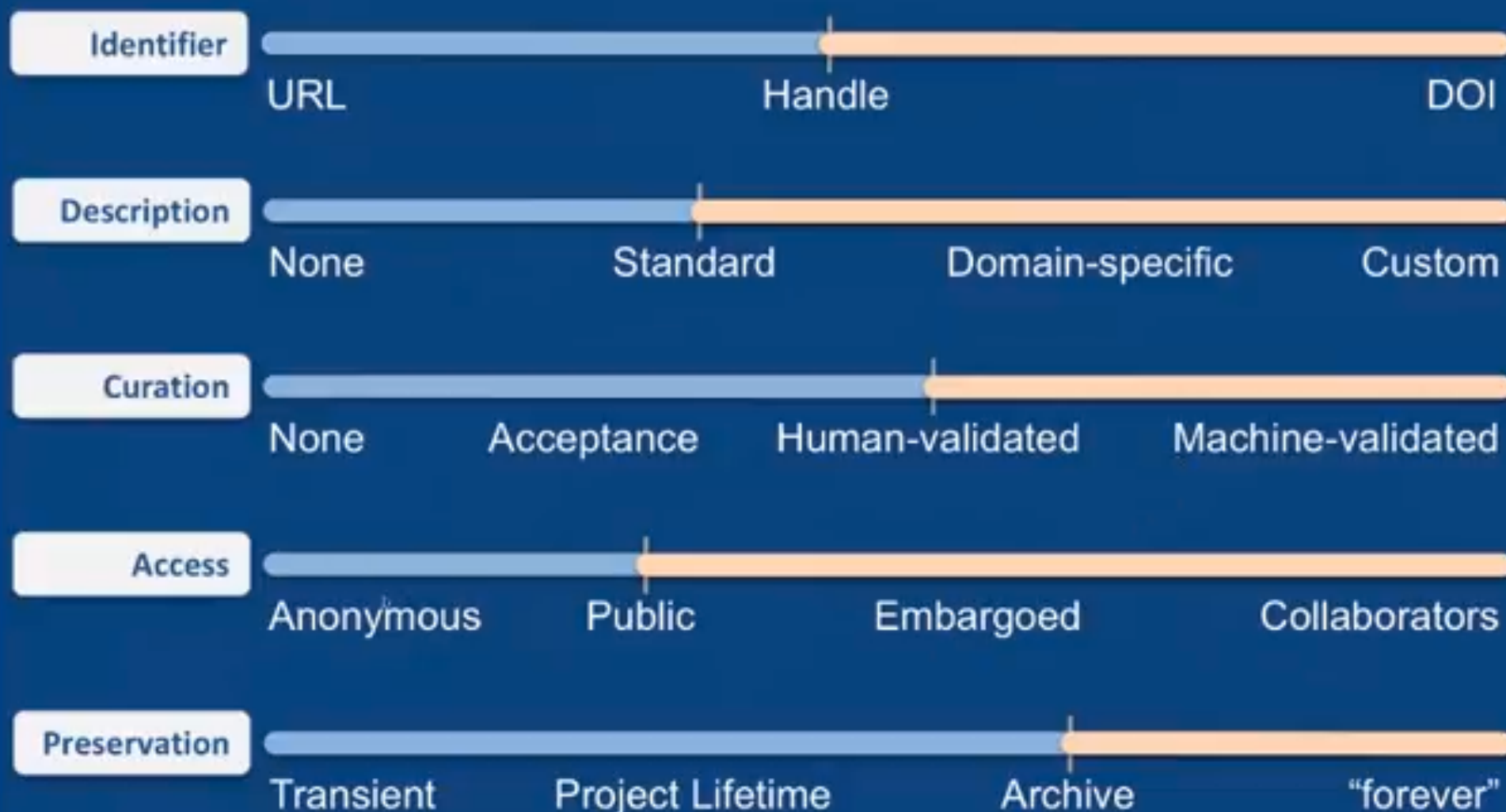


Storage connectors

- **Standard storage connectors (Posix)**
 - Linux, Windows, MacOS
 - Lustre, GPFS, OrangeFS, etc.
- **Premium storage connectors**
 - HPSS
 - HDFS
 - S3
 - Ceph RadosGW (S3 API)
 - Spectra Logic BlackPearl
 - Google Drive

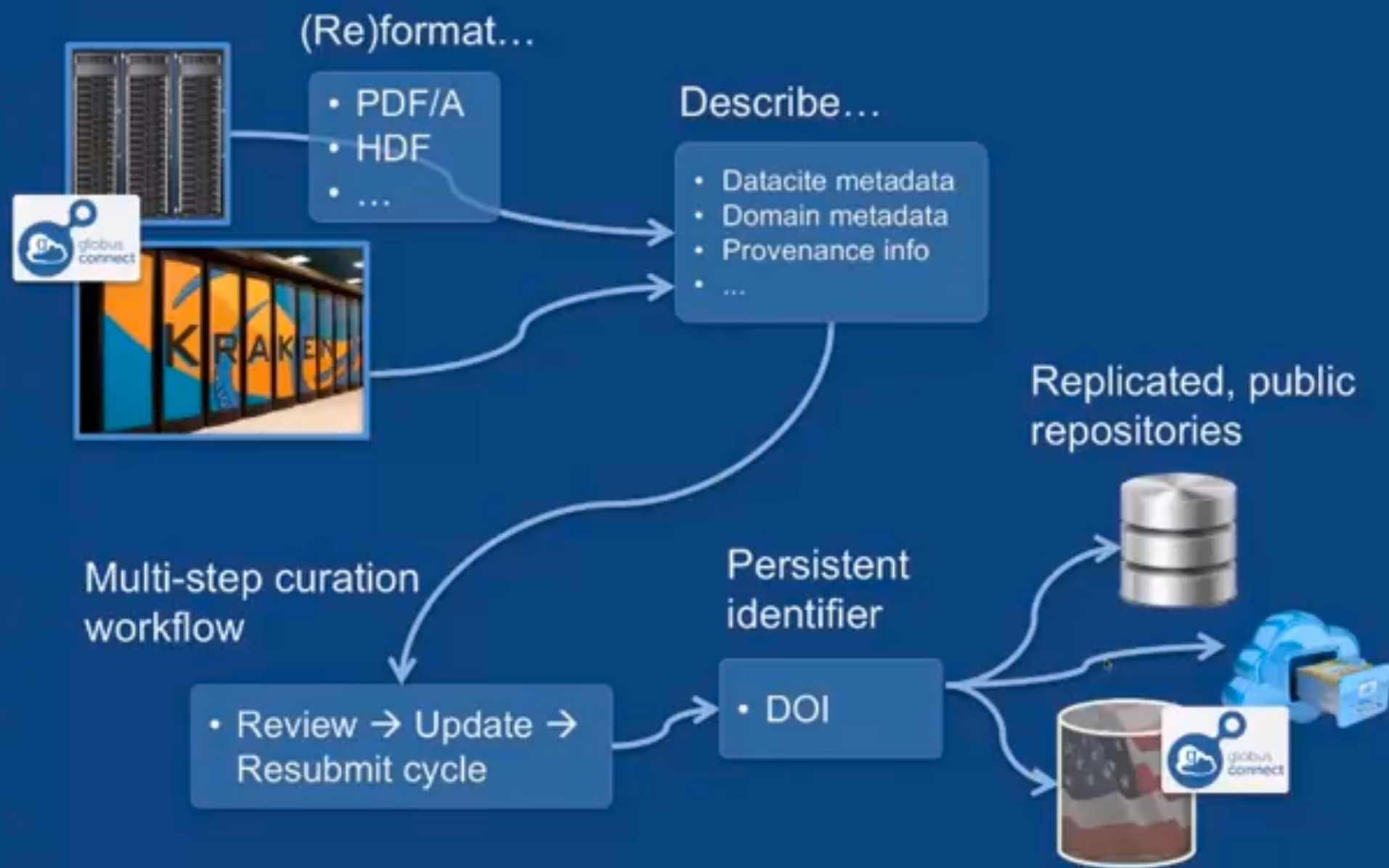


Globus collection policies





Peer reviewed paper data



ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Google

Currently-Used Endpoints | M...Data Publication | Globus

Steve

←→↻https://trial.publish.globus.org

☆🔒📄🔍🔗🔗🔗🔗🔗🔗

globus

Log InSign Up

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

Search

Q

Globus Data Publication (Trial)

Welcome to the Globus data publication "trial sandbox". The [User Guide](#) explains how to publish data. Please [contact us](#) with questions or feedback. When you are ready to create a publication community for your institution, complete [this form](#).



Communities

Choose a community to browse its collections.

Compute Canada

Globus Demo Community

Kansas City Federal Reserve

Open Trial

Open to all Globus users.

Discover

Author

Wunsch, Mark

40

Tuecke

26

Smith, John

18

Vasiliadis, Vas

14

Pruyne

10

Pruyne, Jim

10

Subject

Pacific herring

29

Herring

16

Bella Bella

8

Central coast

6

fishery management

6

Central Coast

5

Issue Date

2010 - 2016

133

2000 - 2009

2

SafariFileEditViewHistoryBookmarksWindowHelp

trial.publish.globus.org

All Pause Rules | Management Console | GlobusCurated Trial Collection | Globus

globus

Manage Data - PublishGroupsSupport - Account -

Browse & Discover | Data Publication Dashboard | Communities & Collections

Search

Curated Trial Collection

Collection home page

Trial collection with fairly comprehensive metadata and curation step in the publication process. To try the curation step, join the Globus group [Data Publication Open Trial Curators](#).

NOTE: Datasets you publish to this trial collection will be accessible to others, may be removed without notice, will be assigned handle URLs (not DOIs), and should be limited to 1GB in size. This collection is for trial purposes only.

Submit to This Collection

Browse

Issue Date

Author

Title

Subject

Datasets in Collection (sorted by Submit Date in Descending order): 1 to 20 of 28

[next >](#)

Issue Date	Title	Author(s)
------------	-------	-----------

Admin Tools

Configure...

Discover

Author

Tuecke	8
Vasiliadis, Vas	5
Bielefeld, Roger	1
Carruthers, Catherina	1
Copper, Josephine	1
Gajurel, Sanjaya	1
Hopkins, David	1
Kajita, Shoji	1

SafariFileEditViewHistoryBookmarksWindowHelp

trial.publish.globus.org

100%Oct 6 2:13

All Pause Rules | Management Console | GlobusConfigure Collection: | Globus

globus

Manage Data - Publish Groups Support - Account -

Browse & Discover | Data Publication Dashboard | Communities & Collections

Configure Collection: Curated Trial Collection

Delete this Collection...

Collection's Metadata

Name*

Curated Trial Collection

Short Description

Trial collection with fairly comprehensive metadata and curation st

Introductory text (HTML)

Trial collection with fairly comprehensive metadata and curation step in the publication process. To try the curation step, join the Globus group Data Publication Open Trial Curators.

Additional Descriptive Text

<div class="alert alert-warning">NOTE: Datasets you publish to this trial collection will be accessible to others, may be removed without notice, will be assigned handle URLs (not DOIs), and should be limited to 1GB in size. This collection is for trial purposes only.</div>

Publication

Dataset Storage Settings

Endpoint Identifier*

e4c16d8f-6d04-11e5-ba46-220

Collection Root Path*

/curated

Test Setting

Identifier Settings

Configuration

Globus Trial Handles

Delete Configuration

Workflow Settings

ChromeFile Edit View History Bookmarks People Window Help

Currently-Used Endpoints | Describe Dataset | Globus

Steve

https://trial.publish.globus.org/jsui/submit

globus

Manage DataPublishGroupsSupportAccount

Browse & DiscoverData Publication DashboardCommunities & Collections

LicenseDescribeDescribeDescribeAssembleVerifyComplete

Submit: Describe Dataset

All fields with an asterisk (*) are required

The title or name by which the dataset is known.

Title *

The authors or researchers who produced the dataset.

Authors *

The year (or full date) when the dataset was or will be publicly available.

Publication Date *

The language of the main content of the dataset. If the language does not appear in the list, select 'Other'. If no language applies to the content (e.g., an image), select 'N/A'.

Language

The name of the entity that holds, archives, publishes prints, distributes, releases, issues, or produces the dataset.

Publisher *



Communities & Collections

[Communities & Collections](#)

Q

If you use this dataset please add this citation to your publication:

Download Citation ▾

Title: Tuecke Webinar Publication

Authors: Tuecke

Keywords: webinar globus

Issue Date: 2016

Publisher: Globus

URI: <http://hdl.handle.net/11466/O1N5588>

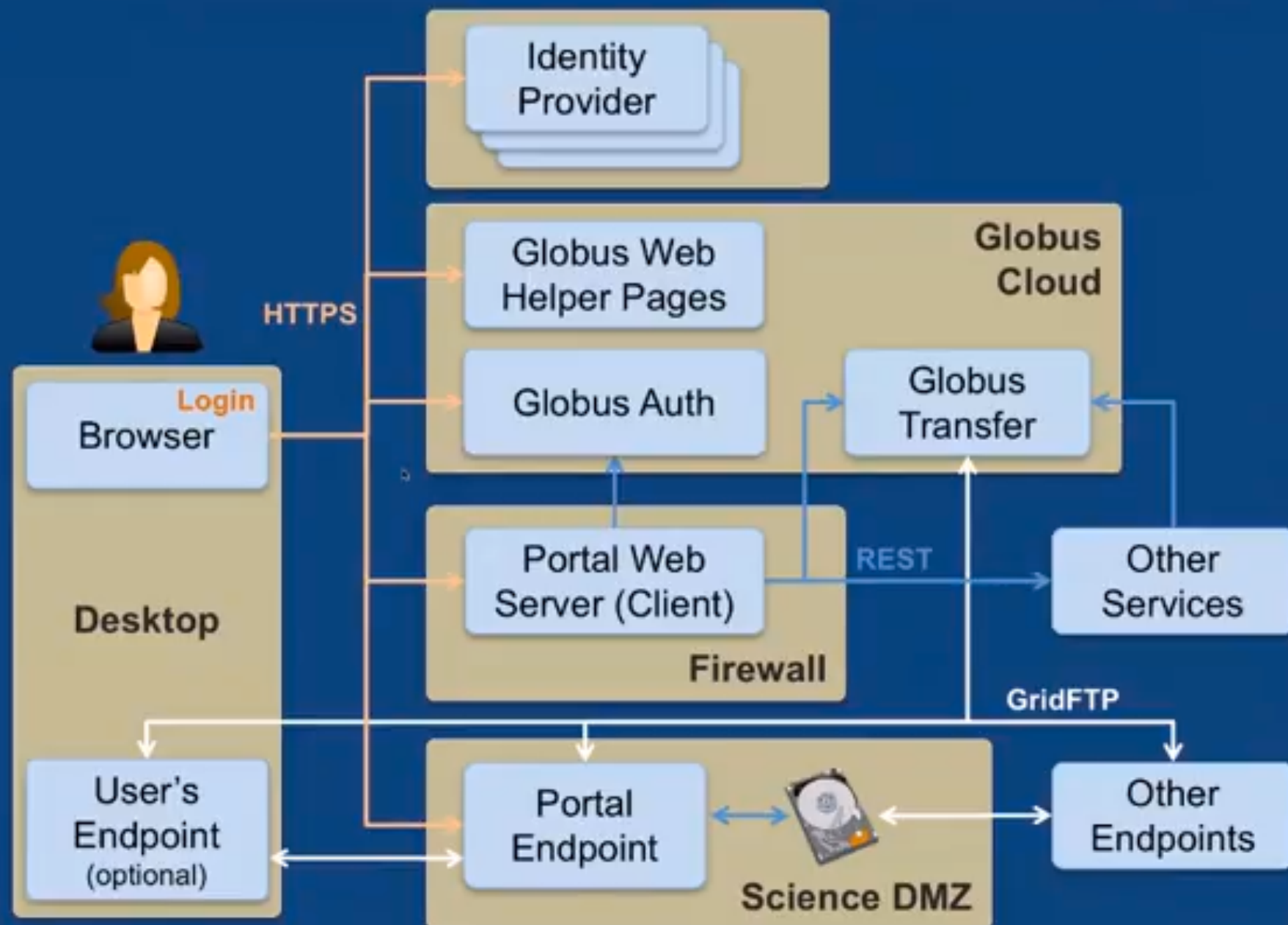
Appears in Collections: [Curated Trial Collection](#)

Endpoint and path to dataset

[e4c16d8f-6d04-11e5-ba46-22000b92c6ec/curated/published/publication_733/](https://doi.org/10.26434/chemrxiv-2023-e4c16)



Prototypical research data portal





Globus Subscriptions

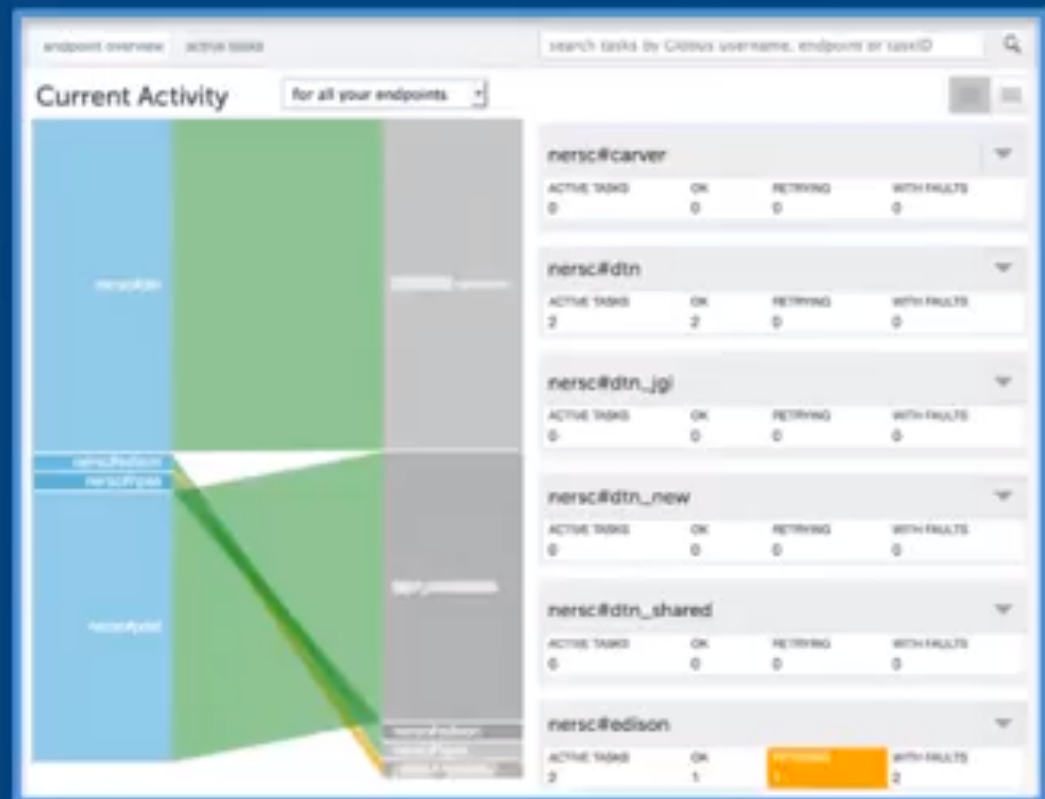
- **Globus Subscription**

- Shared endpoints
- Data publication
- Management console
- Usage reporting
- Priority support
- Application integration
- HTTPS endpoints

- **Branded Web Site**

- **Alternate Identity Provider (InCommon is standard)**

- **Premium Storage Connectors**



globus.org/subscriptions