

Transfer research data efficiently and securely between systems no matter where in the world they are located.

Data-intensive research often requires sophisticated data management capabilities across systems and institutions. The Globus data management service was built to provide these capabilities and make it easier for researchers to collaborate and share large-scale data across organisational boundaries.

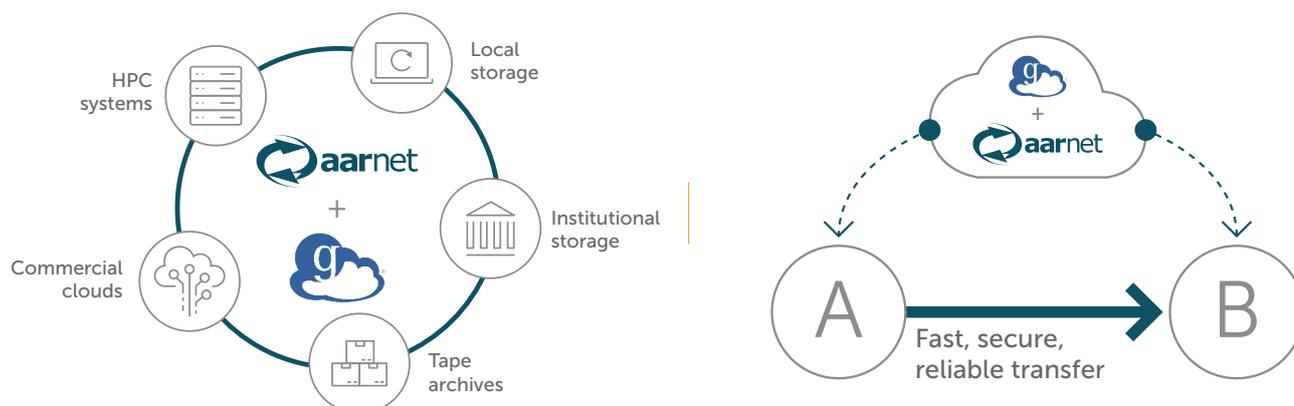
Laptops, supercomputers, tape archives, cloud storage, HPC clusters, and scientific instruments are some of the systems that can be connected to Globus, as well as cloud storage like Google Drive and Amazon S3.

Globus lets you use a web browser or command line interface to submit transfer and synchronisation requests, optionally choosing encryption. Globus takes it from there. With this 'fire and forget' model, Researchers can concentrate on their research while Globus handles the mundane (but important) details of successful large-scale data transfers.

Globus was developed and is operated by a group at the University of Chicago as a non-profit service for use by the research community. Tens of thousands of researchers at hundreds of universities, national labs, government facilities, and other research institutions around the world use Globus.

With support across onboarding, integration and training, plus access to unlimited managed endpoints at sites across the high-speed national research and education network, a Globus subscription through AARNet provides Australian researchers with a robust and security-conscious solution for transferring large-scale data.

Efficiently, securely, and reliably transfer data



Why Globus with AARNet?

- ✔ **AARNet connected**
Leverages the ultra-high bandwidth and low-latency AARNet national and international network for faster data transfers between unlimited managed endpoints across the network.
- ✔ **A reliable partner**
More than just a subscription, AARNet provides support to assist with onboarding, integration and training. Includes dedicated Service Desk and Slack channel.
- ✔ **Community of experts**
Join a community of technologists and researchers working together to develop services to make it easier for researchers to move large-scale and complex data anywhere it is needed.
- ✔ **Competitive pricing**
Low-cost annual subscriptions for the Australian research community.

Key Features

- ✔ **Robust file transfer**
Move data efficiently, securely and reliably between rooms, across campus or around the world.
- ✔ **See all your data at once**
Access your data on a laptop, HPC cluster, cloud storage and tape archive from a single web browser.
- ✔ **Cross-institutional login**
Visibility of your data across different institutions or supercomputer facilities using your campus credentials.
- ✔ **Simple file sharing**
Share files with colleagues with only their email address, without needing to set up a new user account.
- ✔ **Develop your own workflows**
Use the open REST APIs, Python SDK or internal workflow engine to monitor and access transfers, tasks and remote directories, or build your own research data services and applications.
- ✔ **Connect to third-party storage**
Option to expand storage capabilities to allow users to seamlessly access Amazon S3, Box, Google Cloud, Ceph and more.
- ✔ **Secure authentication and authorisation**
Data can be secured with multi-factor authentication and federated login, with full control over data access and sharing permissions of users.
- ✔ **Management console**
Easily view user activity on your managed and shared endpoints, including active file transfer tasks and any faults they are encountering.
- ✔ **Usage reports**
Analyse how Globus is used on your managed and shared endpoints, including historical transfer activity.
- ✔ **Transfer optimisation**
Use the default automated optimisation, or manually tweak endpoint settings to ensure the best performance of transfers.
- ✔ **Automated monitoring**
Automatically monitor your data transfers between systems.
- ✔ **Manage protected data**
Option to upgrade to High Assurance and Health Insurance Portability and Accountability Act (HIPAA) subscription levels for Personally Identifiable Information (PII), and Controlled Unclassified Information (CUI), and enter into a Business Associate Agreement (BAA).

Pricing

AARNet offers a range of subscription options catering for universities, research facilities, and government departments.

For subscription pricing details, please contact your AARNet Customer Relations representative CustomerRelations@arnet.edu.au

“When data collection is ready, we can simply log in to the Globus user interface and share the data with our collaborator in minutes. It has tremendously sped up the data delivery, as there is no extra copying required on our end and we don't need to spend extra time and resources to compress the data into smaller files prior to transfer.”

Dr Carolina Correa-Ospina, Technologies Specialist, Biomolecular Resource Facility

More information

Find out more about Globus and other AARNet products and services at arnet.edu.au