InCommon and TeraGrid Campus Champions

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Outline

- InCommon Overview
- TeraGrid and InCommon
- InCommon and NSF CyberInfrastructure
InCommon Federation

InCommon is the federation for U.S. research and education, providing higher education and their commercial and non-profit partners with a common trust framework for access to online resources.
About InCommon

- Through InCommon, campuses leverage their identity databases to allow for the use of one set of credentials to access multiple resources.
- Online service providers no longer need to maintain user accounts.
- Identity providers manage the levels of their users' privacy and information exchange.
- InCommon uses SAML-based authentication and authorization systems (such as Shibboleth®) to enable scalable, trusted collaborations among its community of participants.
InCommon Participants Year-by-Year

- 253 InCommon Participants (Sept. 2010)
- Almost 5 million end-users (faculty, staff, students)
Current InCommon Participants

A community of more than 4.5 million end users.
(Source: Higher Education Students, Faculty, and Staff, Integrated Postsecondary Education Data System. Calculated April 2010.)

<table>
<thead>
<tr>
<th>Higher Education Participants (180)</th>
<th>Government and Nonprofit Laboratories, Research Centers, and Agencies (7)</th>
<th>Sponsored Partners (66)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American University</td>
<td>Argonne National Laboratory</td>
<td>Absolute Software, Inc.</td>
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<tr>
<td>Arizona State University</td>
<td>Energy Sciences Network (ESNet)</td>
<td>ALEKS Corporation</td>
</tr>
<tr>
<td>Augsburg College</td>
<td>Lawrence Berkeley National Laboratory</td>
<td>Alexander Street Press</td>
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<tr>
<td>Baylor University</td>
<td>Moss Landing Marine Laboratories</td>
<td>Apple - iTunes U</td>
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<tr>
<td>Brown University</td>
<td>National Institutes of Health</td>
<td>Atlas Systems, Inc.</td>
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<tr>
<td>California Institute of Technology</td>
<td>National Science Foundation</td>
<td>BioOne, Inc.</td>
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<tr>
<td>California Maritime Academy</td>
<td>TeraGrid</td>
<td>Blatant Media Corporation</td>
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<td>California Polytechnic State</td>
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<td>Burton Group</td>
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<td>University, San Luis Obispo</td>
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<td>Cambridge University Press</td>
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<td>California State Polytechnic</td>
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<td>University, Pomona</td>
<td></td>
<td>Cengage Learning, Inc.</td>
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<td>California State University,</td>
<td></td>
<td>Colorado Alliance of Research Libraries</td>
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<tr>
<td>Bakersfield</td>
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<td>CSO Research, Inc.</td>
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<td>California State University,</td>
<td></td>
<td>Davie County Schools</td>
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<td>Channel Islands</td>
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</tbody>
</table>
Federated Resources
Resources available via InCommon are many and diverse

**Business Functions**
- Benefits
- Asset management
- Talent management
- Visas & INS compliance
- Mobile alerts
- Travel management
- Energy management
- Surveys and market analysis

**Learning and Research**
- Journals
- Databases and analytical tools
- Multi-media access
- Homework labs
- Quiz tools
- Plagiarism detection
- Software downloading
- Alcohol awareness education
- Student travel discounts
- Transportation and ride-share services.

Strong support from key higher education partners, such as: Microsoft, Apple, National Student Clearinghouse, NSF, NIH, Gov-affiliated Labs
TeraGrid and InCommon
Welcome to go.teragrid.org!

What is go.teragrid.org?
This site allows you to access TeraGrid resources by using the login mechanism provided by your university/organization.

How does go.teragrid.org work?
This site maps your TeraGrid username to a Shibboleth Identity provided by a participating university. This identity is typically used for single sign-on (SSO) purposes and is issued by an Identity Provider (IdP). If you don’t have an account with any of the universities listed in the dropdown box on the left, you can get a free account at ProtectNetwork which will serve as your IdP.

How do I use go.teragrid.org?
These instructions are for initial setup only. You will need to complete these steps once for each IdP you wish to utilize to access TeraGrid resources.

1. Have your login information handy for both of these systems:
   a. Your TeraGrid-wide (User Portal) username and password that you received in your TeraGrid account information packet.
   b. An account at one of the Identity Providers (IdPs) listed in the dropdown box on the right.
2. Select your IdP from the dropdown list under “Select Your Identity Provider”.
3. Click the “Login” button. You will be redirected to your organization’s login page.
4. Log in with your IdP username and password. You will then be redirected back to this site.
5. Log in to TeraGrid using your TeraGrid-wide username and password. This step validates the existence of your TeraGrid account and will need to be done only once. No passwords are saved on this site. This completes the mapping between your Shibboleth Identity and your TeraGrid username.

How do I access TeraGrid resources?
This site provides several ways to access TeraGrid resources:

- Download a credential to your local computer via the GridShib-CA Java Web Start (JWS) client.
- Run the GSI-SSH Term JWS client on your desktop utilizing a previously downloaded credential.
- Run the GSI-SSH Term applet in your browser.
- Run the TeraGrid File Manager applet in your browser.

For these activities, you will need Java 1.5 or higher installed on your computer.

The TeraGrid project is funded by the National Science Foundation and includes eleven resource providers:
Indiana, LONI, NCAR, NCSA, NICS, ORNL, PSC, Purnell, SDSC, TACC, and UC/ANL.
Please send any questions or comments about this site to go-admin@teragrid.org.
Federated Login to TeraGrid

More Information

Where to Get Help
- Urbana campus: Contact the CITES Help Desk at consult@illinois.edu
- Chicago campus: Contact ACCC at (312) 413-0003 or consult@uiuc.edu
- Springfield campus: Contact Information Technology Services at 217-200-0000 or techsupport@uiuc.edu

What is a NetID?
Your NetID serves as your login to many University computing and networking services and also determines your University email address, which is netid@illinois.edu.

For more information, see the Your Network ID (NetID) page.

Technical Information
The server that has just now requested your NetID is shown below.
Server: shibboleth.citese.uiuc.edu
Server Description: CITES Shibboleth Test Server

Application URL:bluestemtfs.login.cgi?shibboleth-idp;si07;lp;prf=22066;sh=hash%3A%2F%2Fgo...
Federated Login to TeraGrid

Associate Identity With TeraGrid Username

It appears that this is the first time you have logged on to this site with your Identity provided by University of Illinois at Urbana-Champaign. In order to utilize TeraGrid resources, you must first log in to your TeraGrid account. You will use the same username and password you use to log on to the TeraGrid User Portal.

This step needs to be performed only once for each Identity. Future logins with your Identity will be associated with your TeraGrid username, thus bypassing this step.

Note that this step only verifies that you can log in to TeraGrid with a particular username. No password information is stored on this site.

Log in to TeraGrid

Username: \[basney\]
Password: \[***************\]
Login
Forgot your password?

Manage Associations

Below is a table showing all identities associated with TeraGrid username "basney". If you want to delete any of them, check the appropriate box in the "Delete?" column and click the "Delete Checked" button.

If you delete the association for the current Identity (shown in italics), you will be required to log in to TeraGrid again to re-establish the association.

Delete? | Identity Provider | Created      | Last Access
--------|-------------------|--------------|-------------
[ ]     | University of Illinois at Urbana-Champaign | 2010-04-06 13:05:28-05 | 2010-04-06 13:09:47-05

Delete Checked
Go Back

The TeraGrid project is funded by the National Science Foundation and includes eleven resource providers: Indiana, LONI, NCAR, NCSA, NICS, ORNL, PSC, Purdue, SDSC, TACC and UC/ANL.
This site uses software from the MyProxy and GridShib projects.
Please send any questions or comments about this site to go-admin@teragrid.org.

(one-time only)
Welcome University of Illinois at Urbana-Champaign User

**Connections and Management**

Your identity is associated with the TeraGrid username "jbasney". You can now perform one of the following actions: connect to the command line of compute and visualization resources (two methods), manage your files with a drag-and-drop interface, or manage your identity associations. For most of these activities, you will need Java 1.5 or higher installed and enabled in your browser.

### A. Connect To TeraGrid With A Desktop Version of GSI-SSHTerm

- Download a credential to your local computer.
- Click the "Launch GSI-SSHTerm JWS" button to start the desktop application.
- Select the "File->New Connection" menu and enter your desired target TeraGrid resource.

**More Information About Desktop GSI-SSHTerm...**

### B. Connect To TeraGrid With A Browser-Based Version of GSI-SSHTerm

- Select the desired target TeraGrid resource from the dropdown box.
- Click the "Login With GSI-SSHTerm" button.

**More Information About The GSI-SSHTerm Applet...**

### C. Transfer Files Via A Drag-And-Drop Interface

- Click the "TeraGrid File Manager" button.
- Select the desired target TeraGrid resource for transferring files.

**More Information About The File Manager...**

### D. Manage Identity Associations

- Click the "Manage Associations" button to view or delete identity mappings.

**More Information About Identity Management...**

**Logout**

To end your secure session, click the "Logout" button.
Federated Login to TeraGrid

GridShib–CA Logon Client

Status: Credential successfully saved.

Exit or see Menu for more options.

Welcome to the NCSA Abe/Lincoln Cluster:
abe.ncsa.uiuc.edu
lincoln.ncsa.uiuc.edu

Unauthorized use/access is prohibited.

For more detailed information about this system, see:
abe:
http://www.ncsa.uiuc.edu/UserInfo/Resources/Hardware/Intel64Cluster/
lincoln:
http://www.ncsa.uiuc.edu/UserInfo/Resources/Hardware/Intel64PetaCluster/

For additional information see:
http://www.ncsa.illinois.edu/UserInfo/Data/Linux/Doc/mssqlquota.html

For any questions, please contact the helpdesk at help@teragrid.org

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TeraGrid InCommon Support: Status

- Available at https://go.teragrid.org since Sep 2009
  - Supporting logins from >30 institutions
  - Issued >1000 certificates so far
- Work in progress:
  - Integrate with TeraGrid User Portal (https://portal.teragrid.org)
  - CILogon Project (https://cilogon.org)
    - Provide certificates to all InCommon members (not just TeraGrid users)
- Other possible future work for TeraGrid:
  - Phase out TeraGrid passwords
  - Attribute-based authorization
  - Support for OpenID
InCommon and NSF CyberInfrastructure
New Service: cilogon.org

• No TeraGrid account required
• Delivers certificates to desktop or browser
• Available certificate lifetimes: from 1 hour to 13 months
• 3 Certification Authorities:
  – Silver: InCommon Silver IDs
  – Basic: any InCommon IDs
  – OpenID: any OpenIDs
• Available now!
Roadmap for using NSF CI with InCommon

• A practical guide under development now
  • Your input is desired!

• For current draft, visit:

https://spaces.internet2.edu/display/nsfciinc
Thanks!

- Questions? Comments?
- Contact: jbasney@illinois.edu