



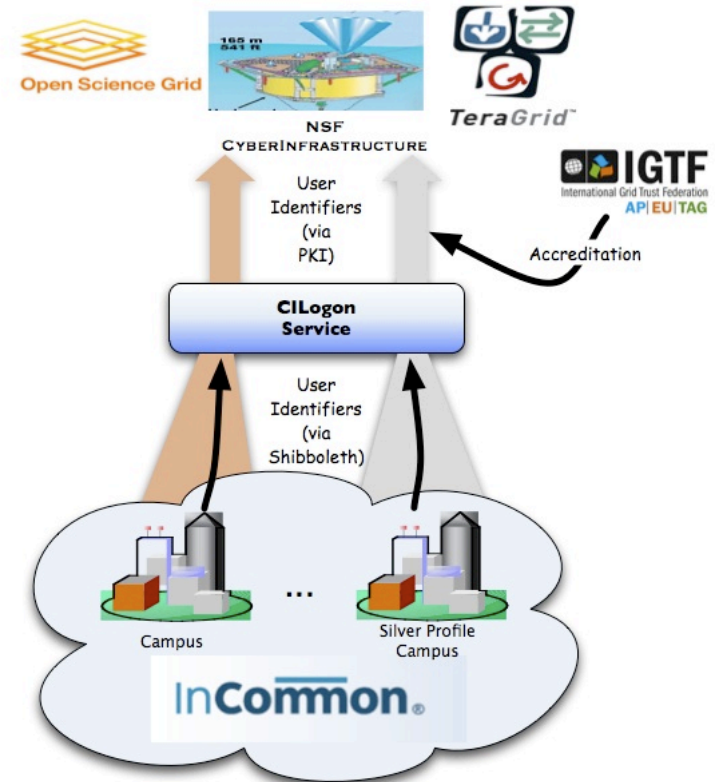
Federated Access to
US CyberInfrastructure

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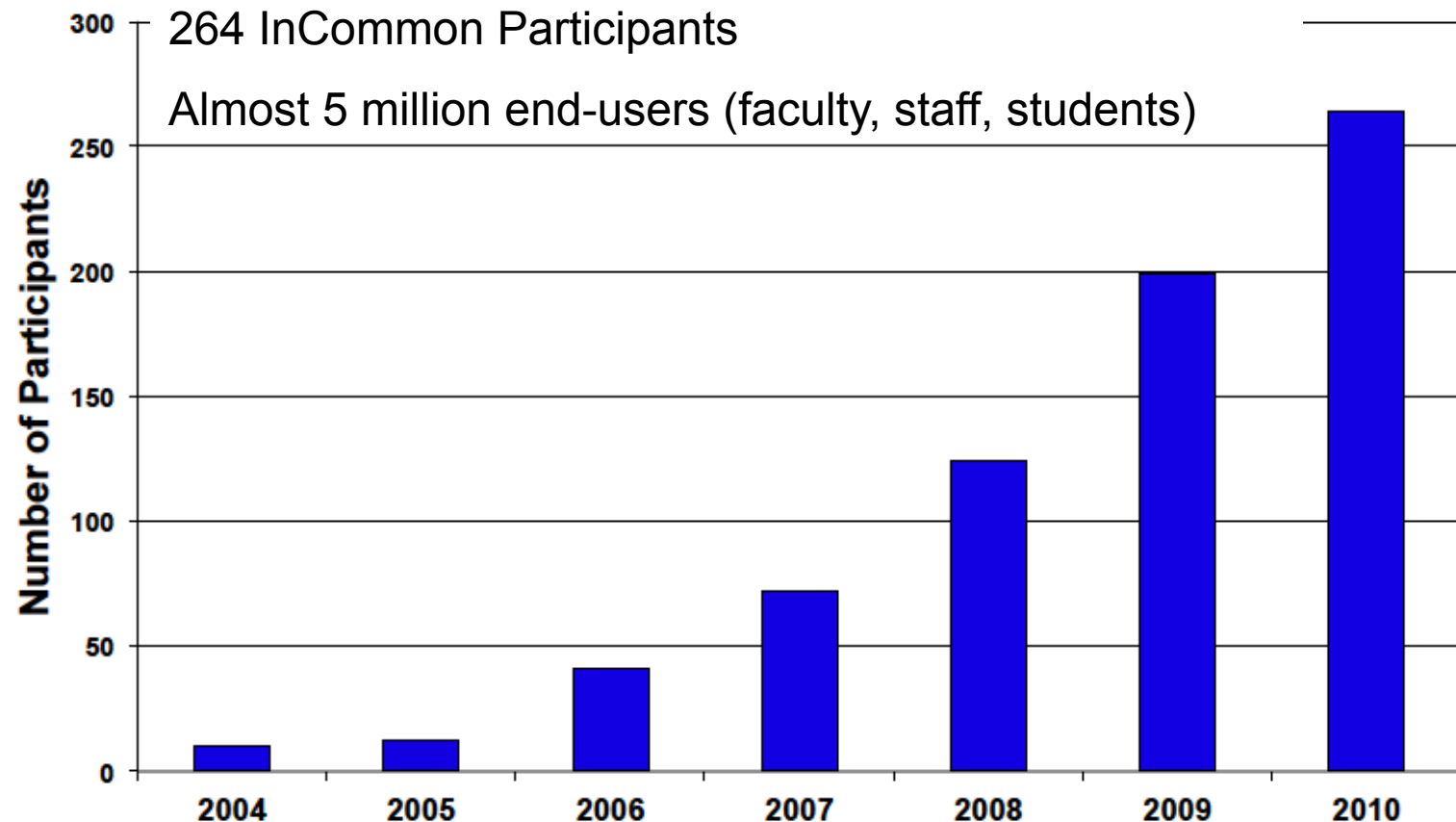
This material is based upon work supported by the National Science Foundation under grant number 0943633. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

CILogon Project Goal

- Enable campus logon to CyberInfrastructure (CI)
 - Use researchers' existing security credentials at their home institution
 - Ease credential management for researchers and CI providers

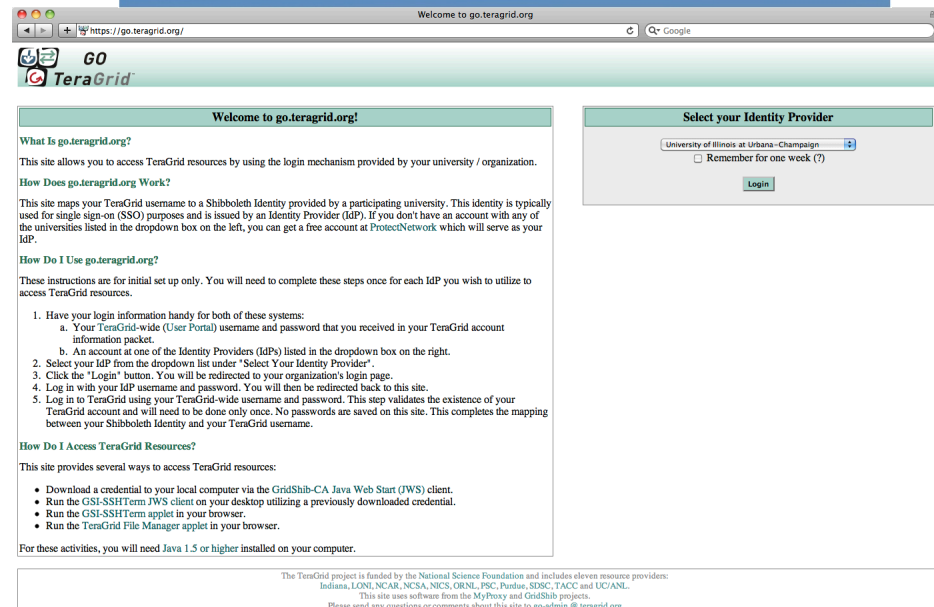


InCommon is the federation for U.S. research and education, providing higher education and their commercial and non-profit partners with a common trust framework for access to online resources.



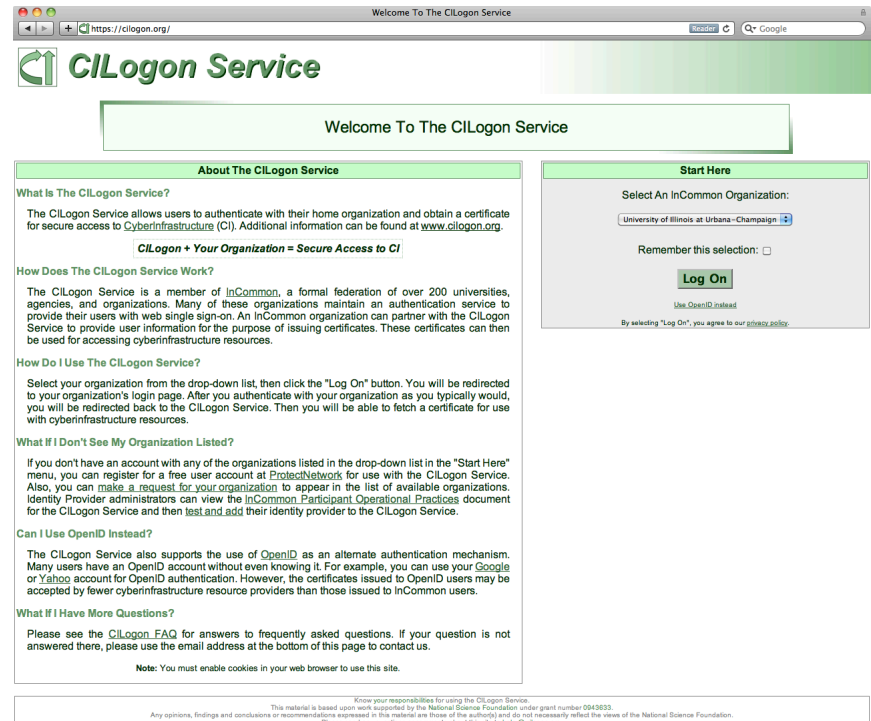
Prior Work: go.teragrid.org

- Campus login to TeraGrid
- 35 campuses so far
- Relies on TeraGrid identity vetting
- In production since September 2009
- 1000+ certificates issued so far to 65+ users
- IGTF accredited
- Integration with portal.teragrid.org underway
- IDtrust 2010 paper: “Federated Login to TeraGrid” (<http://middleware.internet2.edu/idtrust/2010/>)



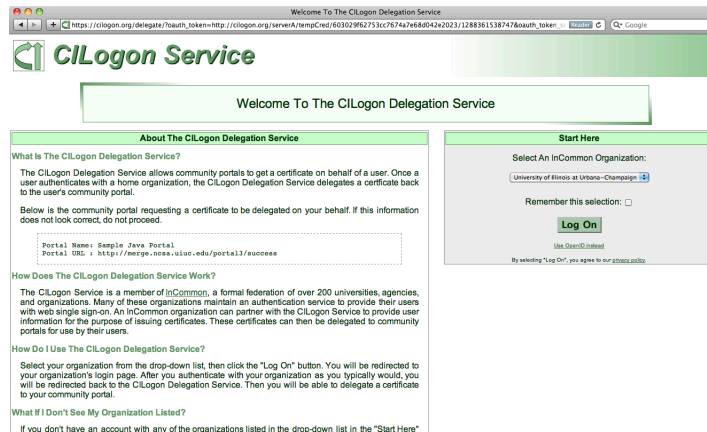
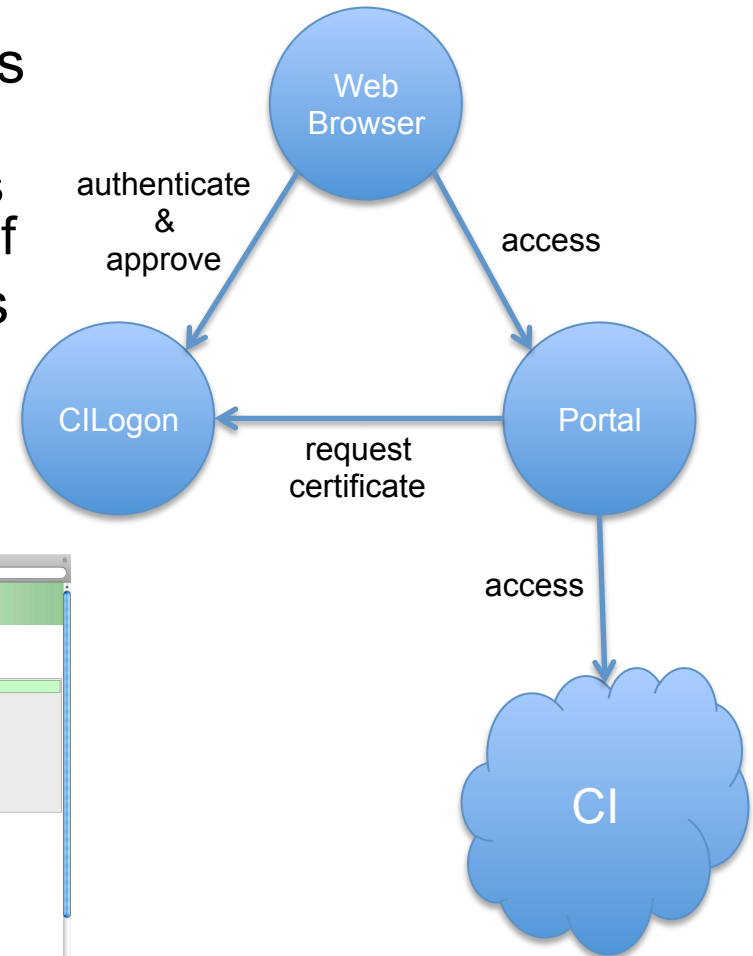
New Service: cilogon.org

- No TeraGrid account required
- Supports InCommon and OpenID authentication
- Delivers certificates to desktop, browser, and portals
- Available certificate lifetimes: from 1 hour to 13 months
- Supports close integration with CI projects
- Available now!
- FAQ: www.cilogon.org/faq



CILogon Portal Delegation

- Grid Portals and Science Gateways provide web interfaces to CI
 - Portals/Gateways need certificates to access CI on researchers' behalf
- CILogon Delegation Service allows researchers to approve certificate issuance to portals (via **OAuth**)
- www.cilogon.org/portal-delegation



Levels of Assurance

- LOA requirements differ across scientific collaborations
 - 2-factor authentication
 - IGTF accreditation
 - Open access with usage statistics
- CILogon LOA options:
 - InCommon Silver: US Gov't ICAM Level 2
 - OpenID OIX: US Gov't ICAM Level 1
 - InCommon “Basic”

CILogon and IGTF

- CILogon CA operations, key management, and certificate profiles meet IGTF standards
- Issue: subscriber ID vetting & authentication
 - Goal: rely on campuses for this
 - Need minimum standards for campus practices
 - Approach: rely on InCommon Identity Assurance
- Status:
 - CILogon Silver CA accredited October 2010
 - Now waiting for InCommon Silver campuses...
 - CILogon Basic & OpenID CAs operating w/o IGTF accreditation

Non-Browser Use Cases

- Currently CILogon requires browser-based authentication (SAML, OpenID)
 - With certificate retrieval & use supported outside the browser
- CILogon support for SAML Enhanced Client or Proxy (ECP) coming soon
 - For end-to-end command-line certificate issuance
 - ECP adoption by InCommon campuses beginning
- Also watching Project Moonshot
 - US eduroam (RADIUS) adoption growing

Thanks

For more information:

www.cilogon.org

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