

# GridShib

## Von Welch

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<http://dev.globus.org/wiki/Incubator/GridShib>



## Goals of the Project

- Allow the Grid to scale by leveraging existing campus identity management (IdM)
  - ◆ Consider Shibboleth as the interface to campus IdM systems
  - ◆ Get out of identity management game
- Making joining the Grid as easy as possible for users
  - ◆ No separate long-term credential for Grid access to manage
  - ◆ No new passwords, certificates, etc
- Allow campuses attributes and VO attributes to be aggregated and used by the Grid for authorization
  - ◆ Allow for scalability in user base through attribute-based authorization - I.e. know groups of users instead of individual users



## Relationship to Other Globus Projects

- Heavily intertwined with other security efforts:
  - ◆ Consumer of lower-level software: GSI, Java Core, Authorization Framework
  - ◆ Driving SAML along with CAS work
- Working with other projects (e.g. Virtual Workspaces) to define new attribute-based authorization methodologies to GT services
  - ◆ e.g. GRAM



## Current Work

- Main products:
  - ◆ GridShib for GT: SAML & Shibboleth attribute parsing for GT runtime
  - ◆ GridShib CA: Shibboleth-authenticated online CA
  - ◆ GridShib for Shib: Add-on for Shibboleth AA to understand X.509
  - ◆ GridShib SAML Tools: Tools to decorate X.509 certificates with SAML attributes and other information - I.e. push mode
- Working closely with TeraGrid to:
  - ◆ Deliver attributes from Science Gateways to resource providers
  - ◆ Allow access to TG resources based on campus authentications via Shibboleth



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## Planned Next Steps

- Integrate into TG CTSS, test and validate
- Get out of incubator status
  - ◆ Waiting on UI lawyers for license
- Integrate into GT 4.2 release
  - ◆ GS for GT, GS-SAML-Tools



## Critical Issues

- Multiple implementations force multiple implementations to cover all of GT:
  - ◆ WS-C
  - ◆ WS-Java
  - ◆ GridFTP
  - ◆ Python