

ShibGrid

Integrating NGS
into the academic framework

ShibGrid: parameters

Partners: University of Oxford and CCLRC.

*Anne Trefethen, Andrew Martin, Mark Norman, David Wallom, Steven Young
Neil Geddes, Jens Jensen, Andrew Richards, Rob Allen*

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Duration: one year.

Aim: *“to develop a prototype system that will allow NGS users to access NGS facilities securely through the Shibboleth authentication mechanisms employed at their institutions.”*

Test deployments: *Diamond, Integrative Biology.*

ShibGrid: Targets

- collation and reporting of requirements;
- system to allow certificate holders to use NGS via Shibboleth mechanisms;
- system to allow non-certificate holders to use NGS via Shibboleth mechanisms;
- extension of NGS portal to use these Shibboleth access mechanisms;
- managed development of software: OMI-compliant.

Scenario 1

- User's only credentials are Shibboleth-provided;
- Authenticates to online CA using these;
- Thereby gains proxy certificate and thereby accesses NGS.
- Proxy certificate is written out with DN provided from (or derived from) Shibboleth-provided attributes.

' shib-proxy-init ' ... MyProxy ...

Scenario 1a

- User holds long-term credential (e-Science Certificate);
- Places a credential in central store;
- Accesses that store using Shibboleth (from any location);
- Thereby gains proxy certificate and thereby accesses NGS.

Scenario 2

[NGS AuthZ is (presently) based on a list of accepted DNs.]

- User registers with NGS using web form, which uses Shibboleth handshake to present DN as attribute to NGS registration.

Scenario 3

[NGS portal presently uses certificates or its own username/password regime.]

- NGS portal is adapted to allow authentication via Shibboleth.

ShibGrid is much foreshadowed...

- but we haven't started yet.
- first work-package: requirements

No architecture diagrams :-)

- We certainly want to re-use as many components as possible!

Andrew.Martin@comlab.ox.ac.uk