



Federated identity system for scientific collaborations

Summary of user requirements session

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- European Photon/Neutron facilities
- Social Science and Humanities
- WLCG High Energy Physics
- Earth Sciences
- Life Sciences



- Users
 - Approx 10,000 users and need to keep a closer track of their involvement
 - Typically short-stays at facilities
 - ‘Part-time’ users – not gurus
 - Most are nomadic (use many facilities) and some are “homeless” (no home institution that could issue identity)
- Key concerns
 - Confidentiality of data
 - Remote access to data
 - Potential remote control of experiments
 - PI to take role in authz
- Status: Umbrella project in prototype stage
 - Adopted Shibboleth/SAML
 - Considering a range of organisational schemes (central authority, local offices etc.)



- Users
 - Several hundred
 - Some “homeless” users
- Key concerns
 - Single domain with identity managed by home institute
 - Many diverse and distributed data sets (multi-media, multi-format etc.) with complex relationships
 - SSO with explicit “acceptable usage” signature
- Status
 - eduGAIN (Shibboleth/SAML) prototype in use with CLARIN
 - Signatory process underway with the national IDFs and CLARIN service providers
 - Have created a home for the “homeless”



- Users
 - 5900 X509 certs
- Key concerns
 - Security tracking across multiple sites and accounts
 - Users have multiple accounts (not all within IGTF realm)
 - Scalability
 - Easy use (would like to hide certs from users)
 - Need conversion of security credentials
- Status
 - Production usage
 - Relies on IGTF
 - Tests underway for federated approach with BNL



- Users
 - 5000+ for CMIP5 alone, much greater for other earth science deployments.
 - Currently 25 centres around Europe but likely to grow quickly
- Key concerns
 - Integration of many diverse data sets
 - Many technologies and tools already in use
- Status
 - Earth System Grid Federation in place using OpenID, X.509 and SAML
 - A standard solution for securing OPeNDAP and other HTTP-based services



- Users
 - Millions access data via the EBI website
- Key concerns
 - 20+ datasets that are continuously growing
 - At least 1 data set (European Genotype Archive) currently requires authentication
- Status
 - BiomedBridges ESFRI cluster project has security on work plan and will work to bring together up to 10 life science ESFRI projects



Comparing

user community	other projects	# users	chosen technology	status	IGTF
photon/neutron	EUROFEL, PanData, CRISP	10,000	Shibboleth/SAML	Umbrella prototype	no
Social Sciences and Humanities	DARIAH, CLARIN, CESSDAH, (DASISH)	hundreds now, potential for 10000+ across SSH	Shibboleth/SAML	CLARIN SP federation - will see if they can use eduGAIN	yes
WLCG	WLCG	5900 globally	X509	production	yes
earth sciences	Earth System Grid Federation, GENESI-DEC, CMIP5, Metafor, IS-ENES	5000+ for CIMP5	OpenID, X.509 and SAML	production - earth system grid	not yet but foresee for EGI integration
life sciences	ELIXIR & potentially 10 BMI ESFRI projects	millions access data via EBI website	no chosen yet	security included in BioMedBridges project workplan	no



- There are many common needs and hence scope for agreement
 - SSO
 - Easy of use for part-time users
 - Focus is on data access
 - Support homeless users
 - Many tools and technologies deployed
 - Smooth transition from existing systems

