EGI-Engage JRA1.1 Authentication and Authorization Infrastructure Christos Kanellopoulos Nicolas Liampotis - GRNET

WP3 Meeting - 2017.03.24



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EGI-Engage Targets

- Explore approaches to easier safe management of user credentials
- Identify possibilities and requirements for user authentication against both web and non web-based applications.
- Identify user registration and management requirements from a VO perspective. Engage with the CCs, capture workflows and develop solution prototypes.
- Explore current technical possibilities and the usability of existing infrastructures covering identity management
- Develop authentication solutions for use cases
- Investigate alternative identity-vetting approaches to current practices
- Liaise with other projects focusing on AAI to share know-how and best practices.



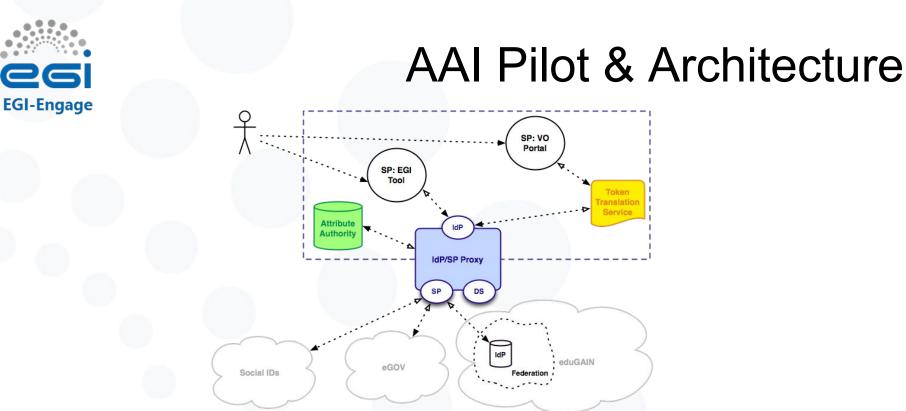
Task Overview

Authentication and Authorisation Infrastructure

Task		JRA1.1		"Provid	e viable meth	ods for authe	entication
Start		M3 (May)		and aut	thorisation (A	A) in the EGI	ecosystem,
End		M27		address	sing current s	hortcomings"	
Total P	Ms	24.5			-		
Partner		EGI.eu	CES	SNET	GRNET	NIKHEF	STFC
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PM		7.5	4		1	4	2
PM Month		7.5 ilestone - eliverable	4		/ Tit	-	Z
	D M3.	ilestone - eliverable 4	Pilot s	ervices a plutions r	Tit and best prac	le	

Roadmap

ngage	Task name	Start date	Release d
1.1	Identification of and liaison with stakeholders • WP3 F2F and EGI Conference ✓ • Liaise with AARC ✓ • Connections with GN4, EUDAT2020 and PRACE ✓ • Identification of initial set of tools ✓	05/2015 (PM3)	06/2015 (PM4)
1.2	 Requirements capturing Use FIM4R as the starting point and allign with AARC DJRA1.1 ✓ Identify the most important use cases (CC) ✓ Technical guidelines for enabling federated access in the initial set of tools ✓ 	05/2015 (PM3)	08/2015 (PM6)
1.3	 Technical architecture and pilot implementation Phase 1: Which AA services are needed ✓ Design of the AAI Pilot Architecture ✓ Pilot implementation Roadmap ✓ Collaboration with the AAI pilot and the user portal activity for the LTOS ✓ Pilot: Connection of the first set of EGI tools to the EGI IdP proxy ✓ Phase 2: Expansion to EGI Tools and selected CCs ✓ Interaction with SA2 (Training & User support) ✓ 	09/2015 (PM7)	12/2015 (PM10) 04/2016 (PM14) 07/2016 (PM17)
	 <u>Phase 3:</u> Technology reassessment ✓ Pilot services and best practices to enable federated AAI solutions released <u>Phase 4:</u> Architecture and solution for the production EGI AAI services 		02/2017 (PM24)



- Use case 0 IdP/SP proxy
- Use case 1 Attribute Authorities (Internal)
 - Use case 1.1 Perun
 - Use case 1.2 GOCDB
- Use case 2 Token Translation
 - Use case 2.1 Token Translation with CILogon
 - Use case 2.2 Token Translation with PUSP
- Use case 3 Hybrid stack SAML / OpenID Connect



Pilot roadmap

Timeline	Expected Result
2015-Q4 DONE	EGI IdP/SP deployed (SimpleSAMLphp/OpenConext/COmanage)
2015-Q4 DONE	Interconnect the EGI IdP/SP with a SAML 2.0 IdP (EGI SSO & GRNET VHO)
2015-Q4 DONE	Interconnect the EGI IdP/SP with a SAML 2.0 SP
2015-Q4 DONE	Interconnect the EGI IdP/SP with Perun as attribute provider



Pilot roadmap

Timeline	Expected Result
2016–Q1 DONE	First pilot with EGI operational tools as SPs: - GOCDB - AppDB
2016-Q1 DONE	Add OIDC & OAUTH2 support to the EGI IdP/SP (for external identity providers)
2016-Q1 DONE	 Enable support for logins using social IDs Facebook (OAUTH2) Google (OIDC) LinkedIn (OAUTH2) ORCID (OAUTH2)
2016-Q1 DONE	Deploy CILogon pilot service for X.509v3 certificates
2016-Q1 DONE	Deploy CILogon pilot service for PUSP



Pilot roadmap

Timeline	Expected Result
2016–Q1 DONE	Interconnect the EGI IdP/SP with GOCDB as attribute provider
2016–Q1 DONE	Interconnect the EGI IdP/SP with CILogon based Token Translation Services (x509v3)
2016–Q1 DONE	Interconnect the EGI IdP/SP with PUSPs based Token Translation Services



Development roadmap

Timeline	Expected Result
2016-Q2	User enrollment interface
DONE	
2016-Q3	Support for account linking
DONE	
2016-Q3	Support for OIDC services
DONE	
2016-Q3 2017-Q1	Finalisation of user enrollment flows
IN PROGRESS	
2016-Q3 2017-Q1	Finalisation of LoA mappings
IN PROGRESS (draft proposal)	



Development roadmap

Timeline	Expected Result
2016-Q4 2017-Q1	Finalisation of OIDC client management UI (including token management for federated access to CLI tools/API clients)
IN PROGRESS	
2016–Q4	Entitlements for accessing services based on user's IdP metadata (e.g. REFEDS
DONE	R&S, Sirtfi)
2017-Q1	Mapping of user X.509 DN(s) to EGI UID in COmanage
IN PROGRESS	
2017-Q1	Finalisation of VO membership information connectors
IN PROGRESS	
2017–Q1	Technology reassessment and definition of the roadmap until the end of the EGI-Engage project



Integration roadmap

Timeline	Expected Result
2016-Q2	Interconnection with ELIXIR IdP
DONE	
2016-Q2	Integration with AppDB SP
DONE	
2016-Q2	Integration with GGUS SP
IN PROGRESS DONE	
2016-Q3	Integration with updated GOCDB AA REST API
DONE	
2016-Q4 2017-Q1	Integration with production RCauth.eu CA
DONE	



Integration roadmap

Timeline	Expected Result
2016-Q4 2017-Q1	Interconnection with FedCloud SP
IN PROGRESS	
2016-Q3	Interconnection with DataHub SP
DONE	
2017-Q1 2017-Q2	Interconnection with Operations Portal SP
IN PROGRESS	
2017-Q1	Interconnection with LToS (SP+AA)
DONE	
2017-Q1	Interconnection with EPOS (SP)
DONE(devel)	



Integration roadmap

Timeline	Expected Result
2017-Q1	Interconnection with EDISON Portal SP
DONE(devel)	
2017-Q1	Interconnection with ARIA IdP
DONE(devel)	
2017-Q1	Interconnection with EUDAT IdP
IN PROGRESS DONE(devel)	
2017-Q1	Interconnection with EUDAT SPs (TBD)
IN PROGRESS DONE(devel)	

Thank you for your attention.

Questions?



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