EGI–Engage JRA1.1 Authentication and Authorization Infrastructure

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- 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.

Authentication and Authorisation Infrastructure

Task	JRA1.1			
Start	M3 (May)			
End	M27			
Total PMs	24.5			
Partner	EGI.eu	CESNET	GRNET	NIKHEF	STFC
PM	7.5	4	7	4	2

"Provide viable methods for authentication and authorisation (AA) in the EGI ecosystem, addressing current shortcomings"

Month	Milestone - Deliverable	Title
M16 Aug-2016	M3.4	Pilot services and best practices to enable federated AAI solutions released
M24 Feb-2017	D3.9	Identity Management for Distributed User Communities report

#	Task name	Start date	Release date
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) Phase 3: • Technology reassessment • Pilot services and best practices to enable federated AAI solutions released Phase 4: • Architecture and solution for the production EGI AAI services • Identity Management for Distributed User Communities report	**09/2015 (PM7)**	**12/2015 (PM10)** **04/2016 (PM14)** **07/2016 (PM17)** **02/2017 (PM24)**

AAI Pilot & Architecture
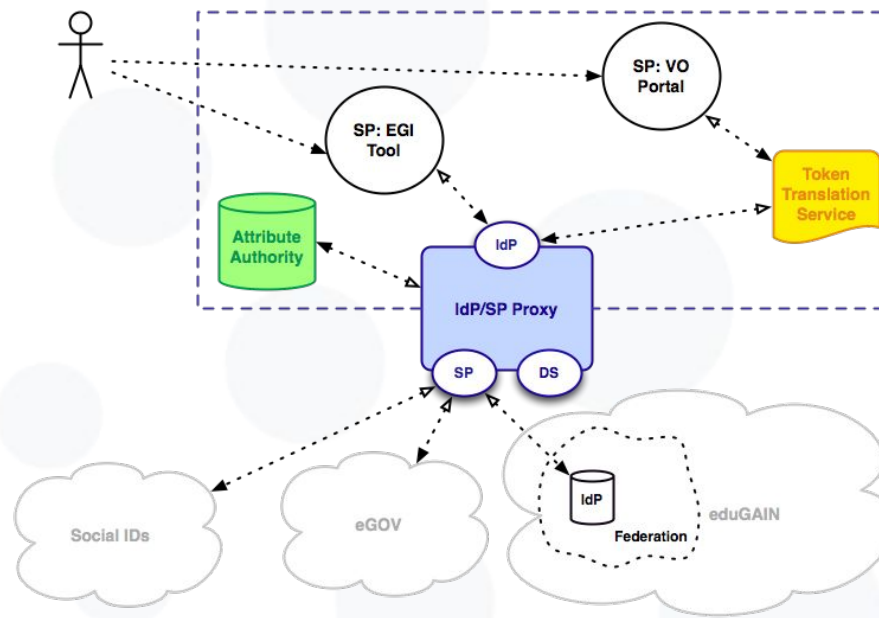
- **Use case 0 - IdP/SP proxy**

- **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	Required Technical Components	Technology Providers	Service Providers	Support Agreement
2015-Q4	EGI IdP/SP deployed	simpleSamlPHP / OpenConnext	GRNET	GRNET	GRNET can support this
2015-Q4	Interconnect the EGI IdP/SP with a SAML 2.0 IdP	SAML 2.0	N.A.	N.A.	N.A.
2015-Q4	Interconnect the EGI IdP/SP with a SAML 2.0 SP	SAML 2.0	N.A.	N.A.	N.A.
2015-Q4	Interconnect the EGI IdP/SP with Perun as attribute provider	PERUN	CESNET	CESNET	N.A.

Pilot roadmap

Timeline	Expected Result	Required Technical Components	Technology Providers	Service Providers	Support Agreement
2016–Q1	Interconnect the EGI IdP/SP with GOCDB as attribute provider	GOCDB, GOCDB connector	STFC GRNET	STFC GRNET	GOCDB supported by STFC, GOCDB connector can be supported by GRNET
2016–Q1	Interconnect the EGI IdP/SP with CILogon based Token Translation Services **(In collaboration with AARC)**	CILogon, MyProxy	NIKHEF	NIKHEF	N.A.
2016–Q1	Interconnect the EGI IdP/SP with PUSPs based Token Translation Services	eToken Server and/or MyProxy	INFN NIKHEF	INFN NIKHEF	N.A.
2016–Q1	First pilot with EGI operational tools and selected use cases from the EGI-Engage Competence Centers	N.A.	N.A.	N.A.	N.A.

Pilot roadmap

Timeline	Expected Result	Required Technical Components	Technology Providers	Service Providers	Support Agreement
2016–Q2/Q3	Second pilot with selected use cases from the EGI-Engage Competence Centers	N.A.	N.A.	N.A.	N.A.
2016–Q3	Technology reassessment and definition of the roadmap until the end of the EGI-Engage project	N.A.	N.A.	N.A.	N.A.

Thank you for your attention.

Questions?