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

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

Partner	EGI.eu	CESNET	GRNET	NIKHEF	STFC
PM	7.5	4	7	4	2

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)**

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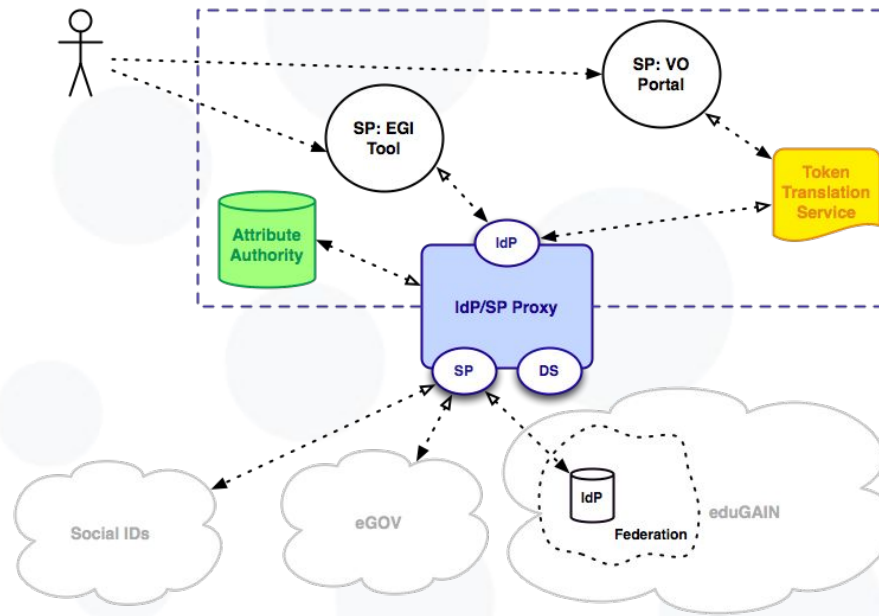
- **Use case 0 - IdP/SP proxy**

- **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	Responsible
2015-Q4 **DONE**	EGI IdP/SP deployed (simpleSAMLPhp/OpenConext/COManage)	GRNET
2015-Q4 **DONE**	Interconnect the EGI IdP/SP with a SAML 2.0 IdP (EGI SSO & GRNET VHO)	GRNET EGI.eu
2015-Q4 **DONE**	Interconnect the EGI IdP/SP with a SAML 2.0 SP	GRNET
2015-Q4 **DONE**	Interconnect the EGI IdP/SP with Perun as attribute provider	GRNET CESNET

Pilot roadmap

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

Pilot roadmap

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

Pilot roadmap

Timeline	Expected Result	Responsible
2016-Q2 **IN PROGRESS**	User enrollment interface	GRNET
2016–Q2 **IN PROGRESS**	Pilot with selected use cases from the EGI-Engage Competence Centers - DARIAH - ELIXIR	GRNET EGI.eu CESNET
2016-Q3 **IN PROGRESS**	Interconnection with FedCloud (new)	GRNET EGI.eu
2016-Q3 **IN PROGRESS**	Interconnection with EUDAT	GRNET EGI.eu
2016-Q3	2nd pilot with more use cases from the EGI-Engage Competence Centers	N.A.
2016–Q3	Technology reassessment and definition of the roadmap until the end of the EGI-Engage project	N.A.

Thank you for your attention.

Questions?