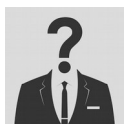


IDEM e le AAI per le infrastrutture di ricerca

Davide Vagheti – davide.vagheti@garr.it
Coordinatore Comitato Tecnico Scientifico Federazione IDEM - GARR



Infrastrutture di Autenticazione e Autorizzazione basate su SAML



Identità delle organizzazioni di appartenenza



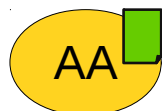
Web-SSO



Nuovi servizi = Nuovi Service Provider



Rilascio attributi basato su accordi e/o EC



Attribute Authority direttamente collegate a SP

Infrastrutture di ricerca



*EUDAT 3rd Conference: What's on the Horizon?, 24-25 September 2014
Kimmo Koski, Managing Director CSC - IT Center for Science, Finland & EUDAT Co-ordinator*

La Federazione IDEM supporta pienamente tutti i casi d'uso della comunità della ricerca?



Zak McKracken and the Alien Mindbenders, Lucasfilm Games, 1988



Deliverable DJRA1.1:

Analysis of user community and service provider requirements

<https://aarc-project.eu/wp-content/uploads/2015/10/AARC-DJRA1.1.pdf>

Analisi basata su interviste a comunità della ricerca

Risultati:

- Guest Identities / Levels of Assurance
- User Identification
- Attributes: Groups and Authorisation
- Attributes: Release
- Technology requirements
- Privacy, legal issues, and policies
- Training

Guest Identities / Levels of Assurance

Requisito	IDEM	eduGAIN
“Homeless” Users	NO	SI
Social media identities	NO	NO
Different Levels of Assurance	NO	DIPENDE DALLE FEDERAZIONI
Step up authentication	SI	SI
Integration with e-Government infrastructures	...ci stiamo lavorando!	...work in progress

User Identities

Requisito	IDEM	eduGAIN
Unique user identities	SI	SI
Persistent User Identifiers	SI (quasi...)	IN PARTE
User-managed identity information	NO (dipendente da IdP)	NO (vedi IDEM)

Attributes: Groups and Authorisation

Requisito	IDEM	eduGAIN
User groups and roles	SI	NO
Flexible and scalable attribute release policies	IN PARTE con Entity Categories	IN PARTE con Entity Categories
Community based authorisation	SI (ad es. grouper GARR IDEM)	DIPENDE DALLE FEDERAZIONI
Semantically harmonized identity attributes	SI	SOLO IN PARTE

Attributes: Release

Requisito	IDEM	eduGAIN
Sufficient Attribute release	SI con Entity Categories	SI con Entity Categories
Attribute Aggregation / Account Linking	NO (proxy/AP di federazione)	NO

Technology requirements

Requisito	IDEM	eduGAIN
Federation solutions based on open and standards based technologies	SI	SI
Browser and non-browser based federated access	NO	NO
Delegation	NO	NO

Privacy, legal issues, and policies

Requisito	IDEM	eduGAIN
Federated Incident report Handling	SI	https://refeds.org/SIRTFI (Security Incident Response Trust Framework for Federated Identity)
Effective Accounting	SI	Dipendente da Federazioni
Up to date identity information	SI	Dipendente da Federazioni
Policy Harmonization	SI	SI (REFEDS, MACE-DIR, SCHAC)
Best practices for terms and conditions (Service Providers)	SI	SI (REFEDS)

Training

Requisito	IDEM	eduGAIN
Awareness about R&E Federations	SI	SI
Simplified process for joining identity federation	NO	NO
User and Service Provider friendliness	NO	NO



Milestone MJRA1.4

First draft of the Blueprint Architecture
(in review, non ancora pubblicata)

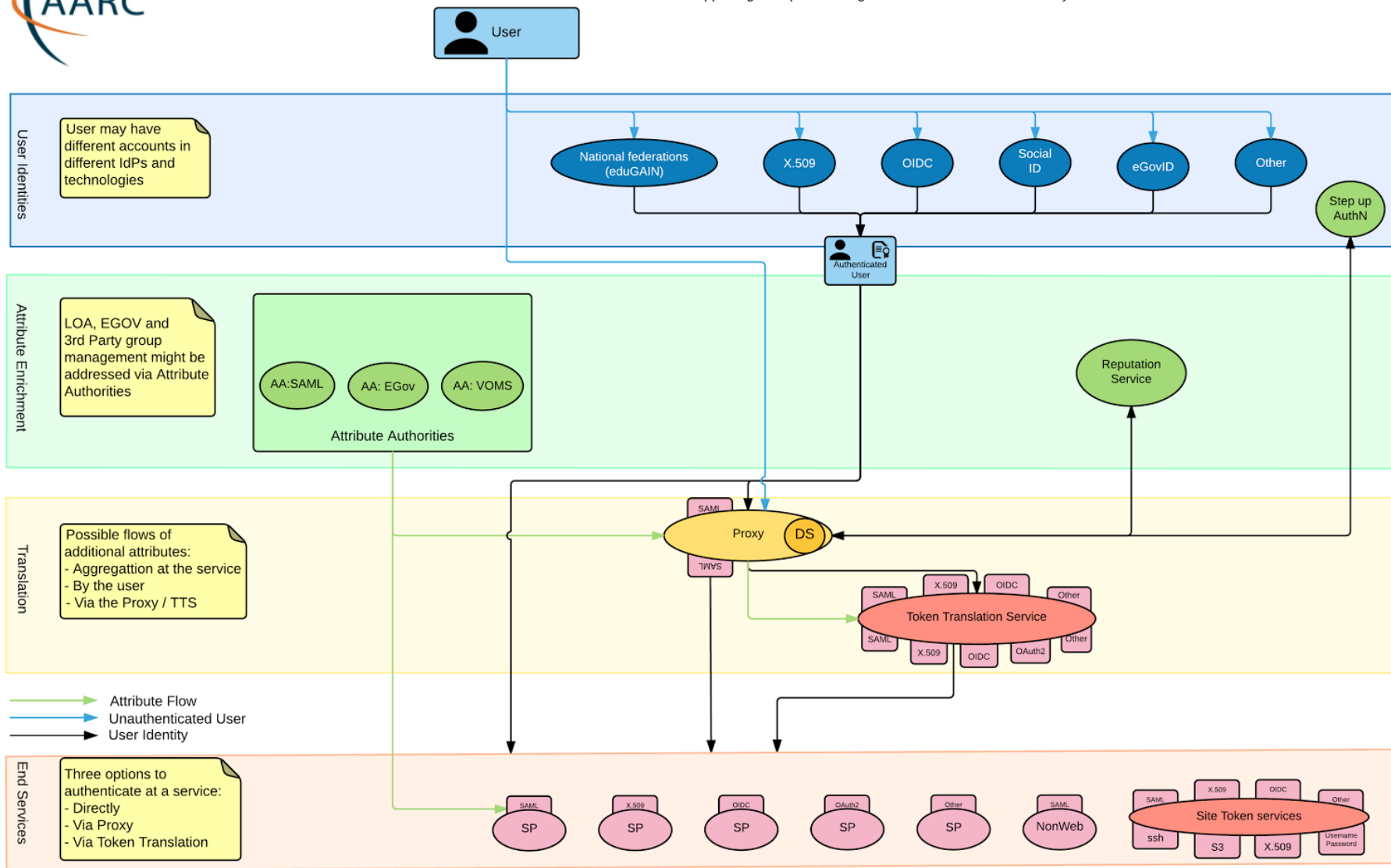
“The goal of this document is to provide a general AAI architecture that can be used as a blueprint for the design and implementation of integrated and interoperable AAI solutions in the R&E sector.”

AARC: Blueprint (AAI) Architecture



AAI: The e-Infrastructure view

What is happening on top of existing Federation infrastructures today

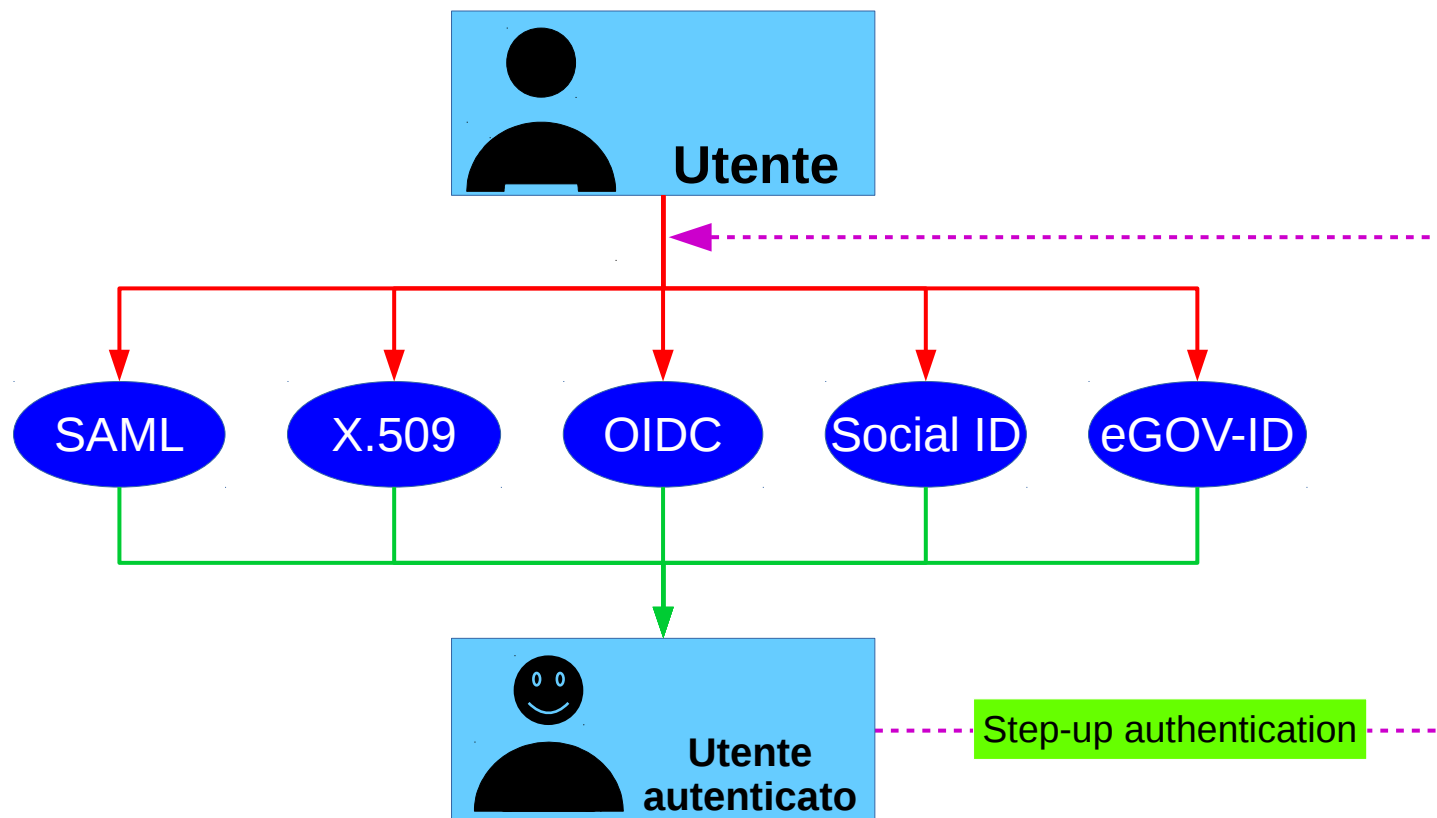


Milestone MJRA1.4, First draft of the Blueprint Architecture

AAI Architecture: User Identities Layer

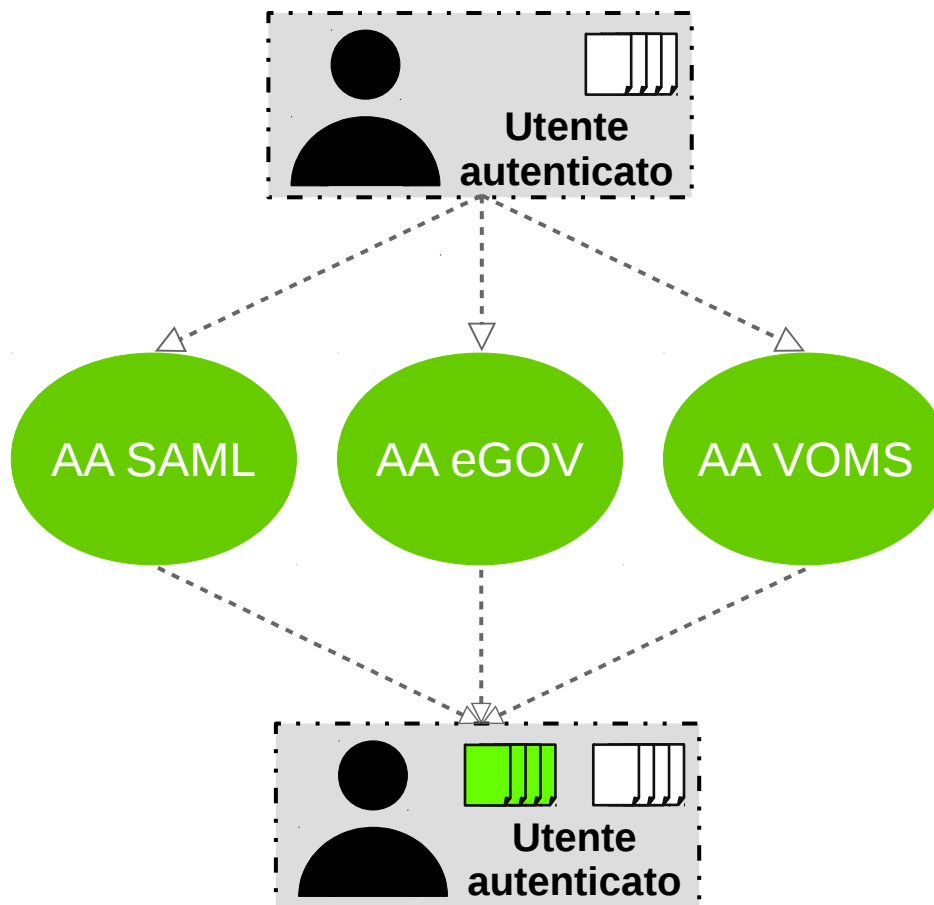


Gli utenti possono avere piu' identita' su diversi IdP che a loro volta implementano differenti tecnologie di autenticazione



AAI Architecture: Attribute Enrichment

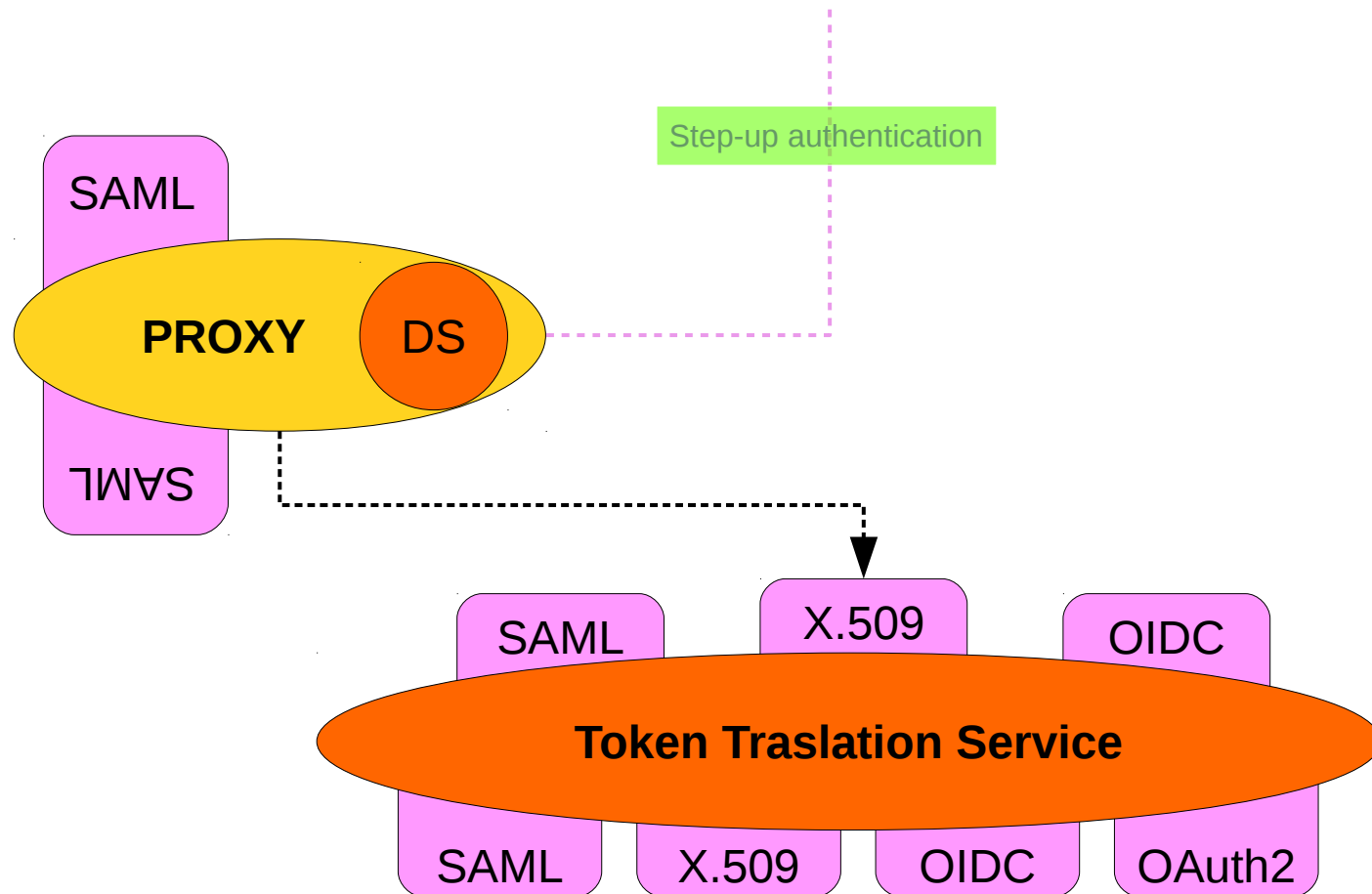
Tramite Attribute Authorities e' possibile arricchire il set di attributi degli utenti con informazioni su gruppi, ruoli, account linking, ecc.



AAI Architecture: Proxy/TTS

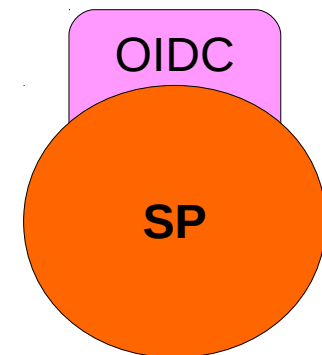
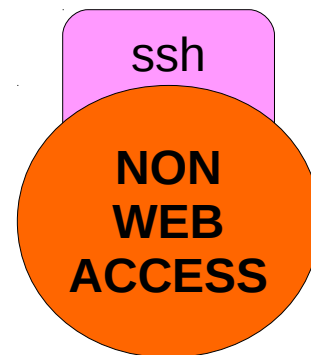
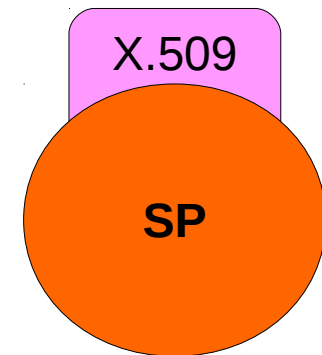
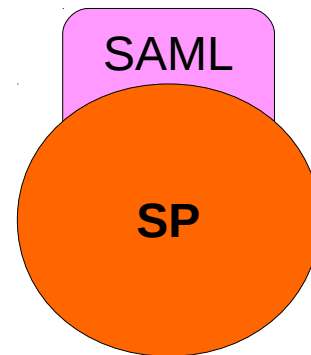
Proxy e TTS mettono a disposizione:

- ulteriore arricchimento attributi tramite aggregazione, inserimento utente, ecc.
- hook per step up authentication
- protocollo di autenticazione di arrivo diverso da quello di partenza (token translation)



AAI Architecture: End Services

I servizi finali vengono acceduti direttamente, o tramite proxy, o tramite TTS. A loro volta sui Service Provider possono essere integrati servizi trasparenti di TTS, o tecnologie che permettano di utilizzare l'autenticazione federata con servizi NON-WEB (ssh).



IDEM e GARR partecipano alle attività di AARC in tutte e tre le sue declinazioni:

- Architettura e Design (JRA)
- Pilot (SA)
- Disseminazione e Training (NA)

<https://wiki.geant.org/display/AARC/AARC+Home>

Grazie