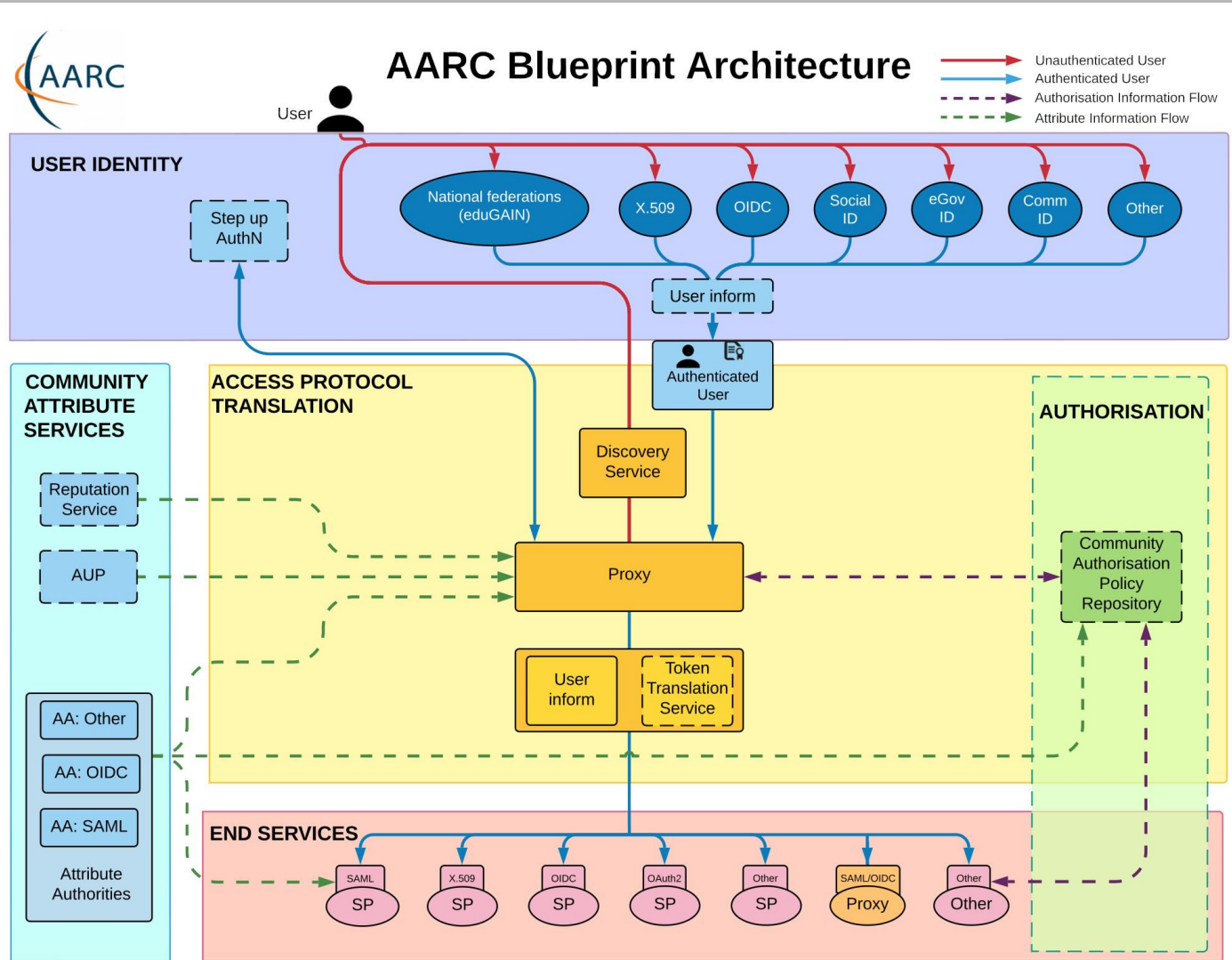


De-provisioning - necessity even in proxy IdP/SP architecture

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AARC Blueprint Architecture



Proxy architecture

- Easy way to connect services
- Persistent identity for each user
- Harmonized attributes
- Authorization on proxy level
- Approval of AUP, data release, etc.

- All is done during sign in of a user

Services with extra requirements

- Some services needs to know user upfront or know when the user is no longer authorized
- Mailing list
- Cloud platforms
- Data storages
- VOMS
- Collaborative tools
- ...

Provisioning & deprovisioning

- Method to deliver user information to services
 - Access rights
 - Authorization informations (groups, roles)
 - User attributes (name, e-mail, ...)
- Triggered without direct user interaction
- Services react accordingly
 - Creating accounts
 - Updating local user information
 - Disabling or deleting account

Benefits of (de-)provisioning

- Database of access rights for all users and services
- Database of which data released to services
 - GDPR
- Deprovisioning can be used to disable account when it have been compromised
- Provision access tokens for non-web access
 - SSH keys

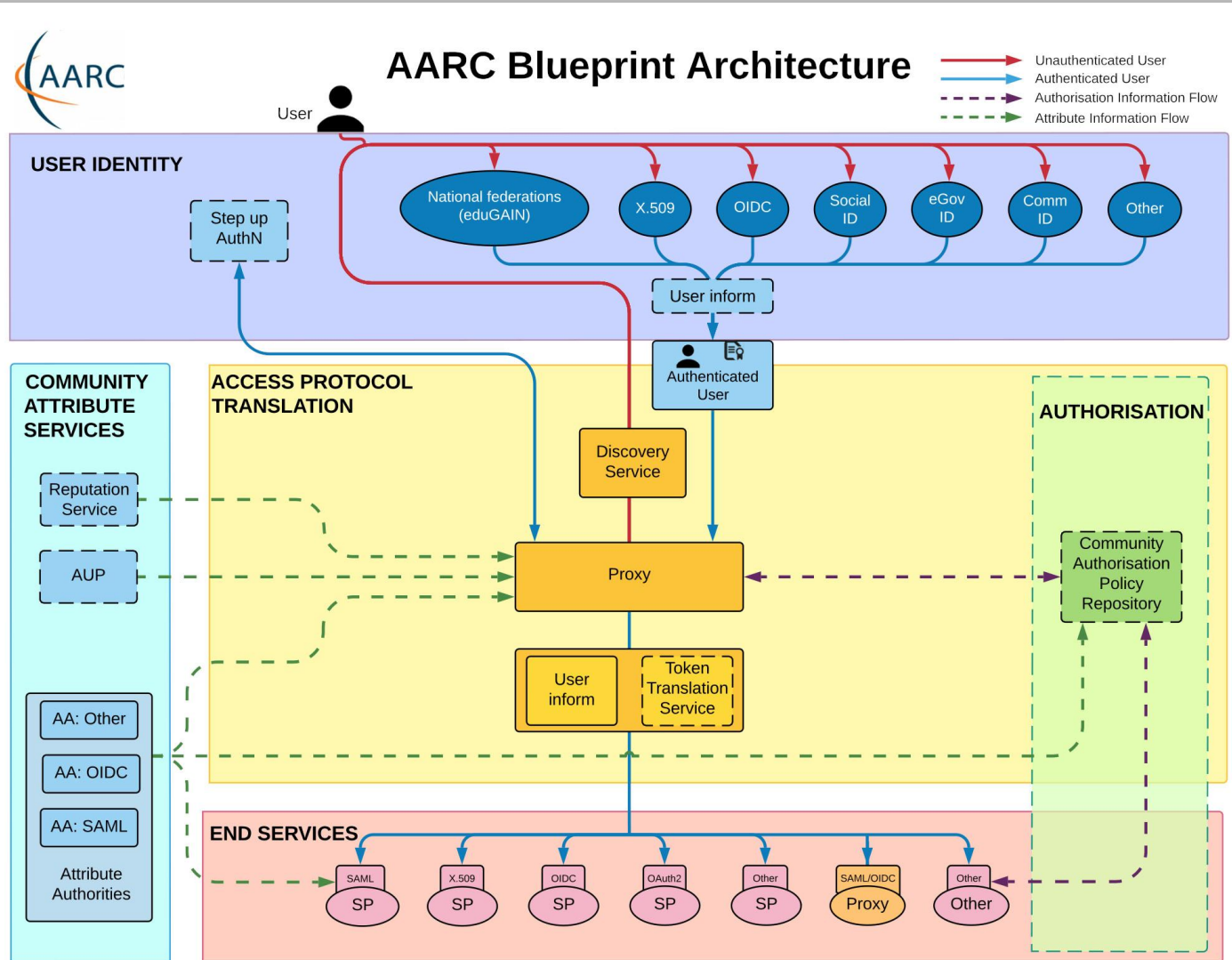
Implementation

- Transfer model
 - Periodic pull
 - Push model
- Transferred dataset
 - Changeset only
 - Need to ensure consistency
 - Full state
 - May have performance issues
- Protocols
 - LDAP, VOOT, SCIM, JSON, XML, OIDC, ...

Identity and access management

- Identity and access management
 - source for (de-)provisioned data
- Support for user life-cycle
 - Registration / import, expiration, renewal
 - Support also on service side
- Support for access management
 - Group, entitlements, capabilities management
 - Configurable provisioning to services

AARC Blueprint Architecture





- Identity and access management
- (De-)provisioning engine
- Open-source (<https://perun-aai.org>)
- Major deployment: ELIXIR, EGI, GÉANT
- EGI instance integrated with EGI Check-in
- (De-)provisioning connectors available for many services
 - Easy to develop new connectors

Summary

- Provisioning and deprovisioning notify services about changes in user attributes or state
- Deprovisioning is crucial for services with persistent user resources
- Can be handled with external identity and access management system
- Is aligned with AARC Blueprint Architecture

Thank you for attention

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