The case for an (agnostic) AA-RR

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The need for an AA-RR

- **Ease the interoperability efforts**
  - It is easier not to test against infrastructures in use
  - It is easier not to install additional software
  - It is easier not to have to express in a foreign language
- **Collect profile data**
  - Applicable not only to different pieces of software
- **Simplify con-federation**
  - Requirements on syntax and semantics can be published and shared
  - In a normalized way

An agnostic AA-RR

- The original proposal only mentioned SAML
  - A rough consensus on SAML was assumed
  - But even PAPI-SPOCP integration uses S-exps!
- The AA-RR may well be protocol agnostic
  - Profiles and requirements are to be defined in a neutral representation
  - We have two reference APIs available
    - openSAML
    - SPOCP
  - And profile impersonation should be possible in both cases
- This will make AA-RR more extensible and open

The AA-RR functionality

- Able to *impersonate* any of the following components
  - Attribute sources (AS): Able to accept queries and respond with attribute information
  - Attribute requesters (AR): Make resquests to AS and process them, possibly using AE
  - Authorization engines (AE): Responds queries from AR applying their internal rules
- Impersonation is driven by profiles
  - Protocol aspects
  - Attributes and values
- An open WAYF interface would be desirable

The AA-RR results

- Simplify the development phase for new AA systems, APIs and components
  - Shorten *time-to-market* and the integration of new application domains
- Provide a testbed for new versions of standards
  - Prior to go to real production
  - An opportunity for commercial providers
- Ease the integration of different AA infrastructures (federations, virtual organizations ...)
  - Experiments in a controlled and cost-effective environment
- Constitute a reference on profiles and requirements for each infrastructure

The steps towards AA-RR

- **Define interoperable profiles**
  - SAML over SOAP/HTTP
  - SPOCP
- **Define the format for describing profiles and attribute requirements**
- **Implement the RR using openSAML and SPOCP**
  - Using the bindings selected in the first phase
- **Collect data about exisiting infrastructures**
  - And define the procedures for collecting these data in the future