Client Registration and AS Validation


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Open issues identification in ACE

1. AS Validation Problem
2. Client Registration Problem
AS Validation Problem

• RFC 9200, section 5.1 defines the unauthorized initial request step from C to AS.
• This provides AS URI to the C.
• However, there is no mechanism for the client to validate the AS.
AS Validation Problem

Client

Token request/response

AS

AS URI

Initial Resource Request

RS
Client Registration Problem

- RFC 9202, Section 3.1 defines the communication between C & AS.
- C expected to Register with AS before requesting AT.
- Keying material: manual conf or automated provisioning process.
- According to RFC 9200 (Section 4), this can be seen as Client Registration Process (bootstrapping, onboarding, or enrolling).
Use case

1. Delegation

2. AS information/resource request

3. Secure channel established
Possible solutions

• (1) AS Validation Problem – Solutions
  • Client asking the DO
  • Online lookup mechanism
  • Delegation of Access Rights
    • PoA based delegation – offline mode

• (2) Client Registration Problem – Solutions
  • Dynamic Client Registration
  • Delegation of Access Rights
    • PoA based delegation – offline mode
• Draft: "ace-poa-based-device-reg"

• https://datatracker.ietf.org/doc/draft-vattaparambil-ace-wg-poa-device-reg/00/

• Review and comments from WG

• Thank you! More questions?
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