RPP – Secure Delegation Management

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Motivation

R9.4 RPP MUST include an authorisation model/framework that goes beyond the EPP AuthInfo used for object transfers. The following use cases MAY be supported:

- **Registrants using OpenID Connect can interactively allow DNS Operator to update their NS records, directly in the Registry database or indirectly using a registrar.**

Goals

- Design a secure AND user friendly mechanism for allowing a DNS-operator to update delegation information in the registry directly (NS,DNSSEC)
- The DNS-operator requires no previous knowledge or relationship with the registrar managing the domain
- DNS-operator only needs agreement with the registry
- Proof of update authorization is cryptographically signed
- The authorization can be revoked at any time by the domain owner
- Registrar is notified of delegation updates
- Demonstrate how RPP addresses limitations in existing solutions
- Based on OAuth 2.0

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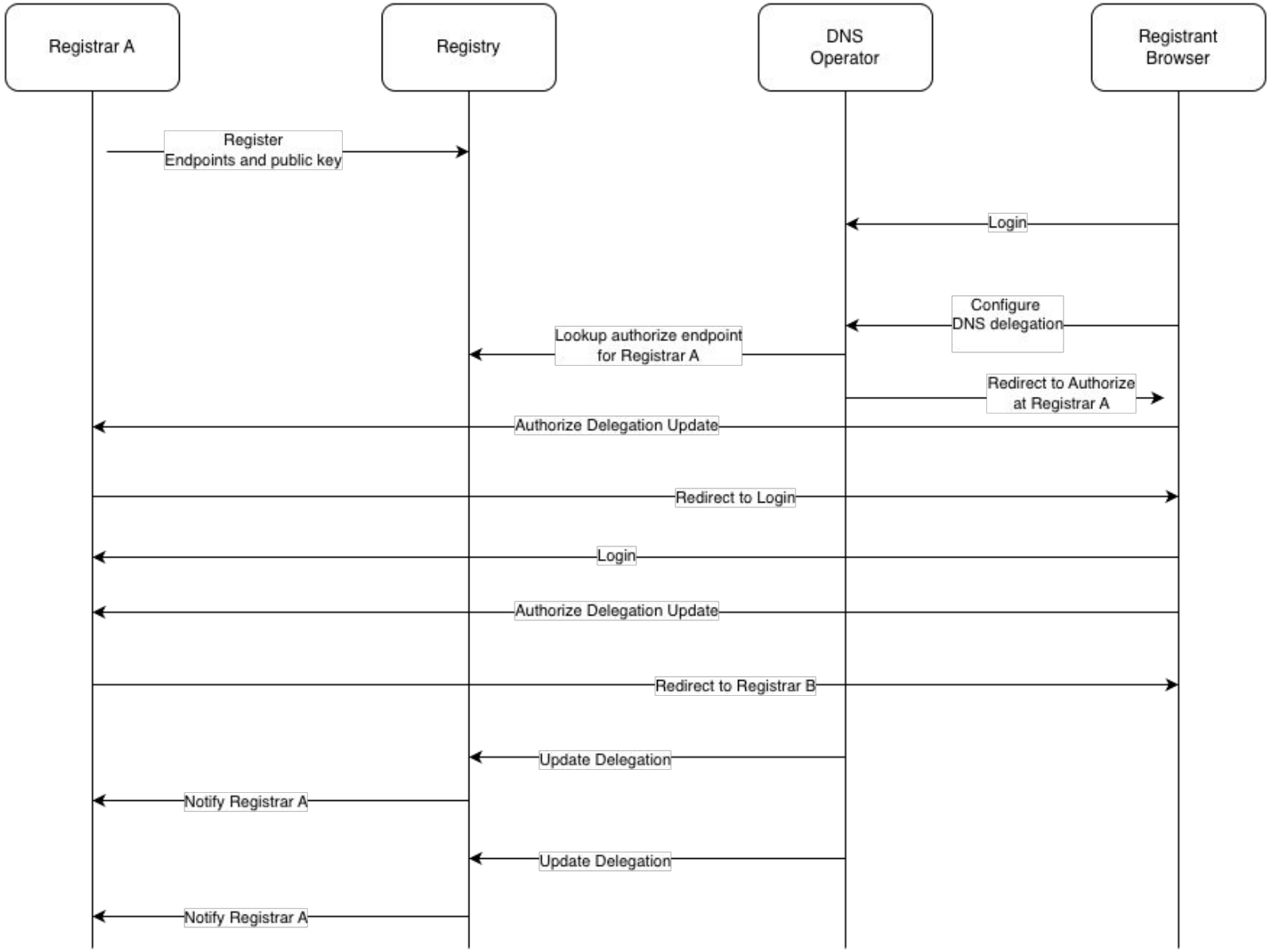
Overview



https://datatracker.ietf.org/doc/html/draft-wullink-rpp-oauth2-delegation-00

Observations

- Secure Delegation Management does not require OAuth 2.0, rewrite the draft to remove the OAuth 2.0 dependency
- A more general “authorization” mechanism, as part of the RPP Core, could be a solution for allowing secure 3rd party access to objects in the registry

Thank You

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