EPP RESTful Transport

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Is there a problem?

RFC5730: “The original motivation for this protocol was to provide a standard Internet domain name registration protocol”

Why are registries developing incompatible provisioning APIs?

- CIRA (.ca, .nz, .ie, .nl)
- Afnic (.fr)
- Nask (.pl)
- Registro.it (.it)
- Estonian Internet Foundation (.ee)
- ...
Registry Motivation

• Operational challenges when deploying EPP over TCP in modern (cloud) environments
  • Load balancing
  • Rate limiting
  • Identity and Access Management (IAM)

• Registrars are requesting modern APIs based on web standards
  • Simplifies development of registrar-registry integration
  • REST is the defacto standard for API development
Previous Work

• RESTful interface for the Extensible Provisioning Protocol, 2012 [1]
  • HTTP(s) Transport
  • EPP command mapping to REST endpoint
  • Standard EPP XML messages + EPP extension

  • HTTP(s) Transport
  • Standard EPP XML messages

1 https://datatracker.ietf.org/doc/draft-wullink-restful-epp/
Proposed New Work

Create a new standard for EPP over RESTful transport
• Mapping EPP objects to REST endpoints
• HTTP session management
• Optional mapping of XML schema to JSON?
• HTTP/3 multiplexing?

In the CENTR\[1\] community there exists widespread support for this work.

Discussion

The question for this working group

- Is something we should spend time on?
- If so, who would like join and participate?
Thank You

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