

Hackathon – RPP

IETF 126

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RESTful Provisioning Protocol (RPP)

Domain name management between domain name registries and registrars.

Results

Working code:

- Prototype registry and registrar API, supporting secure RPP domain transfer using OAuth 2.0
- Worked on implementation of RPP specs @ Nominet
- Good discussions about RPP deployment

Secure Domain Transfer - Example

Transfer domain coyote.example in dummy registry



ACME - Registry

A simple domain name registry

New domain name

Domain name

Sponsoring registrar

Registrant

[Register](#)

Registered Domain names

[Refresh](#)

DOMAIN NAME	REGISTRAR	REGISTRANT	LAST UPDATED
coyote1.example	Registrar A	user1	19-7-2026, 10:16:02
coyote2.example	Registrar A	user1	19-7-2026, 10:16:02
coyote3.example	Registrar A	user1	19-7-2026, 10:16:02
roadrunner1.example	Registrar B	user2	19-7-2026, 10:16:02

Secure Domain Transfer

Request transfer in portal gaining registrar B

Registrar B Portal

Transfer a domain

Transfer a domain away from its current registrar to Registrar B. You'll be redirected to sign in with the domain's current (losing) registrar to authorize the transfer - no transfer token needed.

Domain

coyote1.example

Start transfer

Secure Domain Transfer

Redirected to portal of losing registrar A

- Approve transfer (no token needed)

Logged in as User 1

Sign out

Registrar A Portal

Approve domain transfer

Registrar B wants to transfer **coyote1.example** away from Registrar A. Only approve this if you requested the transfer yourself.

Approve transfer

Cancel transfer

Secure Domain Transfer

Redirected back to registrar B portal

- Transfer completed

Logged in as User 2

Sign out

Registrar B Portal

Transfer a domain

Transfer a domain away from its current registrar to Registrar B. You'll be redirected to sign in with the domain's current (losing) registrar to authorize the transfer - no transfer token needed.

Domain

e.g. example.org

Start transfer

Transfer complete: coyote1.example is now sponsored by Registrar B.

Your domains

Refresh

Domains sponsored by Registrar B. Reveal a domain's transfer token to share it with whoever wants to pull it away.

coyote1.example

Reveal token

Sponsoring registrar: Registrar B

Updated 19-7-2026, 10:12:40

roadrunner1.example

Reveal token

Sponsoring registrar: Registrar B

Updated 19-7-2026, 10:08:47

Future Work

Update RPP specification(s) based on what we learned this weekend

Code Repositories

Secure Transfer: <https://github.com/SIDN/ietf126-rpp-hackathon>

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Thank You

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