



RPP – Core

Maarten Wullink - SIDN Labs

Pawel Kowalik - DENIC

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Updates – Version -00



- Adopted as WG document
- Added Organisation and User endpoints
- Created rules for mapping a data object to an URL endpoint
- Described full and partial operations

Relationship to EPP



Added “Mapping to EPP” section to explicitly clarify:

- RPP is not dependent on EPP and does not require an EPP server
- Any RPP elements with similar EPP counterpart must not use a “EPP” prefix or postfix
- Mapping of RPP to EPP is described in separate RFC

Organizations and Users



Added Organization model based on RFC8544

- Extended with User object to allow multiple user accounts per org
- User can be mapped to authorization mechanism used by server (e.g. OAuth 2.0)

We propose to model the registry to also use the organization type, as a natural way to enable multitenancy.

Endpoint Mapping Rules



Created set of rules used to map data objects to URL endpoints and HTTP methods

1. Data Object identifier -> Collection path segment. (e.g. /domainNames)
2. Uniform interface operation -> HTTP method
3. Direct access to sub-resources -> Collection path segment (e.g. processes -> /domainNames/test.example/processes/transferProcesses)
4. Process uniform interface operation -> HTTP method
5. Extended process operation -> always POST method
6. Process listing -> GET all processes collection or per process type collection (e.g. /collection/<id>/processes and /collection/<id>/processes/transferProcesses)

Updates: Full and Partial



For updating the “update” operation is mapped to:

PUT: Complete replacement of a resource, the message body must contain a valid new representation

PATCH: Partial replacement of a resource, message body, must have valid updates for 1 or more specific properties

New Process Link Relation



A uniform (CRUD) operation, may create a new process.

For example, as a result of starting a Transfer:

- A Transfer Process is created, having it's own identifier.
- The response of the Create Transfer request includes additional Link headers with the **rpp-process** relation type (IANA)

Example

```
Link: <https://rpp.example/rpp/v1/domainNames/foo.example/processes/createProcesses/latest>;  
rel="rpp-process" process="createProcess"; processId="XYZ-12345";
```

Next steps



- Process all feedback received
- Map data object elements to HTTP request parameters
- Ensure the core is compliant with the requirements of the HTTP Directorate
- Remove the option for using a header for signaling profile (use media type)

Example of using Media Type for signaling RPP-profile

Accept: application/rpp+json; profile="urn:ietf:params:rpp:profile:example-profile"; version="1.0"



Thank You

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