



EPP Extensions analysis CENTR Survey results

IETF 122 Bangkok, Mar 2025

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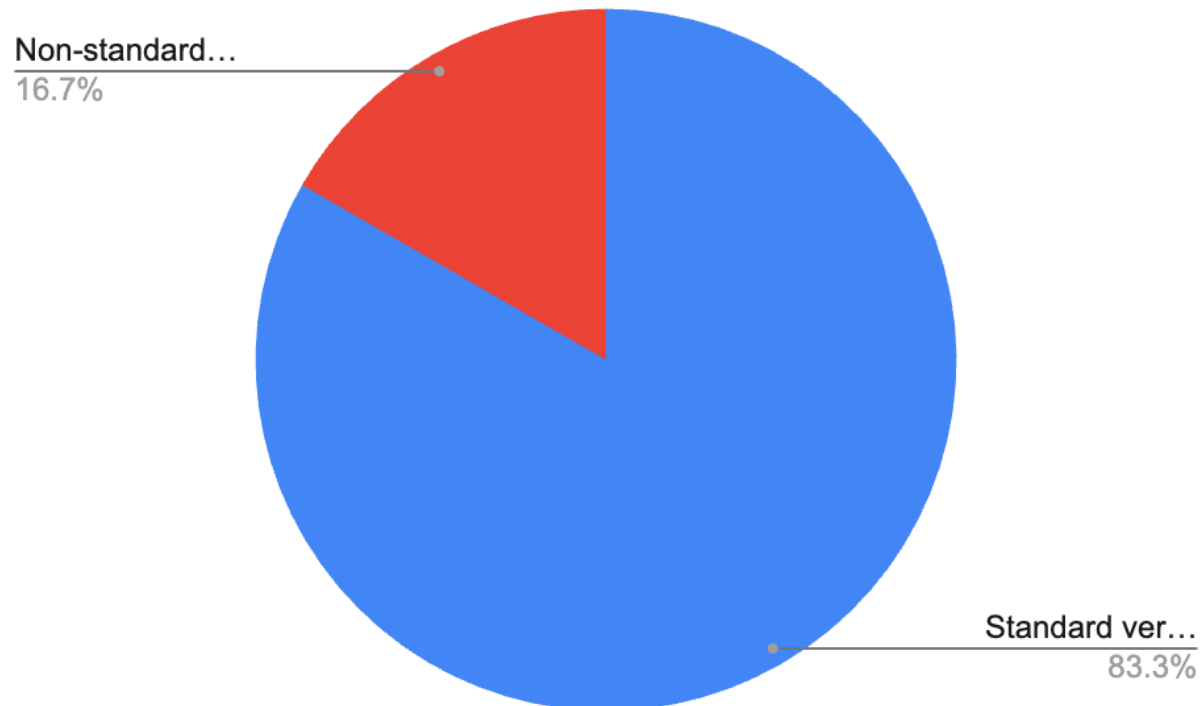
RPP Charter

- In the version [00-01](#) there was a task defined:
 - ”The RPP WG also considers **functional equivalents of registered EPP extensions**, either through similar RPP extensions or incorporating them into the core of the protocol.”
 - “**Analysis of the functionality** included and commonly used in core EPP for domain names, hosts and contacts (RFC5730, 5731, 5732, and 5733) is developed to support the deliverables.”
- This is all gone in the actual charter [00-02](#), but still relevant

CENTR Survey

- 25.11.24 – 10.1.2025
- Invited: CENTR, APTLD, AFTLD, LACTLD, IETF WGs
- 40 responses, mostly ccTLDs

4. Do you use the standard version of EPP, or have you implemented custom developments?



Standard version following IETF specification [STD 69] (includes Standard EPP extensions or custom extensions compliant with STD 69)

Non-standard extensions

- Some small updates were made directly into data structures - we removed some fields from contact object and added some new [...]
- Trade procedure
- Separate registrant and tech. contact objects.
- contacts have national registry id, person marking
- contacts have pre active statuses, for verification
- host nor contact transfers
- ID field is optional in the create contact command
- The registrant field is required when creating a domain
- The authInfo field has been made optional
- A stricter hostname type has been introduced to enforce the maximum hostname length
- Use of "inactive" status flag to mark domains as "reserved" (not delegated).

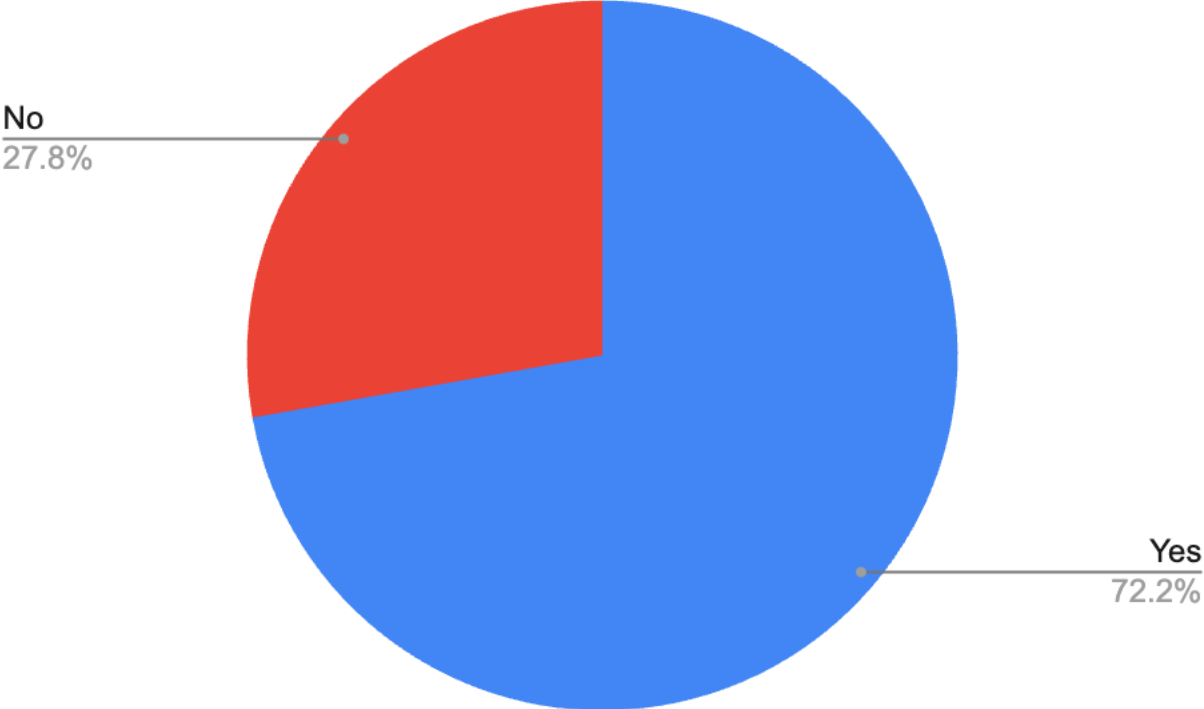
7. Do you support any of the standard EPP extensions?

Value	Percent
Domain Name System (DNS) Security Extensions Mapping for the Extensible Provisioning Protocol (EPP) [RFC5910]	80.6%
Domain Registry Grace Period Mapping for the Extensible Provisioning Protocol (EPP) [RFC3915]	38.9%
Launch Phase Mapping for the Extensible Provisioning Protocol (EPP) [RFC8334]	19.4%
Registry Fee Extension for the Extensible Provisioning Protocol (EPP) [RFC8748]	19.4%

The rest of IANA-listed general purpose extensions below 10% usage (3 responses)



8. Do you support any registry-specific EPP extensions?



Registry specific “standard” extensions

- checking if executing procedure (e.g. transfer) would succeed, without actually executing it
- fee:balance element from RFC8748
- extension to distinguish between private person/organization in contacts
- contact has a type by definition (e.g., billing contact, technical contact, etc.)
- a contact has attributes: language, natural person flag, WHOIS email, VAT, country of citizenship.
- e-ID extension

11. What, if any, functionality do you feel is missing in EPP?

Listing/search/history/bulk:

- Listing objects (e.g. get list of all registrar domains)
- Domain History
- Search capability
- Native support for bulk operations across all command types

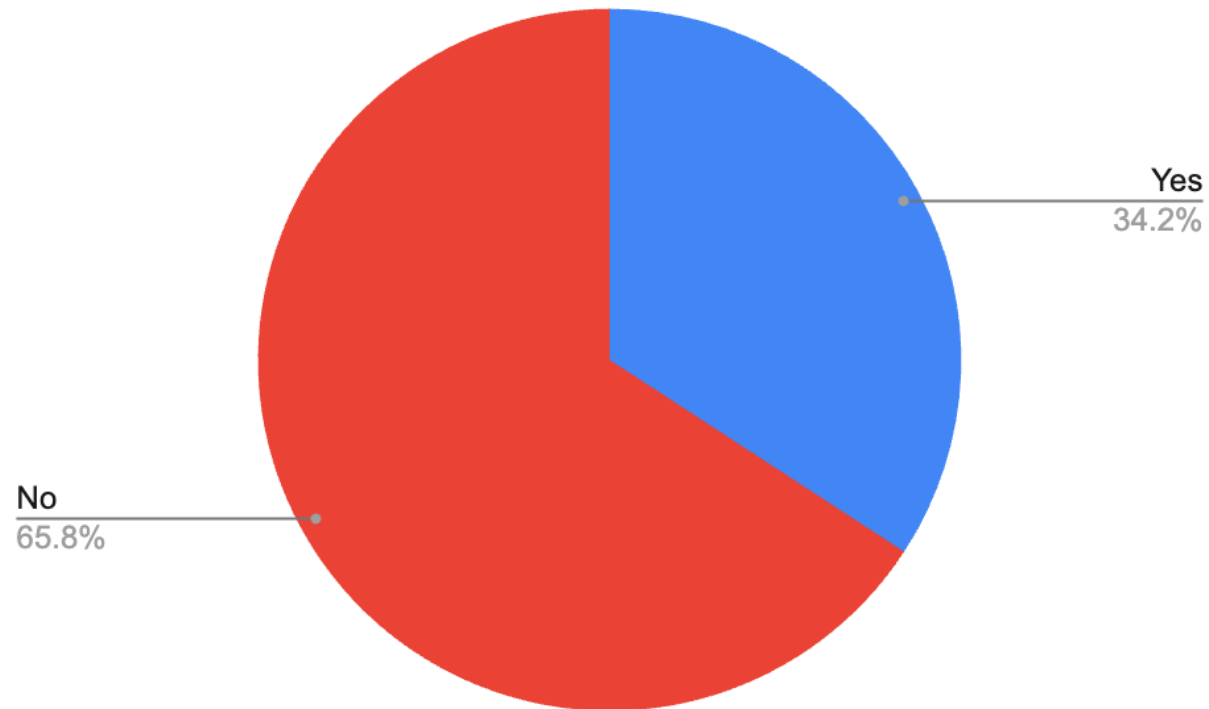
Data model:

- Multiple (equal) holder
- Multiple email addresses
- Additional fields: types of entities (person/org), VAT number, Enterprise ID, Legal Entity Identifier (LEI), and organization type

Security:

- Domain Authcode Validation
- One-time transfer token
- Multiple login users/roles per registrar
- Additional layer of authentication on top of the username and password, Multi-Factor Authentication (MFA)

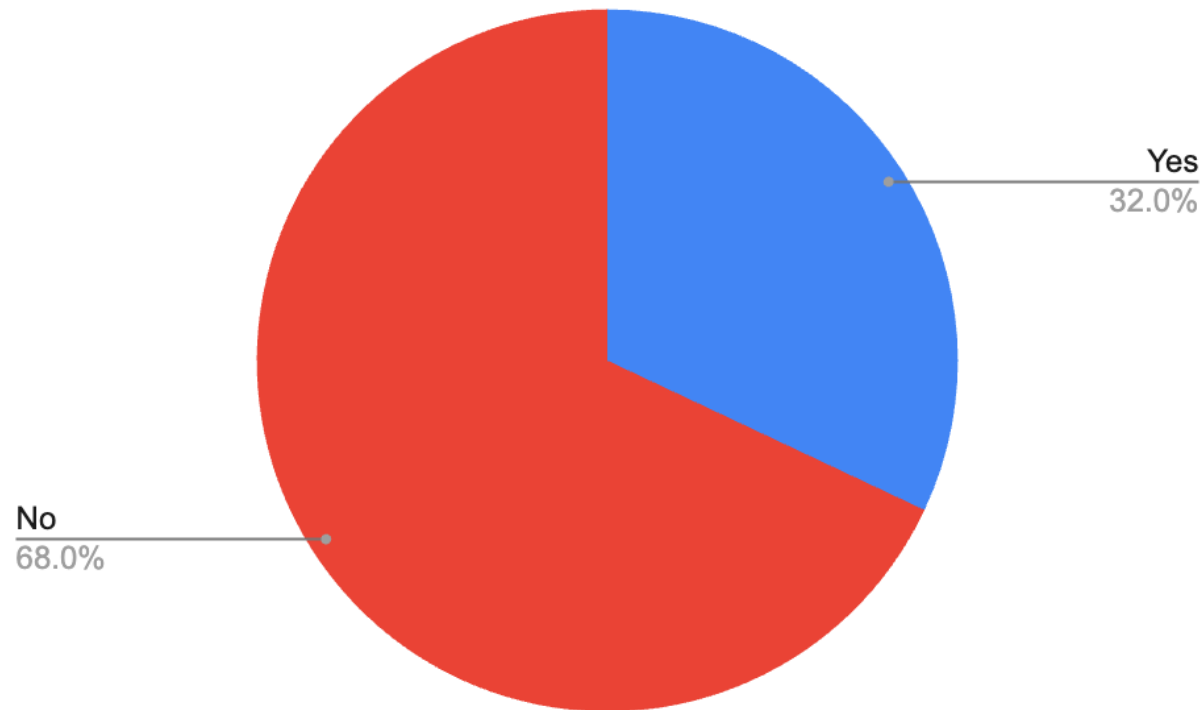
12. Do you use other provisioning protocols or APIs for domain names aside from EPP?



13. Describe the other protocols or APIs you use

- Availability API Droplist API
- rest-API [...] to fetch different types of lists.
- SOAP
- RRP
- ...

14. Have you considered implementing an alternative to EPP?



%-values from answer "No" in question 12

15. Reasons why you are considering implementing an alternative to EPP:

- We are testing mapping from EPP to REST [...]
- xml free (xml is hard to do right and secure), http+json based (what our resellers want), no long lived connections (also what our resellers want)
- We are considering to add a REST interface to complement the EPP
- EPP over REST
- HTTP [...] we would only consider transitioning if a globally recognized standard is designed and proposed for widespread adoption

16. Reasons why you are not considering implementing an alternative to EPP:

- There is no standardized alternative.
- EPP is widely adopted by our registrars. Should a suitable alternative emerge, we will certainly investigate it
- No widely adopted alternative to EPP
- Although EPP has some limitations, we have been able to work around these

Conclusions

- 2 extensions are very widely used: DNSSEC and RGP
- 2 runner-up: launch phase and fee under 20% -> this is likely ccTLD bias
- Most common extension needs was adding fields to contacts, adding/removing optionality of properties, adding statuses
 - Quite many registries added semantically same properties in private extensions
- Missing “extension points” in EPP: other nameserver designation than hostObject/hostAttribute
- A number of ”missing features” were achieved by others with EPP extensions

Thank you

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