

RDAP Search Capabilities

Current RDAP Search Capabilities – RFC 7482

- Section 4.1: partial string searching uses the asterisk character to match zero or more [mid or] trailing characters
- Section 4.2 seems to imply that multiple query-matching parameters have an implicit “OR” join

New Requirements for gTLDs – Temp Spec

- **Where permitted, offer searchability over Web-Whois and RDAP**
- Search results will include domain names matching the search criteria
- Exact-match capabilities, at least, on the following fields: Registrar ID, name server name, and name server's IP address (glue)
- Partial match capabilities, at least, on the following fields: domain name, contacts and registrant's name, and contact and registrant's postal address, including all the sub-fields described in EPP (e.g., street, city, state or province, etc.)
- Boolean search capabilities supporting, at least, the following logical operators to join a set of search criteria: AND, OR, NOT

Potential Search Improvements

- Partial match supporting leading “wildcard”
- Support for multiple occurrences of the “wildcard”
- Support for logical operators “AND”, “OR”, “NOT” to join a set of search criteria at client request
- Explicitly specify the search-pattern parameters to be used with each object type search
- Internationalization improvements?

Privacy Requirements

- (1) ensure such search capability is in compliance with applicable privacy laws or policies;
- (2) only permit searches on data otherwise available to the querying user, based on whether the user only has access to data publicly available in RDDS or whether the user has access to non-public Registration Data;
- (3) only provide results otherwise available to the querying user based on whether the user only has access to data publicly available in RDDS or whether the user has access to non- public Registration Data; and
- (4) ensure such search capability is otherwise consistent with the requirements of the “Temporary Specification” regarding access to public and non-public Registration Data