RDAP Implementation

Francisco Arias | ROW#4 | 3 April 2016
ICANN gTLD RDAP Profile

RDAP RFCs:
- SHOULDs, MAYs, MUSTs
- Do not specify required elements

ICANN gTLD policies

RDDS provisions in the RA, RAA 2013, Whois advisory

gTLD RDAP profile

Clear Requirements

gTLD RDAP service

Second draft of gTLD RDAP profile posted for comment (3 Dec 2015 – 18 Mar 2016)
JPRS found a typo in the numbering of the new fields.

- **Proposed update:**
  [Fix the typo in the numbering of the fields]
JPRS suggested clarifying TLSA support is not a requirement for clients and what is a requirement for servers.

- Proposed update:

1.3.3. A client **must** be able to successfully validate the TLS certificate used for the RDAP service with a TLSA record (RFC 6698 and RFC 7671) from the DNS published by the RDAP service provider. The Certificate Usage field of the TLSA record MUST have a value of 1 or 3.
Contact ROID

JPRS requested clarification on what to show when the contact ROID is not available to registrars (e.g., thin registries) since the profile seems to change what the advisory says.

- **No proposed update:**

  Keep what the draft profile already says, i.e., the client id (from the registrar) must be used.
JPRS suggested adding requirement-level words for the "last changed" event.

- Proposed update:

3.1.5. The `eventAction` type `last changed` **MUST** reflect the date and time of the latest successful update known to the Registrar. Registrars are not required to constantly refresh this date from the Registry.
JPRS suggested clarifying as to which fields have the requirement to preserve case.

**Proposed update:**

1.4.3. The case (i.e. uppercase and lowercase) of the data returned in RDAP responses **SHOULD** preserve the case received via EPP.
Mixing A- and U-labels

RySG and Neustar suggested that the profile should not require RDAP servers to accept IDNs in queries that come as mixture of A-labels and U-labels.

- **No proposed update**: The “SHOULD NOT” in RFC 7482 appears to be referring to clients. For servers there is a “MAY” later on: “An RDAP server that receives a query string with a mixture of A-labels and U-labels MAY convert all the U-labels to A-labels …”, which allows the profile’s tighter requirement for a given implementation.

- **Postel’s law**: Be conservative in what you send, be liberal in what you accept.
Engage with ICANN

Thank You and Questions
Reach us at: globalSupport@icann.org
Website: icann.org

twitter.com/icann
gplus.to/icann
facebook.com/icannorg
weibo.com/ICANNorg
linkedin.com/company/icann
flickr.com/photos/icann
youtube.com/user/icannnews
slideshare.net/icannpresentations