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Second year of RDAP in .CZ

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Agenda

- Development
- Conformance testing tools
- RFC doubts
- IANA registrations
- RDAP clients tested
- Future



Development – first version

- Deployed in December 2014
- Python, Django, Django-rest-framework
- Based on drafts
- Only queries, no searches
- Registrar as entity issue
- Details in presentation from ROW #3 - <http://regiops.net/>



Development – recent changes

- New version released in March 2016 as part of FRED software and published at <https://fred.nic.cz>
- Updated according final RFCs
- Status mapping prepared for <https://tools.ietf.org/html/draft-gould-epp-rdap-status-mapping-00>
- Extension prefix renamed from `cznic_` to `fred_`
- Tested according existing conformance tools



Conformance testing tools

- Viagenie conformance tests
 - Send email to support@viagenie.ca
 - Fill received request form
 - Use received access to <http://rdap.viagenie.ca/>
- APNIC conformance tests
 - Clone <https://github.com/APNIC-net/rdap-conformance>
 - Fill configuration file and run



RFC doubts – 404 or 400

- There are quite a few situations where it's unclear whether return 404 or 400
 - IDN domain if IDN is not supported
 - TLD that is out of scope
- Tested RDAP servers behave differently



RFC doubts – expiration date

- Is expiration correctly defined in spec?
 - RDAP - The object instance has been removed or will be removed at a predetermined date and time from the registry.
 - EPP - <domain:exDate> element that contains the date and time identifying the end of the domain object's registration period.
- Could it be a date only?



RFC doubts – mandatory fields

- What fields are mandatory in each structure?
- RFC has example of minimal nameserver but not other objects



IANA registries

- RDAP extensions + RDAP JSON Values
 - Extension specification at <https://fred.nic.cz/rdap-extension/>
 - Application via <https://www.iana.org/form/protocol-assignment>
 - Adding prefix “fred” for our software specific extensions
 - Adding new event action for ENUM domains
 - Submitted 18.3 -> Completed 30.3



IANA registries

- RDAP Bootstrap registry for DNS
 - Available via <https://rzm.iana.org>
 - Process smooth:
 - Request was first received: Thursday, 17 March 2016 16:21:54 UTC
 - All contact confirmations were received: Thu Mar 17 16:28:04 UTC 2016
 - The request was sent for USDOC/VRSN implementation: Mon Mar 21 19:18:49 UTC 2016
 - The request was completed by ICANN on: Tue Mar 22 14:54:50 UTC 2016
 - Small glitches resolved



RDAP clients tested

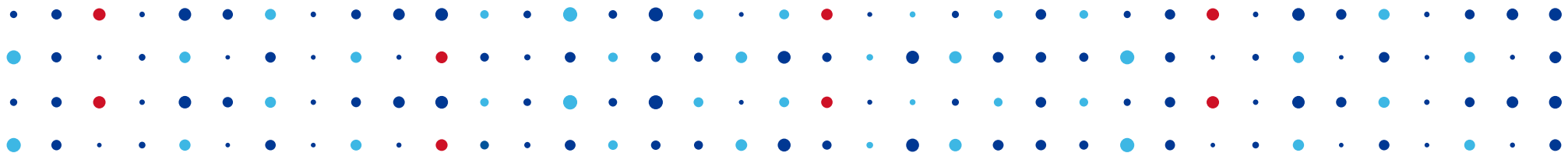
- ARIN - Ruby - <https://github.com/arineng/nicinfo>
- ARIN – JS - https://github.com/arineng/rdap_webspa
- CentralNic - Perl - <https://github.com/jodrell/rdapper>
- Registro.br - Go - <https://github.com/registrobr/rdap-client>
- DNSBelgium - Java - <https://github.com/DNSBelgium/rdap>
- CNNIC - Java - <https://github.com/cnnic/rdap>
- Metareg. - PHP - <https://github.com/metaregistrar/rdap-client>



Future

- Fix problem with registrars
- Provide all status values
- Implement authentication
- Implement searches
- Maybe work on prototype of full RESTful service via POST/PUT/PATCH/DELETE http methods





Thank You

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