

Registry Tools

Advanced ccTLD Workshop

September 2008
Amsterdam, Netherlands



Tools

There are quite a few tools available, but many of them require work to use.

Several allow you to build from them as a base (tinyReg, OpenReg, DNRS, etc...)

All the tools we present, except for the Registro.br software, are Open Source licensed.

Difference between GPL and BSD License...

Tools: The List

- **CoCCA:** Consortium
Council of Country Code Administrators
- **CodevNIC** .fr project
Co-developed NIC
- **DNRS** .nz
Domain Name Registry System
- **FRED** .CZ
Free Registry for ENUM and Domains

Tools: The List

- Net::DRI Perl modules
Domain name Registry Interface
- OpenReg ISC project
- Registro .br
- tinyReg formally “domreg”

Short Glossary

- EPP Extensible Provisioning Protocol
- RRP Registry Registrar Protocol
- SRS Shared Registry System

URLs:

- <http://sourceforge.net/projects/epp-rtk>
- <http://tools.ietf.org/html/draft-nzrs-srs-00>

Tools: CoCCA

Homepage

<http://www.cocca.org.au/modules/smartsection/>

Demo Site

<https://demo.coccaregistry.net/>

- You can run software remotely.
- You can run software on local box with or w/o help.
- You can run remotely and have CoCCA administer your domain.
- Supports EPP

Domain Tasting

A short article discussing this:

http://www.circleid.com/posts/84217_icann_gnso_kill_domain_tasting/

Follow the links, including:

<http://gnso.icann.org/issues/domain-tasting/dnt-motion-6mar08.shtml>

A discussion of Front Running

http://www.circleid.com/posts/81082_network_solutions_front_running/

Tools: CodevNIC

- Available and documented here:
 - <http://codev-nic.generic-nic.net/>
- Developed with AFNIC (.fr), NIC-MG (Madagascar) and NIC-CI (Ivory Coast).
- Supports multiple policy models.
- Designed for smaller registries.
- Running in .ci now, .mg later?
- Utilizes software like request tracker (rt).

Tools: DNRS

Web: <http://sourceforge.net/projects/dnrs/>

“The Shared Registry System is software (client and servers) for managing a domain name registry, and is most likely to be of use for managing a country TLD. The software was originally developed in 2002 to manage the New Zealand (.nz) domain name space.”

- Is what manages <http://nzrs.net.nz/>, or the New Zealand Registration Services.
- Designed for a single policy.
- Supports EPP but moving to SRS

Tools: DNRS

- .nz's discussion of SRS:

<http://www.nzrs.net.nz/downloads/draft-nzrs-srs-00.txt>

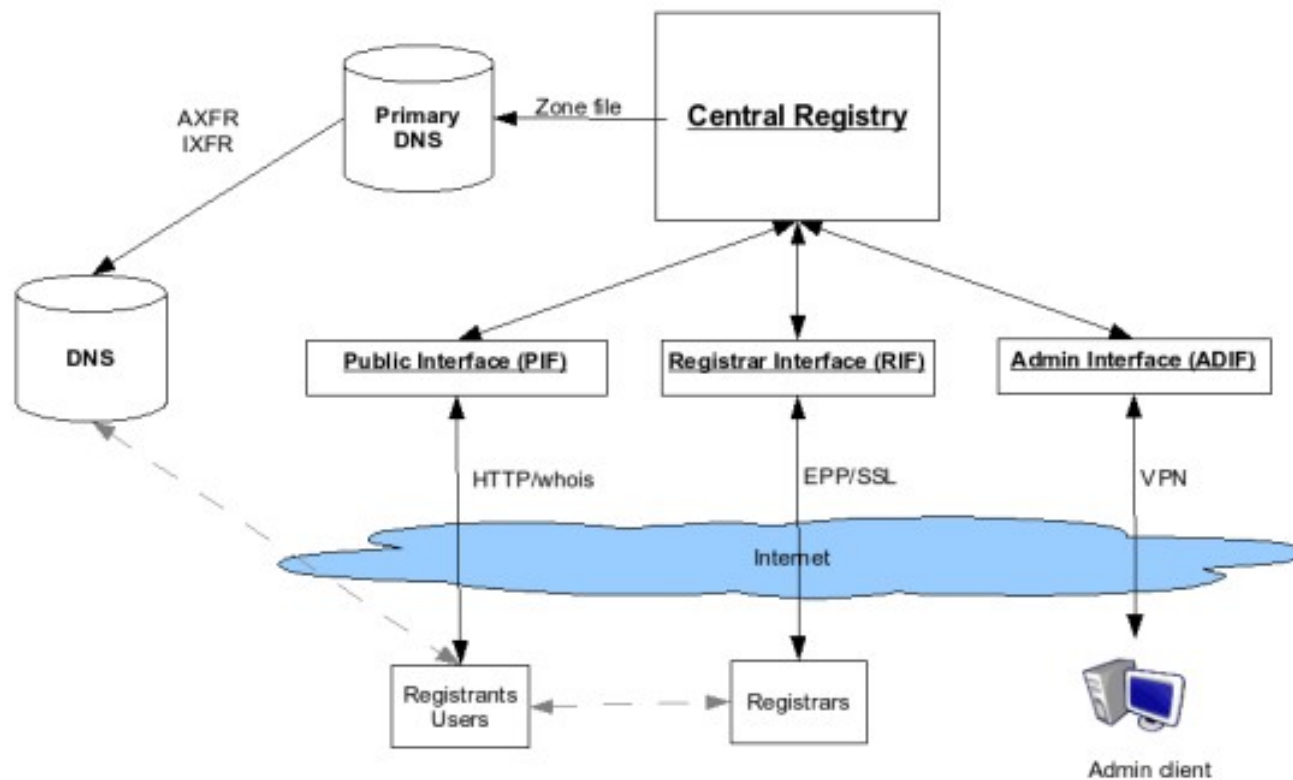
- Robust. Manages over 300,000 domains.
- Contact *nsrc@nsrc.org* if you want to talk with the developers.
- Project has become more active this year. New release (2.0) in February.
- Give '# whois nzrs.net.nz' a try.

Tools: FRED

- Available at <http://fred.nic.cz/>.
- Designed for Linux, but Jaap has ported current version to FreeBSD.
- Supports EPP and Ipv6.
- Demo CD is available here:
<http://fred.nic.cz/wiki/download>

Tools: FRED cont.

From <http://fred.nic.cz/wiki/features>:



Tools: Net::DRI

- From <http://www.dotandco.com/services/software/Net-DRI/>
- Pretty easy to install, but you need to install listed Perl modules as standalone first. Preferable to use CPAN.
- Implements DNSSEC, EPP, RRP, Whois, etc.
- Is the core, or back-end tool used for front-end results like web pages.

Tools: OpenReg

- Located at: <http://www.isc.org/index.pl?/sw/openreg/>
- Supports EPP.
- Does polling and load statistics gathering.
- Was adopted for use by .ve in 2005.
- Uses PostgreSQL and multiple daemons on one box to run.
- Generates zone files for use with BIND.
- Can download, install and test quickly.

Tools: Registro

- This is what <http://registro.br/> uses.
- In use at .ke (<http://www.kenic.or.ke/>) (Still?)
- Not free and requires translation and consulting to move to your registry.
- Multi-registrar support.

Tools: tinyReg

From the author's description of the product:

The goal is a minimal but fully-functional, extremely robust, and exhaustively error-checked system using all open source components.

domreg requires an externally-provided RPSL-interfaced registry for each TLD.

domreg consists of three active components:

- domreg registrant (user) web interface code
- registrar registrar (manager) web interface code
- mailack RPSL/email interface

Tools: tinyReg

- Randy Bush (IJ), Tom Jennings (WPS) and CFI Uganda started domreg.
- NSRC paid and volunteered staff to push domreg further. This became tinyReg.
- Joe Abley (ISC), Tom Jennings, Alain Aina (TRSTech) and Hervey Allen (NSRC) worked on second phase.

Tools: tinyReg

- Available at: <http://nsrc.org/tinyReg/>
- A good description is here:
<http://nsrc.org/tinyReg/docs/extras/domreg-what.txt>
- Initial setup here:
<http://ws.edu.isoc.org/cgi-bin/tinyReg/tinyReg>
- Gives you core registry functionality, but code-base still needs work.

Registry Tools

Questions?