



Council of Country Code Administrators Limited

- Member Owned & Funded
- 20 ccTLD Members
- Variety of services provided to members
- Third option between “outsourcing” and “do all it yourself”

- Policy Development and Harmonization
- Ombudsman's Office, Expert Panelists
- Registrar Accreditation
- Joint Marketing, Merchant Facilities
- Application Specific Hosting
- Software Development

Forth Generation

- 1998-2000 RRP (thin registry .CC)
- 200-2001 - RRP + “bolt on” this database using Cold-Fusion to make it a “thick” registry.
- 2000 - 2003 Registry based on .AU RFP
- 2004 - 2008 - EPP Registry, EPP V1.0 & “mostly compatible with” EPP V2.0

Software

Development

- Written in New Zealand under contract to CoCCA new releases features added monthly.
- Made available as open source - this has been important to many in selecting a solution so members don't feel "locked in".
- All the development has been done by Aotea at a cost of roughly 250,000 to date.

Deployments / Options

- 10 currently ccTLDs hosted at the CoCCA NOC.
- 5 ccTLDs running locally (in - country)
- 5 ccTLDs migrating & will be run locally
- Deploy locally & escrow at the NOC or vice - versa (registry fail-over)
- 100 + Registrars connected, 20 by EPP

Registry Software

- PostgreSQL, Java and Resin
- ~100,000 active names but some history tables are over 4M records.
- Designed to be scaled, EPP Server and Registry Admin separate applications, you can run multiple EPP Servers in a load balanced environment.

- Once installed almost all administration is via a web-based GUI
- Registrars also access via the GUI and or EPP.
- Variety of security features, two factor tokens, IP access at application level etc.
- Generates “plain old bind” files on a schedule set via the GUI. Includes PowerDNS module but not for TLD.

- Profanity / Prohibited word layer at API level.
- Whois, White list / Black list, thresholds
- Support for IDN and ENUM
- “Tasting controls” (Flux Controls in 2.2)
- Any commercial model accommodated

Registrar Modules

- Registrars / Resellers can access the registry via the GUI.
- Registrars can also use the stand alone module as a public shopping cart.
- Registrar module can connect to multiple registries easily using EPP.

Closing Thoughts

- Having a reliable complaint register or database application is a small part of running a ccTLD.
- DNS (Anycast, IPSEC), hosting, fail-over registry redundancy are equally critical.
- CoCCA generally runs only one or two NS per TLD. Members use PCH and DYNTLD Anycast for redundancy.