Registro.br
cCTLD registry software

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Overview

• Domain name registration, publishing and administration system
• Web based
• Multi-lingual interface based on templates/user profile
• Hierarchical authentication model
Software Architecture

- Object Oriented - C++
- Database used only to properly maintain persistence of objects
- Extensive use of C++ frameworks
- Main platform - FreeBSD
Registration

• Based on tickets and queue processing (Frist Come First Served)
• Configured restrictions based on registration policies treated as ticket pendings (domain, DNS, documentation, payment, others)
• Daemon to process tickets queue
• Daemon to check DNS pendings
DNS publication / Whois

- Automatic DNS zone generation and consistency check
- On-line Whois
- ACLs
- Self tuning query rate Limits
DNS check

- Regular checks for delegation errors
- Status published on whois
- Reports to contacts on a regular basis
Backend / Billing

- Administrative interface with several access profile controls
- History of all objects modifications
- Billing system based on pendency model. Could be attached to any object in the system.
Availability

- Only for ccTLDs
- Free
- Training at the .BR NIC
- Documentation in English
- Email Support
Distribution and License Policy

• Full Source code
• Non-redistribution license