

# CoCCA Open Registry

APRICOT 2005 Kyoto Japan

Muhammad Aslam

<muhammad.aslam@nic.af>

# Definitions

---

- Registrant:
  - The organization or person responsible for a domain
- Registrar:
  - The middlemen who interact with registries on behalf of registrants
- Registry
  - The organization which maintains the register and publishes the zone
- Register
  - The data that is maintained by the registry

# Thin Registry vs Thick Registry

---

## ■ Thin

- Some shared-registry systems distribute much of the registry metadata to registrars, rather than maintaining it centrally
- Return minimal set of data, usually with a referral to a registrar's whois server

## ■ Thick

- Shared registry systems keep all the metadata central
- Return all the registry metadata from one place, in one query

# Registry Policy

---

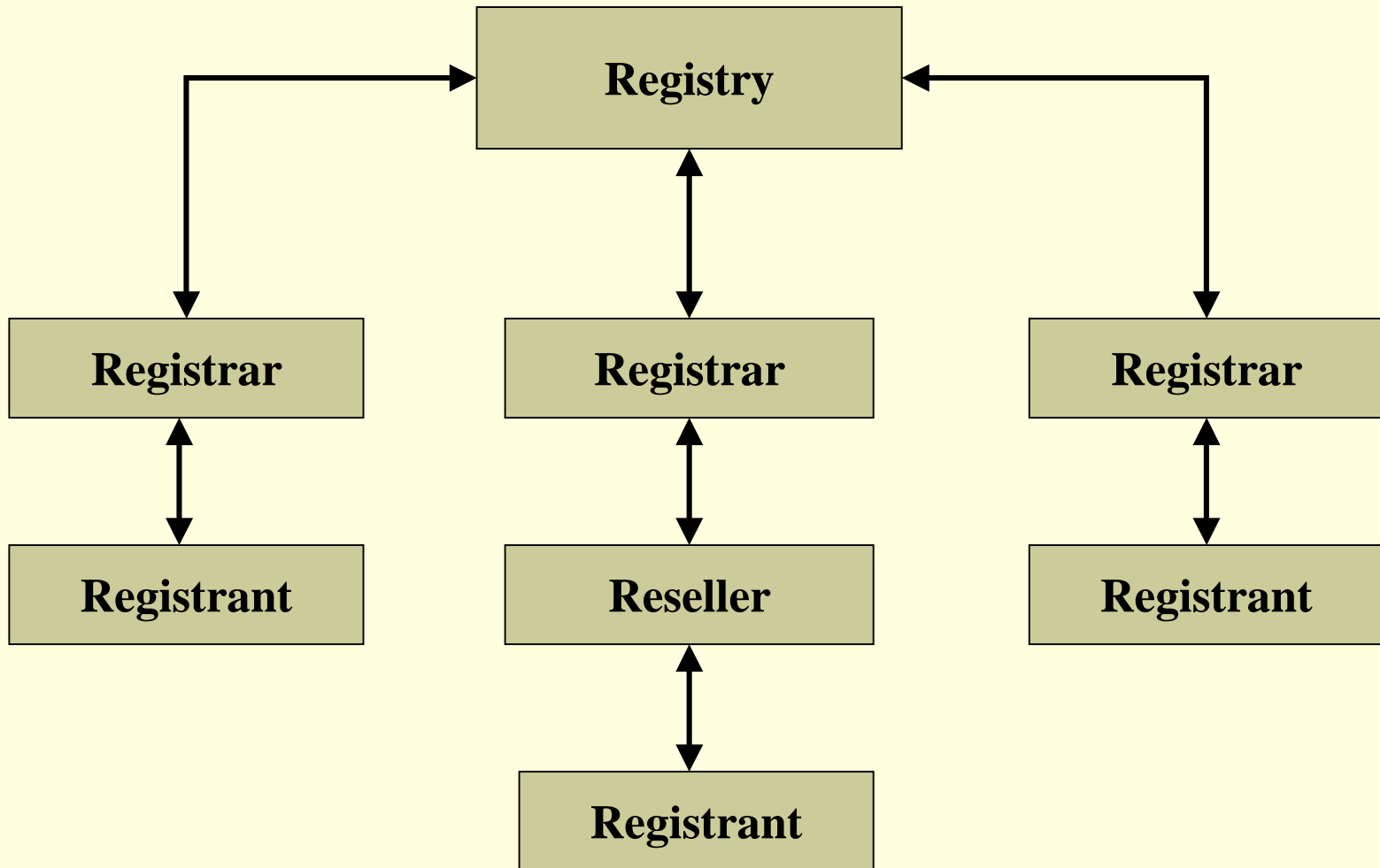
- Registries have different policies
  - Policies which effect the registration process
  - Policies which effect the basic structure of any registration
- Tuning of Registry Software
  - Registry software should be tuned to some extent so that it could be compatible with the applied registry polices

# CoCCA Open Registry

---

- Runs on
  - Windows, Linux, MacOSX & Solaris
  - Open source based
  - Fully featured registrar-registry components
  - Various value added features
    - Automatic pdf invoicing, customizable whois etc

# Shared Registry Model



# Components

---

- PostgreSQL database
  - <http://www.postgresql.org>
- Caucho Resin Application Server
  - <http://www.caucho.com>
- Java 1.4 or Better

# Features

---

- Automatic PDF invoicing
- Zone generator
- Customizable whois
- Domain transfer

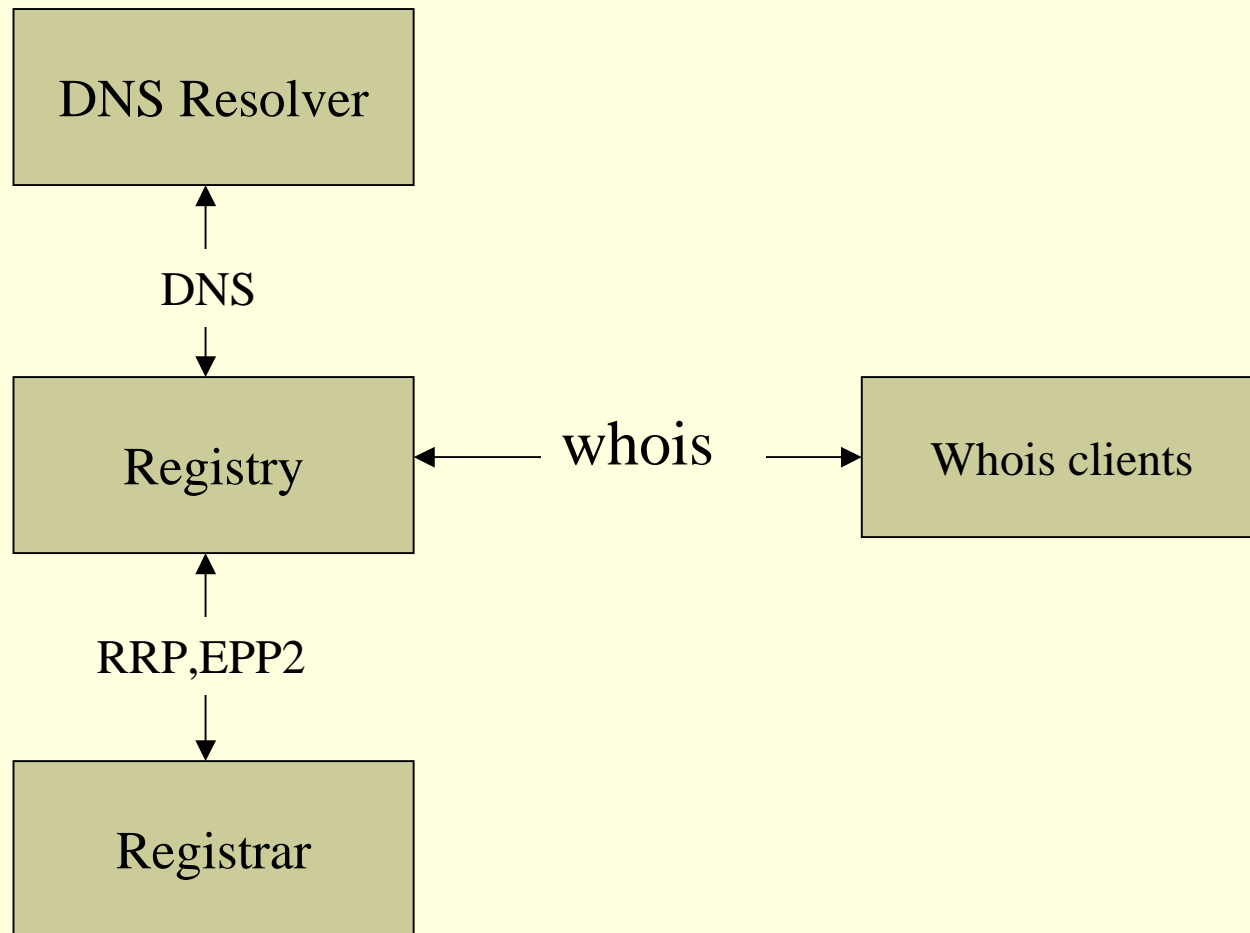


# whois

---

- Mechanism for retrieving metadata from registry
- RFC 954 (“nickname”)
  - No data format specified
  - Much of the specification describes a query/retrieval strategy that has never been implemented
- Every registry’s whois output looks different

# Contact with Registrars



# Reserved Names

---

- Restriction on what names can be registered
  - offensive names
  - Preventing cyber-squatting
  - Generic names
    - Names of places, famous personalities etc

# Renewals

---

- Automatic invoicing
- Multi-year renewals
- Bulk renewals

# Status

---

## ■ Some registries using

- .af
- .cx
- .dm
- .nf

## ■ In discussion to use

- .ly
- .la