



The TLD Specialists



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Managing a TLD Registry

Adrian Kinderis

CEO - AusRegistry International

ICANN no. 35, Sydney, Australia

22nd June 2009

AusRegistry International

- Located in Melbourne, Australia
 - Involved in Domain Name Industry since 1999
 - Regional office in Dubai, UAE (planned for 2009)
- Domain Name Registry Services
 - Registry Systems & Software Provider
 - Consultancy Services
- Adrian Kinderis – CEO
 - ICANN GNSO Councilor
 - Member of new gTLD Working Group

Major Registry Projects

- Australia
 - .au Registry Services since 2002, under contract until 2014
- Registry Software & Consultancy Services
 - United Arab Emirates
 - ccTLD - .ae
 - IDN ccTLD - امارات.

Managing a TLD Registry – Agenda

- What is a Registry?
- What does it take to set up a Registry?
- What does it take to manage a Registry?
- Budget considerations...
- Registry Software, buy vs. build?
- Challenges & opportunities...
- Q & A

What is a Registry?

- The terms that are used



What is a Registry?

Registry

A Registry is the authoritative database of all domain names

The 'Registry Operator' keeps the master database and generates the zone file

What is a Registry?

Registry Operator

The entity that enters into Registry Agreement with ICANN

Responsible for setting up and maintaining the Registry

What is a Registry?

Registry Services

The receipt
of data from
Registrars

Provide
Registrars
information
relating to
the zone
servers

Disseminate
TLD zone
files

Operation
of the
Registry
zone servers

What is a Registry?

Registry Services

Disseminate
domain name
server
registrations

Compliance with
consensus policy

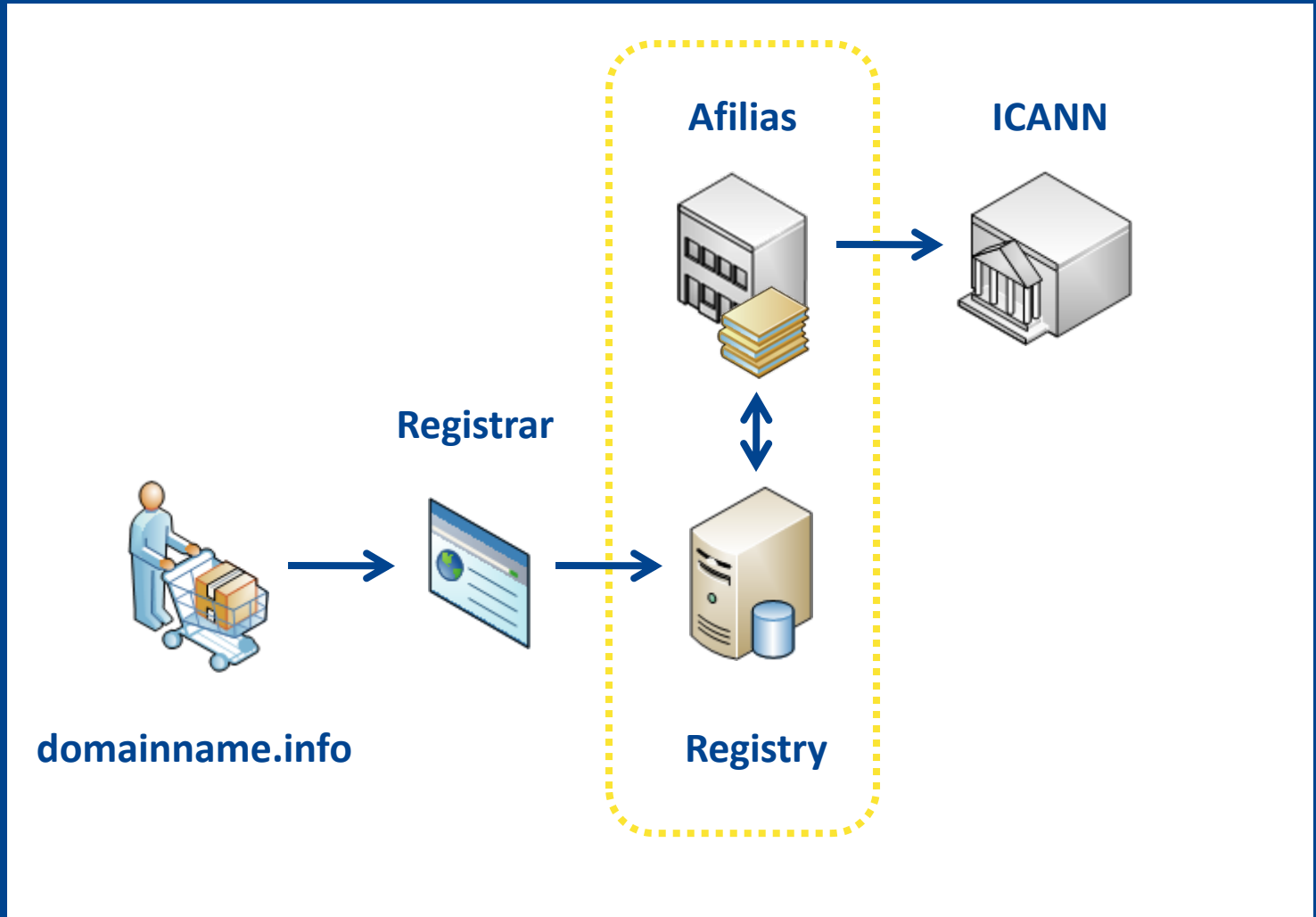
Products or
services that
only a Registry
Operator is
capable of
providing

What is a Registry?

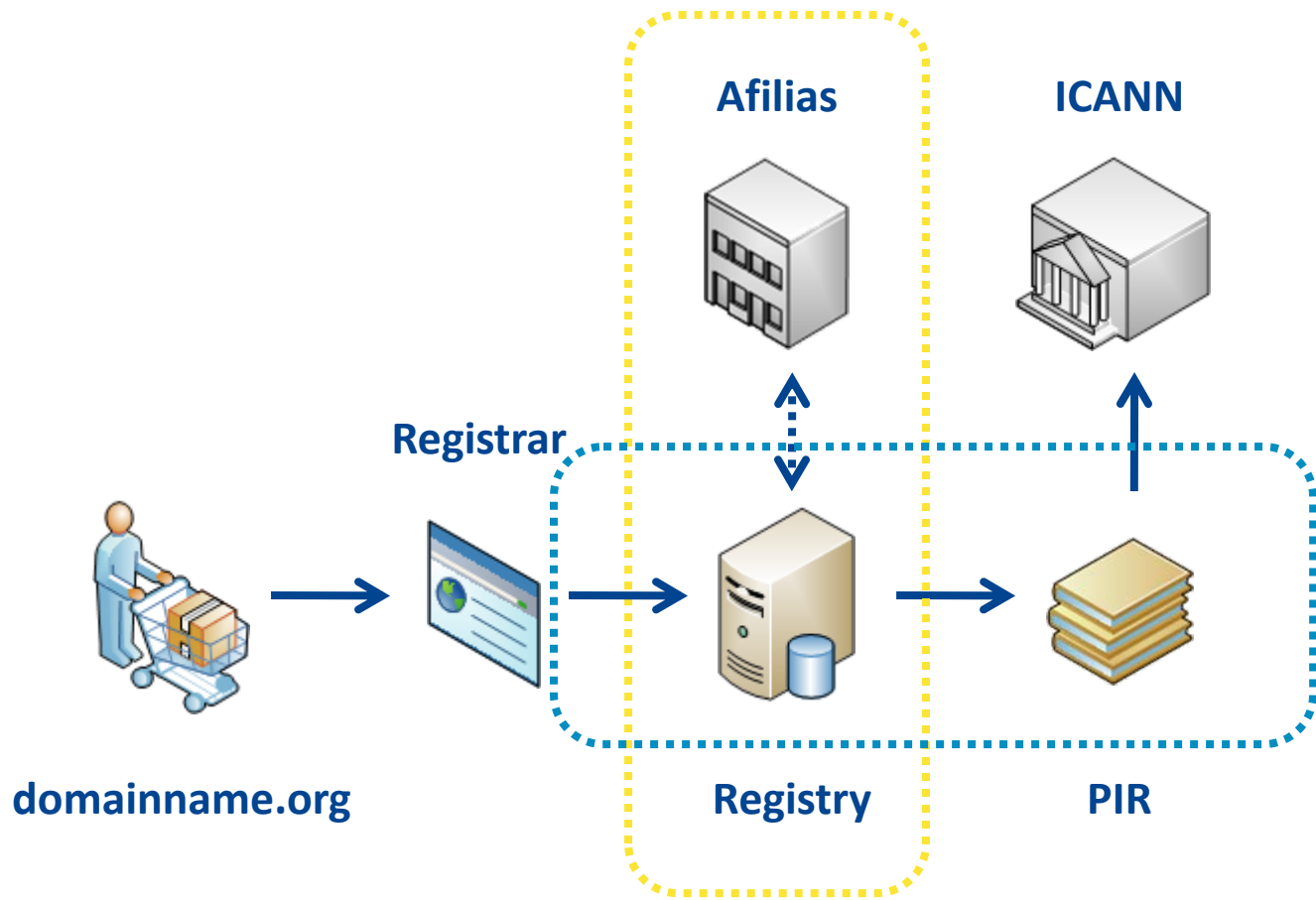
- The Technical Function of Managing the Registry



Some Registry Examples – .info



Some Registry Examples – .org



domainname.org

Afilias

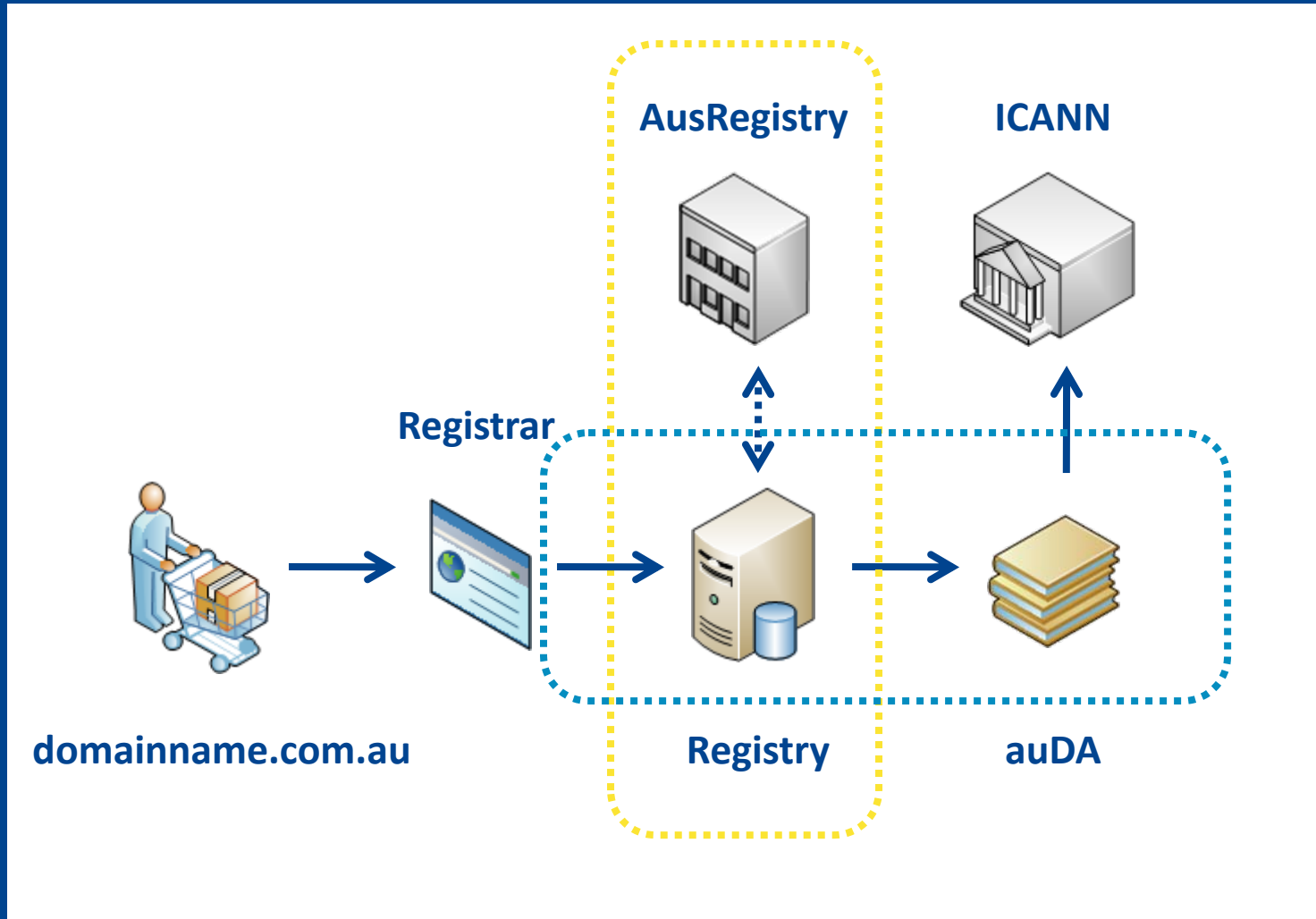
ICANN

Registrar

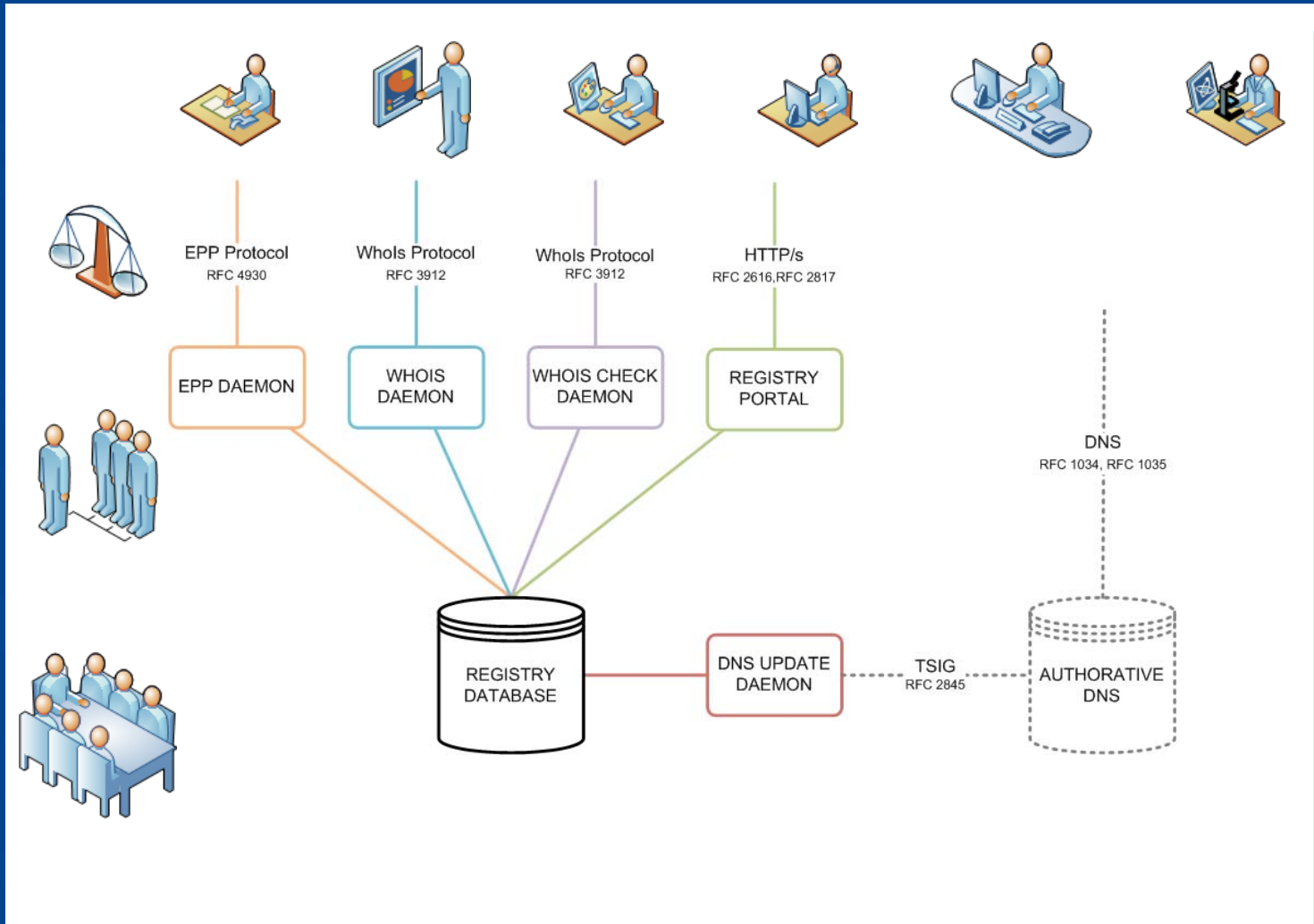
Registry

PIR

Some Registry Examples – .au



What is a Registry?



What is a Registry?

- Registry Software
 - EPP Daemon
 - Whois Daemon
 - DNS Update Daemon
 - Registry Portal Web Application
 - Registry Database
 - EPP Toolkits



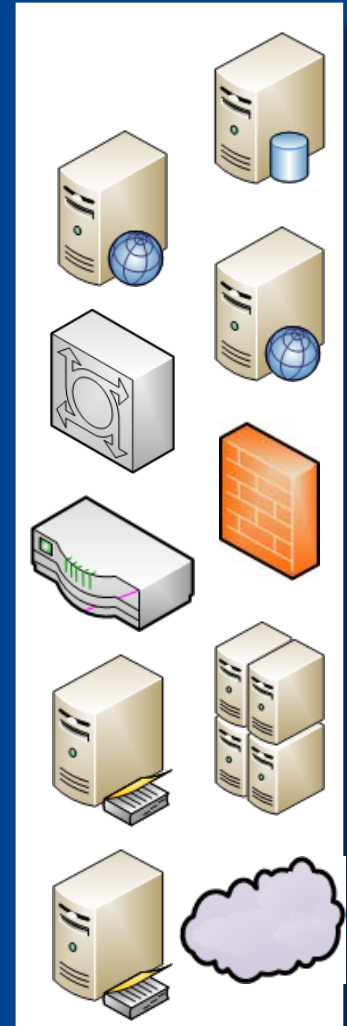
What is a Registry?

- Third Party Software
 - Database
 - Operating Systems
 - Monitoring



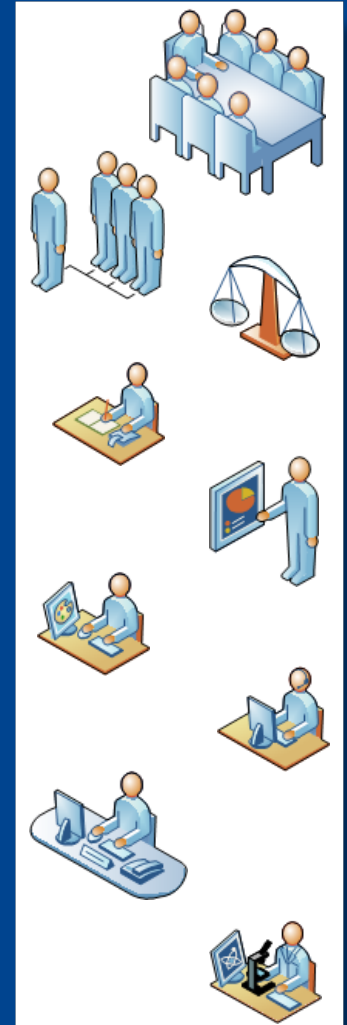
What is a Registry?

- Registry Hardware
 - Registry Servers
 - Whois Servers
 - EPP Servers
 - Load Balances, Fire Walls & Switches
 - Storage
 - Primary Nameservers
 - Secondary Nameservers
- Data Centres & Connectivity



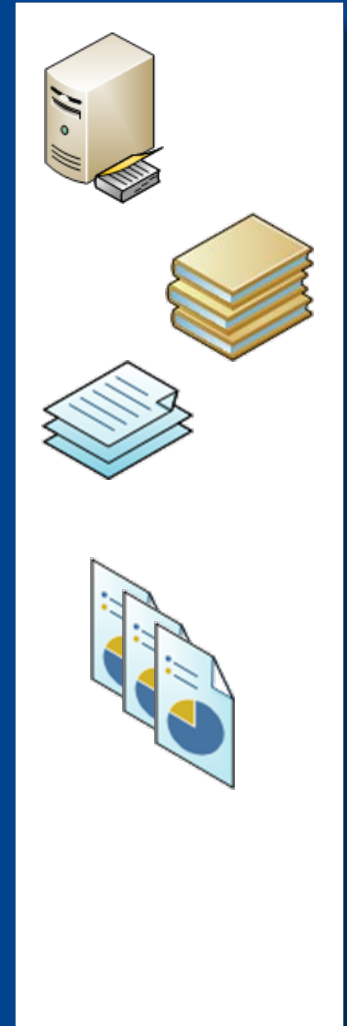
What is a Registry?

- Human Capital
 - Board & Committees
 - Administration & Legal
 - Accounting Services & Marketing
 - Technical
 - Production Support
 - Registrar Support
 - Customer Support
 - Developers

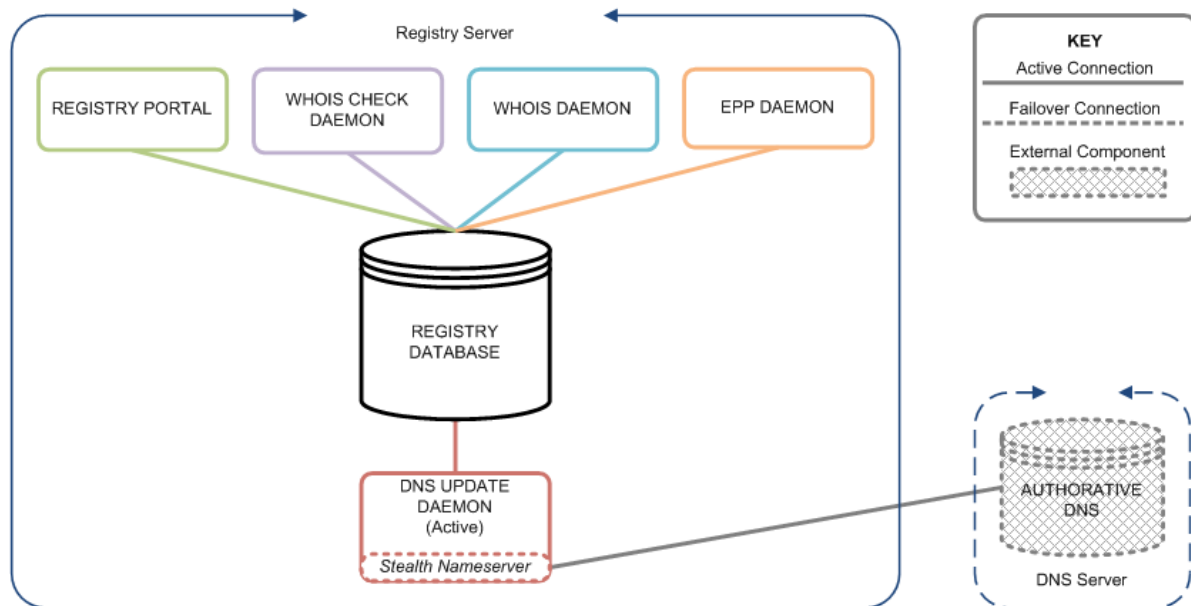


What is a Registry?

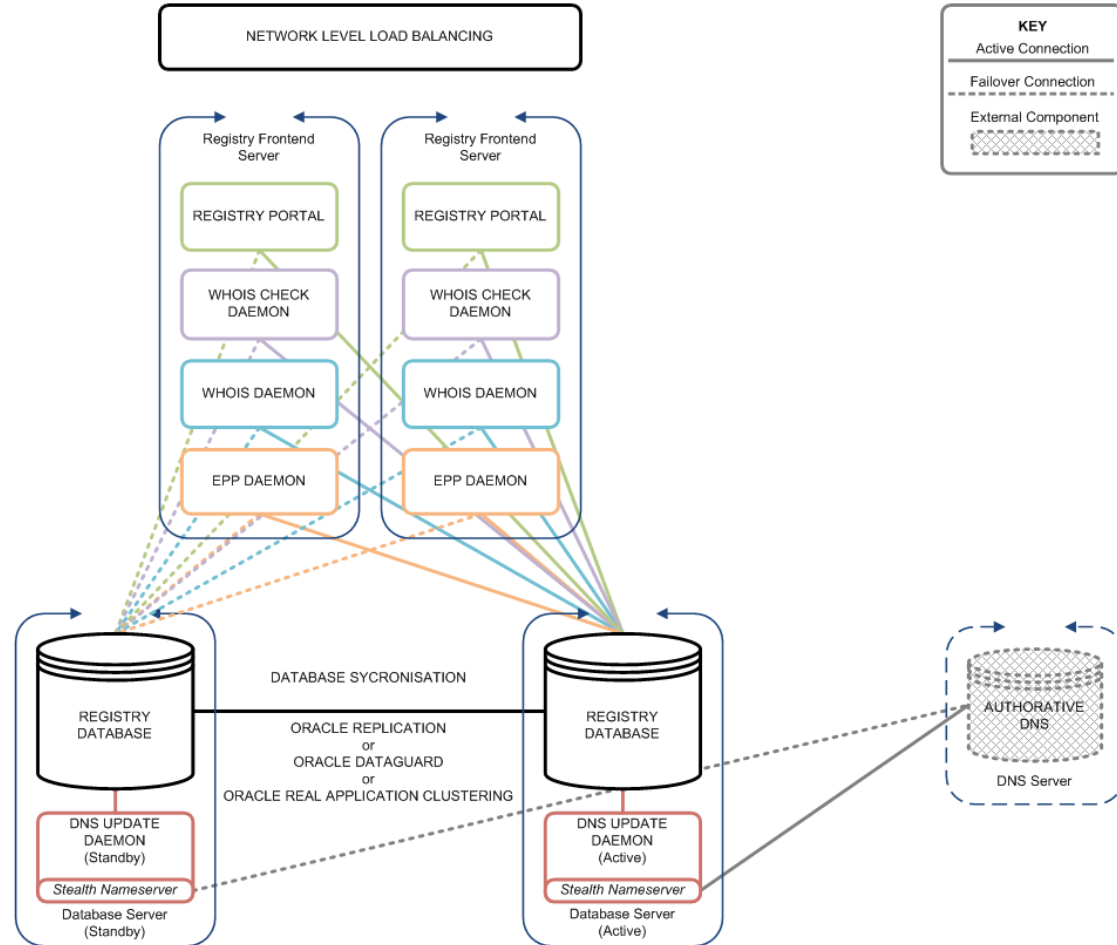
- Escrow
- Compliance
 - Consensus Policy
 - Agreements
- Reporting
 - Service Availability Performance
 - Per-Registrar Activity Report



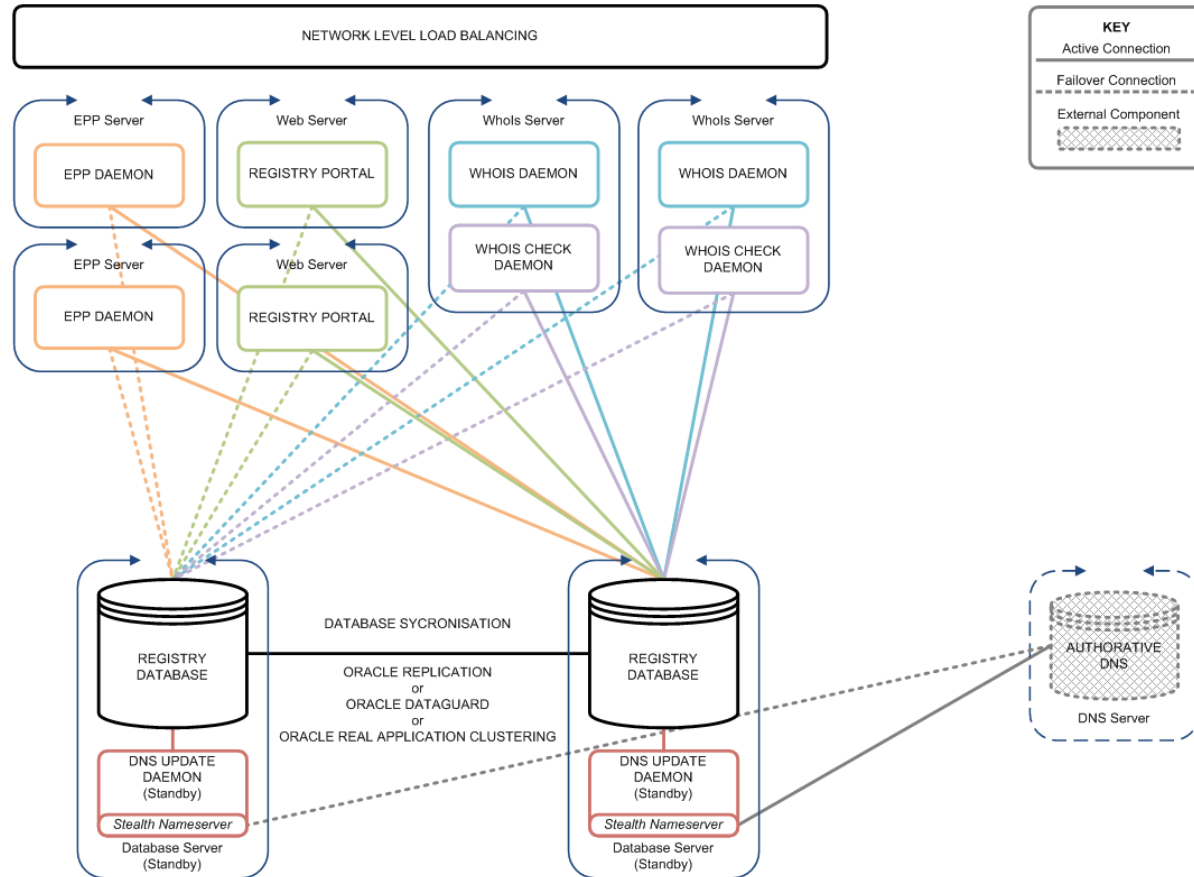
Are you... tiny?



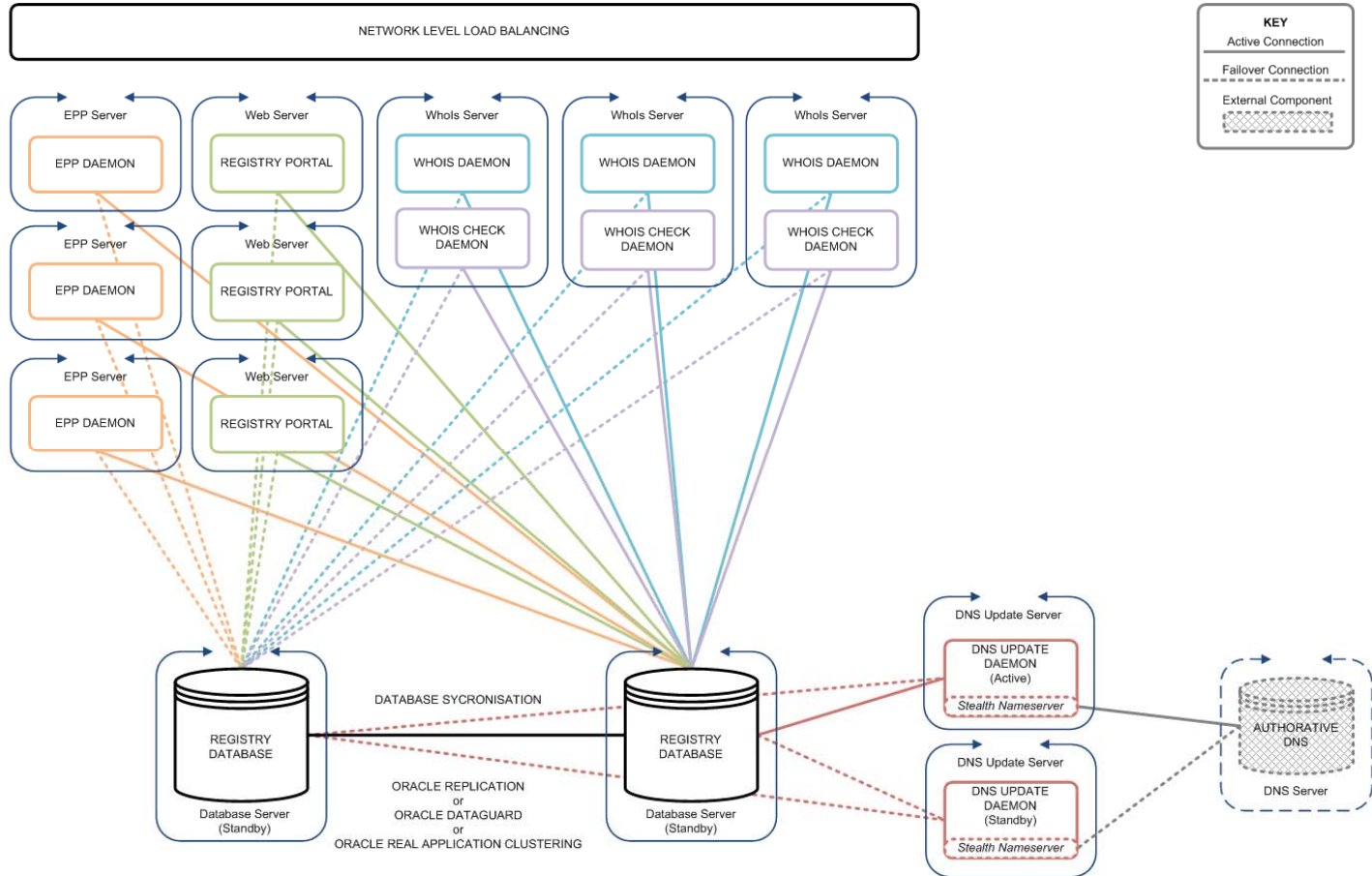
Are you... small?



Are you... medium?



Are you... large?



Budget Considerations

- Security & redundancy
- Nameserver network
- Size of the TLD
- Technical staff
- Administrative staff
- Management staff
- Registry Software, buy vs. build?

Registry Software, buy vs. build?

- What are your Registry Software goals?
 - Be flexible for the future
 - Be able to grow with you
 - Take into consideration your requirements
 - Be compliant with standards
- Once you have your goals
 - Consider the risk of building
 - Conduct a review & prioritise requirements
 - Assess available solutions
 - Think about your time to market

Registry Software, buy vs. build?

Buy

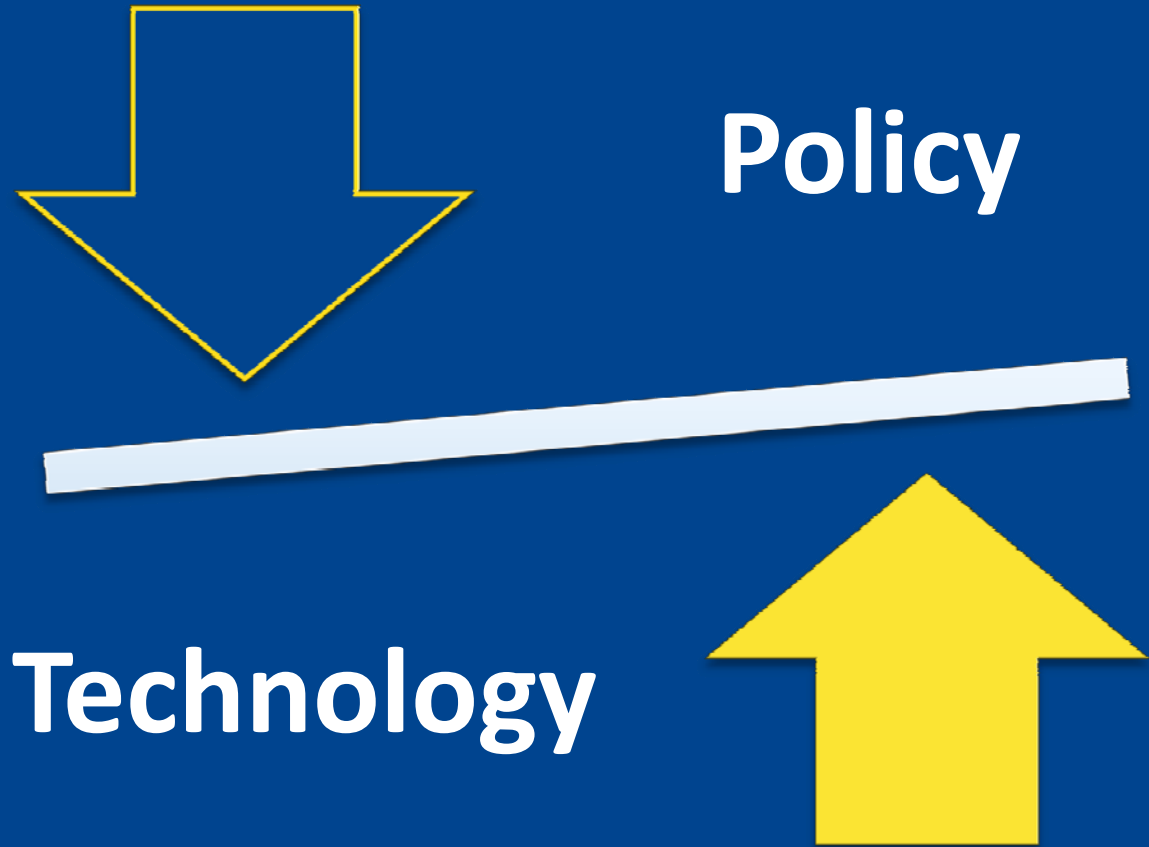
- With no customisation
- With some flexibility
- Customised for you

Build

- From scratch
- Open source

Registry Software, buy vs. build?

- Finding the balance



Registry Software, buy vs. build?

- Building Registry Software takes



Challenges

- Recruiting, rewarding & retaining staff
- Maintenance of the system
- Maintaining & complying with required service levels
- Keeping up to date

Opportunities

- New products & services
- Internationalised Domain Names
- DNSSEC
- New TLDs

Our Experiences

- After 9 years in the industry
 - Communicate with stakeholders
 - Share information & keep up to date
 - Participate
 - Build a good team
 - Draw on the experiences of others
- Get it right!



The TLD Specialists



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