

An EPP solution for co.za

- Background and Introduction
- Problem Statement
- Approach
- Implementation
- Architecture
- Policy Framework
- Benefits



Background and Introduction

- co.za registry – over 650 000 domain names
- Administrator of co.za since 1995
- Systems evolved organically (bottom up)
- Regulatory Uncertainty
- De-facto Rars – informal relationship
- Post payment system
- E-mail interface

Problem Statement

- Scalability
- Stagnation – policy, systems
- Sustainability – shortcomings, abuses, lack of formalisation
- Industry Demands
- Regulatory Pressure
- Skills development and retention
- Legacy System Investment and Maintenance

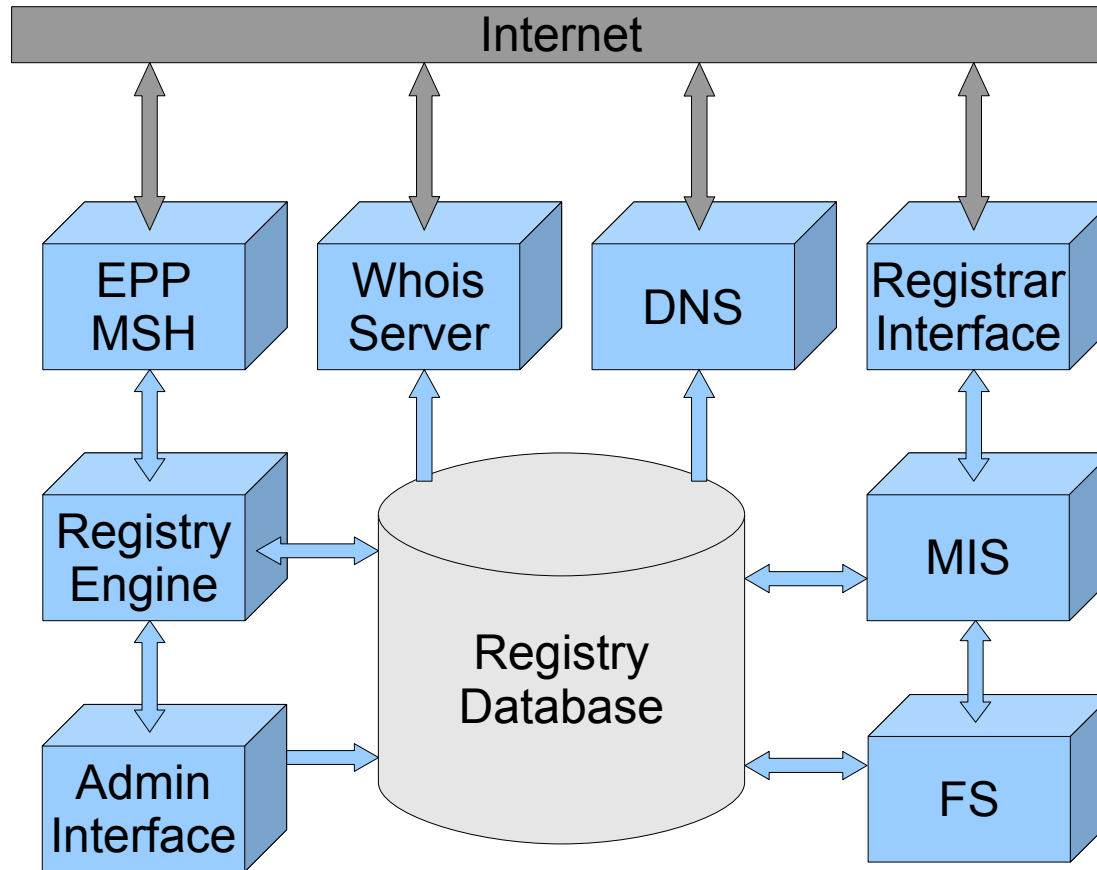
Approach

- Standards Based - EPP
- Technical Research and Benchmarking
- Policy Research and Development
- Stakeholder Engagement
- Implementation wider than just co.za
- Local Resources
- Local and Regional Skills Development

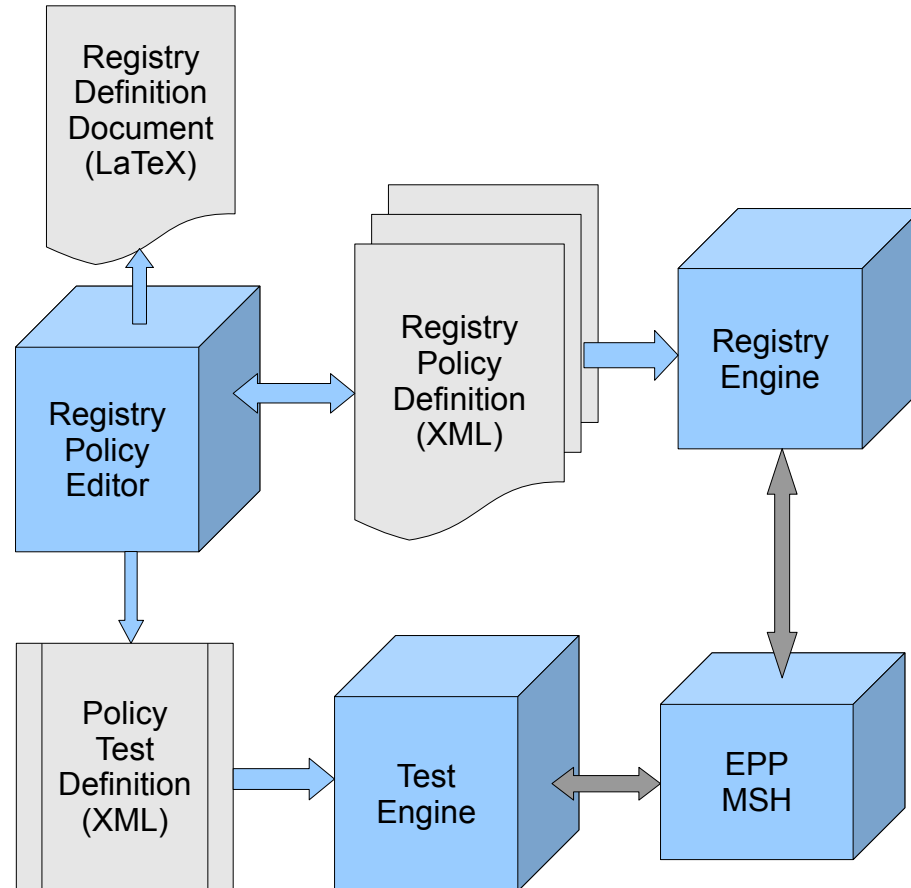
Implementation

- Separate EPP Interface and Message Validation
- Separation of Policy Framework from Policy Implementation
- Structured Policy Definition – assembly of EPP primitives
- Automated Policy Document Generation
- Automated Test Suite Generation

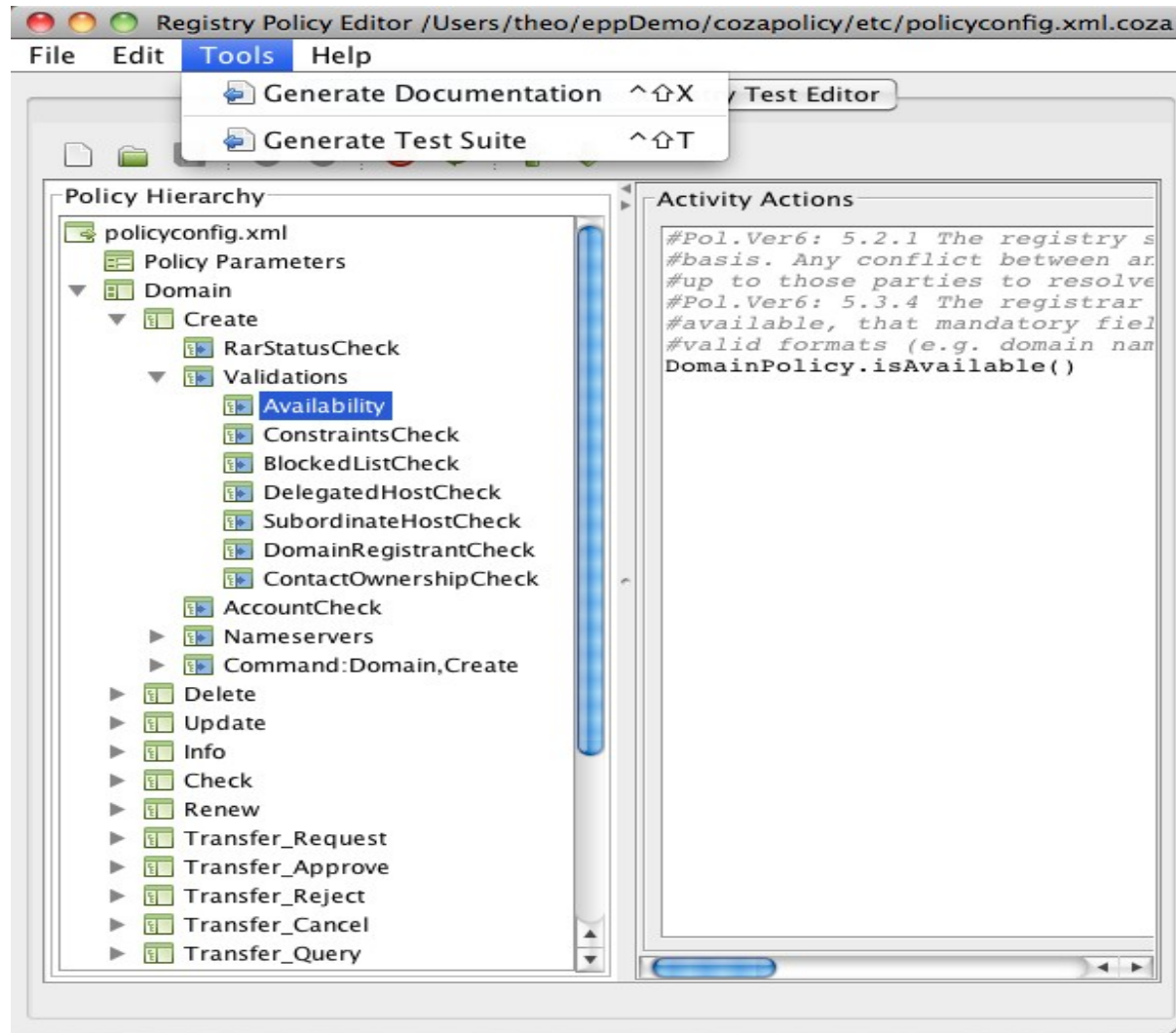
Architecture



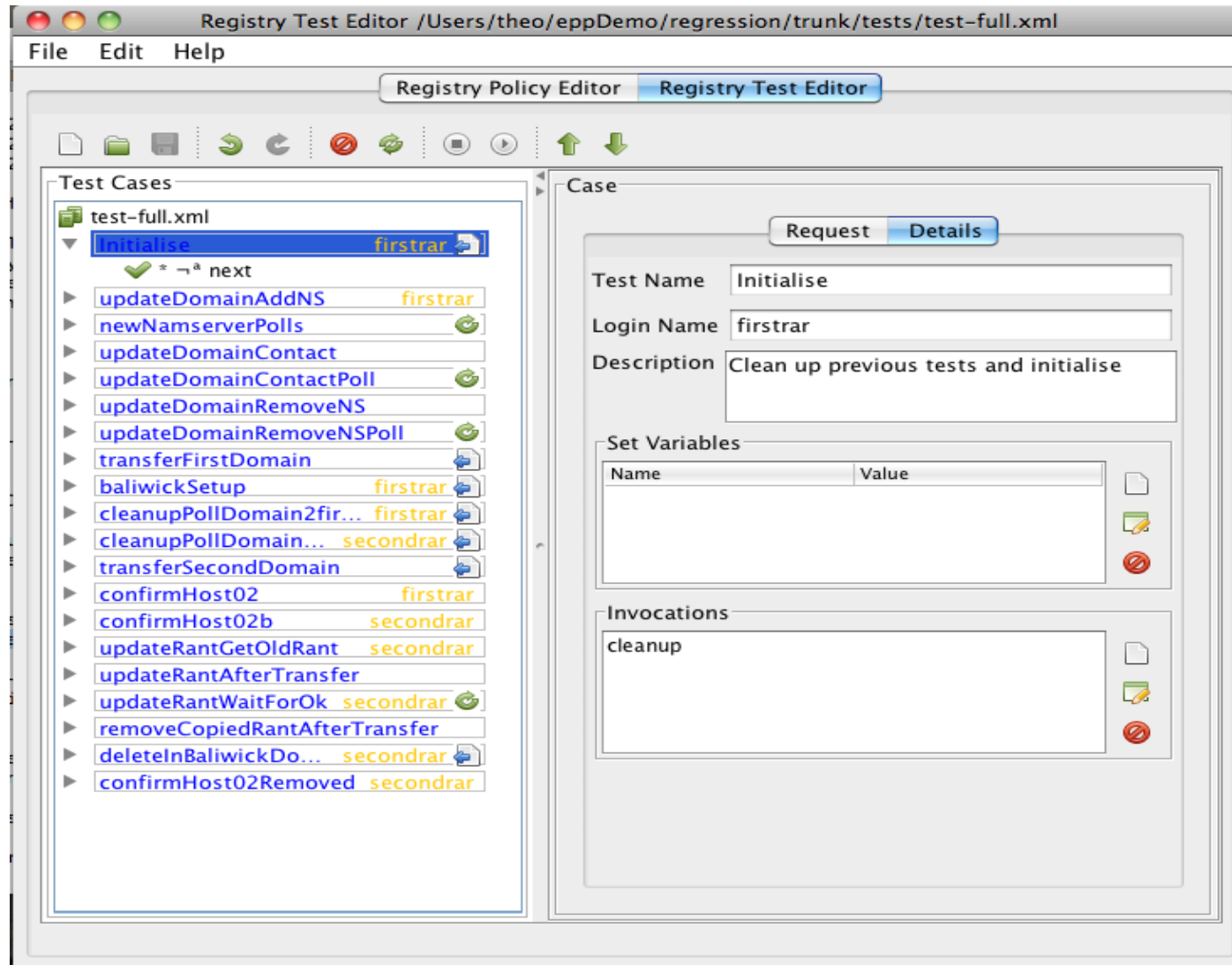
Policy Framework



Policy Editor



Policy Test Framework



Registry Test Editor /Users/theo/eppDemo/regression/trunk/tests/test-full.xml

File Edit Help

Registry Policy Editor Registry Test Editor

Test Cases

- test-full.xml
 - Initialise firststrar
 - * →^ next
 - updateDomainAddNS firststrar
 - newNamserversPolls
 - updateDomainContact
 - updateDomainContactPoll
 - updateDomainRemoveNS
 - updateDomainRemoveNSPoll
 - transferFirstDomain
 - baliwickSetup firststrar
 - cleanupPollDomain2fir... firststrar
 - cleanupPollDomain... secondrar
 - transferSecondDomain
 - confirmHost02 firststrar
 - confirmHost02b secondrar
 - updateRantGetOldRant secondrar
 - updateRantAfterTransfer
 - updateRantWaitForOk secondrar
 - removeCopiedRantAfterTransfer
 - deleteInBaliwickDo... secondrar
 - confirmHost02Removed secondrar

Case

Request Details

Test Name Initialise

Login Name firststrar

Description Clean up previous tests and initialise

Set Variables

Name	Value

Invocations

cleanup

Benefits

- Structured Standards Based Registry System Assembly
- Automated Registry Documentation Generation
- Automated Registry Test Suite Generation
- Multiple Concurrent Policies
- Separation of Skills
- Participation of RARs
- <http://registry.coza.net.za>