

# A DNSSEC trial in the .us Registry

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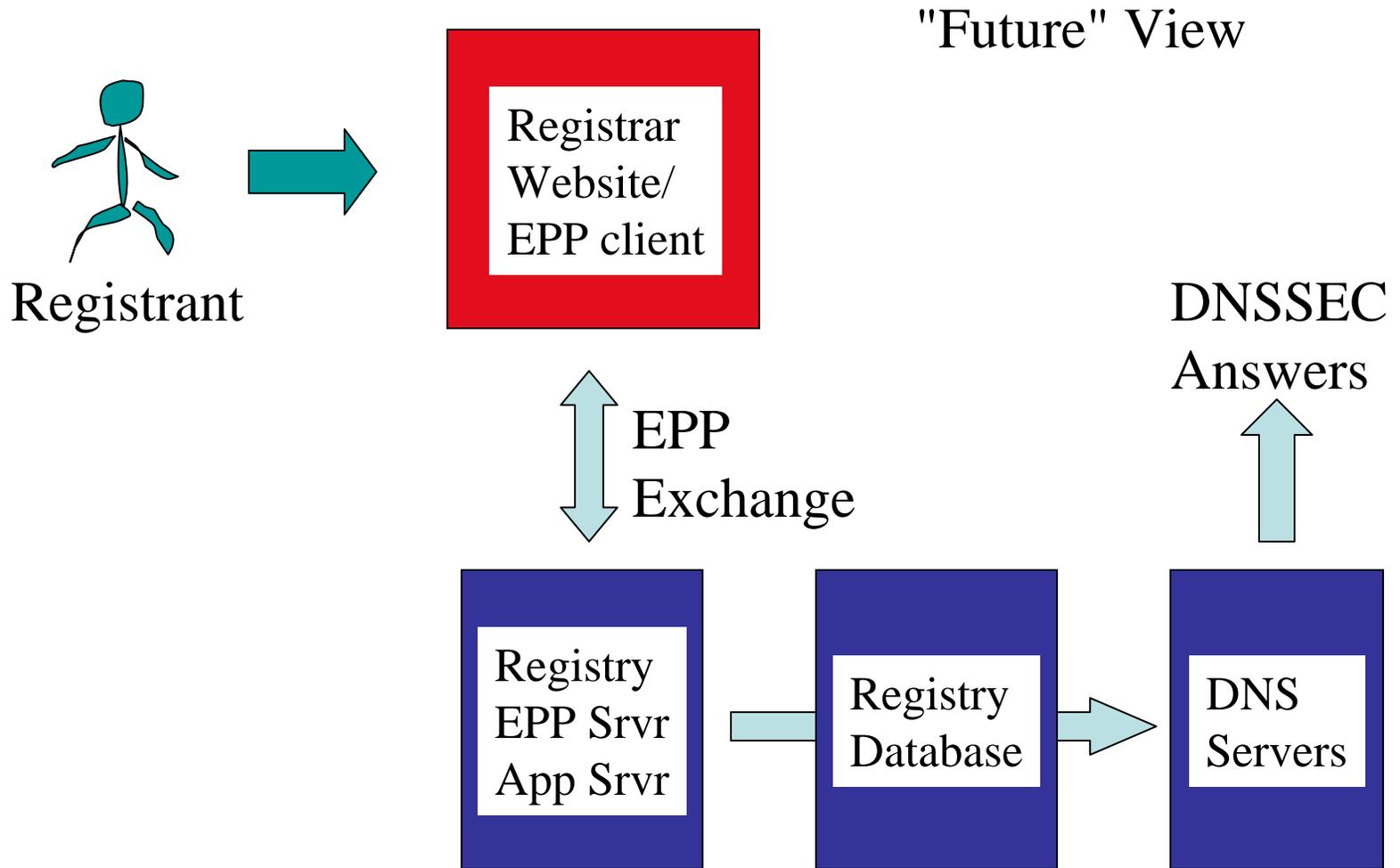
NeuStar

# DNSSEC testing

- There's been a lot of DNSSEC testing within the DNS - mostly using BIND - lots of workshops, etc.
- There's been some (not none, not enough) of DNSSEC testing in the provisioning system

# Goal

- Gain experience with DNSSEC in the Shared Registry System
  - Registrant, Registrar, Registry
- Exercise EPP with DNSSEC extensions
- Exercise of registrar and registry functions



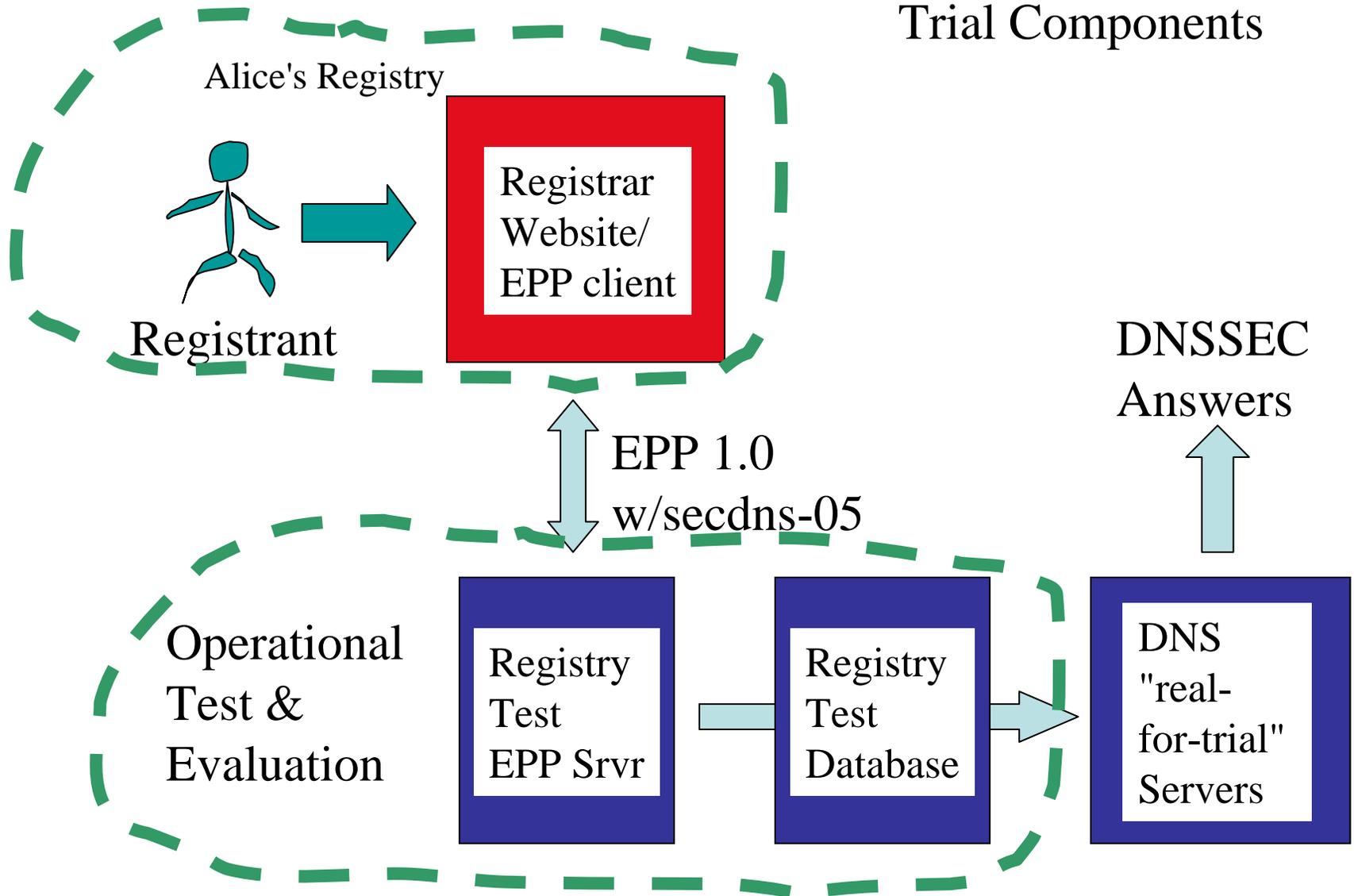
# What's happening

- One registrar now: Alice's Registry
  - Others eligible: members of NeuStar's OT&E
- Limited test now, planned for another week
- A test of the EPP interface
- A test of registry function and zone generation

# EPP Extension Under Test

- A baseline for the test:
  - <http://www.ietf.org/internet-drafts/draft-hollenbeck-epp-secdns-05.txt>
- DS hash transfer implemented, not DNSKEY
- Toolkit developed
  - Made available for trial only

# Trial Components



# Trial Impacts

- The trial does not impact the operational .us zone
  - Uses an "Operational Test & Evaluation" environment
  - All changes are in dnssectrial.us.
- The DNS server is Internet reachable
- All changes originate with the testing registrar

# DNS Impact

- All changes will be seen in dnssectrial.us.
  - dnssectrial.us. NS dns1.dnssectrial.us.
  - dnssectrial.us. NS dns2.dnssectrial.us.
- This is (/will be) a signed zone (naturally)
- Using BIND 9.3.0
- Updates are batched, zone re-signed every 5 minutes

# Test Objectives

- Basic functionality
  - Add, delete, modify, info, etc.
  - Multiple DS's at a name per time
- Comments on the epp-secdns(-05) draft
- Test of API's of EPP implementation, conformance to draft, ability to implement draft

# The big finish...;)

- Comments?
- Questions?
- My email is below...