The Search for a Registry Solution: Experiences of a Small ccTLD

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Why a New System was Required

• Numerous Problems with Current System
  – “Buggy” (example: “creative” Expiry Dates)
  – Primitive Accounting Modules
  – No Support for EPP
Many Choices Available

- Vendor solutions
  - e.g., Afilias, Neustar, Verisign-GRS, etc.

- Other Solutions
  - FRED
  - CoCCA
  - OpenEPP
  - Webcc
  - NZRS
Principal Requirements

• Support for “Thick” Registry Model
• EPP Support
• Open Source
• “Real” Database backend
• Ability to host system on Registry controlled equipment
• IDN Support
Narrowing the Choices

• FRED

• CoCCA
Making the Selection

• Technology Considerations
  – FRED
    • Python and C
    • PostgreSQL
    • OmniORB
  – CoCCA
    • Java
    • PostgreSQL
    • Resin

• Registrar Consultation
  – CoCCA was favored

• ccTLD Operator Consultation
“Real” Work Has Just Begun

• Many outstanding tasks
  – Clean up of existing data; migration
  – Test environment for Registrars
  – Data Center rebuild (from Solaris to Linux)
  – Operational Changes
  – Policy Updates and Changes
  – Registrar education
Yet More Tasks...

- Cutover and fallback planning
- New Registry web site
- Final data capture and cutover
Expected Benefits

• Increased Registry Growth
• Happy Registrars
• Fewer things needing to be handled manually by me
• Reliable system; reliable data
• Closer adherence to “best practices”