RIPE Database IRIS Prototype

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Background & Overview

• IETF working group formed to replace WHOIS
• CRISP produced the IRIS protocol
  – Solves problems with WHOIS
  – Separate core, transport, and registry types
  – Transports include BEEP, XPC, and LWZ
  – Registry types include dreg, dchk, and areg
• areg is address registry
  – Registry type for IP addresses and AS numbers
  – In working group last call
Prototype Server

• Goals
  – Serve as a technology test-bed
  – Discover operational issues

• Answers are queries

• Based on FlowerBed
  – VeriSign Labs reference server implementation

• Acts as a proxy to the RIPE Whois Database

  test-iris.ripe.net:3434
Proxy Details

- Not all attributes present in IRIS
  - “notify:”, “mnt-by:”, “mnt-lower:”, “mnt-domains:”, ...
  - Routing attributes
- Most mapping straightforward
  - start/end addresses
  - network type, organization, e-mail
  - handles (“nic-hdl:”, “netname:”, “as-name:”, …)
- Contacts do not map 1:1
  - “tech-c:” becomes “technical contact”
  - “admin-c:” becomes “other contact”
  - person/role documented in “common name”
Clients

• Web interface
  – http://www.ripe.net/cgi-bin/test-iris/areg-query.pl

• Pimmit
  – GUI client by VeriSign Labs

• Perl module
  – use Net::IRIS::Areg1;
Project Information

http://www.ripe.net/db/iris-pilot/
Thanks

- Peter Banik was the engineer for this prototype.
  - Did programming & co-ordination with Verisign
  - Set up service
  - Wrote draft of this presentation
  - Left the RIPE NCC